Formerly Utilized Sites Remedial Action Program (FUSRAP)

Maywood Chemical Company Superfund Site

ADMINISTRATIVE RECORD

Document Number

MISS-022.



Bechtel National, Inc.

Engineers — Constructors

Jackson Plaza Tower 800 Oak Ridge Turnpike Oak Ridge, Tennessee 37830

Mail Address: P.O. Box 350, Oak Ridge, TN 37831-0350 Telex: 3785873

MAY 2 1 1987

U.S. Department of Energy Oak Ridge Operations Post Office Box E Oak Ridge, Tennessee 37831

Attention: S. W. Ahrends, Director

Technical Services Division

Subject: Bechtel Job No. 14501, FUSRAP Project

> DOE Contract No. DE-AC05-810R20722 Publication Copies of the Sears

Characterization Report

Code: 7310/WBS: 138

Dear Mr. Ahrends:

The following is the response to your letter dated May 20, 1987, DOE No. 87-327 (our CCN 045032).

Enclosed are 25 final copies of the subject report. comments from Bob Atkin and Steve Oldham have been incorporated.

If there are any questions, please contact Tom Pravecky at 576-4274.

Very truly yours,

J. R. Kannard

Program Manager - FUSRAP

Enclosures: As stated

cc: R.G. Atkin

J.D. Berger - ORAU (w/enclosure)

G.K. Hovey

B.A. Hughlett

L. Johnson - TMA/E (w/enclosure)

J.F. Wing

0966x

CONCURRENCE

CHARACTERIZATION REPORT FOR

THE SEARS PROPERTY

MAYWOOD, NEW JERSEY

MAY 1987

Prepared for

UNITED STATES DEPARTMENT OF ENERGY

OAK RIDGE OPERATIONS OFFICE

Under Contract No. DE-AC05-810R20722

Ву

C.P. Leichtweis, J.A. Liberatore, and T.M. Dravecky Bechtel National, Inc. Oak Ridge, Tennessee

Bechtel Job No. 14501

ABSTRACT

This report summarizes the procedures and results of the radiological and limited chemical characterization of the property occupied by Sears, Roebuck and Co. in Maywood, New Jersey. The characterization was performed by Bechtel National, Inc. (BNI) for the Department of Energy (DOE). The radiological characterization was performed to identify the extent of contamination exceeding DOE radiological guidelines. The limited chemical characterization was performed to assist in planning personnel protection requirements during remedial action. Ultimately, the data generated during the radiological and chemical characterizations will be used in defining the complete scope of remedial action.

The radiological characterization confirmed that thorium-232 is the primary radioactive contaminant. Elevated levels of radium-226 and uranium-238 were also identified. Analysis of surface soil samples showed maximum concentrations of thorium-232, radium-226, and uranium-238 to be 70, 10, and less than 77 pCi/g, respectively.

The results of the subsurface soil sample analyses showed the maximum concentrations of thorium-232, radium-226, and uranium-238 to be 180, 37, and less than 232 pCi/g, respectively. These concentrations were measured under the Sears warehouse.

In sediment samples, the maximum concentration of thorium-232 was 93 pCi/g, and 9 pCi/g for radium-226. The maximum uranium-238 concentration was less than 57 pCi/g. However, guidelines for radionuclides in sediment have not yet been established; these guidelines are developed on a site-specific basis.

Gross alpha counting was used to determine the radioactivity of water samples. This method measures radioactivity without identifying specific radionuclides. The maximum concentration exhibited in these samples was 18.4 pCi/l.

Radon/thoron concentrations in air were measured in the Sears warehouse; two measuring techniques were used. Concentrations measured using the Lucas cell method were 0.2 and 2.2 pCi/l. Measurements taken with the continuous-monitoring Pylon detector showed concentrations at the interior borehole locations ranging from 0 to 0.9 pCi/l before drilling, 5 to 30 pCi/l immediately after drilling, and 50 to 300 pCi/l 72 h after drilling. The average exposure rate was 13 uR/h (including background).

Results of the limited chemical characterization indicate chemical contamination at the Sears property, and that it is commingled with the radioactive contamination. The BNI chemical analyses were performed on composited samples because the purpose of the investigation was to detect the presence of chemical contamination rather than to provide a detailed account of contaminants and concentrations.

Results of volatile organics analyses indicated the presence of chemical contamination; however, because the laboratory exceeded the allowable holding times for these analyses, only a general evaluation of the data was possible. Analyses for base neutral/acid extractables showed contamination at certain locations, where radioactive contamination also exists. Analyses of priority pollutant metals indicated a number of constituents with concentrations above published background levels and that are listed as hazardous by the New Jersey Department of Environmental Protection.

Results of the analyses for pesticides and polychlorinated biphenyls (PCBs) showed no detectable levels of these constituents; analyses for Environmental Protection Agency-specified hazardous waste characteristics (40 CFR 261) indicated trace levels of some of these contaminants.

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ABBREVIATIONS

centimeter CM cm^2 square centimeter counts per minute cpm mqb disintegrations per minute ft foot h hour in. inch 1 liter meter m m² square meter microroentgens per hour uR/h mi mile mi² square mile mrad/h millirad per hour millirem mrem millirem per year mrem/yr min minute ppb parts per billion parts per million ppm pCi/g picocuries per gram pCi/l picocuries per liter WLworking level уđ yard yd³ cubic yards

1.0 INTRODUCTION AND SUMMARY

1.1 INTRODUCTION

The 1984 Energy and Water Appropriations Act directed the Department of Energy (DOE) to conduct a decontamination research and development project at four sites, including the site of the former Maywood Chemical Works [now owned by the Stepan Company (SC)] and its vicinity properties. The act was reauthorized in 1985. DOE now owns 11.7 acres of land east of the SC property and has constructed the Maywood Interim Storage Site (MISS) on that land. The Sears, Roebuck and Co. leases property (hereinafter referred to as the Sears property) adjacent to the SC property that is included as one of the Maywood vicinity properties. The work is being administered by the Formerly Utilized Sites Remedial Action Program (FUSRAP), one of two remedial action programs under the direction of the DOE Division of Facility and Site Decommissioning Projects.

The United States Government initiated FUSRAP in 1974 to identify, clean up, or otherwise control sites where low activity radioactive contamination (exceeding current guidelines) remains from the early years of the nation's atomic energy program or from commercial operations that resulted in conditions Congress has mandated DOE to remedy (Ref. 1).

FUSRAP is currently being managed by the DOE Oak Ridge Operations Office. As the Project Management Contractor for FUSRAP, Bechtel National, Inc. (BNI) is the DOE representative for planning, managing, and implementing FUSRAP.

1.2 PURPOSE AND OBJECTIVES

A radiological characterization of the Sears property has been conducted to determine the horizontal and vertical limits of contamination and ranges of radionuclide concentrations, and to estimate the volume of contamination at the property. The information obtained from this characterization work will be used in

planning any required remedial action. A limited chemical characterization was also performed; the objective was to provide the information necessary to develop appropriate employee health protection measures to be implemented during any remedial action at the Sears property.

1.3 SUMMARY

This report summarizes the procedures and results of the radiological and limited chemical characterization of Sears conducted from May through August 1986.

1.3.1 Radiological Summary

The radiological characterization confirmed that thorium-232 is the primary radioactive contaminant. Elevated levels of radium-226 and uranium-238 were also identified. The surface soil sample results showed maximum concentrations of thorium-232, radium-226, and uranium-238 to be 70, 10, and less than 77 pci/g, respectively. Maximum concentrations in sediment samples for thorium-232, radium-226, and uranium-238 were 93, 9, and less than 57 pci/g, respectively. However, no DOE guidelines for radionuclides in sediment have been developed yet for the Sears property.

The results of the subsurface soil sample analysis showed the maximum concentrations of thorium-232, radium-226, and uranium-238 to be 180, 37, and less than 232 pCi/g, respectively. These concentrations were measured under the Sears warehouse.

Gross alpha counting was used to determine the amount of radioactivity in the water samples. This method measures radioactivity without identifying specific radionuclides. The maximum concentration exhibited in these samples was 18.4 pCi/l.

Radon/thoron concentrations in air were measured in the Sears warehouse; two measuring techniques were used. Concentrations measured using the Lucas cell method were 0.2 and 2.2 pCi/l.

Measurements taken with the continuous-monitoring Pylon detector showed concentrations at the interior borehole locations ranging from 0 to 0.9 pCi/l before drilling, 5 to 30 pCi/l immediately after drilling, and 50 to 300 pCi/l 72 h after drilling. The average exposure rate was 13 uR/h (including background).

1.3.2 Chemical Summary

Results of the limited chemical characterization indicate chemical contamination at the Sears property, and that it is commingled with the radioactive contamination. Results of volatile organics analysis (VOA) indicate the presence of chemical contamination; however, because the laboratory exceeded the allowable holding times for these analyses, only a general evaluation of the data is possible. Analyses for base neutral/acid extractables (BNAE) showed contamination at certain locations. The results of the priority pollutant metals analyses indicated a number of constituents with concentrations above background levels and that are listed as hazardous by the New Jersey Department of Environmental Protection (NJDEP).

Results of the analyses for pesticides and PCBs showed no detectable levels of these constituents; analyses for Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics indicated trace levels of some contaminants.

The Environmental Protection Agency (EPA) conducted chemical characterization in parallel with the DOE characterization effort.

2.0 SITE DESCRIPTION AND HISTORY

2.1 LOCATION AND DESCRIPTION

The Sears property lies in a highly developed area in the Borough of Maywood and the Township of Rochelle Park, in the County of Bergen, New Jersey. The population of the area averages approximately 10,000 people per mi². It is located approximately 12 mi north-northwest of downtown Manhattan (New York City) and 13 mi northeast of Newark, New Jersey (Figure 2-1). The Sears property is bounded by New Jersey Route 17 on the west; on the south by Gulf and Sunoco Service Stations as well as the Federal Express and Hunter Douglas properties; on the east by the DeSaussure property and Maywood Avenue; and on the north by the MISS and the Stepan Company. Figure 2-2 shows the locations of these properties.

Sears, Roebuck and Co. presently holds a long-term lease on the 31-acre, fenced lot used for commercial purposes.

2.2 HISTORY OF SITE AND VICINITY

From 1916 through 1956, the Maywood Chemical Works processed monazite sand (thorium ore) for use in the manufacture of industrial products such as mantles for gas lanterns. During this time, slurry containing process wastes from the thorium operations was pumped to diked areas west of the plant. The area west of the plant was generally swampy and, at that time, contained the origin of Lodi Brook. In 1932, New Jersey Route 17 was built through this disposal area. Some of these process wastes were removed from the Maywood Chemical Works for use as mulch and fill on nearby properties, thereby contaminating them with radioactive thorium (Ref. 2).

In 1954, the Atomic Energy Commission (AEC) issued License R-103 to the Maywood Chemical Works allowing it to continue to ship, receive, possess, and process radioactive materials under the authority of the Atomic Energy Act of 1954. The Maywood Chemical Works stopped

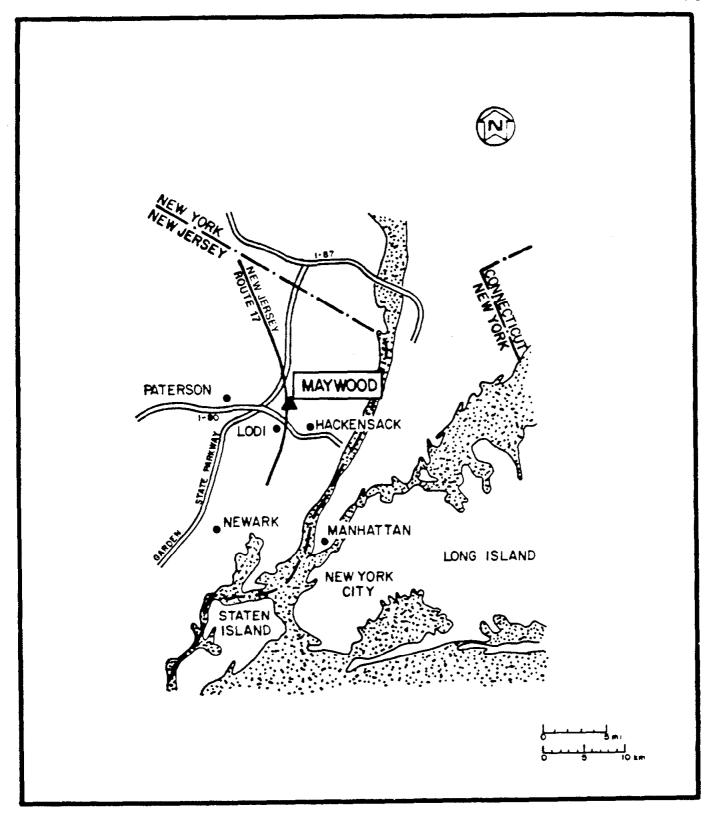


FIGURE 2-1 LOCATION OF MAYWOOD, NEW JERSEY

FIGURE 2-2 LOCATION OF SEARS AND ADJACENT PROPERTIES

processing thorium in 1956 after approximately 40 years of production. The Maywood Chemical Works was sold to the Stepan Company (SC) in 1959 (Ref. 2).

In 1961, the SC was issued an AEC radioactive materials license (STC-130). Based on AEC inspections and information regarding the property on the west side of New Jersey State Route 17 (the Ballod property), the SC agreed to take certain remedial actions. The cleanup began in 1963; in 1966, 8360 yd³ of waste was removed from the area west of Route 17 and buried on SC property at Burial Site No. 1, which is now overlain by grass. In 1967, 2050 yd³ of waste were removed from the same general area and buried on SC property at Burial Site No. 2, which is now a parking lot. In 1968, the SC transferred an additional 8600 yd³ of waste from the south end of the Ballod property and buried it on SC property at Burial Site No. 3, an area where a warehouse was later built (Ref. 2).

At the request of the SC, a radiological survey of the south end of the Ballod property was conducted by the AEC in 1968. Based on the findings of that survey, clearance was granted for release of the property for unrestricted use. At the time of the survey, the AEC was not aware of contaminated waste materials still present in the northeast corner of the property (across Route 17). In 1968, this portion of the SC property was sold to a private citizen who later sold it to Ballod Associates (Ref. 2).

In 1980, the U.S. Nuclear Regulatory Commission (NRC) was notified of elevated radiation levels on the Ballod Associates' property (Ref. 3). This information prompted the NRC to conduct a survey in late 1980 and then direct that a comprehensive survey be conducted to assess the radiological condition of the property. The survey was performed in February 1981 by Oak Ridge Associated Universities (ORAU) with the assistance of a representative from the Region I office of the NRC (Ref. 4). In addition, an aerial radiological survey of the SC site, the Ballod Associates' property, and the surrounding area was conducted by EG&G Energy Measurements Group for

the NRC in January 1981 (Ref. 5). EG&G reported elevated levels of radiation on the Sears property. The NUS Corporation also conducted a radiological survey of the Sears and adjacent properties in 1983 (Ref. 6).

2.3 PREVIOUS RADIOLOGICAL SURVEYS

Two radiological surveys of the Sears property have been conducted.

January 1981 - The NRC directed that an aerial survey be conducted using the SC plant as its center. The survey was conducted by EG&G and covered a 4-mi² area. Anomalous concentrations of thorium-232 were identified in areas to the north and south of the SC, which included the Sears property (Ref. 5).

November 1983 - The NUS Corporation conducted a survey for the EPA in July and August of 1983 and concluded that there are several contaminated areas on the Sears property: at the north end of the property behind the warehouse and on either side of the access road (Ref. 6).

2.4 PRESENT SITE CONDITIONS

The Sears warehouse covers approximately 480,000 ft² and occupies approximately one-third of the site. A railroad spur runs through the MISS and ends at the northeast corner of the Sears warehouse. Concrete parking and storage areas are around the building, and grassy areas cover the rest of the property (Figure 2-3). A swampy area lies east of the Sears warehouse.

2.5 REMEDIAL ACTION GUIDELINES

Previous radiological characterizations indicated the presence of radioactive contamination on this property; principally thorium-232, with lesser amounts of radium-226 and uranium-238. Table 2-1 summarizes the DOE guidelines for residual contamination. The thorium-232 and radium-226 limits listed in Table 2-1 will be

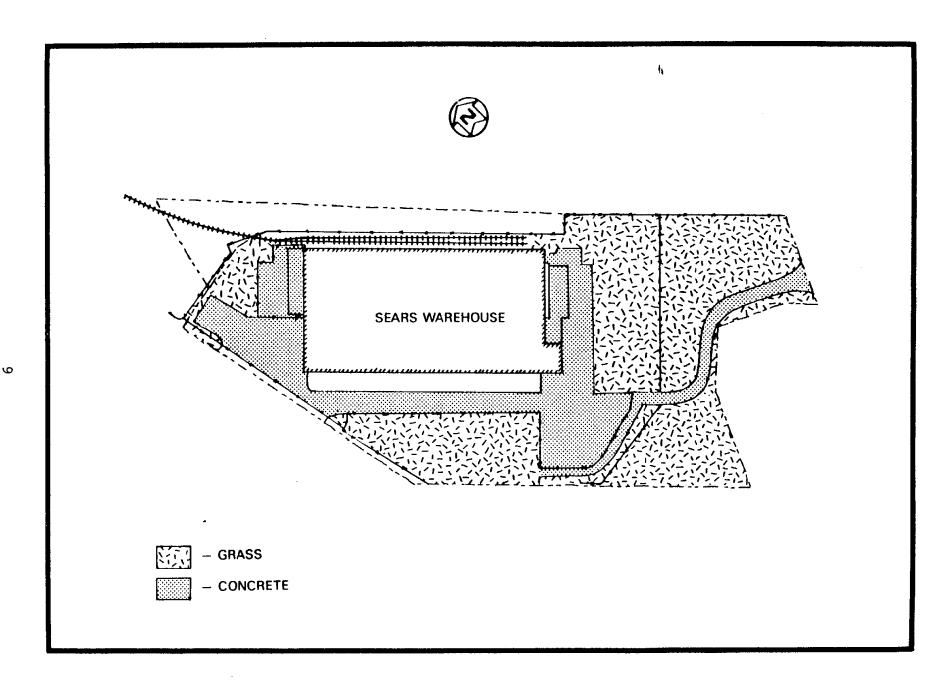


FIGURE 2-3 SEARS PROPERTY

TABLE 2-1 SUMMARY OF RESIDUAL CONTAMINATION GUIDELINES AT THE SEARS PROPERTY

Page 1 of 2

BASIC DOSE LIMITS

The basic limit for the annual radiation dose received by an Individual member of the general public is 100 mrem/yr.

SOIL (LAND) GUIDELINES (MAXIMUM LIMITS FOR UNRESTRICTED USE)

RadTonuclide	Soil Concentration (pCi/g) above background a, D, C		
Rad1um-226	5 pCi/g, averaged over the first 15 cm of soil below		
Rad1um-228	the surface; 15 pCi/g when averaged over any 15-cm-		
Thorium-230	thick soil layer below the surface layer.		
Thorium-232			
Other radionuclides	Soil guidelines will be calculated on a site-specific		
	basis using the DOE manual developed for this use.		

STRUCTURE GUIDELINES (MAXIMUM LIMITS FOR UNRESTRICTED USE)

Airborne Radon Decay Products

Generic guidelines for concentrations of airborne radon decay products shall apply to existing occupied or habitable structures on private property that are intended for unrestricted use; structures that will be demolished or buried are excluded. The applicable generic guideline (40 CFR 192) is: In any occupied or habitable building, the objective of remedial action shall be, and reasonable effort shall be made to achieve, an annual average (or equivalent) radon decay product concentration (including background) not to exceed 0.02 WL. In any case, the radon decay product concentration (including background) shall not exceed 0.03 WL. Remedial actions are not required in order to comply with this guideline when there is reasonable assurance that residual radioactive materials are not the cause.

External Gamma Radiation

The average level of gamma radiation inside a building or habitable structure on a site to be released for unrestricted use shall not exceed the background level by more than 20 uR/h.

Allowable Surface Residual Contamination^e

Indoor/Outdoor Structure Surface Contamination

	(dpm/100 cm ²)			
Radionuclide	Average ^g , h	Maximum ^{h, i}	Removable h, j	
Transuranics, Ra-226, Ra-228, Th-230, Th-228 Pa-231, Ac-227, 1-125, 1-129	100	. 300	20	
Th-Natural, Th-232, Sr-90, Ra-223, Ra-224 U-232, I-126, I-131, I-133	1,000	3,000	200	

TABLE 2-1

(continued)

Page 2 of 2

Indoor/Outdoor Structure Surface Contamination (continued)

Allowable Surface Residual Contaminatione $(dpm/100 cm^2)$ Average^{g, h} Radionuclide^f Maximumh, I Removableh, J U-Natural, U-235, U-238, and associated decay 5,000 **A** 15,000 € 1.000 X products Beta-gamma emitters (radionuclides with decay 5,000 B-X 15,000 B-X modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above

These guidelines take into account ingrowth of radium-226 from thorium-230 and of radium-228 from thorium-232, and assume secular equilibrium. If either thorium-230 and radium-226 or thorium-232 and radium-228 are both present, not in secular equilibrium, the guidelines apply to the higher concentration. If other mixtures of radionuclides occur, the concentrations of individual radionuclides shall be reduced so that the dose for the mixtures will not exceed the basic dose limit.

^bThese guidelines represent unrestricted-use residual concentrations above background averaged across any 15-cm-thick layer to any depth and over any contiguous 100-m² surface area.

CLocalized concentrations in excess of these limits are allowable provided that the average over a 100-m² area is not exceeded.

 $^{^{}m d}$ A working level (WL) is any combination of short-lived radon decay products in 1 liter of air that will result in the ultimate emission of 1.3 x 10 5 MeV of potential alpha energy.

^eAs used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

[†]Where surface contamination by both alpha- and beta-gamma-emitting radionuclides exists, the limits established for alpha- and beta-gamma-emitting radionuclides should apply independently.

gMeasurements of average contamination should not be averaged over more than 1 m 2 . For objects of less surface area, the average shall be derived for each such object.

^hThe average and maximum radiation levels associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mrad/h and 1.0 mrad/h, respectively, at 1 cm.

The maximum contamination level applies to an area of not more than 100 cm^2 .

jThe amount of removable radioactive material per 100 cm² of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and measuring the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of surface area less than 100 cm² is determined, the activity per unit area should be based on the actual area and the entire surface should be wiped. The numbers in this column are maximum amounts.

used to determine the extent of remedial action required at the Sears property. DOE implemented these guidelines on the basis of their compatibility with EPA criteria.

Although the concentrations for uranium-238 have higher values than thorium-232 concentrations (see Section 5.0), thorium-232 is considered the primary contaminant. As shown in Table 2-1, the guidelines for thorium-232 are 5 pCi/g for surface soil and 15 pCi/g for subsurface soil. Although no specific guidelines have been determined for uranium-238, using a typical (as opposed to a site-specific) value to calculate the guideline would result in a guideline of approximately 75 pCi/g. Because the measured concentrations of thorium-232 exceed its guidelines by a greater percentage than uranium-238, thorium-232 is considered the primary contaminant.

Chemical contamination will also be subject to remedial action. To the extent that it is commingled with radioactive contamination, no additional guidelines are required because all commingled waste will be removed. Guidelines to determine the extent of remedial action required for chemical contamination that is not commingled with radioactive contamination are the responsibility of the EPA and will be subject to review by the State of New Jersey.

3.0 HEALTH AND SAFETY PLAN

BNI is responsible for the health protection of personnel assigned to work at the site. As such, all subcontractors and their personnel were required to comply with the provisions of the applicable project instructions cited in this section or as directed by the on-site BNI representative.

3.1 SUBCONTRACTOR TRAINING

Before the start of work, all subcontractor personnel attended an orientation session presented by the BNI representative to explain the nature of the material to be encountered in the work and the required personnel monitoring and safety measures.

3.2 SAFETY REQUIREMENTS

Subcontractor personnel complied with the following BNI requirements.

- o Bioassay Subcontractor personnel submitted bioassay samples before or at the beginning of on-site activity, upon completion of the activity, and periodically during site activities as requested by BNI.
- o Protective Clothing/Equipment Subcontractor personnel wore the protective clothing/equipment specified in the subcontract or as directed by the BNI representative.
- o Dosimetry Subcontractor personnel were required to wear, and return daily, the dosimeters and monitors issued by BNI.
- o Controlled Area Access/Egress Subcontractor personnel and equipment entering areas wherein access and egress are controlled for radiation and/or chemical safety purposes were surveyed by the BNI representative for contamination before leaving those areas.
- o Medical Surveillance Upon written direction from BNI, subcontractor personnel, who worked in areas where hazardous chemicals may exist, were given a baseline and periodic health assessment defined in BNI's Medical Surveillance Program.

Radiation and/or chemical safety surveillance of all activities related to the scope of work was under the direct supervision of personnel representing BNI.

The health physics requirements for all activities involving radiation or radioactive material are defined in Project Instruction No. 20.01, the Project Radiation Protection Manual, and implementing procedures.

The industrial hygiene requirements for activities involving chemicals or chemically contaminated materials are defined in Project Instruction No. 26.00, the Environmental Hygiene Manual, and implementing procedures.

Copies of these project instructions were located on-site for subcontractors use.

Environmental hygiene monitoring was conducted continuously during drilling operations with an ENMET CGS-100 and Draeger pump using gas-specific detector tubes. The monitoring was conducted to develop appropriate employee health protection measures to be implemented during any remedial action at the Sears property.

There were no reported injuries or lost-time accidents during the characterization activities.

4.0 SURVEY PROCEDURES

A land survey of the Sears property was carried out in April 1986. The locations of rubble, surface obstructions, buried utility lines, culverts, drainage ditches, and other features were noted and mapped.

A civil surveyor established a 50-ft grid over the entire Sears property by staking the intersections of a series of perpendicular lines. The grid was a continuation of the one established at the MISS. This grid is shown in Figure 4-1. Establishing the grid allowed BNI to collect data in a systematic manner. This grid is tied to the New Jersey state grid system so that it can be reestablished during any remedial action. All data given in this report correspond to the coordinates of the grid.

4.1 FIELD CHARACTERIZATION

4.1.1 Measurements Taken and Methods Used

Surface characterization was conducted using a shielded gamma scintillation detector. Near-surface gamma radiation measurements were taken 12 in. from the ground at the intersections of perpendicular grid lines spaced at least 10 ft apart. Using the shielded detector ensured that any radiation detected by the probe was originating from the ground directly beneath the unit. By shielding against lateral gamma flux, or shine, from nearby areas of contamination, the shielded detector minimized potential sources of error in the measurements. Furthermore, this detector was calibrated at the Technical Measurements Center (TMC) in Grand Junction, Colorado, to provide a correlation of counts per minute (cpm) to picocuries per gram (pCi/g). This calibration showed that 11,000 cpm corresponds to the DOE surface soil guideline of 5 pCi/g for thorium-232. This correlation has been corroborated in other characterization work (Ref. 7).

Additional gamma radiation measurements were taken at the swampy area east of the Sears warehouse.

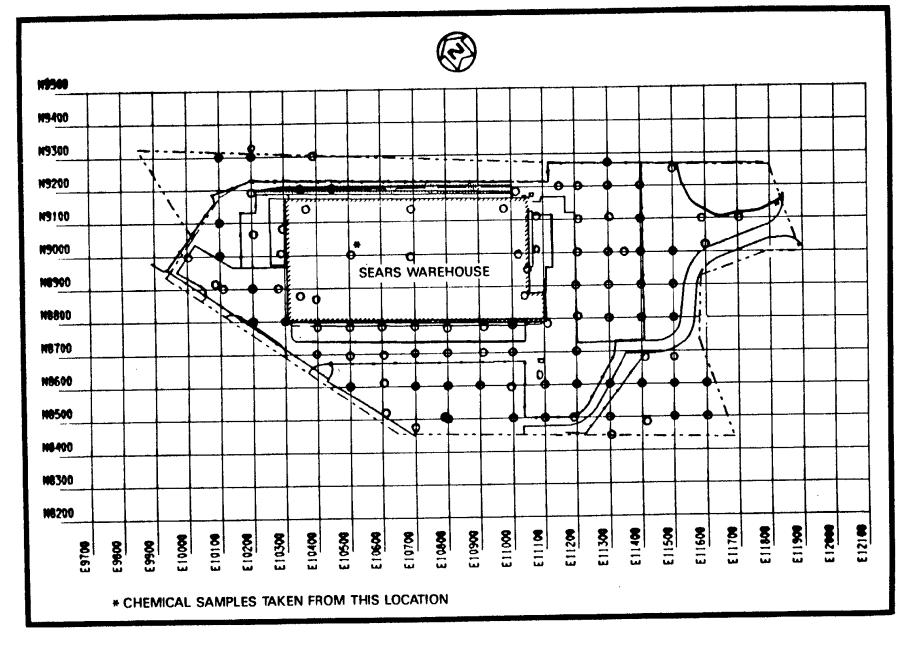


FIGURE 4-1 GRID AND BOREHOLE LOCATIONS AT THE SEARS PROPERTY

The subsurface investigation was conducted using downhole gamma logging. This technique is significantly more cost effective than soil sampling because it can be completed more quickly, and eliminates the need for laboratory analysis. A 2-in. by 2-in. sodium iodide gamma scintillation detector was used to perform the downhole logging. This instrument was also calibrated at TMC where it was determined that a count rate of approximately 40,000 cpm is approximately equal to the 15-pCi/g DOE subsurface guideline for thorium-232. This relationship has also been confirmed in previous characterization work (Ref. 7).

During the course of the subsurface investigation, 100 boreholes were drilled and gamma logged to determine the depth and concentrations of radioactive contamination. The borehole logs were reviewed to identify trends, regardless of whether concentrations exceeded the guidelines. Borehole locations (interior and exterior) are shown in Figure 4-1.

4.1.2 Sample Collection and Analysis

To better define the areas of contamination, locations where surface readings exceeded 11,000 cpm (or 5 pCi/g) were plotted on a drawing. Surface soil samples were collected from areas where gamma readings were at or near 11,000 cpm and required additional analyses, from areas with standing water, and at locations where the EPA had taken split-spoon samples for chemical analysis. Surface soil samples were taken at the 12 on-site locations shown in Figure 4-2 and analyzed for thorium-232, radium-226, and uranium-238. Each sample was dried, pulverized, and counted for 10 min using an intrinsic germanium detector housed in a lead counting cave lined with cadmium and copper. The pulse height distribution was sorted using a computer-based, multichannel analyzer. Radionuclide concentrations were determined by comparing the gamma spectrum of each sample with the spectrum of a certified counting standard for that radionuclide.

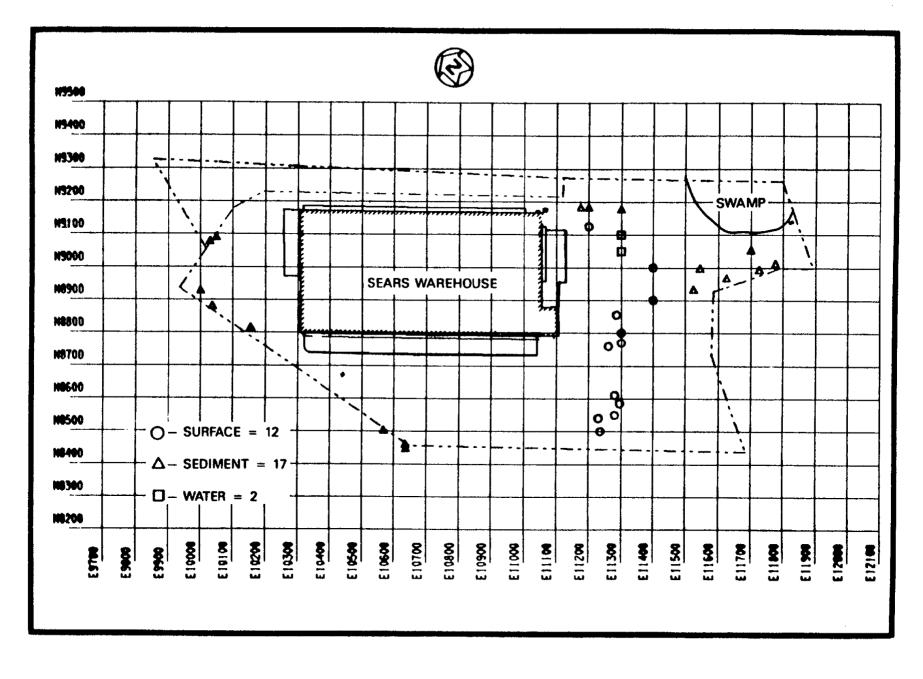


FIGURE 4-2 SURFACE SOIL, SEDIMENT, AND WATER SAMPLING LOCATIONS AT THE SEARS PROPERTY

Because of the overgrown vegetation in the drainage ditches and a large swampy (standing water) area due east of the Sears warehouse, characterization of these areas consisted of sediment sampling and gamma measurements through the water. Sediment samples were taken from 17 locations and water samples were taken from two locations (Figure 4-2). Each sediment sample was placed in a 0.5-liter plastic container, capped, and labeled. The sediment samples were analyzed for uranium-238, radium-226, and thorium-232 using the counting procedure described for surface soil samples.

Gross alpha counting was used to determine the amount of radioactivity in the water samples. Samples used for gross alpha counting typically contain 1 liter of water that has been filtered through a 9-cm filter paper. The sample is then acidified with nitric acid, heated, and weighed to determine the residue load. The gross alpha activity is then counted in an alpha counting instrument for 50 min. If the result exceeds 30 pCi/l, the sample is processed further to determine the uranium, radium, and thorium activity.

Using the split-spoon sampling method, subsurface soil samples were collected at six locations to compare laboratory soil sample results to downhole gamma radiation measurements. Figure 4-3 shows the subsurface sampling locations (one of these sampling locations is inside the warehouse). Because drilling could not be carried out in the swampy area, radiological boreholes were drilled around the perimeter of the standing water to obtain data.

4.2 BUILDING CHARACTERIZATION

4.2.1 Measurements Taken and Methods Used

Interior radon/thoron measurements were taken using two different methods. First, radon/thoron measurements were taken in the building before drilling using the Lucas cell technique. With this method, samples were obtained by pumping air into a Lucas cell at a rate of approximately 2 l/min. The samples were transferred directly into scintillation cells with an interior coating of zinc

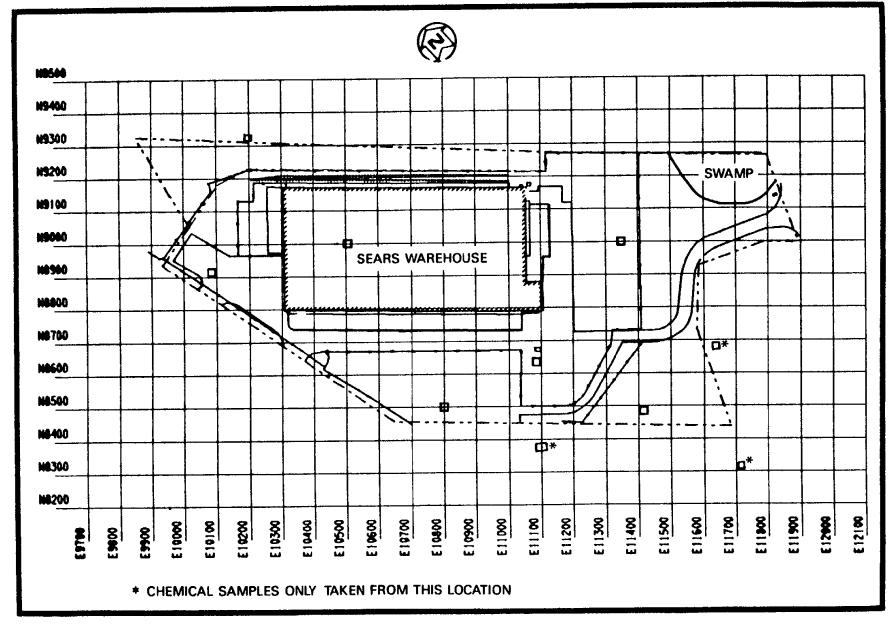


FIGURE 4-3 SUBSURFACE RADIOLOGICAL AND CHEMICAL SAMPLING LOCATIONS AT THE SEARS PROPERTY

sulfide and end windows for detecting the scintillations. Analysis of the sample was simplified by allowing the radon decay products to reach equilibrium with their parent radioisotopes. The end window of the scintillation cell was placed in contact with a photomultiplier tube, and the scintillations were counted using standard nuclear counting instrumentation.

Radon/thoron measurements were also obtained using a continuous monitoring radon (Pylon) detector. With this method, radon measurements are taken before, immediately after, and 72 hours after drilling. The predrilling measurement establishes a base level, the measurement immediately after drilling is used to determine the occupational exposure level, and the post-drilling measurement (or transient equilibrium measurement) indicates the amount of radon/thoron that was released by the drilling. Measurements were taken at the interior locations shown in Figure 4-1.

Sears presently employs approximately 225 office and dock workers who spend the majority of their 40-h work week inside the building. Because it was suspected that contamination exists beneath the building, nine exposure measurements were taken. The measurement were taken with a pressurized ionization chamber (PIC) 1 m above the floor. The measurements were taken at locations determined to be representative of the entire building interior.

4.2.2 Sample Collection and Analysis

Nine boreholes were drilled inside the Sears warehouse and gamma logged; Figure 4-1 shows the locations. Seven subsurface soil samples were taken from one location under the Sears warehouse, and analyzed for the same radionuclides as the surface soil samples. This is the same location from which the interior chemical sample identified in Figures 4-1 and 4-2 was taken.

4.3 CHEMICAL CHARACTERIZATION

Limited chemical characterization of the Sears property was performed to determine whether hazardous waste is commingled with the radioactive waste, and to provide the information needed to design an employee health protection program appropriate to the nature of the materials to be encountered during any future remedial action activities. To identify hazardous chemicals on-site, soil samples were collected from 10 boreholes at the same locations as the subsurface soil samples taken for radiological analyses. Samples were acquired by continuous split-spoon methodology, i.e., driving a split-spoon sampler in advance of the auger. The spoon had a 1.4-in. inside diameter and was 2 ft long. Before each sample was taken, spoons were decontaminated pursuant to EPA methods using methylene chloride, acetone, and steam washing. Because the purpose of this investigation was to perform a limited chemical characterization, samples were composited to a maximum drill hole depth of 16 ft. Volatile organic samples were placed on ice in the field to minimize volatilization of the samples during compositing. Ten samples were taken for chemical analyses and include three samples taken just outside the Sears property to provide a more complete profile of the area. Sampling locations are shown in Figure 4-3.

Samples were analyzed for volatile organics, acid extractables, base/neutral extractables, priority pollutant metals, pesticides, PCBs, mercury, and EPA-specified hazardous waste characteristics [i.e., extraction procedure (EP) toxicity, corrosivity, reactivity, and ignitability). These parameters were selected to meet the requirements in RCRA (40 CFR 261, Appendix VIII). This limited chemical characterization was planned and implemented in accordance with the methods described by the EPA in "Test Methods for Evaluating Solid Waste" (SW-846, 2nd ed., 1982). The sampling plan was coordinated with the EPA Region II.

Quality assurance and quality control procedures were used during soil sampling and analysis to verify the precision and accuracy of the analytical results from the chemical characterization. Method/reagent blank samples were analyzed to identify interferences associated with chemical reagents and analytical methods at the laboratory. Potential sources of laboratory interferences include contaminants in solvents, reagents, glassware, and other sample processing hardware that could lead to discrete artifacts (false positive results) and/or elevated chemical results.

For water samples, a method/reagent blank is a volume of deionized, distilled laboratory water; for soil or sediment samples, it consists of a purified solid matrix (kaolin) that is carried through the entire analytical process. Acceptable limits for common laboratory solvents are established by the laboratory. A method/reagent blank analysis for VOA must not contain more than five times the detection limit for common laboratory solvents (i.e., methylene chloride, acetone, and toluene).

For semi-volatile analysis, the method/reagent blank must not contain more than five times the detection limit for any phthalate.

Duplicate sample analyses are performed to demonstrate the reproducibility of the analytical method and to determine the degree of analytical precision obtained. Spiked sample analyses are performed to verify that acceptable recovery was attained and to identify possible matrix interferences in the sample.

5.0 SURVEY RESULTS

5.1 FIELD RADIOLOGICAL CHARACTERIZATION

Gamma levels measured on the property ranged from background (5,000 cpm) to 244,000 cpm. These levels indicate a 940,000-ft area of surface contamination (Figure 5-1). The near-surface gamma measurements were used to select bias soil sample locations to better define the area of contamination.

The biased surface soil samples were collected from areas where gamma readings were marginal and required additional analyses. Surface soil samples were taken at 12 on-site locations (shown in Figure 4-2) and analyzed for thorium-232, radium-226, and uranium-238. Analytical results are presented in Table 5-1. the "less than" (<) notation indicates that the radionuclide was not present in measurable concentrations. The value following the less than notation is the minimum detectable amount (MDA). is based on various factors including the volume, size, and weight of the sample; the type of detector used; the counting time, and the background count rate. In addition, since radioactive decay is a random process, a correlation between the rate of disintegration and a given radionuclide concentration cannot be precisely established. For this reason, the exact concentration of the radionuclide cannot be determined. As such, each value that is equal to or greater than the MDA has an associated uncertainty term (\pm) , which represents the maximum amount by which the actual value can be expected to differ from the value given in the table. (The discussion of the "less than" and "uncertainty term" also applies to Tables 5-2 and 5-5.)

Analysis of the samples indicated concentrations of thorium-232 and radium-226 in excess of DOE guidelines, with maximum concentrations of 70 and 10 pCi/g, respectively. The maximum uranium-238 concentration was less than 77 pCi/g.

Seventeen sediment samples were taken from areas with standing water (Figure 4-2). The samples were analyzed for the same parameters as



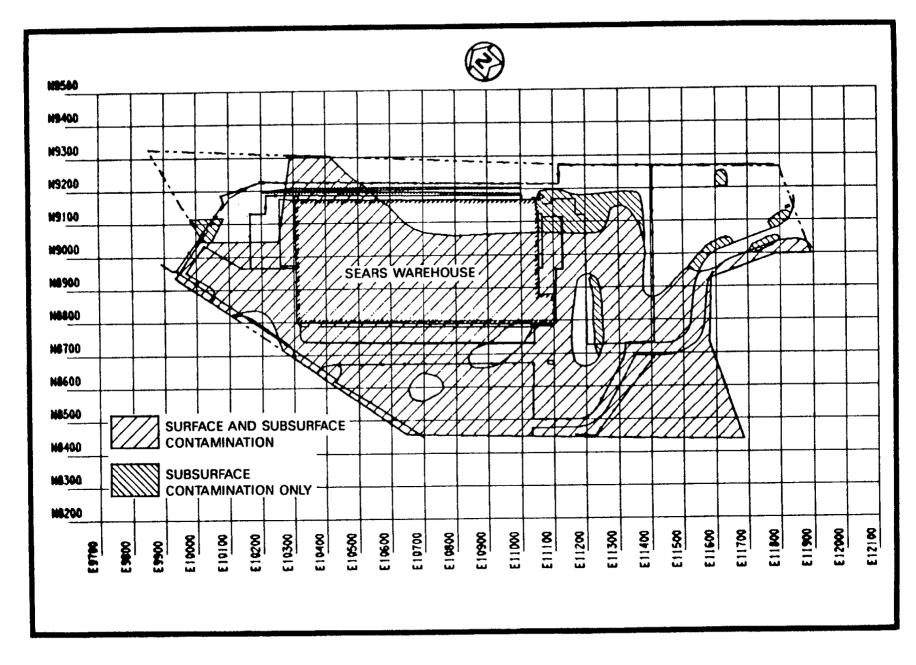


FIGURE 5-1 AREAS OF CONTAMINATION AT THE SEARS PROPERTY

the surface and subsurface samples. The analysis results showed the maximum concentration of thorium-232 to be 93 pCi/g and 9 pCi/g for radium-226. The maximum uranium-238 concentration was less than 57 pCi/g. Results of this analysis are given in Table 5-2. Since there are no DOE guidelines for sediment, the guidelines for soil may be used for comparison.

Gross alpha counting was used to determine the level of radioactivity in the water samples (Figure 4-2). This method measures the amount of radioactivity without identifying specific radionuclides. Table 5-3 gives the results of this analysis. The most restrictive concentration measured in these samples was 18.4 pCi/l. For the radionuclides of concern (thorium-232, radium-226, and uranium-238), the most restrictive DOE guideline is 50 pCi/l for thorium-232.

Using the split-spoon sampling method, subsurface soil samples were collected at six locations (Figure 4-3) to compare laboratory soil sample results to downhole gamma radiation measurements. Gamma logging data are presented in Table 5-4. Table 5-5 presents the results of the laboratory analysis of the subsurface soil samples. The comparison of the data from these tables provided another check on the validity of the correlation between 40,000 cpm and the 15-pCi/q DOE guideline for subsurface soil.

The vertical and horizontal limits of contamination are being evaluated to determine the volume of contaminated material that will require remedial action. To develop this estimate, BNI will consider the location of the contamination, construction techniques, and safety procedures in its evaluation.

The drilling data reflect the site geologic history and subsequent changes made by man. Drill data throughout the site show either a sequence of 2 to 5 ft of fill over indigenous soil and sandstone, or fill over 1 to 3 ft of black silt and sandstone.

The Sears property is underlain by the sandstone of the deltaic Brunswick Formation. Before site development, this bedrock was covered with two types of topsoil. The slightly elevated areas were covered with 3 to 6 ft of brown residual soil, while approximately 60 percent of the site was covered with 1 to 6 ft of black, silty, organic soil characteristic of a wetlands environment. When the area was prepared for construction, most of this organic silt was drained and covered with fill to bring the warehouse and parking lot areas to a flat grade.

Aerial photographs and historical tax maps show that two creeks, which formerly drained the site, converged just south of where Route 17 is now located. The creek on the western portion of the property drained wetlands present in the northwestern area of the site before construction. During construction, these wetlands were covered with fill, and the surface water from the far western area now flows southward in a man-made channel along the site's western border. Surface water from behind the warehouse now flows through the railroad ballast behind the warehouse to join the eastern drainage system. Currently, a buried conduit in the western channel also helps drain surface water from the asphalt parking lot.

The headwaters of the eastern creek are still evident in the surviving wetlands east of the warehouse where the water table meets the land surface. The northern portion of the eastern drainage has been improved with man-made trenches to help control the shallow groundwater level. The main drainage of this swampy area passes under the Sears access road and joins another trench draining the southeastern area before leaving the property along the Federal Express-Sunoco property line. This information will help in evaluating migration pathways and identifying locations on the property where contaminated sediment might accumulate.

Geologic borehole logs show thick accumulations of organic-rich silt and the lower elevation sandstone contacts which coincide with the presumed channel locations. One exception to this is known: tax

maps show the western creek approximately 100 ft farther west than the drilling data indicate. Evidence that the channel was actually located farther east, toward N8500, Ell000, is the linear alignment of suspected and known barrels buried in this area where the channel served as a burial pit.

Two thick layers of industrial white tailings were found. The thickest was 4.5 ft at the Sears-DeSaussure property line (N8800, E11600). Another layer was found at a depth of 2 ft at N8877, E10347 beneath the Sears warehouse. Numerous other holes showed small amounts of the white tailings mixed with fill and indigenous surface materials. Other contaminated holes showed no visual evidence of the tailings, but small quantities may have been masked by the darker sediments.

During drilling operations, barrels were encountered at N8505, El0790 and similar barrels were believed to have been the source of organic vapors from the borehole at N8700, El0700. Drilling was stopped at N8700, El0700 immediately after fumes were detected; consequently, no metal was found in the auger spoils (Refs. 8 and 9).

The location of barrels encountered during drilling and by the metal detector suggests that barrels were dumped in the former creek channels. Data obtained along N8500 show thicker stream sediments and natural material occurring at greater depths, suggesting the location of the former eastern stream channel. Using a metal detector, numerous metallic items buried in the former western creek channel were found (near N8600, El0800); however, no additional drums were encountered while drilling.

The transport of contamination could have occurred when bulldozers graded the site to prepare for development. This would account for the stratification of clean and contaminated fill, and the surface contamination above natural, undisturbed materials.

5.2 BUILDING RADIOLOGICAL CHARACTERIZATION

As mentioned earlier, the Sears warehouse is the dominant feature of the site. To identify the presence of radioactivity under the building, nine radiological boreholes and one chemical borehole were drilled inside the building (Figure 4-1). The data from the downhole gamma measurements are given in Table 5-4 and are consistent with the analysis results from the subsurface soil samples. Table 5-5 gives the results of the subsurface soil sample analysis, and shows the maximum concentrations of thorium-232, radium-226, and uranium-238 to be 180, 37, and less than 232 pCi/g, respectively.

Radon/thoron concentrations obtained using the Lucas cell method were 0.2 and 2.2 pCi/l. Measurements taken with the continuous-monitoring Pylon detector showed concentrations at the interior borehole locations ranging from 0 to 0.9 pCi/l before drilling, 5 to 30 pCi/l immediately after drilling, and 50 to 300 pCi/l 72 h after drilling. These measurements are given in Table 5-6.

The average exposure rate was 13 uR/h (including background). The exposures ranged from 11 to 15 uR/h. These measurements are given in Table 5-7.

5.3 CHEMICAL CHARACTERIZATION

5.3.1 Volatile Organics Analysis

Only a general evaluation of these data can be presented because the holding time protocols for all of the VOA were exceeded by the laboratory. Analyses were performed on 10 soil samples for volatile organics. Two volatile organics, methylene chloride and acetone, were identified at levels above the laboratory's specified detection limit in two samples. Including levels below the laboratory's detection limit, methylene chloride and acetone were detected in half of the samples analyzed for volatile organics.

Because these chemicals were used during field decontamination procedures and are common chemical contaminants in laboratory operations, these results are probably artifacts (i.e., false positive results) inherent in the sampling and analytical procedures.

The mass spectral (MS) data for two soil samples indicated the presence of two other volatile organics, methyl ethyl ketone (MEK) and ethyl/benzene, that met the analytical identification criteria, but the results were below the laboratory's specified detection limit. Analysis indicated that MEK was present in the blank of one of these samples. According to USEPA Contractor Laboratory Program (CLP) Statement of Work for Organic Analyses (May 1984), only analytical results greater than or equal to the laboratory's specified detection limit are required to be reported. Because the allowable holding times were exceeded, the magnitude of these VOA results would probably be greater had the CLP protocols been followed.

On two occasions during drilling operations in the vicinity of boreholes at N8485, Ell415 and N8635, Ell085, subsurface containers were apparently penetrated. Sludge samples from these containers were collected and analyzed at each location. The following volatile organic concentrations were identified in the sludge material taken from the borehole at N8485, Ell415: benzene, 120 ppm; toluene, 240 ppm; and xylene, 1200 ppm. The only volatile organic identified at N8635, Ell085 was xylene at 210 ppb. These chemicals are constituents of petroleum-based products (i.e., gasoline). In addition, benzene and toluene are listed under the New Jersey Administrative Code (NJAC) 7:26 - 8:16 as hazardous constituents (Refs. 8 and 9).

In summary, the VOA results from unbiased characterization sampling activities and the analyses results from the sludge material taken from two boreholes indicate the presence of volatile organic chemical contamination at the Sears property.

5.3.2 Base Neutral/Acid Extractable Organic Analysis

There were 10 soil samples analyzed for BNAE (semi-volatile) organics (Figure 4-3). In four soil samples, semi-volatiles were identified but were below the laboratory's specified detection limit. As mentioned previously, these results are not required to be reported, but they do indicate the presence of semi-volatiles that met MS identification criteria.

The majority of the semi-volatiles were found at borehole N8690, Ell650, which is adjacent to the DeSaussure building. Analyses revealed the following results: phenol, 190 ppb; 2-chlorophenol, 170 ppb; 1,4-dichlorobenzene, 74 ppb; N-nitroso-di-n-propylamine, 92 ppb; 1,2,4-trichlorobenzene, 80 ppb; 4-chloro-3-methylphenol, 210 ppb; acenaphthene, 97 ppb; 4-nitrophenol, 420 ppb; 2,4-dinitrotoluene, 89 ppb; pentachlorophenol, 260 ppb; pyrene, 90 ppb; and bis (2-ethylhexyl) phthalate, 27 ppb. With the exception of acenaphthene and pyrene, all of the semi-volatiles identified in this borehole are listed under the NJAC as hazardous constituents. Most of these semi-volatiles are chlorinated hydrocarbons, specifically chlorinated phenols, benzenes, and toluenes.

At borehole N8303, Ell705, adjacent to the Hunter Douglas building, the following semi-volatiles were identified: naphthalene, 80 ppb; 2-methylnaphthalene, 88 ppb; and bis (2-ethylhexyl) phthalate.

Naphthalene and bis (2-ethylhexyl) phthalate are listed as hazardous constituents under the NJAC.

These two boreholes are near each other as well as being in the vicinity of the first borehole (N8485, Ell415) in which a subsurface container filled with sludge material and containing volatile organic constituents was apparently penetrated. As a result, the presence of semi-volatiles at these locations appear to confirm the presence of chemical contamination in this area.

Benzoic acid was identified at borehole N9305, El0200 north of the Sears warehouse at a concentration of 8 ppm. This is the highest semi-volatile concentration identified during this chemical survey.

Bis (2-ethylhexyl) phthalate, a component of most plastic materials used in laboratory operations and a common laboratory contaminant, was identified in three soil samples.

5.3.3 Pesticides and PCBs

There were 10 soil samples analyzed for priority pollutant pesticides and PCBs (Figure 4-3). One soil sample, at borehole N8915, E10085 west of the Sears building, contained the pesticides D-BHC (hexachlorocyclohexane) and 4,4-DDD (dichlorodiphenyldichloroethane) at 47 ppb and 45 ppb, respectively. They are both chlorinated pesticides and are present at concentrations commonly found in soil in agricultural areas.

There were no PCBs detected in any of the soil samples analyzed.

5.3.4 Priority Pollutant Metals Analysis

There were 10 soil samples analyzed for priority pollutant metals (Figure 4-3). Table 5-8 summarizes these results, and compares the range of concentrations (ppm) found in soil samples to published background soil concentration ranges for each priority pollutant metal. The number of soil sample results that exceeded the published background range is also noted. The maximum priority pollutant metal concentration observed was compared with the EP toxicity result for that metal.

The following priority pollutant metals exceeded the range for published background soil concentrations and are also listed by the NJDEP as hazardous constituents under the NJAC: cadmium, copper, lead, thallium, zinc, and antimony. Cadmium results exceeded the range for background soils in four samples. Although the antimony

results exceeded the range for background soils in only one sample, five other sample results were in the upper portion of the background range. Almost half of the results exceeding the background range for specific metals were found in borehole N9305, E10200, which is north of the Sears building and closest to the Stepan Company. Soil sample results from borehole N8690, E11650, adjacent to the DeSaussure building, exceeded the background range for a specific metal on two occasions. The priority pollutant metal results at borehole N8690, E11650 (adjacent to the DeSaussure building) are consistent with the BNAE results for that location, which indicated the presence of semi-volatile chemical contamination in the area.

A comparison of the maximum priority pollutant metal results with their respective EP toxicity results shows all such results to be well below the criteria level (40 CFR 261.24) that would classify the material as a hazardous waste. This may be an indication that these metals are not readily leachable from the soil or are not present in concentrations high enough to produce leachate that exceeds the EPA criteria.

The maximum metal concentration (lead at 4200 ppm) occurred at borehole location N9305, El0200. This result is approximately 22 times the background range for lead; however, the EP toxicity result was 0.2 ppm, well below the criteria level of 5.0 ppm.

5.3.5 Hazardous Waste Characteristic Analysis

There were 10 soil samples analyzed for EP toxic pesticides and metals (Figure 4-3). In addition, these samples were analyzed for the hazardous waste characteristics of corrosivity, reactivity, and ignitability.

There were no detectable quantities of pesticides identified in the EP toxicity analyses. There were trace levels of metals, namely

arsenic, barium, and lead that were well below the maximum concentration specified under 40 CFR 261.24. In addition, no samples exhibited the hazardous waste characteristics of corrosivity, reactivity, or ignitability.

Complete results of the chemical characterization are on file with DOE (Ref. 10).

TABLE 5-1
SURFACE SOIL SAMPLING RESULTS
AT SEARS

Grid Coordinates Concentrations (pCi/g +/				- 2 sigma) ^a
B,W	N,S	Uranium-238	Radium-226	Thorium-232
R11200	N09125	<46.0	3.0 ± 1.0	32.0 <u>+</u> 6.0
R11237	N08500	<23.0	6.0 ± 1.0	54.0 ± 10.0
R11237	N08525	<33.0	9.0 ± 1.0	63.0 ± 6.0
E11275	N08562	<28.0	7.0 ± 1.0	45.0 ± 6.0
E11275	N08575	<33.0	6.0 ± 1.0	60.0 ± 7.0
E11280	N08765	<62.0	8.0 ± 1.0	57.0 ± 4.0
R11287	N08600	<33.0	6.0 ± 1.0	50.0 <u>+</u> 8.0
R11287	N08862	<9.0	<3.0	25.0 ± 3.0
R11295	N08762	<77.0	10.0 ± 1.0	49.0 ± 14.0
E11300	N08800	<48.0	10.0 ± 1.0	70.0 ± 8.0
E11400	N08900	<24.0	1.0 ± 1.0	2.0 ± 1.0
E11400	N09000	<26.0	1.0 ± 1.0	5.0 ± 1.0

^aThe low level of detectability was proportional to the quantity of the sample, the heterogeneity of the sample, moisture content, and counting geometry.

TABLE 5-2
SEDIMENT SAMPLING RESULTS
AT SEARS

Grid Coo	rdinates	Concentrat	ions (pCi/g +/-	- 2 sigma) ^a
E,W	N,S	Uranium-238	Radium-226	Thorium-232
E10000	N08925	<21.0	2.0 <u>+</u> 1.0	42.0 <u>+</u> 3.0
E10030	N09075	<46.0	1.0 + 1.0	10.0 ± 1.0
E10037	N08878	<57.0	4.0 ± 1.0	31.0 ± 3.0
E10050	N09087	<13.0	1.0 ± 1.0	6.0 ± 1.0
E10155	N08812	<38.0	9.0 ± 2.0	93.0 ± 2.0
E10568	N08500	16.9 ± 6.8	1.1 ± 0.1	7.9 ± 2.0
E10635	N08458	<9.78	0.5 ± 0.6	1.1 ± 1.5
E10637	N08445	17.8 ± 2.3	0.9 ± 0.7	9.1 ± 2.7
E11175	N09180	<33.0	2.0 ± 1.0	7.0 ± 2.0
E11200	N09180	<26.0	2.0 ± 1.0	18.0 ± 2.0
E11300	N09175	<27.0	1.0 ± 1.0	7.0 ± 1.0
E11525	N08930	<31.0	1.0 ± 1.0	5.0 ± 1.0
E11545	N08995	<15.0	1.0 ± 1.0	1.0 ± 1.0
B11625	N08965	<22.0	3.0 ± 1.0	26.0 ± 2.0
B11700	N09050	<42.0	2.0 ± 1.0	14.0 ± 2.0
E11725	N08990	<31.0	3.0 ± 1.0	23.0 ± 2.0
E11775	N09010	<29.0	3.0 ± 1.0	17.0 ± 3.0

^a The low level of detectability was proportional to the quantity of the sample, the heterogeneity of the sample, moisture content, and counting geometry.

TABLE 5-3
SURFACE WATER SAMPLING RESULTS

(pCi/1)	
15.8	
18.4	

TABLE 5-4

DOWNHOLE GAMMA LOGGING RESULTS a

AT SEARS

P	8	ξe	1	οf	37

Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E10003	N08997	0.5	20,000
B10003	N08997	1.0	90,000
B10003	N08997	1.5	77,000
E10003	N08997	2.0	29,000
E10003	N08997	2.5	14,000
B10003	N08997	3.0	11,000
B10003	N08997	3.5	11,000
E10003	N08997	4.0	11,000
B10003	N08997	4.5	12,000
B10003	N08997	5.0	13,000
B10003	N08997	5. 5	13,000
E10003	N08997	6.0	14,000
E10003	N08997	6.5	13,000
E10003	N08997	7.0	13,000
E10003	N08997	7.5	13,000
R10003	N08997	8.0	12,000
E10085	N08915	0.5	25,000
E10 085	N08915	1.0	59,000
E10085	N08915	1.5	102,000
E10085	N08915	2.0	41,000
E10085	N08915	2.5	35,000
E10085	N08915	3.0	37,000
E10100	N09000	0.5	96,000
E10100	N09000	1.0	126,000
E10100	N09000	1.5	88,000
B10100	N09000	2.0	28,000
B10100	N09000	2.5	16,000
E10100	N09000	3.0	15,000
B10100	N09000	3.5	13,000
E10100	N09000	4.0	12,000
B10100	N09000	4.5	12,000
E10100	N09000	5.0	13,000
B10100	N09000	5.5	14,000
E10100	N09000	6.0	13,000
E10100	N09100	0.5	13,000
B10100	N09100	1.0	15,000
E10100	N09100	1.5	19,000
B10100	N09100	2.0	27,000
E10100	N09100	2.5	15,000
E10100	N09100	3.0	10,000

TABLE 5-4 (continued)

Page 2 of 37

Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E10100	N09100	3.5	9,000
B10100	N09100	4.0	7,000
E10100	N09100	4.5	5,000
E10100	N09100	5.0	7,000
E10100	N09300	0.5	23,000
B10100	N09300	1.0	22,000
E10100	N09300	1.5	18,000
B10100	N09300	2.0	14,000
E10100	N09300	2.5	14,000
B10100	N09300	3.0	13,000
E10100	N09300	3.5	13,000
B10100	N09300	4.0	13,000
E10100	N09300	4.5	13,000
E10100	N09300	5.0 5.5	14,000 15,000
E10100	N09300	6.0	14,000
B10100	N09300	6.5	14,000
E10100	N09300	7.0	13,000
E10100	N09300	7.5	11,000
E10100	N09300 N09300	8.0	12,000
E10100 E10100	N09300	8.5	13,000
E10100	N09300	9.0	14,000
E10100	N09300	9.5	14,000
E10110	N08900	0.5	16,000
E10110	N08900	1.0	51,000
E10110	N08900	1.5	118,000
E10110	N08900	2.0	105,000
E10110	N08900	2.5	39,000
E10110	N08900	3.0	16,000
B10110	N08900	3.5	12,000
E10110	N08900	4.0	13,000
E10110	N08900	4.5	15,000
E10200	N08800	0.5	10,000
E10200	N08800	1.0	20,000
E10200	N08800	1.5	25,000
E10200	N08800	2.0	14,000
E10200	N08800	2.5	10,000
B10200	N08800	3.0	11,000
E10200	N08800	3.5	11,000
E10200	N08800	4.0	9,000

TABLE 5-4 (continued)

Page 3 of 3	P	ag	е	3	of	31
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Grid Co	ordinates	Depth	Counts
E, W	N,S	(ft)	per Minute
E10200	N08800	4.5	9,000
E10200	N08800	5.0	8,000
B10200	N08800	5.5	9,000
E10200	N08800	6.0	9,000
B10200	N08800	6.5	9,000
E10200	N08900	0.5	8,000
E10200	N08900	1.0	18,000
E10200	N08900	1.5	41,000
B10200	N08900	2.0	34,000
B10200	N08900	2.5	28,000
B10200	N08900	3.0	23,000
E10200	N08900	3.5	19,000
E10200	N08900	4.0	16,000
E10200	N08900	4.5	14,000
B10200	N08900	5.0	15,000
B10200	N09190	0.5	11,000
E10200	N09190	1.0	11,000
E10200	N09190	1.5	14,000
E10200	N09190	2.0	16,000
E10200	N09190	2.5	15,000
B10200	N09190	3.0	15,000
B 10200	N09190	3.5	16,000
E10200	N09190	4.0	15,000
E10200	N09190	4.5	15,000
B10200	N09300	0.5	20,000
E10200	N09300	1.0	21,000
E10200	N09300	1.5	18,000
E10200	N09300	2.0	13,000
E10200	N09300	2.5	12,000
E10200	N09300	3.0	11,000
E10200	N09300	3.5	14,000
E10200	N09300	4.0	13,000
E10200	N09300	4.5	13,000
B10200	N09300	5.0	14,000
E10200	N09300	5.5	14,000
B10200	N09300	6.0	14,000
E10200	N09300	6.5	14,000
E10200	N09300	7.0	13,000
E10200	N09305	0.5	18,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E10200	N09305	1.0	21,000
E10200	N09305	1.5	17,000
E10200	N09305	2.0	15,000
B10200	N09305	2.5	14,000
E10200	N09305	3.0	15,000
E10200	N09305	3.5	18,000
E10200	N09305	4.0	17,000
E10200	N09305	4.5	15,000
B10200	N09305	5.0	15,000
E10200	N09305	5.5	15,000
E10200	N09305	6.0	15,000
E10200	N09305	6.5	16,000
E10200	N09305	7.0	16,000
E10200	N09305	7.5	16,000
E10200	N09305	8.0	14,000
E10205	N09065	0.5	9,000
B10205	N09065	1.0	18,000
E10205	N09065	1.5	20,000
E10205	N09065	2.0	14,000
B10205	N09065	2.5	12,000
E10205	N09065	3.0	12,000
E10205	N09065	3.5	13,000
E10205	N09065	4.0	13,000
B10205	N09065	4.5	14,000
E10205	N09065	5.0	13,000
E10205	N09065	5.5	14,000
B10205	N09065	6.0	15,000
E10205	N09065	6.5	13,000
E10280	N08900	0.5	70,000
E10280	N08900	1.0	273,000
E10280	N08900	1.5	380,000
E10280	N08900	2.0	284,000
E10280	N08900	2.5	147,000
E10280	N08900	3.0	41,000
E10280	N08900	3.5	21,000
E10280	N08900	4.0	15,000
E10280	N08900	4.5	14,000
E10280	N08900	5.0	15,000
E10280	N08900	5.5	18,000
E10290	N09005	0.5	112,000

TABLE 5-4 (continued)

Page	5	of.	37

Grid Coc	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
B10290	N09005	1.0	183,000
E10290	N09005	1.5	82,000
E10290	N09005	2.0	26,000
B10290	N09005	2.5	19,000
B10290	N09005	3.0	13,000
B10290	N09005	3.5	10,000
B10290	N09005	4.0	9,000
B10290	N09005	4.5	8,000
B10290	N09005	5.0	8,000
E10290	N09005	5.5	10,000
E10290	N09005	6.0	11,000
E10290	N09005	6.5	10,000
E10290	N09005	7.0	11,000
E10296	N09080	0.5	69,000
E10296	N09080	1.0	160,000
E10296	N09080	1.5	88,000
E10296	N09080	2.0	26,000
E10296	N09080	2.5	13,000
E10296	N09080	3.0	10,000
E10296	N09080	3.5	8,000
E10296	N09080	4.0	9,000
E10296	N09080	4.5	12,000
E10296	N09080	5.0	14,000
E10296	N09080	5.5	14,000
E10300	N08805	0.5	22,000
E10300	N08805	1.0	62,000
E10300	N08805	1.5	130,000
E10300	N08805	2.0	174,000
E10300	N08805	2.5	68,000
E10300	N08805	3.0	34,000
B10300	N08805	3.5	20,000
B10300	N08805	4.0	16,000
B10300	N08805	4.5	14,000
E10347	N08877 b	0.5	11,000
E10347	N08877	1.0	13,000
E10347	N08877	1.5	14,000
B10347	N08877	2.0	27,000
E10347	N08877	2.5	228,000
B10347	N08877	3.0	359,000
E10347	N08877	3.5	387,000

TABLE 5-4 (continued)

P	BØ	е	6	οf	37

Grid Coo	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
B10347	N08877	4.0	377,000
B10347	N08877	4.5	349,000
E10347	N08877	5.0	219,000
B10347	N08877	5.5	80,000
E10347	N08877	6.0	76,000
E10347	N08877	6.5	58,000
E10347	N08877	7.0	56,000
E10350	N09200	0.5	19,000
E10350	N09200	1.0	29,000
E10350	N09200	1.5	36,000
B10350	N09200	2.0 2.5	21,000 12,000
B10350	N09200	3.0	11,000
E10350	N09200 N09200	3.5	12,000
E10350 E10350	N09200	4.0	12,000
E10350	N09200	4.5	13,000
E10350	N09200	5.0	13,000
E10350	N09200	5.5	13,000
E10350	N09200	6.0	13,000
E10368	N09140	0.5	17,000
E10368	N09140	1.0	21,000
E10368	N09140	1.5	36,000
E10368	N09140	2.0	49,000
E10368	N09140	2.5	47,000
E10368	N09140	3.0	34,000
B10368	N09140	3.5	40,000
E10368	N09140	4.0	91,000 84,000
E10368	N09140	4.5 5.0	24,000
E10368	NO9140 NO9140	5.5	14,000
E10368	N09140	6.0	12,000
E10368	N09140	6.5	13,000
E10368	N09140	7.0	13,000
E10368	N09140	7.5	13,000
B10368	N09140	8.0	14,000
E10368	N09140	8.5	16,000
E10368	N09140	9.0	15,000
E10368	N09140	9.5	15,000
E10390	N09300	0.5	17,000
E10390	N09300	1.0	17,000

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E10390	N09300	1.5	17,000
B10390	N09300	2.0	17,000
E10390	N09300	2.5	18,000
E10390	N09300	3.0	20,000
B10390	N09300	3.5	27,000
E10390	N09300	4.0	32,000
E10390	N09300	4.5	39,000
E10390	N09300	5.0	57,000
B10390	N09300	5.5	66,000
E10390	N09300	6.0	45,000
E10390	N09300	6.5	40,000
E10390	N09300	7.0	42,000
E10390	N09300	7.5	41,000
E10390	N09300	8.0	38,000
E10390	N09300	8.5 9.0	34,000 24,000
E10390	N09300	9.0 9.5	17,000
E10390 E10390	N09300 N09300	10.0	17,000
E10390	N09300	10.5	19,000
E10390	N09300	11.0	18,000
E10390	N09300	11.5	18,000
E10390	N09300	12.0	18,000
B10390	N09300	12.5	18,000
E10397	N08700	0.5	18,000
E10397	N08700	1.0	68,000
E10397	N08700	1.5	110,000
E10397	N08700	2.0	94,000
E10397	N08700	2.5	69,000
B10397	N08700	3.0	34,000
E10397	N08700	3.5	28,000 13,000
E10397	N08700	4.0 4.5	12,000
E10397	N08700	5.0	11,000
E10397	N08700	5.5	11,000
E10397	N08700		·
E10397	N08866	0.5	11,000
E10397	N08866	1.0	10,000
E10397	N08866	1.5	13,000
B10397	N08866	2.0	27,000
E10397	N08866	2.5	163,000
B10397	N08866	3.0	206,000
B10397	N08866	3.5	230,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
B, W	N,S	(ft)	per Minute
E10397	N08866	4.0	266,000
E10397	N08866	4.5	299,000
E10397	N08866	5.0	214,000
E10397	N08866	5.5	217,000
B10397	N08866	6.0	56,000
E10397	N08866	6.5	38,000
E10397	N08866	7.0	24,000
E10397	N08866	7.5	19,000
E10397	N08866	8.0	19,000
E10400	N08800	0.5	14,000
E10400	N08800	1.0	24,000
B10400	N08800	1.5	42,000
B10400	N08800	2.0	52,000
E10400	N08800	2.5	86,000
E10400	N08800	3.0	145,000
E10400	N08800 N08800	3.5	90,000
E10400 E10400	N08800	4.0 4.5	28,000 14,000
E10400	N08800	5.0	12,000
E10400	N08800	5.5	11,000
E10400	N08800	6.0	10,000
E10400	N08800	6.5	8,000
B10400	N08800	7.0	10,000
E10400	N08800	7.5	10,000
E10400	N08800	8.0	12,000
E10400	N08800	8.5	12,000
E10400	N08800	9.0	11,000
E10400	N08800	9.5	12,000
B10450	N09200	0.5	19,000
E10450	N09200	1.0	26,000
E10450	N09200	1.5	50,000
E10450	N09200	2.0	50,000
B10450	N09200	2.5	43,000
E10450	N09200	3.0	26,000
B10450	N09200	3.5	17,000
B10450	N09200	4.0	11,000
B10450	N09200	4.5	10,000
B10450	N09200	5.0	9,000
B10450	N09200	5.5	8,000
E10450	N09200	6.0	7,000
E10450	N09200	6.5	7,000

TABLE 5-4 (continued)

P	a	g	e	9	οf	37

Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
	<u> </u>		
B10450	N09200	7.0	7,000
E10450	N09200	7.5	7,000
E10450	N09200	8.0	7,000
B10450	N09200	8.5	7,000
E10500	N08600	0.5	21,000
E10500	N08600	1.0	55,000
E10500	N08600	1.5	72,000
B 10500	N08600	2.0	52,000
B10500	N08600	2.5	38,000
E10500	N08600	3.0	50,000
E10500	N08600	3.5	51,000
E10500	N08600	4.0	20,000
B10500	N08600	4.5	11,000
E10500	N08600	5.0	11,000
B10500	N08600	5.5	10,000
E10500	N08600	6.0	9,000
B10500	N08600	6.5	8,000
E10500	N08694	0.5	79,000
E10500	N08694	1.0	179,000
E10500	N08694	1.5	368,000
B10500	N08694	2.0	536,000
B10500	N08694	2.5	441,000
E10500	N08694	3.0	286,000
E10500	N08694	3.5	132,000
B10500	N08694	4.0	53,000
E10500	N08694	4.5	29,000
B10500	N08694	5.0	17,000
E10500	N08694	5.5	10,000
E10500	N08694	6.0	9,000
E10500	N08694	6.5	7,000
E10500	N08694	7.0	6,000
E10500	N08694	7.5	6,000
B10500	N08694	8.0	7,000
E10500	N08694	8.5	7,000
E10500	N08694	9.0	8,000
E10500	N08780	0.5	92,000
E10500	N08780	1.0	241,000
B10500	N08780	1.5	321,000
E10500	N08780	2.0	327,000
E10500	N08780	2.5	250,000

TABLE 5-4 (continued)

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	<u>ordinates</u>	Depth	Counts
E,W	N,S	(ft)	per Minute
E10500	N08780	3.0	247,000
B10500	N08780	3.5	234,000
E10500	N08780	4.0	90,000
E10500	N08780	4.5	31,000
E10500	N08780	5.0	16,000
E10500	N08780	5.5	11,000
E10500	N08780	6.0	1 0,0 00
E10500	N08780	6.5	11,000
B10500	N08780	7.0	13,000
E10500	N08780	7.5	12,000
E10500	N08780	8.0	12,000
B 10500	N08780	8.5	13,000
E10500	N08780	9.0	12,000
E10506	N09000	0.5	19,000
E10506	N09000	1.0	18,000
E10506	N09000	1.5	41,000
E10506	N09000	2.0	82,000
B10506	N09000	2.5	160,000
E10506	N09000	3.0	421,000
E10506	N09000	3.5	435,000
E10506	N09000	4.0	526,000
E10506	N09000	4.5	458,000
B10506	N09000	5.0	449,000
E10506	N09000	5.5 6.0	292,000 185,000
B10506	N09000	6.5	84,000
E10506 E10506	N09000 N09000	7.0	93,000
E10506	N09000	7.5	96,000
E10506	N09000	8.0	36,000
E10506	N09000	8.5	19,000
E10506	N09000	9.0	14,000
E10600	N08780	0.5	28,000
E10600	N08780	1.0	62,000
E10600	N08780	1.5	62,000
E10600	N08780	2.0	34,000
E10600	N08780	2.5	18,000
E10600	N08780	3.0	18,000
E10600	N08780	3.5	18,000
E10600	N08780	4.0	13,000
E10600	N08780	4.5	10,000
E10600	N08780	5.0	9,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
B, W	N,S	(ft)	per Minute
E10600	N08780	5.5	8,000
E10600	N08780	6.0	7,000
E10605	N08610	0.5	15,000
B10605	N08610	1.0	30,000
B10605	N08610	1.5 2.0	52,000 132,000
E10605	N08610 N08610	2.5	256,000
E10605 E10605	N08610	3.0	368,000
E10605	N08610	3.5	193,000
B10605	N08610	4.0	79,000
B10605	N08610	4.5	22,000
E10605	N08610	5.0	11,000
B10605	N08610	5.5	9,000
E10605	N08610	6.0	9,000
E10605	N08610	6.5	9,000
E10605	N08610	7.0	7,000
E10605	N08610	7.5	6,000
E10605	N08610	8.0	7,000
E10605	N08610	8.5	7,000
E10605	N08695	0.5	14,000
E10605	N08695	1.0	30,000
E10605	N08695	1.5	65,000
B10605	N08695	2.0	40,000
E10605	N08695	2.5	28,000
E10605	N08695	3.0	16,000 12,000
E10605	N08695 N08695	3.5 4.0	10,000
E10605 E10605	N08695	4.5	8,000
E10605	N08695	5.0	8,000
E10605	N08695	5.5	8,000
E10605	N08695	6.0	7,000
E10605	N08695	6.5	7,000
E10605	N08695	7.0	7,000
E10610	N08520	0.5	24,000
E10610	N08520	1.0	71,000
E10610	N08520	1.5	124,000
B10610	N08520	2.0	148,000
E10610	N08520	2.5	165,000
B10610	N08520	3.0	171,000
E10610	N08520	3.5	112,000

TABLE 5-4 (continued)

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	<u>ordinates</u>	Depth	Counts
E,W	N,S	(ft)	per Minute
E10610	N08520	4.0	50,000
E10610	N08520	4.5	25,000
E10610	N08520	5.0	16,000
E10610	N08520	5.5	14,000
B10610	N08520	6.0	13,000
E10610	N08520	6.5	14,000
E10610	N08520	7.0	14,000
510000	N00000	0 5	7 000
E10690	N08992	0.5 1.0	7,000 9,000
E10690	N08992	1.5	18,000
E10690	N08992	2.0	43,000
E10690	N08992	2.5	150,000
E10690	N08992	3.0	275,000
E10690	N08992	3.5	89,000
E10690	N08992	4.0	44,000
E10690	N08992 N08992	4.5	13,000
E10690			13,000
E10690	N08992	5.0	13,000
E10692	N09136	0.5	11,000
E10692	N09136	1.0	12,000
E10692	N09136	1.5	12,000
E10692	N09136	2.0	12,000
E10692	N09136	2.5	12,000
E10692	N09136	3.0	12,000
E10692	N09136	3.5	12,000
E10692	N09136	4.0	14,000
E10692	N09136	4.5	14,000
E10692	N09136	5.0	13,000
E10692	N09136	5.5	14,000
E10692	N09136	6.0	15,000
E10692	N09136	6.5	15,000
E10692	N09136	7.0	14,000
E10692	N09136	7.5	13,000
E10692	N09136	8.0	12,000
E10692	N09136	8.5	16,000
E10692	N09136	9.0	27,000
E10692	N09136	9.5	27,000
E10700	N08475	0.5	100,000
E10700	N08475	1.0	221,000
E10700	N08475	1.5	366,000
E10700	N08475	2.0	492,000
PIOLOG	MOOTIO	2.0	,

TABLE 5-4 (continued)

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nates N,S 8475 8475 8475 8475 8475 8475 8475 8475	Depth (ft) 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	556,000 558,000 236,000 45,000 21,000 13,000 11,000
8475 8475 8475 8475 8475 8475 8475 8475	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	558,000 236,000 45,000 21,000 13,000 11,000
8475 8475 8475 8475 8475 8475 8475 8475	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	558,000 236,000 45,000 21,000 13,000 11,000
8475 8475 8475 8475 8475 8475 8475 8475	3.5 4.0 4.5 5.0 5.5 6.0 6.5	236,000 45,000 21,000 13,000 11,000 10,000
8475 8475 8475 8475 8475 8475 8475	4.0 4.5 5.0 5.5 6.0 6.5	45,000 21,000 13,000 11,000 10,000
8475 8475 8475 8475 8475 8475	4.5 5.0 5.5 6.0 6.5	21,000 13,000 11,000 10,000
8475 8475 8475 8475 8475	5.0 5.5 6.0 6.5	13,000 11,000 10,000
8475 8475 8475 8475	5.5 6.0 6.5	11,000 10,000
8475 8475 8475	6.0 6.5	10,000
8475 8475	6.5	
8475		
		11,000
		11,000
		10,000
		11,000
8475	8.5	10,000
8600	0.5	7,000
8600	1.0	19,000
8600	1.5	17,000
8600	2.0	11,000
8600	2.5	9,000
8600		6,000
8600		7,000
8600		7,000
		9,000
		8,000
		8,000
		10,000
		10,000
8600	7.0	10,000
8700	0.5	11,000
8700	1.0	23,000
8700	1.5	56,000
8700	2.0	122,000
8700	2.5	146,000
8700	3.0	116,000
8700	3.5	60,000
8700	4.0	21,000
8780	0.5	29,000
		59,000
		64,000
	2.0	52,000
	2.5	55,000
	8475 8475 8475 8600 8600 8600 8600 8600 8600 8600 860	8475 7.0 8475 7.5 8475 8.0 8475 8.5 8600 0.5 8600 1.0 8600 2.0 8600 2.5 8600 3.5 8600 4.0 8600 4.5 8600 5.0 8600 5.5 8600 6.0 8600 6.5 8600 6.5 8600 6.5 8700 1.5 8700 2.5 8700 2.5 8700 3.5 8700 3.5 8700 3.5 8700 3.5 8780 1.0 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5 8780 1.5

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute

E10700	N08780	3.0	65,000
B10700	N08780	3.5	35,000
E10700	N08780	4.0	15,000
E10700	N08780	4.5	12,000
E10700	N08780	5.0	12,000
E10700	N08780	5.5	11,000
E10700	N08780	6.0	11,000
B10700	N08780	6.5	12,000
B10700	N08780	7.0	8,000
E10790	N08505	0.5	50,000
E10790	N08505	1.0	183,000
E10790	N08505	1.5	269,000
E10790	N08505	2.0	272,000
E10790	N08505	2.5	279,000
E10790	N08505	3.0	319,000
E10790	N08505	3.5	330,000
E10790	N08505	4.0	265,000
E10790	N08505	4.5	170,000
E10790	N08505	5.0	57,000
E10790	N08505	5.5	28,000
E10790	N08505	6.0	15,000
E10790	N08505	6.5	10,000
E10790	N08505	7.0	9,000
E10790	N08505	7.5	10,000
E10790	N08505	8.0	12,000
E10800	N08500	0.5	29,000
E10800	N08500	1.0	68,000
E10800	N08500	1.5	89,000
E10800	N08500	2.0	77,000
E10800	N08500	2.5	44,000
R10800	N08500	3.0	21,000
E10800	N08500	3.5	16,000
E10800	N08500	4.0	16,000
E10800	N08600	0.5	54,000
E10800	N08600	1.0	151,000
E10800	N08600	1.5	178,000
E10800	N08600	2.0	190,000
E10800	N08600	2.5	72,000
B10800	N08600	3.0	37,000
E10800	N08600	3.5	12,000
210000	1100000	J.0	, ~~

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
*****	······································		
B10800	N08600	4.0	10,000
E10800	N08600	4.5	11,000
E10800	N08600	5.0	11,000
E10800	N08600	5.5	12,000
E10 800	N08600	6.0	13,000
E10800	N08600	6.5	12,000
E10 800	N08600	7.0	12,000
E10800	N08600	7.5	14,000
E10800	N08700	0.5	9,000
E10800	N08700	1.0	19,000
E10800	N08700	1.5	23,000
E10800	N08700	2.0	41,000
E10800	N08700	2.5	36,000
E10800	N08700	3.0	24,000
E10800	N08700	3.5	13,000
E10800	N08700	4.0	12,000
E10800	N08700	4.5	12,000
E10800	N08700	5.0	12,000
E10800	N08700	5.5	13,000
E10800	N08700	6.0	12,000
E10800	N08700	6.5	14,000
E10800	N08700	7.0	13,000
E10800	N08775	0.5	20,000
E10800	N08775	1.0	43,000
E10800	N08775	1.5	36,000
E10800	N08775	2.0	21,000
E10800	N08775	2.5	15,000
E10800	N08775	3.0	13,000
E10800	N08775	3.5	11,000
E10800	N08775	4.0	11,000
B10800	N08775	4.5	11,000
E10800	N08775	5.0	10,000
B10800	N08775	5.5	8,000
E10800	N08775	6.0	6,000
E10800	N08775	6.5	6,000
E10900	N08600	0.5	51,000
E10900	N08600	1.0	140,000
E10900	N08600	1.5	150,000
E10900	N08600	2.0	72,000
B10900	N08600	2.5	22,000

TABLE 5-4 (continued)

Page 16 of 3	P	ag	e	1	6	of	37
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	ordinates	Depth	Counts
E, W	N,S	(ft)	per Minute
E10900	N08600	3.0	14,000
E 10900	N08600	3.5	14,000
E10900	N08600	4.0	12,000
E10900	N08600	4.5	12,000
E10900	N08600	5.0	13,000
E10900	N08600	5.5	13,000
B10910	N08700	0.5	11,000
E10910	N08700	1.0	18,000
E10910	N08700	1.5	16,000
E10910	N08700	2.0	13,000
E10910	N08700	2.5	14,000
E10910	N08700	3.0	13,000
B10910	N08700	3.5	12,000
B10910	N08700	4.0	11,000
E10910	N08700	4.5	11,000
E10910	N08700	5.0	11,000
E10910	N08700	5.5	12,000
B10910	N08700	6.0	11,000
E10910 E10910	N08700 N08700	6.5 7.0	12,000 12,000
E10913	N08777	0.5	15,000
E10913	N08777	1.0	30,000
E10913	N08777	1.5	42,000
E10913	N08777	2.0	45,000
E10978	N09134	0.5	14,000
E10978	N09134	1.0	13,000
E10978	N09134	1.5	12,000
E10978	N09134	2.0	12,000
E10978	N09134	2.5	11,000
E10978	N09134	3.0	12,000
E10978	N09134	3.5	10,000
B10978	N09134	4.0	10,000
E10978	N09134	4.5	9,000
E10978	N09134	5.0	8,000
E10978	N09134	5.5 6.0	8,000
E10978 E10978	N09134	6.5	10,000 11,000
E10978	N09134 N09134	7.0	11,000
E10995	N08595	0.5	75,000

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E10995	N08595	1.0	294,000
B10995	N08595	1.5	268,000
E10995	N08595	2.0	157,000
B1099 5	N08595	2.5	114,000
E10995	N08595	3.0	66,000
E10995	N08595	3.5	30,000
E10995	N08595	4.0	18,000
E10995	N08595	4.5	14,000
E10995	N08595	5.0	13,000
E10995	N08595	5.5	14,000
E10995	N08595	6.0	9,000
B 10995	N08595	6.5	8,000
E10995	N08595	7.0	9,000
B10995	N08595	7.5	10,000
E10995	N08595	8.0	10,000
E10995	N08595	8.5	10,000
E10995	N08595	9.0	10,000
E10995	N08595	9.5	10,000
E11000	N08500	0.5	221,000
E11000	N08500	1.0	390,000
E11000	N08500	1.5	420,000
E11000	N08500	2.0	282,000
E11000	N08500	2.5	280,000
B11000	N08500	3.0	160,000
E11000	N08500	3.5	61,000
B11000	N08500	4.0	25,000
E11000	N08500	4.5	18,000
B11000	N08500	5.0	20,000
E11000	N08500	5.5	22,000
E11000	N08500	6.0	23,000
E11000	N08500	6.5	13,000
E11000	N08500	7.0	12,000
E11000	N08500	7.5	11,000
B11000	N08500	8.0	11,000
E11000	N08500	8.5	8,000
E11000	N08500	9.0	7,000
E11000	N08500	9.5	8,000
E11000	N08700	0.5	15,000
B11000	N08700	1.0	33,000
B11000	N08700	1.5	30,000
E11000	N08700	2.0	43,000

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
B11000	N08700	2.5	28,000
E11000	N08700	3.0	16,000
E11000	N08700	3.5	13,000
E11000	N08700	4.0	13,000
E11000	N08700	4.5	14,000
E11000	N08700	5.0	15,000
E11000	N08700	5.5	17,000
E11000	N08700	6.0	16,000
E11000	N08700	6.5	14,000
E11000	N08781	0.5	13,000
E11000	N08781	1.0	22,000
E11000	N08781	1.5	26,000
E11000	N08781	2.0	23,000
E11000	N08781	2.5	26,000
E11000	N08781	3.0	22,000
E11000	N08781	3.5	18,000
E11000	N08781	4.0	16,000
E11000	N08781	4.5	14,000
E11000	N08781	5.0	13,000
E11000	N08781	5.5	12,000
E11000	N08781	6.0	12,000
E11000	N08781	6.5	13,000
E11000	N08781	7.0	11,000
E11000	N08781	7.5	11,000
E11000	N08781	8.0	11,000
B11015	N09185	0.5	17,000
E11015	N09185	1.0	17,000
E11015	N09185	1.5	14,000
E11015	N09185	2.0	11,000
E11015	N09185	2.5	9,000
E11015	N09185	3.0	9,000
B11015	N09185	3.5	8,000
E11015	N09185	4.0	9,000
B11015	N09185	4.5	11,000
E11015	N09185	5.0	12,000
E11015	N09185	5.5	12,000
E11015	N09185	6.0	13,000
E11015	N09185	6.5	12,000
E11021	N08995	0.5	9,000
E11021	N08995	1.0	8,000
		• •	•

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
		· · · · · · · · · · · · · · · · · · ·	
E11021	N08995	1.5	8,000
B11021	N08995	2.0	7,000
B11021	N08995	2.5	8,000
E11021	N08995	3.0	8,000
E11021	N08995	3.5	8,000
E11021	N08995	4.0	8,000
B11021	N08995	4.5	11,000
E11021	N08995	5.0	18,000
E11021 E11021	N08995 N08995	5.5 6.0	37,000 39,000
E11021	N08995	6.5	74,000
E11021	N08995	7.0	131,000
B11021	N08995	7.5	108,000
E11021	N08995	8.0	18,000
BIIODI	N00000	0.0	10,000
B11040	N08870	0.5	13,000
E11040	N08870	1.0	9,000
E11040	N08870	1.5	8,000
B11040	N08870	2.0	8,000
E11040	N08870	2.5	9,000
E11040	N08870	3.0	9,000
E11040	N08870	3.5	10,000
E11040	N08870	4.0	11,000
B11040	N08870	4.5	13,000
E11040	N08870	5.0	52,000
B11040	N08870	5.5	157,000
E11040	N08870	6.0	237,000
E11040	N08870 N08870	6.5 7.0	241,000
E11040 E11040	N08870 N08870	7.5	192,000 50,000
B11040	N08870 N08870	8.0	20,000
B11040	N08870 N08870	8.5	16,000
E11040	N08870	9.0	16,000
B11040	N08870	9.5	12,000
			,
B11050	N08950	0.5	10,000
E11050	N08950	1.0	10,000
E11050	N08950	1.5	12,000
E11050	N08950	2.0	14,000
B11050	N08950	2.5	18,000
E11050	N08950	3.0	33,000
B11050	N08950	3.5	32,000
B11050	N08950	4.0	17,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11050	N08950	4.5	14,000
E11050	N08950	5.0	12,000
E11050	N08950	5.5	13,000
E11050	N08950	6.0	13,000
E11050	N08950	6.5	12,000
E11050	N08950	7.0	12,000
E11050	N08950	7.5	11,000
E11050	N08950	8.0	11,000
B11050	N08950	8.5	11,000
E11050	N08950	9.0	10,000
E11050	N08950	9.5	11,000
E11075	N09003	0.5	9,000
E11075	N09003	1.0	8,000
E11075	N09003	1.5	12,000
E11075	N09003	2.0	20,000
E11075	N09003	2.5	41,000
E11075	N09003	3.0	36,000
E11075	N09003	3.5	19,000
B11075	N09003	4.0	14,000
E11075	N09003	4.5	13,000
E11075	N09003	5.0	14,000
E11075	N09003	5.5	12,000
E11075	N09003	6.0	11,000
E11080	N09110	0.5	6,000
E11080	N09110	1.0	10,000
B11080	N09110	1.5	11,000
E11080	N09110	2.0	12,000
E11080	N09110	2.5	12,000
E11080	N09110	3.0	12,000
E11080	N09110	3.5	14,000
B11080	N09110	4.0	15,000
E11080	N09110	4.5	15,000
E11085	N08635	0.5	48,000
E11085	N08635	1.0	91,000
E11085	N08635	1.5	92,000
E11085	N08635	2.0	113,000
B11085	N08635	2.5	151,000
E11085	N08635	3.0	160,000
B11085	N08635	3.5	134,000
E11085	N08635	4.0	92,000

TABLE 5-4 (continued)

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Grid Coordinates		Depth	Counts
E,W	N,S	(ft)	per Minute
	***************************************	A F	75 000
B11085	N08635	4.5	75,000
E11085	N08635	5.0	73,000
E11085	N08635	5.5	63,000
B11085	N08635	6.0	49,000
E11085	N08635	6.5	37,000
E11085	N08635	7.0	25,000 20,000
E11085	N08635	7.5	18,000
E11085	N08635	8.0	16,000
E11085	N08635	8.5 9.0	13,000
E11085	N08635	9.0 9.5	14,000
B11085	N08635	9.0	14,000
E11100	N08500	0.5	130,000
E11100	N08500	1.0	347,000
E11100	N08500	1.5	496,000
E11100	N08500	2.0	566,000
E11100	N08500	2.5	583,000
E11100	N08500	3.0	504,000
E11100	N08500	3.5	323,000
E11100	N08500	4.0	123,000
E11100	N08500	4.5	47,000
E11100	N08500	5.0	19,000
E11100	N08500	5.5	14,000
E11100	N08500	6.0	14,000
E11100	N08500	6.5	13,000 13,000
E11100	N08500	7.0	12,000
E11100	N08500	7.5	12,000
E11100	N08500	8.0	12,000
E11100	N08600	0.5	111,000
B11100	N08600	1.0	281,000
E11100	N08600	1.5	300,000
E11100	N08600	2.0	214,000
E11100	N08600	2.5	152,000
E11100	N08600	3.0	130,000
E11100	N08600	3.5	123,000
E11100	N08600	4.0	102,000
E11100	N08600	4.5	62,000
B11100	N08600	5.0	25,000
B11100	N08600	5.5	14,000
E11100	N08600	6.0	11,000
E11100	N08600	6.5	10,000
E11100	N08600	7.0	10,000

TABLE 5-4 (continued)

Pag	e 2.	<u>2 o</u>	f	<u>37</u>

	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11100	N08600	7.5	10,000
E11100	N08600	8.0	9,000
E11100	N08600	8.5	9,000
B11100	N08600	9.0	8,000
B11100	N08600	9.5	7,000
E11110	N08785	0.5	13,000
E11110	N08785	1.0	15,000
E11110	N08785	1.5	16,000
E11110	N08785	2.0	16,000
E11110	N08785	2.5	14,000
E11110	N08785	3.0	16,000
B11110	N08785	3.5	17,000
E11110	N08785	4.0	34,000
E11110	N08785	4.5	109,000
E11110	N08785	5.0	98,000
E11110	N08785	5.5	33,000
E11110	N08785	6.0	15,000
B11110	N08785	6.5	13,000
E11110	N08785	7.0	14,000
E11110	N08785	7.5	12,000
E11110	N08785	8.0	12,000
E11150	N09200	0.5	11,000
E11150	N09200	1.0	13,000
E11150	N09200	1.5	13,000
E11150	N09200	2.0	14,000
E11150	N09200	2.5	13,000
B11150	N09200	3.0	12,000
E11150	N09200	3.5	11,000
B11150	N09200	4.0	11,000
E11150	N09200	4.5	11,000
B11190	N08500	0.5	94,000
E11190	N08500	1.0	170,000
B11190	N08500	1.5	183,000
E11190	N08500	2.0	130,000
B11190	N08500	2.5	117,000
E11190	N08500	3.0	139,000
E 11190	N08500	3.5	83,000
E11190	N08500	4.0	34,000
E11190	N08500	4.5	16,000
E11190	N08500	5.0	12,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
	NOSEOO	5.5	11,000
E11190	N08500	6.0	11,000
B11190	N08500	6.5	10,000
E11190 E11190	N08500 N08500	7.0	9,000
E11190	N08500	7.5	9,000
E11190	N08500	8.0	9,000
E11190	N08500	8.5	10,000
E11190	N08500	9.0	10,000
B11190	N08500	9.5	11,000
E11190	N08500	10.0	12,000
E11200	N08600	0.5	64,000
B11200	N08600	1.0	161,000
E11200	N08600	1.5	161,000
B 11200	N08600	2.0	120,000
B11200	N08600	2.5	79,000
E11200	N08600	3.0	70,000
E11200	N08600	3.5	56,000
E11200	N08600	4.0	37,000
E11200	N08600	4.5	24,000
E11200	N08600	5.0	19,000
E11200	N08600	5.5	15,000
E11200	N08600	6.0	14,000
E11200	N08600	6.5	14,000
E11200	N08600	7.0	11,000
E11200	N08600	7.5	10,000
E11200	N08600	8.0	10,000
B11200	N08600	8.5	9,000
B11200	N08600	9.0	9,000
E11200	N08600	9.5	11,000
B11200	N08700	0.5	12,000
B11200	N08700	1.0	17,000
B11200	N08700	1.5	15,000
B11200	N08700	2.0	18,000
E11200	N08700	2.5	23,000
E11200	N08700	3.0	27,000
E11200	N08700	3.5	30,000
E11200	N08700	4.0	25,000
B11200	N08700	4.5	13,000
E11200	N08700	5.0	11,000
B11200	N08700	5.5	9,000
E11200	N08700	6.0	9,000

TABLE 5-4 (continued)

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E11200 N08700 6.5 9,000 E11200 N08700 7.0 9,000 E11200 N08700 7.5 10,000 E11200 N08700 8.0 11,000 E11200 N08700 8.5 11,000 E11200 N08700 9.0 10,000 E11200 N08900 1.0 11,000 E11200 N08900 1.5 20,000 E11200 N08900 2.0 15,000 E11200 N08900 2.5 15,000 E11200 N08900 3.0 14,000 E11200 N08900 3.5 13,000 E11200 N08900 4.0 12,000 E11200 N08900 4.5 13,000 E11200 N08900 5.0 13,000 E11200 N08900 5.0 13,000 E11200 N08900 5.5 12,000 E11200 N08900 6.0 10,000 E11200 N08900 7.0 10,000 E11200 N08900 7.5 10,000 E11200 N08900 7.5 10,000 E11200 N08900 8.0 10,000 E11200 N08900 8.5 9,000 E11200 N08900 8.5 9,000 E11200 N08900 8.5 9,000 E11200 N08900 9.0 8,000	Grid Coo	<u>ordinates</u>	Depth	Counts
B11200 N08700 7.0 9,000 B11200 N08700 7.5 10,000 B11200 N08700 8.0 11,000 B11200 N08700 8.5 11,000 B11200 N08700 9.0 10,000 B11200 N08900 1.0 11,000 B11200 N08900 1.5 20,000 B11200 N08900 2.0 15,000 B11200 N08900 2.5 15,000 B11200 N08900 2.5 15,000 B11200 N08900 3.5 13,000 B11200 N08900 3.5 13,000 B11200 N08900 4.5 13,000 B11200 N08900 5.5 12,000 B11200 N08900 5.5 12,000 B11200 N08900 5.5 12,000 B11200 N08900 6.0 10,000 B11200 N08900 7.5 10,000 B11200 N08900 8.5 9,000 B11200 N08900 <	E,W	N,S	(ft)	per Minute
B11200 N08700 7.0 9,000 B11200 N08700 7.5 10,000 B11200 N08700 8.0 11,000 B11200 N08700 8.5 11,000 B11200 N08700 9.0 10,000 B11200 N08900 1.0 11,000 B11200 N08900 1.5 20,000 B11200 N08900 2.0 15,000 B11200 N08900 2.5 15,000 B11200 N08900 2.5 15,000 B11200 N08900 3.5 13,000 B11200 N08900 3.5 13,000 B11200 N08900 4.5 13,000 B11200 N08900 5.5 12,000 B11200 N08900 5.5 12,000 B11200 N08900 5.5 12,000 B11200 N08900 6.0 10,000 B11200 N08900 7.5 10,000 B11200 N08900 8.5 9,000 B11200 N08900 <	R11200	N08700	6.5	9,000
B11200 N08700 7.5 10,000 B11200 N08700 8.0 11,000 B11200 N08700 8.5 11,000 B11200 N08700 9.0 10,000 B11200 N08900 1.0 11,000 B11200 N08900 1.5 20,000 B11200 N08900 2.0 15,000 B11200 N08900 2.5 15,000 B11200 N08900 3.0 14,000 B11200 N08900 3.5 13,000 B11200 N08900 4.5 13,000 B11200 N08900 4.5 13,000 B11200 N08900 5.0 13,000 B11200 N08900 5.5 12,000 B11200 N08900 5.5 12,000 B11200 N08900 6.0 10,000 B11200 N08900 7.5 10,000 B11200 N08900 7.5 10,000 B11200 N08900 8.5 9,000 B11200 N08900				
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	E11205	N0880e	8.0	8,000

TABLE 5-4 (continued)

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rage 25	01 37		
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	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11205	N08806	8.5	8,000
E11205	N08806	9.0	8,000
E11205	N08806	9.5	9,000
B11207	N09000	0.5	27,000
E11207	N09000	1.0	49,000
E11207	N09000	1.5	88,000
E11207	N09000	2.0	80,000
B11207	N09000	2.5	44,000
E11207	N09000	3.0	27,000
E11207	N09000	3.5	33,000
E11207	N09000	4.0	30,000
E11207	N09000	4.5	18,000
		5.0	16,000
E11207	N09000	5.0	10,000
E11210	N09100	0.5	24,000
E11210	N09100	1.0	20,000
E11210	N09100	1.5	16,000
E11210	N09100	2.0	15,000
E11210	N09100	2.5	13,000
E11210	N09100	3.0	13,000
E11210	N09100	3.5	14,000
	N09100 N09100	4.0	13,000
E11210	N09100	4.0	15,000
E11210	N09200	0.5	14,000
E11210	N09200	1.0	13,000
E11210	N09200	1.5	13,000
E11210	N09200	2.0	12,000
E11210	N09200	2.5	10,000
E11210	N09200	3.0	10,000
B11210	N09200	3.5	11,000
E11210	N09200	4.0	10,000
B11210	N09200	4.5	12,000
E11210	N09200	5.0	10,000
E11300	N08500	0.5	233,000
E11300	N08500	1.0	441,000
E11300	N08500	1.5	480,000
E11300	N08500	2.0	432,000
	N08500	2.5	212,000
E11300		3.0	79,000
E11300	N08500	3.0 3.5	41,000
E11300	N08500	3.5 4.0	34,000
E11300	N08500	4.0	34,000

TABLE 5-4 (continued)

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Grid Coordinates		Depth	Counts
E,W	N,S	(ft)	per Minute
E11300	N08500	4.5	25,000
B11300	N08500	5.0	18,000
E11300	N08500	5.5	17,000
E11300	N08500	6.0	13,000
E11300	N08500	6.5	10,000
E11300	N08600	0.5	97,000
E11300	N08600	1.0	89,000
B11300	N08600	1.5	75,000
E11300	N08600	2.0	112,000
B11300	N08600	2.5	125,000
E11300	N08600	3.0	65,000
B11300	N08600	3.5	28,000
E11300	N08600	4.0	16,000
E11300	N08600	4.5	12,000
E11300	N08600	5.0	11,000
E11300	N08600	5.5	10,000
E11300	N08600	6.0	11,000
E11300	N08600	6.5	11,000
E11300	N08600	7.0	10,000
E11300	N08600	7.5	10,000
E11300	N08600	8.0	9,000
E11300	N08600	8.5	9,000
E11300	N08600	9.0	8,000
E11300	N08800	0.5	136,000
E11300	N08800	1.0	199,000
E11300	N08800	1.5	191,000
E11300	N08800	2.0	117,000
E11300	N08800	2.5	85,000
E11300	N08800	3.0	71,000
E11300	N08800	3.5	57,000
E11300	N08800	4.0	39,000
E11300	N08800	4.5	24,000
B11300	N08800	5.0	17,000
E11300	N08800	5.5	16,000
E11300	N08800	6.0	13,000
E11300	N08800	6.5	10,000
E11300	N08800	7.0	9,000
E11300	N08800	7.5	8,000
E11300	N08800	8.0	9,000
E11300	N08800	8.5	11,000
E11300	N08800	9.0	11,000

TABLE 5-4 (continued)

Pag	e 27	of	3	7	

	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11300	N08800	9.5	11,000
E11300	N08800	10.0	10,000
E11300	N08800	10.5	9,000
E11300	N08800	11.0	9,000
E11300	N08800	11.5	10,000
E11300	N08900	0.5	43,000
E11300	N08900	1.0	60,000
E11300	N08900	1.5	80,000
E11300	N08900	2.0	37,000
E11300	N08900	2.5	20,000
E11300	N08900	3.0	16,000
E11300	N08900	3.5 4.0	14,000 12,000
E11300	N08900 N08900	4.5	10,000
E11300 E11300	N08900 N08900	5.0	10,000
E11300	N08900	5.5	10,000
E11300	N08900	6.0	10,000
E11300	N09000	0.5	28,000
E11300	N09000	1.0	36,000
E11300	N09000	1.5	41,000
E11300	N09000	2.0	18,000
E11300	N09000	2.5	14,000
E11300	N09000	3.0	11,000
E11300	N09000	3.5	9,000
E11300	N09000	4.0	9,000
E11300	N09000	4.5	10,000
E11300	N09000	5.0	10,000
E11300	N09000	5.5	10,000 9,000
E11300	N09000 N09000	6.0 6.5	10,000
E11300 E11300	N09000 N09000	7.0	11,000
E11300	N09000	7.5	11,000
E11300	N09000	8.0	11,000
E11300	N09200	0.5	12,000
E11300	N09200	1.0	20,000
E11300	N09200	1.5	19,000
E11300	N09200	2.0	20,000
E11300	N09200	2.5	21,000
E11300	N09200	3.0	24,000
E11300	N09200	3.5	30,000

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11300	N09200	4.0	30,000
E11300	N09200	4.5	20,000
E11300	N09200	5.0	15,000
E11300	N09200	5.5	13,000
E11300	N09270	0.5	14,000
E11300	N09270	1.0	20,000
E11300	N09270	1.5	20,000
E11300	N09270	2.0	14,000
E11300	N09270	2.5	12,000
E11300	N09270	3.0	12,000
E11300	N09270	3.5	13,000
E11300	N09270	4.0	12,000
E11300	N09270	4.5	13,000
E11300	N09270	5.0	12,000
E11300	N09270	5.5	12,000
B11300	N09270	6.0	11,000
E11305	N08445	0.5	236,000
E11305	N08445	1.0	349,000
E11305	N08445	1.5	361,000
E11305	N08445	2.0	426,000
E11305	N08445	2.5	420,000
E11305	N08445	3.0	380,000
E11305	N08445	3.5	343,000
E11305	N08445	4.0	296,000
E11305	N08445	4.5	205,000
E11305	N08445	5.0	82,000
E11305	N08445	5.5	40,000
E11305	N08445	6.0	18,000
E11305	N08445	6.5	12,000
E11305	N08445	7.0	10,000
E11305	N08445	7.5	10,000
E11305	N08445	8.0	9,000
E11305	N08445	8.5	9,000
E11305	N08445	9.0	10,000
E11305	N08445	9.5	9,000
E11305	N08445	10.0	8,000
E11305	N09105	0.5	37,000
B11305	N09105	1.0	37,000
E11305	N09105	1.5	22,000
E11305	N09105	2.0	13,000
BITOOD	1402100	2.0	20,000

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
E, W	N,S	(ft)	per Minute
E11305	N09105	2.5	13,000
E11305	N09105	3.0	11,000
E11305	N09105	3.5	10,000
B11305 B11305	N09105 N09105	4.0 4.5	10,000 10,000
	NOODOO	0.5	25,000
E11350 E11350	000000 000000	1.0	41,000
E11350	N09000	1.5	41,000
E11350	N09000	2.0	34,000
E11350	N09000	2.5	18,000
E11350	N09000	3.0	13,000
E11350	N09000	3.5	12,000
E11350	N09000	4.0	11,000
E11350	N09000	4.5	11,000
E11350	N09000	5.0	11,000
E11350	N09000	5.5	11,000
E11350	N09000	6.0	11,000
E11400	N08600	0.5	142,000
E11400	N08600	1.0	185,000
E11400	N08600	1.5	171,000
B11400	N08600	2.0	130,000
E11400	N08600	2.5	69,000
E11400	N08600	3.0	30,000
E11400	N08600	3.5	15,000
E11400	N08600	4.0	14,000
B11400	N08600	4.5	11,000 10,000
B11400	N08600 N08600	5.0 5.5	10,000
E11400	N08600	6.0	10,000
E11400 E11400	N08600	6.5	10,000
E11400	N08600	7.0	9,000
E11400	N08600	7.5	10,000
E11400	N08800	0.5	50,000
B11400	N08800	1.0	38,000
B11400	N08800	1.5	21,000
E11400	N08800	2.0	16,000
E11400	N08800	2.5	13,000
E11400	N08800	3.0	11,000
E11400	N08800	3.5	10,000
E11400	N08800	4.0	9,000

TABLE 5-4 (continued)

P	8,9	(e	30	0	f	3	7

Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11400	N08800	4.5	10,000
E11400	N08800	5.0	10,000
E11400	N08800	5.5	9,000
E11400	N08800	6.0	9,000
E11400	N08900	0.5	22,000
E11400	N08900	1.0	30,000
E11400	N08900	1.5	31,000
E11400	N08900	2.0	22,000
E11400	N08900	2.5	15,000
E11400	N08900	3.0	12,000
B11400	N08900	3.5	9,000
E11400	N08900	4.0	10,000
E11400	N08900	4.5	10,000
E11400	N08900	5.0	10,000
E11400	N09000	0.5	23,000
E11400	N09000	1.0	22,000
E11400	N09000	1.5	14,000
E11400	N09000	2.0	13,000
E11400	N09000	2.5	12,000
E11400	N09000	3.0	12,000
E11400	N09000	3.5	12,000
E11400	N09000	4.0	11,000
E11400	N09000	4.5	10,000
E11400	N09000	5.0	11,000
B11400	N09000	5.5	11,000
E11400 E11400	00000 N09000	6.0	10,000
B11400	NO9000	6.5	9,000
E11400	N09100	0.5	13,000
E11400	N09100	1.0	13,000
E11400	N09100	1.5	12,000
E11400	N09100	2.0	11,000
E11400	N09100	2.5	12,000
B11400	N09100	3.0	11,000
E11400	N09100	3.5	10,000
E11400	N09100	4.0	11,000
E11400	N09100	4.5 5.0	10,000
E11400	N09100	5.0 5.5	11,000
E11400 E11400	N09100 N09100	5.5 6.0	11,000
			11,000
E11400	N09100	6.5	10,000

TABLE 5-4 (continued)

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Grid Cod	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
		5.0	10.000
B11400	N09100	7.0	10,000
E11400	N09100	7.5	10,000
B11400	N09200	0.5	11,000
E11400	N09200	1.0	14,000
E11400	N09200	1.5	12,000
E11400	N09200	2.0	11,000
E11400	N09200	2.5	10,000
E11400	N09200	3.0	10,000
E11400	N09200	3.5	10,000
E11400	N09200	4.0	9,000
E11400	N09200	4.5	9,000
E11410	N08680	0.5	167,000
B11410	N08680	1.0	305,000
E11410	N08680	1.5	361,000
E11410	N08680	2.0	349,000
E11410	N08680	2.5	213,000
E11410	N08680	3.0	71,000
E11410	N08680	3.5	27,000
E11410	N08680	4.0	16,000
E11410	N08680	4.5	12,000
E11410	N08680	5.0	10,000
E11410	N08680	5.5	10,000
E11410	N08680	6.0	9,000
E11410	N08680	6.5	10,000
E11410	N08680	7.0	10,000
E11410	N08680	7.5	10,000
E11410	N08680	8.0	11,000
E11410	N08680	8.5	10,000
E11410	N08680	9.0	9,000
E11410	N08680	9.5	9,000
E11410	N08680	10.0 10.5	9,000 10,000
E11410	N08680		
E11410	N08680	11.0	10,000
B11410	N08680	11.5	10,000
E11410	N08680	12.0	11,000
B11410	N08680	12.5	11,000
E11410	N08680	13.0	10,000
E11410	N08680	13.5	10,000
E11415	N08485	0.5	74,000
E11415	N08485	1.0	62,000

TABLE 5-4 (continued)

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Grid Cod	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
	·		
	*****	1 E	07 000
B11415	N08485	1.5	97,000
B11415	N08485	2.0	154,000 177,000
E11415	N08485	2.5	
B11415	N08485	3.0	122,000
E11415	N08485	3.5	47,000
B11415	N08485	4.0	28,000
E11415	N08485	4.5	13,000
E11415	N08485	5.0	11,000
E11500	N08500	0.5	98,000
E11500	N08500	1.0	154,000
E11500	N08500	1.5	195,000
E11500	N08500	2.0	137,000
B11500	N08500	2.5	69,000
E11500	N08500	3.0	33,000
E11500	N08500	3.5	16,000
E11500	N08500	4.0	14,000
E11500	N08500	4.5	11,000
E11500	N08500	5.0	10,000
E11500	N08500	5.5	10,000
E11500	N08500	6.0	9,000
E11500	N08500	6.5	10,000
E11500	N08500	7.0	10,000
E11500	N08500	7.5	10,000
E11500	N08600	0.5	73,000
E11500	N08600	1.0	93,000
E11500	N08600	1.5	54,000
E11500	N08600	2.0	22,000
E11500	N08600	2.5	16,000
E11500	N08600	3.0	21,000
E11500	N08600	3.5	25,000
E11500	N08600	4.0	33,000
B11500	N08600	4.5	49,000
B11500	N08600	5.0	50,000
B11500	N08600	5.5	34,000
E11500	N08600	6.0	14,000
E11500	N08600	6.5	11,000
B11500	N08600	7.0	11,000
E11500	N08600	7.5	10,000
E11500	N08600	8.0	10,000
E11500	N08600	8.5	10,000
E11500	N08600	9.0	11,000
		 -	•

TABLE 5-4 (continued)

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Grid Co	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11500	N08600	9.5	10,000
E11500	N08680	0.5	47,000
E11500	N08680	1.0	38,000
B11500	N08680	1.5	20,000
E11500	N08680	2.0	16,000
E11500	N08680	2.5	17,000
E11500	N08680	3.0	30,000
E11500	N08680	3.5	86,000
E11500	N08680	4.0	140,000
E11500	N08680	4.5	128,000
B11500	N08680	5.0	111,000 108,000
E11500	N08680	5.5 6.0	71,000
E11500	N08680	6.5	30,000
E11500	N08680 N08680	7.0	16,000
E11500 E11500	N08680	7.5	13,000
		8.0	12,000
B11500	N08680 N08680	8.5	11,000
E11500 E11500	N08680	9.0	10,000
E11500	N08680	9.5	11,000
E11500	N08680	10.0	11,000
E11500	N08680	10.5	11,000
E11500	N08680	11.0	11,000
E11500	N08680	11.5	11,000
E11500	N08680	12.0	11,000
E11500	N08680	12.5	10,000
E11500	N08680	13.0	10,000
E11500	N08680	13.5	10,000
E11500	N08680	14.0	10,000
E11500	N08800	0.5	43,000
B11500	N08800	1.0	26,000
B 11500	N08800	1.5	15,000
E11500	N08800	2.0	13,000
E11500	N08800	2.5	10,000
E11500	N08800	3.0	10,000
E11500	N08800	3.5	13,000
B11500	N08800	4.0	12,000
E11500	N08800	4.5	11,000
B11500	N08800	5.0	10,000
B11500	N08800	5.5	10,000
E11500	N08800	6.0	10,000

TABLE 5-4 (continued)

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Grid Cod	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11500	N08800	6.5	10,000
B11500	N08800	7.0	11,000
B11500	N08800	7.5	10,000
B11500	N08800	8.0	11,000
E11500	N08800	8.5	11,000
E11500	N08900	0.5	30,000
E11500	N08900	1.0	35,000
E11500	N08900	1.5	33,000
E11500	N08900	2.0	22,000
E11500	N08900	2.5	17,000
B11500	N08900	3.0	12,000
E11500	N08900	3.5	12,000
E11500	N08900	4.0	14,000
E11500	N08900	4.5	13,000
E11500	N08900	5.0	12,000
E11500	N08900	5.5	11,000
B11500	N08900	6.0	11,000
E11500	N08900	6.5	12,000
E11500	N08900	7.0	11,000
E11500	N08900	7.5	11,000
E11500	N08900	8.0	11,000
E11500	N08900	8.5	10,000 10,000
E11500	N08900	9.0	9,000
E11500	N08900	9.5	9,000
E11500	N08900	10.0	5,000
R11500	N09000 N09000	0.5 1.0	16,000 16,000
E11500 E11500	N09000	1.5	12,000
B11500	N09000	2.0	12,000
E11500	N09000	2.5	12,000
E11500	N09000	3.0	16,000
B11500	N09000	3.5	19,000
E11500	N09000	4.0	22,000
E11500	N09000	4.5	14,000
E11500	N09000	5.0	10,000
B11500	N09000	5.5	9,000
B11500	N09000	6.0	9,000
B11500	N09000	6.5	8,000
E11500	N09000	7.0	8,000
E11500	N09000	7.5	8,000
E11500	N09000	8.0	8,000
			-

TABLE 5-4 (continued)

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Grid Cod	ordinates	Depth	Counts
E,W	N,S	(ft)	per Minute
E11500	N09000	8.5	8,000
B11500	N09000	9.0	9,000
B11500	N09000	9.5	9,000
E11500	N09000	10.0	9,000
B11500	N09000	10.5	10,000
E11500	N09000	11.0	10,000
E11500	N09000	11.5	10,000
E11500	N09000	12.0	11,000
E11500	N09000	12.5	10,000
E11500	N09250	0.5	22,000
E11500	N09250	1.0	25,000
E11500	N09250	1.5	21,000
B11500	N09250	2.0	16,000
E11500	N09250	2.5	14,000
E11500	N09250	3.0	15,000
B11500	N09250	3.5	16,000
E11590	N09100	0.5	11,000
E11590	N09100	1.0	13,000
E11590	N09100	1.5	12,000
E11590	N09100	2.0	11,000
E11590	N09100	2.5	10,000
E11590	N09100	3.0	10,000
E11590	N09100	3.5	11,000 10,000
B11590	N09100	4.0	9,000
E11590	N09100	4.5	9,000
B11600	N08600	0.5	109,000
E11600	N08600	1.0	154,000
E11600	N08600	1.5	200,000
E11600	N08600	2.0	335,000
E11600	N08600	2.5	496,000
E11600	N08600	3.0	504,000
E11600	N08600	3.5 4.0	349,000 84,000
E11600	N08600	4.5	74,000
E11600	N08600 N08600	5.0	23,000
E11600 E11600	N08600	5.5	15,000
E11600	N08600	6.0	12,000
E11600	N08600	6.5	11,000
E11600	N08600	7.0	11,000
E11600	N08600	7.5	12,000
PIIOOO	1400000		,,

TABLE 5-4 (continued)

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	ordinates	Depth	Counts
E, W	N,S	(ft)	per Minute
E11600	N08600	8.0	11,000
E11600	N08600	8.5	11,000
E11600	N08600	9.0	11,000
E11600	N08600	9.5	12,000
E11600	N08600	10.0	14,000
E11600	N08600	10.5	14,000
E11600	N08600	11.0	10,000
E11600	N08600	11.5	8,000
E11600	N08600	12.0	9,000
E11600	N08600	12.5	10,000
E11600	N08600	13.0	9,000
E11600	N08600	13.5	10,000
E11600	N08600	14.0	10,000
E11600	N09020	0.5	12,000
E11600	N09020	1.0	20,000
E11600	N09020	1.5	20,000
E11600	N09020	2.0	16,000
B11600	N09020	2.5	16,000
E11600	N09020	3.0	14,000
E11600	N09020	3.5	16,000
E11600	N09020	4.0	17,000
E11600	N09020	4.5	14,000
E11600	N09020	5.0	12,000
B11600	N09020	5.5	11,000
E11600	N09020	6.0	11,000
E11600	N09020	6.5	11,000
B11600	N09020	7.0	10,000
B11600	N09020	7.5	10,000
E11602	N08500	0.5	174,000
E11602	N08500	1.0	237,000
E11602	N08500	1.5	211,000
E11602	N08500	2.0	199,000
B11602	N08500	2.5	146,000
E11602	N08500	3.0	78,000
E11602	N08500	3.5	40,000
E11602	N08500	4.0	19,000
B11602	N08500	4.5	13,000
E11602	N08500	5.0	12,000
E11602	N08500	5.5	18,000
E11602	N08500	6.0	16,000
E11705	N09100	0.5	11,000

TABLE 5-4 (continued)

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Grid Coo	ordinates N,S	Depth (ft)	Counts per Minute
	Α, υ		*
E11705	N09100	1.0	13,000
E11705	N09100	1.5	13,000
B11705	N09100	2.0	12,000
E11705	N09100	2.5	10,000
E11705	N09100	3.0	10,000
E11705	N09100	3.5	10,000
E11705	N09100	4.0	11,000
E11705	N09100	4.5	10,000

aThe variations in the depths of boreand corresponding results given in this table are based on the boreholes pentrating the contamination or the drill reaching refusal.

bContamination not penetrated because the borehole collapsed.

TABLE 5-5
SUBSURFACE SOIL SAMPLING RESULTS
AT SEARS

		Danth	Concentrati	ons (pCi/g +/-	2 gigma) a
Grid Co E,W	ordinates N,S	Depth (ft)	Uranium-238	Radium-226	Thorium-232
B10085	N08915	0-1	<40.0	6.0 ± 1.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
E10085	N08915	1-2	<60.0	3.0 ± 1.0	9.0 ± 2.0
E10085	N08915	2-3	<17.0	<6.0	8.0 ± 1.0
E10085	N08915	3-4	<43.0	$\begin{array}{cccc} 2.0 & \pm & 1.0 \\ 4.0 & \pm & 1.0 \end{array}$	4.0 ± 1.0
B10506	N09000	0-1	<12.0	4.0 ± 1.0	21.0 ± 8.0
E10506	N09000	3-4	<46.0	23.0 ± 3.0	108.0 ± 11.0
E10506	N09000	4-5	<86.0	37.0 ± 10.0	$ \begin{array}{c} 180.0 & \pm & 13.0 \\ 53.0 & \pm & 10.0 \\ \hline 3.0 & \pm & 1.0 \end{array} $
E10506	N09000	6-7	<57.0	10.0 ± 1.0	53.0 ± 10.0
E10506	N09000	7-8	<38.0	2.0 ± 1.0	3.0 ± 1.0
B10506	N09000	8-9	<25.0	1.0 ± 1.0	2.0 ± 1.0
E10506	N09000	9-10	<30.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<3.0
E10800	N08500	2-3	<75.0	5.0 ± 1.0	34.0 ± 5.0
E10800	N08500	3-4	<17.0	<5.0	<7.0
E10800	N08500	4-5	<37.0	1.0 + 1.0	2.0 ± 1.0
E10800	N08500	5-6	<9.0	$\begin{array}{cccc} 1.0 & \pm & 1.0 \\ 1.0 & \pm & 1.0 \end{array}$	1.0 ± 1.0
E10800	N08500	6-7	<37.0	<2.0	<4.0
E11085	N08635	1-2	<88.0	7.0 ± 1.0	25.0 ± 3.0
E11085	N08635	2-3	<32.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21.0 ± 2.0
E11085	N08635	3-4	<32.0	13.0 + 4.0	61.0 ± 5.0
E11085	N08635	5-6	<18.0	5.0 ± 1.0	13.0 ± 2.0
B11085	N08635	6-7	<31.0	3.0 ± 1.0	14.0 ± 3.0
E11085	N08635	7-8	<64.0	2.0 ± 1.0	4.0 ± 1.0
E11085	N08635	8-9	<33.0	$ 5.0 \pm 1.0 \\ 3.0 \pm 1.0 \\ 2.0 \pm 1.0 \\ 2.0 \pm 1.0 \\ 1.0 \pm 1.0 $	3.0 ± 1.0
E11085	N08635	9-10	<9.0	1.0 ± 1.0	<4.0
E11350	N09000	0-1	<56.0	4.0 ± 1.0	8.0 ± 1.0
E11350	N09000	1-2	<22.0	<5.0	16.0 ± 2.0
E11350	N09000	2-3	<13.0	5.0 <u>+</u> 2.0	13.0 ± 3.0
E11350	N09000	3-4	<13.0	<4.0	<6.0
E11350	N09000	4-5	<14.0	2.0 ± 1.0	<5.0
E11350	N09000	5-6	<13.0	2.0 ± 1.0	<3.0
B11350	N09000	6-7	<33.0	2.0 ± 1.0 3.0 ± 1.0	2.0 + 1.0
E11350	N09000	7-8	<38.0	2.0 ± 1.0	<4.0
E11415	N08485	0-1	<70.0	6.0 ± 2.0	15.0 ± 3.0
B11415	N08485	1-2	<84.0	2.0 ± 2.0	17.0 ± 4.0
B11415	N08485	2-3	<185.0	16.0 ± 2.0	68.0 <u>+</u> 6.0
B11415	N08485	3-4	<232.0	12.0 ± 4.0	87.0 ± 3.0
B11415	N08485	4-5	<13.0	<4.0	2.0 ± 1.0
B11415	N08485	5-6	<40.0	1.0 ± 1.0	3.0 ± 1.0
B11415	N08485	6-7	40.0 + 18.0	1.0 ± 1.0	<3.0
DYTAIO	100400	J ,		-	

The low level of detectability was proportional to the quantity of the sample, the heterogeneity of the sample, moisture content, and counting geometry.

TABLE 5-6
RADON MEASUREMENTS IN SEARS WAREHOUSE

Method	pCi/l
Lucas Cell (predrilling)	
Employee washroom	2.2
Supervisor's office	0.6
Radon Pylon	
Borehole locations - predrilling	0 - 0.9
Borehole locations - immediately after drilling	5 - 30
Borehole locations - 72 hours after drilling ^a	50 - 300

aConcentrations returned to background levels after the holes were sealed.

TABLE 5-7

GAMMA RADIATION EXPOSURE RATE MEASUREMENTS
AT SEARS

rid Coor	rdinates N,S	Exposure Rate (uR/h)
E10400	N08900	12
B10400	N09000	14
E10400	N09100	14
B10700	N08900	11
E10700	N09000	12
B10700	N09100	14
B11000	N08900	11
E11000	N09000	13
E11000	N09100	15

TABLE 5-8
SUMMARY OF PRIORITY POLLUTANT METALS ANALYSIS AT THE SEARS PROPERTY

	Range of Sample Concentrations (ppm)	Maximum Metal Results of EP Toxicity Test/ EPA Standard (ppm)	Mean (Range) of Background ^a F Concentrations (ppm)	Number of Results Greater Than Background Range	Sample Location
Arsenic	<2 - 10	0.04/5	2 (1-50)	0	N9000, E10506
Cadmium	<0.08 - 2	<0.04/1	0.06 (0.01-0.7)	4	- b-
Chromium	6 - 99	<0.04/5	100 (5-3000)	0	N9305, E10200
Lead	10 - 4200	0.2/5	10 (2-200)	1	N9305 E10200
Mercury	<0.1 - 0.8	<0.001/0.2	0.03 (0.01-3)	0	N8500, E10800
Selenium	<1 - <4	<0.01/1	(0.01-2)	0	N8500, E10800
Silver	<0.2	<0.03/5	0.1 (0.01-5)	0	N9930, E9800
Beryllium	<0.01	NA	6 (0.1-40)	0	N9300, E9700
Copper	6 - 140	NA	20 (2-100)	1	N9305, E10200
Nickel	5.7 - 18	NA	40 (10-1000)	0	N8690, E11650
Thallium	<2 - 8	NA	0.1	1	N8690, E11650
Zinc	22 - 430	NA	50 (10-300)	1	N9305, E10200
Antimony	<2 - 14	NA	(2-10)	1	N8690, E11650

aSee Reference 11.

bCoordinates for this constituent are N9305, E10200; N8915, E10200; N8380, E11000 and N8690, E11650.

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APPENDIX A
GEOLOGIC DRILL LOGS



																	T		1		1
Γ	G	EOL	OGIC	D	RIL	LL	OG		PR	DJECT		F	US	RAP			JOS NO. 14501	1-138	SHEET I DE	1	MISS-128R
SITE		•	MAYYO	00				COORC	OLATES				N8	600,E1	1600			MGLE	90°		BEARING N/A
BEGIN		COM	IN STOR	AG		1	MORETI	ENC!		1		AKE A	NO	#00EL 8-33		HOLE SEE	DYERBURDEN		ROCK &	ر ات 5.5'	TOTAL DEPTH
6/23		EPRY 6 TJ	/23/86 /xx		.01E 1	NVIRO	SAMPLE	AL SE	RVICE	Y CASH		GROUP	0	B.	DEP TH/E	L GROUND W	ATER	<u> </u>	1	EL. TOP	OF NOCK
		N/A		丄	N		N/A			/A		4	15.	B LOCCED B	ļ	6. D'	/39.8'		<u> </u>	7.0	/38.8'
SAMPL		VA	Off/FALL				N. LEFT 1		/A							<u> </u>	P.YEN				
SAMPLE TYPE AND DIANETER	SAMPLER ADVANCE	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS "PERCENT CONE RECOVERY		PRE	ESSURE ESSURE ESTS	s;	ELEV	ATION	БЕРТИ	CRAPHIC LOG	SAMPLE			DESCRIPT	ION AND CLA	SSFICATION®			TA CH	TES ON TER LEVELS, ITER RETURN, ARACTER OF
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AUCER, 6", THROUGHOUT.	 							3	8.8	7.0				(N8,N9), 4.0-5.0 5.0-7.0	WITH SE BLACK PALE	LUDGE. TO DARK OLIVE GOY	GRAY (NI-N 6/2). T. FINE-GRA	3).		₽ ESER	6/25/86 LINE YTICAL
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TYPE	· · ·		SAMPLE BLOWS	T COPE	P	WATER RESSURE TESTS		FI FVATION	FL 430	GRAPHIC LOG	SAMPLE	_1	DESCRIPT	ION AND CLAS	SEICATION 8			W/	ITES ON. LTER LEVELS, LTER RETURN,
SAMPLE TYPE AND DIAMETER	DIGTH (CORE R	Sub-	25.05 C. C. C	% × 3	SPRESSURE P.S.I	AND SET OF SET O	47.0	0	CRAP	12								rapacter of Riling, etc.
AUCER, 6, THROUGHOUT.					SI 6	TO STATE OF THE ST		38.5 37.0	5.5	ALL TELEFOREST CONTRACTORS TO THE TRACTORS TO THE TOTAL PROPERTY OF THE TRACTORS TO THE TRACTO		(5182/ 0.5-8:5 SILTY 0.5-2:0 5.5-6:0 2.0-6:0 6.0-7:1 7.5-8:5 (0) 7.6:0 (5) 7.6:0 (5) 7.6:0 HOLE	2) RESIDE TSAND (SASTIC, DUSKY ASTIC, DUSKY SET STREET ST	(N9). (ND). YELLOWISH STONE; LIGH FINE GRAIN TURATED. OLE AT 10.0 ED WITH CE	E GRAINED. TO URATED. TH WHETE BROWN T BROWN NED, SELTY.	ONITE		RADIO CONTA CONTA EBERL CORPO EBERL ANAL ANAL ANAL CORPO CERT CERT CERT CERT CERT CERT CERT CERT	TICAL PRATION. INE (TICAL PRATION PRINED GAMMA NG. 6/25/86 CRIPTION AND SSIFICATION BY
					PELBY R. 0=0TI			SITE	3:		[]	MAYWOOD L STORAG	* !!</td <td></td> <td></td> <td></td> <td></td> <td>HOLE</td> <td>MDL MISS-132R</td>					HOLE	MDL MISS-132R



	GI	EOL	.0G	SIC	DI	RIL	LL	OG		PROJECT		Fi	JSRAP			јов на. 14501	-138	SHEET I	F 1	HOLE NO. MISS-134R
ΠE		NTER	AM	YWO	00				COORDINAT	ES	•	1	18500,E1	1500			ANGLE	FROM HO		BEARING N/A
	/85	6	PLETE /25/	ED .	D	E E	NY 1RC	MORETI NMENT	AL_SERY	CES	M(BIL	D NODEL E B-33	Theresis	HOLE SEE	OVERBURDEN 6.0		1	עד .5' דער רוב	TOTAL DEPTH
CPE	RECOVE N		/10		C	DPE 8	XXES A	SAMPLE N/A	1	P OF CASP N/A	•c		5.3	DEPINE	3.5'/					/39.3'
AMPL	E HAMA N/)दभा /1	FALL			CASA	६ । छा	N HOLE: DA	ADICTH.			LOGGED 8	Yı	P	, YEN				
AND DUNETER	SAWPLER ADVANCE LENGTH CORE PUN	SAMPLE RECOVERY	JH. SANDLE BLOWS	IT COME		PR	ATER ESSIME ESTS		ELEVATION	E GB IN	CRAPHIC LOG	SMPLE		DESCRIPT	IOH AND CLAS	SFICATION *			WA.	TES ON TER LEVELS, TER RETURN, TRACTER OF
AND DIAMETER	SAMPLE	SALKPL!	SAMPL.	PEKOD RECO	12 COSS	76.5	Z PRESSURE P. P.S.I	25 C	45.3	0	CORP	S								LLING, ETC.
AUGEK, 6: THROUGHOUT.									42.3	3.0			3.0-6.0 SILTY, 1	: SANO	(SC-SIA), FII STIC, DIRY	ATE BROWN) 0.5 FT, CRAINED, COMOIST.			Ā	7/3/86
AUGEK,				:					39.3 37.8	5 6.0 7.5		1	<u> </u>	': SANDS	GRAY (N7). TONE: LIGHT FIRE GRAIN	GRANGE S IED, SILTY, I	BROWN WEATHE	.RED.		
										10 -	*******		BOTTON HOLE B	OF HO	LE AT 7.5 ED WITH CE	FT.	ONITE		RACIO CONT/ EDERL MAL I CORPO EBERG CORPO PERFO LIDGGI • DES CUA VISI EXA	RATION. THE ITICAL PRATION PRIMED GAMMA HG. CRIPTION AND SSIFICATION B'
 	\$\$:	SPLIT DENNIS	5200	N, STe	SHEL	BTY TL	BE;		SHTE	35			MAYWOOD 1 STORAG						HOLE	ro. MISS-134R



045048 HOLE NO. J08 NO. SHEET NO. PROJECT MISS-135R GEOLOGIC DRILL LOG 14501-138 1 0F 1 **FUSRAP** PE ARME ANGLE FROM HORIZ. COORDONATES SITE 900 **MAYWOOD** N/A N8500.E11602 INTERIM STORAGE SLIE ROCK OTA TOTAL DEPTH OVERBURDEN IFT) DRELL MAKE AND MUDEL HOLE SIZE BESUN COMPLETED DRILLER MORETRENCH 6.5 5.0' 1.5 6 MOBILE 8-33 6/26/86 6/26/86 ENVIRONMENTAL SERVICES

BOXES SAMPLES ELLTOP OF CASHG DEPTH/ELL TOP OF ROCK DEPTH/EL. GROUND WATER GROUND EL. COPE BOXES CORE RECOVERYFT JO 5.0'/41.7' 3.5'/43.2' N/A 46.7 N/A N/A CASING LEFT IN HOLE, DIA /LENGTH LOGGED BY: SAMPLE HAMMER WEIGHT/FALL P. YEN N/A N/A MATER SAMPLE RECOVERY
CORE PECOVERY
SAMPLE BLOWS
Y
FERCENT
FORCEN
RECOVERY
RECOVERY
RECOVERY
RECOVERY
RECOVERY NOTES ON FITE ISURE SAMPLE TYPE AND DIAMETER WATER LEVELS, SAMPLE TESTS Œ WATER RETURN, DESCRIPTION AND CLASSFICATION . CRAPHIC ELEVATION P.S.I ģ CHARACTER OF N N N DRELLING, ETC. LOSS W ş 46.7 0 370 F 157 S' ZND 6 0.0-0.5': SILT (ML): MODERATE BROWN (5YR3/4) RESIDUAL SOIL. 46.2 0.5 0.5-5.0' SAND, FINE GRAINED, SILTY. NON-PLASTIC TO SLIGHTLY PLASTIC. 6. THROUGHOU 0.5-1.5' MODERATE BROWN (5YR3/4) WITH WHITE SPECKS, WITH SLUDGE. 7/3/66 1.5-3.5': LICHT OLIVE GRAY (5Y5/2), THABER DEBRIS. SITE CHECKED FOR RADIOACTIVE AUGER, (5.0-6.5': SANDSTORE GRAYISH ORANGE PINK (5YH772) AND PALE RED (10R6/2), SOFT, FINE GRAINED, SILTY, WEATHERED, MOIST. CONTAMINATION BY EBERLINE ANALYTICAL CORFORATION. 41.7 5 40.2 6.5 BOTTOM OF HOLE AT 6.5 FT. EBEPLINE
ANALYTICAL
CURPORATION
FERFORMED GAMMA HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/3/86. 10 LÖSGING. DESCRIPTION AND CLASSIFICATION BY VISUAL EXAMINATION OF CUTTINGS. 15 20 25 30 HOLE NO. SITE SSISPLIT SPOOK STIFFIELBY TUBE MAYWOOD MISS-135R DEDENMISON: PEPTITOER OF THER INTERIM STORAGE STIF



			OCIC	` [וומר	1 1	00		PRO	JECT			100.40			J08 NO.		SHEET NO		HOLE NO. MISS-136R
SITE	U	LUL	OGIC			L L	UG	COORDIN	ATES			F L	JSRAP			14501	1-138 AMCI.E	FROM HOP		BEARNE
_			MAYN IS NIS	rood <u>Dra</u> (X SI								18690,E1	1500	HOLE SIZE	OVERBURDEN	<u> </u>	90°		N/A TOTAL DEPTH
BEGUN 6/26	5/ 8 6		pleted /26/86	•	DAFTE		MORETI	RENCH AL_SER	VICE	- 1			E 8-33		6"	9.0		3.	. 0'	12.0'
390C	RECOVE N	RTOT.	/10	•	COPE		SAMPLE N/A	S EL.	TOP 01	CASM	C G		D EL. 5, 7	DEPTHE	1. CROUND WA			DEPTH/E		/36.7'
إظلائة	E HALA	ER NE	GIT/FAL	L			1	N HOLE: E		нта	l_		LOGOED B	Y,		YEN		· · · · · · · · · · · · · · · · · · ·		
_	N/					MATER		N/A	·					········		. ICN				,
E TYPE AVETER	SAMPLER ADVANCE.	SAMPLE RECOVERY	SHOUT THE BLOOK	OVESY	PR	ESSUFFE TESTS		ELEVAT	юн	ОСТИ	SAPPIC LOG	SAMPLE		DESCRIPT	ION AND CLAS	SEICATION #			¥4	TES CM: TER LEVELS, TER RETURN, ANACTER OF
Sur AND DE	SAMPLE	SAMPLE CORE F	A DE		≠ ₹	PRESSURE P.S.I	PACTES	45.	7	0	dreco	S					, ,			LLING. ETC.
					-	_ لا ريان و		45.	2	-			I\ MODERA	te Broi	FD ROCK A VN 157R3/4	ND SILT (N), RESIDUAL	SOIL			
AUGER, 61, THROUGHOUT.										-			SILTY, N PLASTIC 0.5-4.0	SAND (ION-PLA DRY T	SC-SMP FIN STIC TO SL O MOIST. RED (5YR: WITH TRAC	.IGHTLY 3/4).				7/3/86 CHECKED FOR
AUGER, 6.										5 -			SPECKS	AND LI (TN ,EN	GHT GRAY , WITH SLUD OLIVE GRA	STRINGERS IGE.	(20%)		EBERLI CORPO	MINATION BY INE TICAL RATION.
								36.	7	9.0			BROWN	CICR5/4	SIONE, PALI), SOFT TO GRAINED, S IST, SATURI	MODERATE SILTY	-12.9	i	CORPO	(TICAL)RATION PRMED GAMMA
			ļ	_ _				33.	7	12.0		1_	FT.		OLE AT 12.0				AUCES	R REFUSAL AT
										20 -			HOLFE		ED WITH CE		IONITE		DES CLA VISI EXA	T. SCRIPTION AND SCRIBATION BY
-	£6.	201 17	SPOON, S	T: CUE	ELBY 11	BEI		SITE		35	1	1	MAYWOOD			<u> </u>			HOLE 1	
1			DNc PaPIT								INTE	RIN	STORAG	SITE					<u> </u>	M155-136R



	G	EOL	OGIC	DRII	LL L	.0G	P	ROLECT		FL	ISRAP			JOB NO. 14501	-138	SHEET NO. 1 OF 1	
SITE		INTER	MAYWO	OD RAGE S	ITE		COOPDONTES				18680,E1	1410				FROM HORIZ. 90°	BEARING N/A
86 GUN 6/26		COM	PLETED 26/86	DALL	DR .	MORETI	RENCH AL SERVIC				E B-33		HOLE SIZE 6"	OVERBLIRDEN 6. 0		7.0°	
COPE		meij /A	20	COPE	DOXES VA	SAMPLE N/A	S EL 109	OF CASIN	G	GROUNE 4!	5.7	DEP TH/E	2.5'	TER /43.2		DEPTH/EL TO	of of Rock .0'/39.7'
SALPI	E HAMA		SIT /FALL		cra	K LET	N HOLEI DIA-7	LENGTH			LOGGED B	Ys	P	.YEN			
TYPE	ADVANCE TRE PLIN	COVEHY	BLOWS COPE	P	WATER RESSURE TESTS		ELEVATION	DEP TH	201 :	SAMPLE		nescopti	ON AND CLAS	SECATION 9			NOTES ON WATER LEVELS, WATER RETURN,
SAMPLE TYPE AND DUNETER	SAMPLER ADVANCE	SAMPLE RECOVERY	SAMPLE BLOWS "H" PERCENT CORE RECOVERY	E LOSS	PRESSURE P.S.I	TIME TO STATE S	45.7	in the second	GRAPHIC LOG	75							CHARACTER OF DRALLING, ETC.
AUGER, 6°, THROUGHOUT.							41.7 39.7	4.0 - 5 - 6.0 - 10 - 15.0 - 20 - 25 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3			4.0-6.0' DPY TO 4.0-4.5' 4.5-6.0' 6.0-13.0' (5YR6/4 WEATHE!	SAND MOIST. BLACK LIGHT SANDS SOFT. RED, MOI	INE GRAINE INE. DLIVE GRAINE TONE: LIGH FINE GRAIN ST TO SAT	Y (5Y5/2). T BROWN EŪ, SLITY, URATED.		EBEAN COST	7 7/3/86 E CHECKED FOR MOACTIVE MITAMINATION BY RENE LYTICAL PORATION. ERLINE LYTICAL PORATION FORMED SAMMA SCINC. DESCRIPTION AND LASS FICATION BY REJUAL TON OF CUTTINGS.
			POON: STE				झार्	35	1	, M	AYWOOD STORAGE	CITE			· · · · · · · · · · · · · · · · · · ·	HOL	E NO. NISS-137R



_									PROJECT						J08 NO.		SHEET NO.		HOLE NO.
	G	EOL	OGIC	[RIL	<u>.L L</u>	.0G				FU	SRAP			14501	-138	1 OF	i	MISS-138R
ΠE	•	INTEE	MAYW IM STO	DOD RAG	י אני	75		COOPDINATE	S		N	8800,E1	1500			AULE	900	.	N/A
EGUN		con	PLTED /26/86		2	DR .	MORE T	RENCH	1		-	1 MODEL E B-33		HOLE SIZE	OVERBURGEN		ROCK FTJ		TOTAL DEPTH 9.0'
	RECOVE	RYGT.			COPE	BOXES VA	SAMPLE N/A		OF CASIN	G 29		EL.	DEPTHA	L. GROUND WA			DEPTH/EL.		739.0'
AMPL	E HANG		DIT/FALL					N HOLELDIA				LOGGED B	7;		YEN		J		
	N/ 			Τ-		WATER		N/A	7		_	<u> </u>		r	. IEN				
AND DIAMETER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	N. NECENT CORE RECOVERY		Pf	TESSURE	S	ELEVATION	ЮРТИ	CRAPHEC LOG	SMPLE		DESCRIPT	TION AND CLAS	SEICATION *			WAT.	ES ONL ER LEVELS. ER RETURN. PACTER OF
\$ 5	SAWPLE	CORE	SERIO SE		∡ র গু	PRESSURE P.S.A	SETUNES SENUTES	46.0	0	CRA					_				LING, ETC.
AUGER, 61, THROUGHOUT.				5	7 5	2NO. 6"	380 6	45.5	0.5			0.5-7.0° SILTY, S NON-PL 0.5-4.0° WHITE S SLUDGE	, RESID LIGHTLY ASTIC. MODER PECKS	MI MODERA UAL SOIL. ISC-SIAL FR PLASTIC I RATE BROWN (5YR3/4 WIT	E GRAINED. O (5YR3/4) Y TH N3), WITH	MTH	•	<u>Å</u>	7/3/86
AUGE								39.0	7.0			5.0-7.0	: LIGHT	OLIVE GRAY	r (5Y5/2).			RADIOA	MINATION BY
				\perp				37.0	9.0			FINE GR	AINED. Y	VEATHERED.	MOIST.			CORPO	RATION. PEFUSAL AT
									15 - 20 - 30 - 30 - 30 - 30 - 30 - 30 - 30			HOLF B	ACKFILL 7/3/86	ED WITH CE	MENT-BENT	ONTE		* DESC CLASS VISU VISU VISU VISU VISU VISU VISU VI	RETION AND SPICE TO BY
			SP00% ST:					SITE	35_	<u> </u>	<u></u>	AYWOOD					F	OLE MO	MISS-138R
	0=0	XENNISC	H; P=PIT (H	ER: (O-OTHE	X				INTER		STORAGE	SITE						W100 1000



	Gl	EOL	OG	IC	D	RIL	LL	.0G		PROJEC	1		FU	SRAP			JOB NO. 1450	-138	SHEET I	F 1	HOLE NO. M155-139R
E		INTER	MA	YWO	00				COORDINAT	ES			N	8900,E1	1500			ANGLE	90°	RIZ.	BEARING N/A
	/86	6	PLETE /26/	9	C	E E	NY IRO		L SERV	ICES		MO	BILI	P MODEL E B-33	1===:=	HOLE SIZE	OVERBURDEN 7. (1	5.0'	TOTAL DEPTH 10.0°
PE I	RECOVE N.		700		ľ	CORE I	BOXES /A	SAMPLE N/A	•	POFCA N/A	ISING	; GA		5. 5	DEPTHYE	2.0'/	43.5'		DEF 147		/38.5'
MP L	N/		(C) (T) (C)	FALL			CASE	G LEFT :	N HOLE, DA	.ADGTI	H			LOGGED B	Yı	Р	YEN				
ETER	SAMPLER ADVANCE LENGTH COPE RUN	COVERY	SALLPIE BLOWS	T CORE		FR	FATER ESSURE TESTS		ELEVATION	- 14.60 - 14.60		GRAPHIC LOG	SAMPLE	<u> </u>	DESCREPTI	IDN AND CLAS	SFICATION 3			W.	TES ON: TER LEVELS, TER RETURN,
AND DIAMETER	SAMPLER LENETH	SAMPLE RECOVERY	SALAPIE	PENCEN RECK	<u> </u>	3	PPESSURE P. P.S.)	S THE S. P.	45,5	8	-	CRAPH	2								ARACTER OF Eling, etc.
		#			1	6.	<u>env s</u>	300 0	44.5	1.0	口		•	(5YR3/2 1.0-7.0': VERY SI), RESIDI SAND (I ETY, NO DUSKY	ID: GRAYISH JAL SOIL. SC-SNI: FINI N-PLASTIC. BROWN AND B7/6), CONT	E GRANED.	UΕ		Ā	7/3/86
AUGER, 6°, THROUGHOUT.									38.5	5 7.0	1111			6.0-7.0 (IOYR6/	PALE 2).	ISH BLACK YELLOWISH STONE: LIGH	BROWN			CICAR	CHECKED FOR
									35.5	10	<u> </u>			WEATHE	RED, SA	TIRE GRAIN TURATED (S	3.0-10.0 F1).		FRER	AMINATION BY INE YTICAL ORATION.
										1:				HOLE B GROUT,	ACKFILLI 7/3/86	ED WITH CE	MENT-BENT	ONITE		CORP	YTICAL Oration Ormed Gamma
										2	0									VIS EX	SCPIPTION AND ASSIFICATION E USE AMINATION OF TTINGS.
ļ	<u></u>					ev 11			SITE		35	1					· <u>-</u>			HOLE	
	0 =1	SPLIT Dennis	ON: Po	PΠ CI€	R: O	> OTHE	À					INTE	MIS	IAYWOOD SIORAG	SITE					1	MISS-139F



	<u></u>	ΓΛΙ	00	<u>.</u>	וומת	1 1	70		PROJECT					 	JOB NO. 14501		SEE	но. F 1	HOLE NO. MISS-142R
SITE	<u> </u>	LVL				LL	.00	COORDINATE	s			ISRAP			14301		FROM H	ORTZ.	BEARING
			IM S		AGE SI				10	MER I MA		19000,E	11500	HOLE SIZE	OVERBURDEN	GT 2	90°		N/A TOTAL DEPTH
3EGUN 6/2		1 '	PLETEE /27/6					AL SERVI	CES	M	0B1L	E B-33		6"	3.5	j'	1	4.5'	8.0'
CORE	RECOVE N.		/20			BOXES VA	SAMPLE N/A		OF CAS N/A	** C	ROUN 4	5.5	DEPTH/E	L GROUND WA	/43.5'		DEPTHO		/42.0'
SAMP	E HALL		GHT/F	ALL		CVZ	C LEFT	M HOLEI DIA. N/A	LEIGTH			LOGGED	BY:	F	YEN		=		
SAMPLE TYPE AND DIMETER	SAMPLER ADVANCE	RECOVERY SECOVERY	SAMPLE BLOWS	OVERT		WATER RESSURE FESTS		ELEVATION	GCP 714	GAAPHC LOG	SAMPLE	-	DESCRIPT	ION AND CLAS	SFICATION			19 5 195	TES ON. ITER LEVELS. ITER PETURN. WRACTER OF
NO ON	SAMPLE	SAMPLE	NAMES OF	2	8 = 3	PPESSURE PPESSURE PPSJ	SAN NEC.	45.5	0	8									ELING, ETC.
			ļ <u>.</u>	\dashv	8ST 6"	2HD 6.	340 6,	45.0	0.5	+	╬┪	∖ (5YR3/	4). RFSD	TER SOIL.	ATE BROWN				
AUCER, 6', THROUGHOUT,								42.0	3.5 5			0.5-3.1 SILTY, 0.5-1.5 1.5-3.5 3.5-8.0 (5YRE)	SEIGHTEY SEIGHTEY ': BLACK ': PALE ()': SANDS '4), SOFT	(SC-SM); FII FLASTIC. (ND.	NE GRAINED, /2), WITH SL BROWN ED, SILTY,			PADIC CONT EBER	CHECKED FOR ACTIVE AND TION BY
¥										1								V.101	YTIČAL ORATION.
								37.5	10			HOLE		ELE AT 8.0	FT.	OPRIE		COMP PERF LOGG DES CLA EXA	CRIPTION AND SSIFICATION BY
					HELBY T			SITE	35			1AYWOOD	* 2116		,			HOLE	NO. MISS-142R



																1 10				HOLE NO.
	GI	EOL	OGIC	D	RIL	LL	.0G			CLECT		FL	SRAP			14501	-138	<u> </u>	¥ 1	MISS-143R
TIE	,	NTEE	MAYWO	00	s	TE .		COOPE	MTES			N	1 9 100,E1	1590			AMELE	FROM H		N/A
ESLN		CON	PLETED /27/86		DERLE	R	MORET	RENCH					D MODEL E B-33		HOLE SEZE	OVERBLEDEN		ROCK &	กับ 1.5'	TOTAL DEPTH
	NE COVE			7	COME N	OXES	SAMPLE N/A	is EL	TOP (S CASE		ROLIN	5. 9	DEPTHAT	0.5	/45.4'		DEPTH	10_10+ (3.5'	F ROCK /42.4'
MP1	E HANG	ER VE	ENT/FALL				6 LEFT	IN HOLE	DW./LI				LOGGED !	TY:		P.YEN		<u>i</u>		
-	N/			Г		BATER		N/		·		П	1							
ETER	SAMPLER ADVANCE LENGTH CORE REIN	COVERY	ERY COME BLOWS		•	ESSURE TESTS		~ ~		z	951	SAMPLE		NCC000T	non and or	ISSFICATION®			WA	TES ON TER LEVELS, TER RETURN,
	THE C	PLE RE	PERCENT CONE "W" SAMPLE BLOWS	10%	_ Z	PPESSURE P.S.I	AN NEW STATES	ETEA V.	irm	HL 430	GRAPHIC LOG	3		ULSQNF I					CH	PACTER OF LLBIG, ETC.
	313	3 8	N 12	2	3	20 6	30 6	7.5		0		\sqcup	0.0-0.5	': SET (ML): MODE	RATE BROWN			∇	7/3/86
AUGER, 6", THROUGHOUT.								45.	. 4	0.5			0.5-3.5 0.5-3.5), RESID : SAND	UAL SOL. (SC-SM): D	RATE BROWN USKY BROWN	-		٠ <u>١</u> ٠	HECKED FOR
₹ 200										=			NON-PL	ASTIC, D	Grained, S RY.	USKY BROWN HLTY,			RADIOA CONTA	ICTIVE MENATION BY
1.6.1								42 40.		3.5			(5YR6/-	 SOFT 	. FINE GRA	IT BROWN NED, SILTY,			ANALY CORPO	TICAL RATION
AUGE!	<u> </u>	i	l 	\vdash	_	-		70.	. J				BOTTO		RE AT 5.0		Δ. IT.F.		EBERL	NE .
		 								-			GROUT,	7/9/86	en win n	EMENT-BENT	UNITE		ANAL CORPL PERF	TICAL ORATION ORMED GAMMA
		1									}								LOGGI	NG.
		i								10 -	}									
		i i									1									RIPTION AND
										:	1								VISL	SSIFICATION BY IAL MENATION OF
											-								מוז	TINGS.
		:				!				15 -	1									
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		i I								30	7									
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_		<u> </u>		1	-	<u> </u>	1	SETE		35	<u> </u>								HOLE I	
			SPOOM ST								INTE	RIM	DOONYAL STORAG	SITE					1	MISS-143R



	G	EOL	OGIC]	RIL	Ll	.OG		\perp	D.ECT		FL	ISRAP			1450	-138	SHEET NO.	HOLE NO. MISS-144R
SITE		INTER	MAYWO IN STO	XOD RAC	E SI	TE		COORDIN	MTES				19100,E1	1705				FROM HORIZ.	N/A
5/2		COL	PLETED /27/86			D.	MORET	RENCH AL SER	NIVE				E 8-33		HOLE SIZE	OVERBLEDEN 3.5		ROCK OTJ	TOTAL DEPTH 5.0'
COPE	recove N	RYGT.	(20		CORE	MOXES	SAMPLI N/A	ᄄ	TOP O	F CASIN	G GF		5. 9	DEPTH/	2.5'/			DEPTH/EL. TOP	of Rock 1/42.41
SMPL	E HAM		ON FALL		<u> </u>	cva	NG LEFT	N HOLE:		HTOM			LOGGED B	Yi,	P	.YEN			
TYPE	SAMPLER ADVANCE LENGTH CORE RUN	SAUPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS 'N' PERCENT CONE RECOVERY		Pi	WATER ESSURE TESTS		ELEVAT	10M	БЕРТИ	GRAPHIC LOG	SAMPLE	<u>. I</u>	DESCRIPT	AND CLAS	SEICATION *			OTTES ONE ATER LEVELS, ATER RETURN,
SAMPLE AND DIA	SAMPLER ENCTH O	CORE RE	SAMPLE BLOWS 'N' PERCENT COPE RECOVERY	1	z 3	PPESSURE P.S.I	20 c.	45.			CTAPH	\$							HARACTER OF RELENG, ETC.
		<u> </u>		S	7 6:	200 6	380 6	45.		0.5			(5YR3/4), RESID	ML), MODER, DAL SOIL. (S.C-SV): BR RAINED, SIL	AWNICH RIA	.CK		
AUÇER, 6°, THROUCHOUT.								42. 40.		3.5			MOIST.	CAMPO	TONE: LIGHT FINE GRAIN	200.40		- \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. 7/9/86
AUĢ		and more than the same of the											BOTTOM	OF HO ACKFELL	LE AT 5.0 ED WITH CE	FT.	ONITE	CONT EBER ANAL	CHECKED FOR DACTIVE AMINATION BY LINE YTICAL CRATION.
										10 -								EBER ANAL CORF PERF LOGO	LYTICAL PORATION PORMED GAMMA
										15 -									
										20 -								CL Vis Ex	SCRIPTION AND ASSIFICATION BY SUAL AMBIATION OF TTINGS.
										30 -									
-			SPOONSTE					SITE		35	1	1	LAYWOOD SIORAGE					HOLE	NISS-144R



INTERIM STORAGE SITE N9020, E11600 90° N/A EGUN COMPLETED MORETRENCH FNY'RONNENTAL SERVICES MOBILE B-33 6° 4.5' 7.0' ORE RECOVERYFT/70 COME BOXES SAMPLES ELL TOP OF CASING N/A N/A N/A N/A N/A N/A N/A N		G	EOL	.0G	IC	DRII	LL	.0G	T	PROJE	.T	F	USRAP			JOB HO. 14501	-138	SHEET NO.	HOLE NO. MISS-145R
1000000011 1.0	SITE			RIM S	TOR	ICE S	ITE		шоные	1157	· -			1600	_			90°	N/A
TOUR BOOK THE LOCATION AND CLASSIFICATION AND CLASS	6/2	7/86	6	/27/8			ENVIR	DIMENT	AL SERV	LICES		081	E B-33	DEP TH/E	6"	4.5		2.5'	7.0'
THE PROPERTY OF THE PROPERTY O	SAMPL		·-	in nec	ALL.	N					<u>_</u>	4			1.5'/	44.0'		4.5'	/41.0'
MEAN					- 1	···	WA TED		N/A			1-1			P	.YEN			
45.0 CO-0.5' ST OLD MODERATE BROWN OS-45' SAME FARE SHARED, ST CHECKED FOR RASOACTIVE OS-25' BROWNEN BLACK ISTRZ/D. SLOGE. SLOGE. SLOGE. SPECKS GYRZ/Z WITH MYD. SLOGE. SPECKS GYRZ/Z WITH MYD. SPECKS	PLE TYPE DIAMETER	EN ADVANCE H CORE RUM	RECOVERY RECOVERY	HE BLOWS	COVERY	M	ressure Test s		ELEVATIO	H Hade	96 L96	SMPLE	1	DESCRIPTI	OH AND CLAS	SEICATION ®		WA'	TER LEVELS, TER RETURN,
41.0 5 SASS SAND SC SAND FRE STARRED, T-3-86 SASS SAND SC SAND FRE STARRED, ST CHECKED FOR SASS SAND SC SAND FRE STARRED, ST CHECKED FOR SASS SAND SC SAND STARRED, ST CHECKED FOR SASS SAND SC SAND S	¥ 8	SAVET	SAMP	10 P		S = 3	25.5.9 1.2.9	A × 2	45.5		_								
38.5 7 - SOUTH OF HOLE AT 7.0 FT. BOTTON OF HOLE AT 7.0 FT. HOLE BACKFALLED WITH CEMENT-BENTONITE CASSFICATION BY LEARNING TON DESCOPPTION AND CLASSFICATION BY LEARNING TON DESCOPPTION OF CUTTINGS.	AUGER, 6", THROUGHOUT.					S		P	45.0				(5YR3/4) 0.5-4.5': SILTY, M 0.5-2.5': 2.5-3.0': SLUDGE. 3.0-4.5': SPECKS	, resdi Sand (Dist. Brown Light Dusky (5yr2//	JAL SOH. SC-SM); FIN SH BLACK (GRAY (N7), BROWN WIT S. WITH N7).	E GRAINED, ISYR2/D. WITH H LIGHT GR	AY	SITE CORPOR	HECKED FOR CTIVE MINATION BY WE IRCAL CATION.
HOLE BACKFILLED WITH CEMENT-BENTONITE ROUT, 7/3/86. DESCRIPTION AND CLASSFICATION OF CUTTINGS.					\rightarrow			ì	38.5	7			(5YR6/4) WEATHER	SOFT. EL DRY	FINE GRAIN TO MOIST	ED, SILTY,		ANALY COPPOR	FICAL RATION
										20			GROUT, ?	087 ii.LE	L' WHITE CER	ENT-BENTO	NIL	*DESCI CLASSI VISUAL EXAMIN	RPTION AND FICATION BY
						LBY TUE		s	TE.	35		W	YWOOD STORAGE					HOLE HO.	MISS-145R



	G	EOL	OGIC	DRI	LL L	.OG		PROJEC	T	F	ľ	SRAP			иов но. 14501	-138	SHEET HO.	HOLE NO. MISS-146R
SILE.			MAYWO	RACE S			COORDINAT	ES				3900,E1	1300			ANGLE	FROM HORIZ. 90°	BEARING N/A
6/3(0/86		PLETED /30/86	DRELL	•	MORE TO	AL SERV					B-33		HOLE SIZE	OVERBURDEN		ROCK OFTS	TOTAL DEPTH
CORE	recove N	MET. /A	/20	1	MOXES VA	SAMPLE N/A		P OF CA	2462	GROU	ND 46.		DEPTH/	3.0'	TER /43.8'		DEPTIVEL TOP	OF MOCK '/40.8'
SAMP		ER WE	DOT/FALL		CAST	IC LEFT	N/A	J.ENGTH				LOCCED BY	fa .	F	. YEN			
SAMPLE TYPE AND DANETER	SAMPLER ADVANCE LENGTH CORE FUN	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS "W" PERCENT COME THE PROPERTY THE PROPERT	F	WATER RESSURE TESTS		ELEVATION	DEPTH	STAPHEC LOG	SAMPLE		1	DESCRIPT	TION AND CLAS	SFICATION *		₩/	TIES DN: LITER LEVELS, LITER RETURN,
SALES AND DA	SAMPLE	SAMPLE	PERCE RECE	25 A 43	PPESSURE PPESSURE	THE STATES	46,8	0	SALP.	3								MRACTER OF BLLING, ETC.
AUGER, 6", THROUGHOUT.							40.8 40.3	5.5				(5YR3/2) 0.5-6.0': 5il Ty, di 0.5-3.0': 3.0-3.5': ASH. 3.5-4.5': WITH N9) 4.5-5.0': 5.0-6.0':	RESID SAND Y TO MODER MEDIUM BLACK MODER LIGHT	MOIST. ATE BROWN I DARK GRA WITH WHITE ATE BROWN OLIVE GRA	E GRAINED, (5YR3/4), (Y (N4), WITH SPECKS (N (5YR3/4), ((5Y5/2),		SITE C RADIO CONTA EBERL ANALY	MINATION BY INE
								10 15 20 25				CLAYEY 6.0-6.5': (5YR6/4) TO MODE (GRAINED, BOTTOM	AND SI SANOS TO DU RATEL SILTY, OF HO CKFILL	EMI-PLASTIC TONE: LIGHT ISXY RED (S Y HARD, FIN WEATHERED LE AT 6.5 ED WITH CE	BROWN 5483/4), SOF E TO MEDILI , MOIST.	M 	AUGER 6.5 F EBERI ANAL CORPÉ PERFI LOGGI •DESC CLAS	REFUSAL AT INE CTICAL RATION PRIED GAMMA NG. REPTION AND SEFICATION BY CNATION OF
			POON, STESI N PERITOHES			S	TE.			<u></u>	LAY	WOOD TORAGE					HCLE NO	NISS-146R



SITE MAYOOD INTERIM STORAGE SITE BESINE CONFLICTED DOBLIN MORE TRENCH EASY COMPLETED CONFLICTED CO	E MA
NERDO STATE HAMBER RESIDENT FIELD CASHE DELL MAKE AND MODEL BETWEEN STATE OF PLANTAGE STEEL BY TO SAME DELL BETWEEN AND CLASSFICATION 9 00 7 2.5 1 TO 2.5 1	SS-147R
6/30.86 6/30/86 FANY RONGE TREACH FANY RONGE TO MCGET TO MCGET RATE TO MCGET RONGE FANY RONGE TREACH FANY	N/A TAL DEPTH
N/A N/A N/A N/A N/A N/A N/A N/A	11.5'
WATER RESIDENCE TESTS LEVATION BY A STATE THAT THE STATE THAT THAT THE STATE THAT THAT THAT THAT THAT THAT THAT	
PRESSURE TESTS THE PROPERTY OF THE TESTS THE PROPERTY OF TH	
100-3:0: SET (ME): GRAYISH BROWN (5YR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (5YR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (5YR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8:0: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH BROWN (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GRAYISH (SUR3/2), RESIDUAL SOIL, DRY TO MOIST. 100-8: SET (ME): GR	LEVELS, RETURNL
100-3:0: SLT (ML): GRAYISH BROWN (5YR3/2), RESIDUAL SOL, DRY TO MOIST. 100-8:0: SLT, RESIDUAL SOL, DRY TO MOIST. 100-8: SLT, RESIDUAL	
BROWN SPECKS (NIWITH 10YR6/2). 5.0-9.0: LIGHT DLIVE GRAY (5Y5/2), WITH CLAYEY SLUDGE. 36.3 9.0-1.5': SANDSTONE: LIGHT BROWN (5YR6/41, SOFT 10 MCDERATELY HARD, FINE GRAINED, SILTY, WEATHERED, SATURATED. 33.8 11.5 BOTTOM OF HOLE AT 1.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86,	'ETION BY L ONL -B6 L ON
HOLE BACKFILLED WITH CEMENT-BENTONITE U.5 FT. GROUT, 7/9/86. *DESCRIPTION OF CLASSIFICATION OF CLASSI) Gamma .
15 T SAMMATIC CUTTINGS.	ION AND ATION BY ON OF
SS=SPLIT SPOON; ST=SHELBY TUBE; STE MAYWOOD MI p=DEIDHISON; P=PITCHER; O=OTHER INTERIM STORAGE SITE MI	



SITE MAYWOOD COMPMATES NBBOO, E11400 90° INTERIM STORAGE SITE NBBOO, E11400 90° BESIN COMPLETED DIMLER MORETRENCH MORETRENCH MOBILE B-33 6° 4.5′	NO. HOLE NO. OF 1 MISS-148R
MAYMOOD INTERIM STORAGE SITE BEEN COMPLETED 6/30/86 6/30/86 6/30/86 6/30/86 6/30/86 6/30/86 COMPLETED COMPLET	CRIZ. BEARING
DRILLER MORE TRENCH 6/30/86 6/30/86 6/30/86 6/30/86 6/30/86 FINT RONG MORE TRENCH MORE TRENCH FINT RONG MORE TRENCH MORE TRENCH FINT RONG MORE TRENCH MORE TRE	° N/A
COME RECOVERYOFICAD NAA LOGGED BY: P. YEN CASING LEFT IN HOLE: DAY/LENGTH NAA LOGGED BY: P. YEN DESCRIPTION AND CLASSFICATION 4 LOGGED BY: P. YEN LOGGED BY: DESCRIPTION AND CLASSFICATION 4 LOGGED BY: P. YEN DESCRIPTION AND CLASSFICATION 4 LOGGED BY: P. YEN DESCRIPTION AND CLASSFICATION 4 LOGGED BY: P. YEN LOGGED	2.0' TOTAL DEPTH 2.0' 6.5'
SAMPLE MAMER WEIGHT/FALL N/A CASHC LETT IN HOLE DAY/ENSTH N/A P. YEN DESCRIPTION AND CLASSFICATION DESCRIPTION AND CLASSFICATION DESCRIPTION AND CLASSFICATION OC.O-LS': SILT ORD: MODERATE BROWN (SYR3/4); RESDUAL SOIL. 100 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/EL TOP OF ROCK 4.5'/40.8'
43. 8 43. 8 L5-4.5': SAND (SC-SM): FINE GRANED, SL TY, NON-P_ASTIC, DRY, L5-3.0': BLACK OND, 3.0-4.0': LIGHT OLIVE GRAY (SYS-/2), WITH SLUDGE, 4.0-4.5': GREENISH GRAY (SGY6/D). 4.5-6.5': SANDSTONE: PALE RED (COR6/2) TO GRAYISH RED (SR4/2), SOFT, FINE GRAINED, SILTY, WEATHERED, DRY TO MOIST. BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	
43. 8 43. 8 L5-4.5': SAND (SC-SM): FINE GRAINED, SL TY, NON-P_ASTIC, DRY, L5-3.0': BLACK (ND). 3.0-4.0': LIGHT OLIVE GRAY (SYS/2), WITH SLUDGE. 4.0-4.5': GREENISH GRAY (SGY6/D). 45-6.5': SANDSTONE: PALE RED (COR6/2) TO GRAYISH RED (SR4/2), SOFT, FINE GRAINED, SILTY, WEATHERED, DRY TO MOIST. BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	MOTES CON WATER LEVELS, WATER RETURNS
43. B 44. B 40. B 5 40. B 6. 5 6. 5 7 80. O-LS': SILT ONL' MODERATE BROWN (SYR3/4), RESDUAL SOIL. L5-4.5': SAND (SC-SM): FINE GRANED, SL TY, NON-P_ASTIC, DRY, L5-3.0': BLACK (ND). 3. O-4.0': Light Olive GRAY (SYS/2), WITH SLUDGE 4. O-4.5': GREENISH GRAY (SGY6/D). 4.5-6.5': SANDSTONE: PALE RED (COR6/2) TO GRAYISH RED (SR4/2), SOFT, FINE GRAINED, SILTY, WEATHERED, DRY TO MOIST. BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	CHARACTER OF DRILLING, ETC.
MOIST. BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	7-9-86
MOIST. BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	SITE CHECKED FOR RADIOACTIVE CONTAMENATION BY EBERLINE ANALYTICAL CORPORATION.
BOTTOM OF HOLE AT 6.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE GROUT, 7/9/86.	EBERLINE ANALYTICAL
20 H 15 H 15 H 17 H 17 H 17 H 17 H 17 H 17	CORPORATION PERFORMED SAMMA LOGGING. *DESCRIPTION AND CLASSIFICATION BY VISUAL EXAMINATION OF CUTTINGS.
SS-SPLIT SPOON, ST-SHELBY TUBES D=OENISSON P=PTICHERS O=OTHER STE MAYWOOD INTERIM STORAGE SITE	



	G	EOL	OGIO		ORIL	LL	OG		Pi	ROJECT			- U	SRAP	<u> </u>		JOE HO. 14501	-138	1	F 1	HOLE NO. MISS-149R
SITE		INTER	MAY IN ST	0000	ו מב כז	TC		C00#	DOUTES				N	8900,E1	1400			ANGLE	FROM H		BEA TOG N/A
6/30		COF	730/8		DRALLE	3	MORETI INMENT	ENC	H	1				HODEL B-33		HOLE SIZE	OVERBURDEN		ROCK OF	נדי 1.5'	TOTAL DEPTH 5.5'
	RECOVE			-	COPE	DOXES	SAUPLE N/A	5	EL. TOP		MG	GROL		. 2	DEPTHAT	L GROUND WA			DEPTH	EL. TOP 6	F ROCK /40.2'
SALPL		er ve	D(T/FA	1			IG LEFT	M HO				L		LOGGED B	Yı.		.YEN		J		
TYPE ETER	 ,		BLOWS	i i	PF	WATER ESSURE TESTS		F. F.	VATION	2	200	CALCHE		<u> </u>	nccrosot	HOM AND CLAS	SEIPATION B			WA"	res com ren levels, ren return,
SAMPLE TYPE AND DUNETER	SAMPLER LENGTH C	SAMPLE R	SAMPLE BLOWS "N" PERCENT CONE	LOSS LOSS	z 3	PRESSURE P.S.I	M THE ON IN		4, 2	O FF	SPAPING LOG	3	5							CN	PRACTER OF LLING, ETC.
				╁	£T 6'	210 6	370 6		3.2			П		(5YR2/2), RESID	ALL: DUSKY I UAL SOL. SC-SN): FIN		-		=	7-9-B6
к џсев, 6., тняоисноит.								4	0.2					SILTY A DRY TO 1.0-2.51: (NI WITH 2.5-4.01	ND CLA MOIST. BLACK NT).	YEY. SLIGHT	GRAY SPE	7		RADIOA CONTAI EBERLI ANALY	VANATION BY NE
AUGER								-3	8.7—	5.5	-1:/: - - -	2	_	WEATHE	RED. DR	ONE: LIGHT FINE GRAIN Y TO MOIST LE AT 5.5	Fi.			EBERLI ANALY CORPO PERFO LOGGIN	TICAL RATION RMED GANMA
										10				GROUT.	ACK-ILL 7/9/86	ED WITH CE	Menitoeni	UNITE		•DESCI CLASS VISUAL	RIPTION AND FICATION BY IATION OF
										15											
										20	بدياعين										
										25	-										

										30	****										
										35											
			SPOON; S Ne Papit					SITE		1 23			M	AYWOOD STORAGE	CITE					HOLE N	MISS-149R



																		JOB N		SHEET	<u> </u>	HOLE NO.
	GI	EOL	00	iC	DRI	LL	L(OG		PR	0.ECT		F٤	JSR.	AP				01-138	10	¥ 1	MISS-150R
ΠE			М	YWO	00				PROCES	MATES			h	189	00,E1	1200			AMGLE	90°		BEARING N/A
CLIN		COM	PLETE	D	ACE S			ORE TE	E		DR	EL MAN					HOLE SIZE	OVERBURD	. 0'	ROCK C	713 2.0'	TOTAL DEPTH
	/86		/30/ /20	86		ENV	RO	SAMPLE	AL S	RVICE	S CASH		ROUM	០១		DEPTH/	L. GROUND 9	ATER		·	EL. TOP (F ROCK
	N	/ A				WA .		N/A	1	N. Et DAL/LI	/A		4(6.8	DECED B	<u> </u>	0.5	/46.3'		<u> </u>	8.0	/38.B'
MPL.	E HUMA N			PALL.			ASHIL	LLEFT 1		/A	ene in							P.YEN				
METER	SAMPLEN ADVANCE	SAMPLE RECOVERY	SAMPLE BLOWS	PERCENT CONE RECOVERY	1	WATE PRESSI TEST	S.		ELEV	ATION	DCP TH	DAMPIC LOG	SAMPLE			Descrip1	ION AND CLJ	assekation '	•		WA WA	TES ON: TER LEVELS, TER RETURN, IRACTER OF
AND DIAMETER	ENCTH	SAMPLE	SAMPLI	2 2 2 2 2 2 2 2 2 3	1035 1035 1035 1035	PPESSURE		THE SHE	4	5.8	0	ES PA	٥									LLBG, ETC.
AUGER, 6", THROLICHOUT.					ST 6				3	e. 8 6. 8	5 - 10 - 20 - 25			6	L2-B.O' LTY, M L5-B.O' SYR3/4 WEATHE BOTTON HOLE B	SAND GREEN GREEN SOFT RED. MG	SC-SM); FI ISH GRAY STONE; NO FINE GRAI IST TO SI SLE AT IO. ED WITH G	DERATE BRINED, SILTY, ATURATED.	own		EBERLI ANALY CORPO EBERLI ANALY CORPO DERFO LOGGIA	TICAL RATION. NE TICAL RATION RMED GANMA G. RIPTION AND RIPTION BY NATION OF
											30 35	1111111111									HOLE	
Γ	ž	SPLIT	SPOO	M STE	SHELBY EPu 0=01	TUBE)		SILE					HA'	YWOOD	E_SLIE					nA.I	MISS-150F



														<u> </u>				· · · · · · · · · · · · · · · · · · ·
	G	EOL	.0G	IC	DRIL	LL	.0G		PROJECT		FU	SRAP			JOB HO. 14501	-138	SHEET NO. 1 OF 1 FROM HORIZ.	MISS-151R BEARNG
SITE		INTER	MA' S Mis	YWOOI TDRA	D GE_SI	TE .		COORDONATI				19000,E	1300				900	N/A
6/30		COF	/30/	D	DPALL		MORETI	RENCH AL SERV	↓			E B-33		HOLE SOT	OVERBURDEN 7.2		ROCK FTJ 0.3'	TOTAL DEPTH 7.5'
CORE		THE TO	/20		COPE	DOXES /A	SAMPLE N/A	S EL 10	P OF CASH	e c		5. 7	DEPTH/I	1.5'	TER /44.21		DEPTH/EL TO	P OF ROCK 21/38.51
SAMPL		MER NE	PA THEK	MT.	.L	CAS	& LEFT	N HOLE: DIA	ADETH.			LOGGED !	Y,	F	YEN	 -		
SAMPLE TYPE AND DUNETER	SAMPLEN ADVANCE LENGTH CORE PAN	_1	H.	RECOVERY	Pf	WATER ESSURE TESTS	S	ELEVATION	DEPTH	GRAPHC LOG	SAMPLE	<u>.l</u>	DESCRIPT	XXII AND CLAS	SEICATION +			NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF
88	SAMPLE	SANTE	NAZ I	F .	ĝ = 3	PHESSUME P.S.I	N N N N N N N N N N N N N N N N N N N	45.7	0	8								DPELLING, ETC.
AUGER, 6", THROUGHOUT.		-			57 6	280 6	380 G	43.7	5 -			2.0-7.2 Sil TY, (2.0-3.0 3.0-4.0 Siludge 4.0-7.0	: SAND PRY. : BLACK :: LIGHT :: LIGHT	OND, GRAY (N7), OLIVE GRA	E GRAINED, WITH Y (5Y5/2).		SITE RAD CON EBE ANA COR	_ 7-9-86 CHECKED FOR DACTIVE TAMBLATION BY PLINE LYTICAL PORATION RUSE LYTICAL
								38.2	7.5			BOTTON	OF HO	TONE: LIGHT FINE GRAIN IST. HE AT 7.5 ED WITH CE		CNITE	COR PER LOG *DE CLA VISI FXA	PORATION FORMED GAMMA GING. SCRIPTION AND SSIFICATION BY
-					ELBY TO		1	SITE	35	1	<u></u>	LAYWOOD	·				HOL	NISS-151R
	<u>~</u>	DEHOUS	No PaP	TOER	O=OTHE	X				INTE	RIN	STORAG	SIIF					M200 10111



					001		^^		PRO	ÆUT							J08 N		SHEET		HOLE NO.
	G	FOF	.06		UKI	<u>LL</u>	06	COORDBIA				F	US	RAP			145	1-138	FROM H	OF 1	MISS-152R BEARING
SITE		INTER	MA S MIS	YWOO	D AGE SI	ITE		wonders						105,E1	1305				909		N/A
8E SUN 6/30		CON	PLETE /30/	D	OMLL	ER	MORE TE	RENCH NL SERY	100		TEL MA			HODEL B-33		HOLE SIZE	OVERBURDI	,0' .CT-10 H:	RCCX G	2.0'	TOTAL DEPTH 5.0'
	RECOVE	RYF1.			COPE	DOXES	SAVAPLE N/A	S EL.	OP OF	CASE	6	ROUT	4.		DEPTH/E	L. GROUND #	ATER /43.2'	-	DEPTH	TEL TOP (# ROCK /41.7'
SAMPL	E HAND)GAT /T	ALL	<u> </u>			N HOLE: DI						LOGGED B	Υ,		P.YEN	_	1		
<u> </u>	,	/A ·	1	Т		WATER		N/A			γ	7-	ᆛ				r . IE.IV				
EE	SAMPLEH AGVANCE LENGTH CORE RUM	SAMPLE RECOVERY CORE RECOVERY	Sec	₩ 20 20 20 20 20 20 20 20 20 20 20 20 20	P	RESSURE TESTS		:		-	8	۳								WA	TES CRA TER LEVELS.
PE	F 69	F 850	SAMPLE BLOWS	ECOVE.	y .	SUR_	TES	ELEVATIO	N	11.00 HT-00	GRAPHIC	SAMPLE			DESCRIPT	ION AND CLA	ISSEICATION (•		CH	TER RETURN. MACTER OF LLING, ETC.
33	300	3 8	3	5-	21 €. Se 2	P.S.I	STIME SHAUTES	44.7		0	13										
	<u> </u>				<u></u>			43.7				Ц	l	(5YR3/2	J. RESID	ID GRAYIS UAL SOIL				幸	7-9-86
										:]:			FINE GR	AINED, S	SC-SM); B LTY, DRY,	LAUR INII.			SITE C	HECKED FOR
F.05								41.7	·	-			H	3.0-5.0°	SANDS	TONE: DUS	KY RED INED, SILTY			RADICA CONTA	CTIVE MINATION BY
9.1		ļ 						39.7	,	-5			Ļ	WEATHE	RED. DR	Y TO MOIS	₹ 7.			EBERU AHALY Todržo	TICAL RATION.
AUCER, 6. THROUGHOUT.]			=			HOLE B	ACKFILL	ED WITH C	EMENT-BEI	ITONITE		EBERL ANAL 1	
											-	İ		GROUT.	7/9/86	•				CORPO PERFO	RATION RMED GAMMA
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-		4 SP1 IT	55,000	N STat	SHELBY	TUBEL	_1	SITE	٠	35	1		u.	AYWOOD						HOLE	
	D	DENM	ON P	PITCH	R: O-OT	KER		<u> </u>			INT	FRI	X.	STORAG	E SITE						MISS-152R



Q																	T.		
	GI	EOL	OGIC	D	RIL	LL	OG		PROJECT		FL	SRAP		·	JOB NO 1450	1-138	SHEET I	F 1	HOLE NO. MISS-153R
SITE	1	NTED	MAYWO	XOD RACE		75		COOPDINATE	\$		ŀ	19000,E1	1207			ANGLE	FROM HO		DEARING N/A
BECUN 7/1/		СОМ	PLETED 71/86		MLLE	R	MORETE	ENCH	ľ		-	D MODEL		HOLE SIZE	OVERBURDER		ROCK &	נד 1.5'	TOTAL DEPTH
	RECOVE	RYGT		٦,		BOXES	SAMPLE N/A		N/A	6 6		5. 7	DEPTHIEL	. GROUND WA	TER '45.2'		DEPTHA	6.0°	F ROCK /39.7*
SAJPL		ER WE	GHT/FALL	L			1	N HOLE DA.				LOSCED B	Y.		YEN		<u> </u>		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	N/)		_		MATER		N/A			17	<u> </u>		<u>'</u>	. 12.11		I		
17PE	SAUPLER ADVANCE LENGTH CORE HUM	SAMPLE RECOVERY	SAMPLE BLOWS "N" PERCENT COME RECOVERY			ESSUFE TESTS		S 51/4 57844	Ē	8	SAMPLE		ne e redibitiv	AND DIES	SFICATION *			WAT	TES ONE TER LEVELS, TER RETURN,
SAMPLE TYPE AND CHARETER	ETH C	PRE RE	PRODY *	8	7 7	FPRESSUBEE	THE STATE	ELEVATION	12 dg	GRAPHIC LOG	3			, 2.5 62-				CHI	RACTER OF LING, ETC.
	319	ह्य	ν Ia.		3	ZND S	260 e.	45, 7 45, 4	0	1777		0.0-0.3	: CRUSH	D ROCK: W	EDIUM GRA	Υ		፟	7-3-86
HOUT.												0.3-40	: CIT 70	ASALT, 2° ID; DUSKY	BROWN			PADIOA:	HECKED FOR
FROUG									=			SLIGHTL	Y PLAST	, NON-PLAS IC, DRY,	3110 19			CONTAN EBERLY ANALY	AINATION BY
6.1								41.7	4		-	4.0-6.0	SAND (SC-SMF DL RAINED, SI	ISKY RED			CORPOR	RATION.
AUGER, 6: THROUGHOUT.								79.7	5 -			BROKEN	SANDST	ONE FRAG	MENTS, MIXI	D.		EBERLI ANALY CURPO!	rical .
				1				- 39: 2 -	6.5			\ (5YR6/4 \FINE GR	I), SOFT AINED, SI	TO MODER LTY, WEAT	HERED. NO!	(D, ST.		PERFOR	rned ganma g.
								ļ 1		1		HOLE B	ACKFILLE	E AT 6.5 D WITH CE	FT. MENT-BENT	ONITE		AUGER 5.5 FT	REFUSAL AT
								<u> </u>	10 -	4		GROUT.	7/3/86.					#DECC	RIPTION AND
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<u> </u>	<u></u>	FR: 77	SPOON, ST		BY 71	Br.	1	\$1E	35	1_		14 YHOOR			···			HOLE N	
			ON PUPITO							INTE	RI	MAYWOOD STORAG	SITE						M1SS-153R



																	JOB N		SHEET N		HOLE NO.
	GE	OL(OGIC	DF	RIL:	LL	OG		78	HOUSE CT		FL	JSR	AP		 		11-138	1 OF	1 1	MISS-154R
ΠĒ	7.7	TENT	MAYWOO M STOR	D.	c t T	TE.		COORD	NATES				N91	00,E1	1210			AMCLE	FROM HO	R1Z.	BEARING N/A
ECLIN		COMP	LETED				MORE T	RENCH		1	L WA			100EL B-33		HOLE SIZE	OVERBURDE	и <i>в</i> тл 0'	ROCK OF	າມ . 5'	TOTAL DEPTH
7/1/80			1/86	- -	F OPE		SAMPLE	ع اقد	_TOP {	OF CASINO		ROUN	D EI	La	DEPTH/1	EL GROUND WA	TER		DEPTH/E	L TOP O	
ALIGN E U	N/A		HT/FALL		N/		N/A			/A ENGTH		4	7. 2 Tu	SECED 8	<u>'</u>		46.7'		<u>.l.</u>	3.0	/ 72.2
AMPLE A	N/A							N/				, ,				F	YEN				
AND DANETER SAMPLER ADVANCE	TH CORE PLIN	CORE RECOVERY	PERCENT CONE RECOVERT	٠,	PRE	ESTS	TES	ELEVA	TION	DEPTH	SRAPHE LOG	SAMPLE			DESCRIPT	fion and clas	SEICATION *			CHI WA'	TES COM TER LEVELS, TER RETURN, PRACTER OF LLING, ETC.
S 8 8	EN LE	8	i iž	% z 51 z	3	SPRESSURE P.S.I	THE THE STANFOLD STAN	47	. 2	0	8										
AUGER, 6°, THROUGHOUT,								46 42 41		5.5.5			2016 O 2	0.5-5.0° SLTY, M O'. I' ME 0.5-3.0° 5.0-5.0° 5.0-5.5° 5.0-5.0° 5.0° 5.0-5.0° 5.0-5.0° 5.0-5.0° 5.0-5.0° 5.0-5.0° 5.0-5.0	SAND OIST, N NUS SL DUSKY SANDS SANDS TED. OF HO	ED ROCK; M INUS ANGUL (SC-SM); FIR ON-PLASTIC BROUNDED (RED (SYR: BROWN (S STONE: DUSK TO MODER SHLTY, WEAT	E GRAINEI MIXED WI GRAVEL. 3/4). YR2/2). Y RED ATELY HA HERED.	TH RD,	,	SITE CORPORED CONTAINALY CORPORED CORPO	TICAL Ration. NE TICAL Ration RMED SAMMA
										15 - 20 - 35 - 35				HOLE BA	ACKT ILL 7/3/86	ED WITH CE	, men : - Den	UNITE		CLASS VISUAL EXAMPLE CUT THE	NATION OF
 			POON STE					SITE				-	MAY	NWOOD						HOLE !	ra. M155-154R



GEOLOGIC DRILL L	UC	PROJECT			JOB NO.	SHEET NO.	HOLE NO.
			FUSRAP		14501-138	1 OF 1	MISS-155R BEARNS
MAYWOOD INTERIM STORAGE SITE	COORDBIAT	ES	N9100,E	1400	ANGLE	90°	N/A
COMPLETED DIRLER	MORETRENCH		NE AND MODEL OBJLE B-33	HOLE SIZE	OVERBLEDEN GTJ 2.5'	ROCK OFTJ	TOTAL DEPTH
7/1/86 7/1/86 ENVIRGE RECOVERY OF TUZO CORE BOXES	NMENTAL SERV	LLES !	GROUND EL.	DEPTHUEL GROUND WA	TER	DEPTH/EL TOP	OF ROCK
N/A N/A	N/A	N/A	44.7	<u> </u>	'43.7'	2.5	/42.2'
MPLE HAMMER BEIGHT/FALL CASH N/A	IG LEFT IN HOLEIDIA N/A	JEMUTH	LOGGED		.YEN		
SAMPLE RECOVERY CORE RECOVERY CORE RECOVERY SAMPLE BLOWS SAMPLE BLOWS SAMPLE BLOWS TESTS TO LOSS TO LO	ELEVATION	DEPTH GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLAS	SFICATION +	T/	ITES ONE ITER LEVELS, ITER RETURN, MARACTER OF
AND DAM SAWPLE N SAWPLE N CORE RC CORE RC SAWPLE N N PERCENT N PER	SE 44.7	0 8					ELING, ETC.
Aluck, e., Inkouvanuu.	42.2	5 -	(5YR2/1 NON-PL	SATUY, SLIGHTLY ASTIC. SANDSTONE, DARK (IGTRE/5), SOFT T INE GRAINED, SETY, TED AT 6.0-7.5 F	PLASTIC TO	SITE C RADION CONTA EBERL ANALY	, 7-9-86 CHECKED FOR ACTIVE WINATION BY INE TICAL RATION.
	37.2	20 25 30 30 30 30 30 30 30 30 30 30 30 30 30	BOTTO HOLE E GROUT,	A OF HOLE AT 7.5 ACKFULED WITH SE 7/9/86.	MENT-BENTONITE	7.5 F EBERI ANAL CORP! PERF LOGG: *DESG CLAS: VISUA	INE TYPE AL DRATION DRATION DRAMED GAMNA NG. CRIPTION AND SIFICATION BY LL INATION OF
SS-SPLIT SPOON, ST-SHELBY TUBE; D-DENNISON, P-PITCHER; O-OTHER	SITE	35_1	MAYWOOD FRIM STORAG			HOLE (NO. N1SS-155R



													*********		1				luce it and
	G	EOL	.OGI	C	DRIL	L L	.0G		PROJECT		FU:	SRAP			JOB NO. 14501	1-138	SHEET !	F 1	MISS-156R
èu£		NTF	YAM '2 MTS	WDOI	OE SI	TF	-	COORDINATE	S		N	9000,E1	1400			ANGLE	90°		BEARING N/A
BEGUN 7/1		cor	PLETED 7/1/8)	DPELLS	TR	MORE TI	RENCH	- 1	MOE		MODEL B-33		HOLE SIZE	OVERBURDEN		ROCK &	נדי 1.0'	TOTAL DEPTH
	RECOVE	1_		<u> </u>	COPPE	BOXES /A	SAMPLE N/A		P OF CASIN		OHUX	EL.	DEPTH/E	L. GROUND WA	TER '44,7'		CEPTH/	5.5'	F ROCK /40.2'
SAMPL		ER WE	SOUT /F	KT.	<u>'`</u>		1	H HOLEI DIA				LOGGED 8	<u> </u> 		. YEN		<u> </u>		
						WATER		17.5			Т	<u> </u>							
TYPE ETGR	OVANC THE RU	OVERY	PLOSTS	, E		ESSURE TESTS		ELEVATION	2 €	901	SAMPLE		ne cromt	DN AND CLAS	SEICATION D			WA"	res one Ter Leyels. Ter return,
SAMPLE TYPE ALD DIANETER	SAMPLEN JOVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS -W		£ ₹	PRESSURE PRESSURE	THE N NEWUTES	ECEANION	¥14.630	GRAPHIC LOG	35		D13012 11	J. 2.0 02.0				CHE	RACTER OF LING, ETC.
<u> </u>	319	રૂ ડ	× 1.		57 6	540 e.	360 6.	45,7	0	<u></u>	+	0.0-2.5	<u> </u>	AL): BROWN AL SOIL.	SH BLACK			∇	7.0.80
HOUT.												(5YR2/I)	RESIDU	AL SOIL.				÷	7-9-86
AUGER, 6°, THROUGHOUT.								43.2	2.5		-	2.5-5.5	SAND	SC-SWILLO	TY, DRY TO			RADIOA	
6. I							 - -	 				MUIS!.!	RAGE U BESISTA	F GRAVEL NCF AT 4.	(1/8-1/47). 5 FT. CLAYI	ΕY	Ì	EBERLI ANALY	M:NATION BY NE HICAL
AUGER								40.2	5 -		-	55255	CANDS	TONE HER	BROWN			CORFOI EBERLI	RATION.
	<u> </u>			+				39.2	6.5	20,224	┪	(SYR674) CM MOD SHITY	II AND D ERATEL IFATHER	USKY RED Y HARD, FIN ED, SATURA	(5YR3/4), S IE GRAINED. ITED.	UFI		ANALY	TICAL RATION
										}		BOLICA	OF HO	LE AT 6.5		ONITE		FERFOR LOGGIN	NED GAMMA
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1					0=0TH					INTER	FIN.	STORAGE	SITE			_		<u></u>	MISS-156R



															T = -				
	G	EOL	OGIC	DR	RILL	LOG		PS	D.ECT		FI	JSRAP			JOB NO. 14501	-138	SHEET N	1	MISS-157R
SITE	,	NTER	MAYWO	00	SITE		COOF	DOWNTES			I	N9200,E1	1150			ANGLE	FROM HO		BEARING N/A
BEGLIN 7/1	l	CON	PLETED //1/86		LLED)	MORET			l'		-	E B-33	· · · · · · · · · · · · · · · · · · ·	HOLE SEE	OVERBLIRDEN 0.5		ROCK O	נז .5'	TOTAL DEPTH 5.0'
	RECOVE	RYT I		ca	PE BOXES	RONMENT SAMPLI N/A	ES	EL. TOP	of case	46		D EL. 7.2	DEPTH/E	L. CROUND W	ATER /46.21		CEPTH/E		OF ROCK 7/46.7
SMPI	E HAVE		GHT/FALL			SING LEFT	el HOI	E DA.A				LOGGED E	Yi Yi	·	P. YEN	<u>,</u> ,	<u>. </u>		
	N/			I -	WATER			N/A	T					·			Т		
TYPE ETER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS THE BLOWS THE BLOWS		PRESSUR TESTS			Tiber	#	87.	SALPLE		ne crope t	EON AND PLA	SSEICATION +			₩.	ITES ON: LITER LEVELS, LITER RETURN,
PAPE O	SHE S	ME RE	PERCENT CONE "HE PERCENT CONE "HE PERCENT CONE TO STANFOLD BLOWS	ZS N	SPRESSURE P.S.	T N N N N N N N N N N N N N N N N N N N	211	VATION	MT-730	GRAPHIC LOG	3		·	W. 10 VI				C	MARKETER OF MARKETER OF
SA	3.9	3 8	W 18	E1 1	2 E	. 30 t.	 	7.2	0	1		0.0-0.5	SLT (ML); MODER	ATE BROWN			77	3000
Ę.							4	6.7				N (5Y23/) ヨロマボ	HAT SOM.			\dashv	=	7-9-86
		_							-			BROWN HARD, F	(IOR4/6) INE GRA	, SOFT TO INED, SILTY	RATE REDD MODERATEL WEATHEREI GRAVEL AND O FT.	, ,	1	CONTA	CHECKED FOR ACTIVE AMINATION BY
AUGER, 6°, THROUGHOUT.		!										CRUSHE	ROCK	AT 2.0-4.	O FT.	•	1	FRFRI	INE (TICAL DRATION.
FR. 6	-	<u> </u>			_		┼-4	12.2	5 —	2.2	+	l .		LE AT 5.0				AUGE 5.0 F	R REFUSAL AT
₹		:								1		HOLE B	ACKFILL 7/9/86	ED WITH CE	EMENT-BENT	ONITE	į	EBER	1
		:							-	=								CORP	ORATION ORMED GANIMA
		;							1,0	=							.	•DESi	CRIPTION AND
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1	22 •	555FU	SPOONS ST	ERI (=4	OTHER				, <u>.</u>	INT	ERIJ	MAYWOOD 4 SIDRAG	E SIJE		<u> </u>				MISS-157R



7																1=		SHEET N		HOLE NO.
	C	EOI	OGIC		RIL	LL	OG		PRO	DJECT		FL	ISRAP			JOS NO. 1450	1-138	I OF	1	M1SS-158R
ME		****	WYYAM OTO HEG	000	ر ر،	70		COOPEN	ATES				19200,E1	1210			ANGLE	FROM HO	Ki.L.	BEARING N/A
X CLM		CO	RIM STO	KAL	DRALLE)	MORETI	rench	_				D MODEL		HOLE SIZE	OVERBURDEN		ROCK &	าง - 5'	TOTAL DEPTH
7/1.		VERYOT	7/1/ 86 Jx			NV R	SAMPLE	<u>al SER</u>	VICE	S CASON		ROUN	D EL-	DEPTHA	L. GROUND WA	ATER		DEPTHIE	L TOP O	FROCK
		N/A	DOM FALL		N.	/A	N/A	NE HOLE: [N/			41	5.4	172	1.0.	/44.41		1	5.0	/40.4'
***		VA.	<u> </u>					N/A							F	P.YEN			-	
£ £	SAMPLEN ADVANCE	SAMPLE RECOVERY	S S S S S S S S S S S S S S S S S S S		PR	WATER Essure Tests					8	۳							WAT	es din er levels,
	EN AD	313	SAMPLE BLOWS W PERCENT CONE		ار	S	E .	ELEVATI	DH	15 P 12	PRAPHIC LOG	SAMPLE		DESCRIPT	TON AND CLAS	SSFICATION *		Ì	CHA	ER RETURN, RACTER OF LING, ETC.
¥ 3	SAM		3 12		z ₹	Pressure	SHUME SHOWER	45.	4	0	8									
				T						4			0.0-2.0 (5YR3/)	, RESID	ML); GRAYIS WAL SOL.	H BROWN		-	<u> </u>	-9-86
AUGER, 6: THROUGHOUT.								43.	4]	1111		2.0-5.0	: SAND	(SC-SM); LK	CHT BROWN			SITE CH RADIDAI	ECKED FOR
垩													NON-PL	ASTIC.	GRAINED, SI	LIT, OKT,		1	CONTAN FRERLIN	ervatkon by F
EE, 6								40.	4	5 5.5			<u> </u>	A CANDS	MARKEDISK	∨ RFD			ANALYT CORPOR	LATION
₹-	 -			+				-38:	9—	5.5			(SYR37)	1), SOFT RAINED, S	TO MODER	Y RED MATELY HAR THERED,	Ð,			
		į								-			BOT ! ON	COF HO	LE AT 5.5	FI.	····•		AUGER	REFUSAL AT
		į !							İ				HOLE B	ACKFILL 7/9/86	ED WITH CE •	MENT-BENT	ONITE	Ì	EBERLI	
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L			SON PEPITO					<u> </u>			INTE	RI	STORAG	<u>SITE</u>					1	2120 1300



SAMPLE HAMAGE SCHOTTFALL CASING LEFT IN HOLE DAYLENGTH N/A	HOLE NO. MISS-159R BEARING N/A TOTAL DEPTH 6.0' P OF ROCK 0'/40.4' NOTES ON MATER LEVELS, MATER RETURN, CHARACTER OF DOBLING, ETC.
N9200, E11300 N9200, E11300 SECUN COMPLETED DIMLER MORE TRENCH DIMLER MORE TRENCH NOBILE B-33 6° 5.0° 1.0° T/1/86 7/1/86 FNV'RONMENTAL SERVICES MOBILE B-33 6° 5.0° 1.0° COME RECOVERIGIZED N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A TOTAL DEPTH 6.0' P OF ROCK 0'/40.4' MOTIES COM- MATER RETURN, CHARACTER OF DRILLING, ETC.
MORE TRENCH T/1/86 T/	6.0' P OF ROCK 0'/40.4' MOTES ON- MATER LEVELS, MATER RETURN, CHARACTER OF DRILLING, ETC.
CORE RECOVERYOTIZED N/A N/A N/A N/A N/A N/A N/A N/	0'/40.4' NOTES CON- MATER LEVELS, WATER RETURN, CHARACTER OF DOBLLING, ETC.
CASING LEFT IN HOLE DIALLENGTH N/A P. YEN WATER PRESSURE TESTS LEVATION B. S. S. S. S. S. S. S. S. S. S. S. S. S.	MATER LEVELS, MATER RETURN, CHARACTER OF DRILLING, ETC.
TOUR AND CLASSFICATION WATER PRESSURE TESTS DESCRIPTION AND CLASSFICATION OF A STATE	MATER LEVELS, MATER RETURN, CHARACTER OF DRILLING, ETC.
44.9 44.9 110 3.0-0.5': SET (ML): MODERATE BROWN SYR3/4), RESIDUAL SOIL. 0.5-5.0': SAND (SC-SM): DUSKY BROWN (SYR2/2). FINE GRAINED, VERY SELTY, VERY MORST TO SATURATED. 5.0-6.0': SANDSTONE: DUSKY RED CORP (SYR3/4), MODERATELY HARD, FINE GRAINED, SILTY, SATURATED. BOTTOM OF HOLE AT 6.0 FT. AUGE	DRELLING, ETC.
44.9 44.9 10.0-0.5': SRT (ML): MODERATE BROWN SYR3/4), RESIDUAL SOIL. 0.5-5.0': SAND (SC-SM): DUSKY BROWN (SYR2/2), FINE GRAINED, VERY SILTY, VERY MORST TO SATURATED. 50-6.0': SANDSTONE: DUSKY RED CORP (SYR3/4), MODERATELY HARD, FINE GRAINED, SILTY, SATURATED. BOTTOM OF HOLE AT 6.0 FT. AUGE	. 7-9-86
STE SAND (SC-SM); UJSKY BROWN STIE RADK (SYR2/2), FINE GRANED, VERY SELTY, VERY MOIST TO SATURATED. STE SANDSTONE; DUSKY RED CONTENT OF SANDSTONE; DUSKY RED CORP. SANDSTONE; DUSKY RE	
BOTTOM OF HOLE AT 6.0 FT. AUGE	CHECKED FOR CACTIVE TAMBATION BY RUNE
	PORATION. ER REFUSAL AT
10 - GROUT, 7/5/86. G	FT. PLINE LYTICAL PORATION FORMED GAMMA GING. CRIPTION AND SSEFICATION BY
SS-SPLIT SPOON, ST-SHELBY TUBE; D-DEUNISON, P-PITCHER, D-DTHER INTERIM STORAGE SITE	· NO.



	G	EOL	OGIC		RIL	LL	.OG		PROJ	ECT	<u>,</u>	FL	ISRAP			JCB NO 1450	1-138	SHEET 1 C	NO. OF 1	HOLE HO. MISS-16DR
SITE			MAYWO	000				COOMDOUT	TES				19200,E	1400			ANGLE	FROM H		BEARING N/A
BECOM		COM	IN STO			D	MORET	rench				E AN	D MODEL E 8-33		HOLE SIZE	OVERBLECE 2.		ROCK 0	FTJ 2.5'	TOTAL DEPTH
7/1 core	RECOVE	RYC I.	/1/86		CEE	BOXES	SAMPLE N/A		ICES OP OF N/A	CASING		OUN	EL. 5.4	DEPTHA	L GROUND WA				EL. TOP (1 1
SAMPL	E HALE		ONT/FALL			/A	<u> </u>	IN HOLE: DV				7.	LOGGED	BY.		YEN		<u> </u>		
		/A		Т		WATER		N/A	- T				<u>i</u>	······	·					
SAMPLE TYPE AND DIAINETER	SAMPLER ADVANCE LENGTH CORE RUN	GANTE RECOVERY	SAMPLE BLOWS PERCENT CORE RECOVERY	_		ESSURE TESTS		ELEVATION		E L	DRAMIC LOC	SAMPLE		DESCRIPT	TON AND CLAS	SFICATION #			WA'	TES ON: TER LEVELS, TER RETURN, PLACTER OF
3 8	SAMPLE	CORE	FERGE			PRESSUR	A say	45.4		0	3	•								LLMG, ETC.
				5	7.6	20 5	390 £	101	1	<u> </u>			0.0-2.0 (5YR3/	2), RESID	ML); GRAYIS UAL SOIL.	H BROWN		<u> </u>	<u>Ā</u> :	? -9- 86
SOCK								43.4		4	Ш		2.0-4.5 PPOWN	's SANDS	TONE; MODE	RATE RED	DIŞH I Y		-	
6. 1H						!		40.9		, ,			HARD, P	OORLY	TONE: MODE), SOFT TO TO MODERA INED, WEAT	TELY CEM	NTED, ST,			
AUGER, 6. THROUGHOUT.				1					_	5 -			20110	1 DF HO	ARD BELOW LE AT 4.5 ED WITH CE	FI.	TONITE		ALGER	REFUSAL AT
										1			GŘŌŪT,	7/9/86	•				I RADIO	HECKED FOR
		 								=									EBERL ANALY	TICAL
										10									CORPO	ration. Ine
		! !			,					1									ANAL'	TTICAL DRATION BRIJED GAMMA
										111									LOGGE	NG. RIPTION AND
																			CLAS	SEKCATION BY
										15 -									בְּנְינִי	NGS.
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											7									
-			SPOON ST					SITE		35]	_ <u></u>	MYVOOD						HOLE A	NISS-160R
L			DIA PRITO					<u> </u>			INTE	RIN	STORAG	E SITE						אטני בביוה



	G	EOL	00	SIC	DRI	LL I	.0G			MOLECT		F	USRAP			јов но. 1450 i		<u> </u>	1	HOLE NO. NISS-161R
SITE		INTER	MA MIS	YWO STOR	DD PAGE S	ITE		880	ROBATES	2		ı	N9270,E1	1300			ANGLE	FROM HOR	I.	BEARING N/A
7/1	ı	COL	7/1/	D	DRE		MORET			- 1			E B-33		HOLE SIZE	OVERBURDEN 3.5		ROCK OF T.	-	TOTAL DEPTH
COPE	RECOVE N	RYGT.	/10			BOXES	SAMPL N/	ES	EL. TOP	of cas	anc C		7.2	DEPTH/E	L SPOUND SA 2.0'/			DEPTHAEL		F ROCK /43.7'
SAMPI	E KAM		ent/	FALL			E LETT	at HO				-	LOGGED BY	73		YEN		1		
_				_		WATER	-	<u> </u>	117 K		Τ		<u>. </u>		·	• 12N		- T		——————————————————————————————————————
TYPE METER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY	SE OF	PERCENT COPE RECOVERT		RESSURE TESTS	<u></u>		VATION	≠	8	SAMPLE		NE E MORET	ION AND CLASS	EEDALTIAN ®			24	tes com Ter Levels, Ter return,
SAMPLE TYPE AND DUNETER	NETH C	WPLE R	SAMPLE BLOWS	2 CO 2	28 × 3	PRESSURE P.S.	THE NAMES		***	18. 15.	GRAPHEC LOG	28	•	, L.S.C.G.					CH	PACTER OF
	313	30			<u> 57 52</u>	20 5	200 8.	4	17.2	0	YIIY		0.0-3.5%	MXFD	SET. SAND.	GRAVEL.				
out.													AND SLA MIXED FI	G (GM):	GRAYISH BI	TOWN (5YR3	/2),		∇	7-9-86
AUGER, 6", THROUGHOUT.										•]								÷	1.2.00
S. TH								4	13.7				3.5-7.0':	SANDS (IOYR6/	IONE: DARK	YELLOWISH D MODERATI	EL Y	Į R	ADIOA	IECKED FOR
CER,										5 -	-		HARD, FIN MOIST.	€ GRAI	(6); SOFT TI NED, SETY,	WEATHERED.	•	E	DRIAN BERLIN NALY	INATION BY IE ICAL
\ ∀				_				<u> </u>	10.2	7.0	7		ROTTOM	מב בת	LE AT 7.0	FT		10	ORPOF	REFUSAL AT
										'	=		HOLE BA	CKFRLE	D WITH CEN		NITE	7	O FT	•
				Ì						10 -	<u> </u>		GROUT, 7	/3/80.				18	BERLI NALY ORPO	FICAL Ration
											=							1 5	ERFOI OGGIN	RIMED GANANA
											Ē								DESC	RIPTION AND FICATION BY
		i]								/ISUAL	IATION OF
										15	-							1	-U! IE	10.5%
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L_	0=0	Deeso	t P≠P1	DER	O-OTHE	X					INTER	UM.	STORAGE	SITE						MISS-161R



	G	EOL	OGI	C	DRII	LL	.0G		PROJECT		FL	ISRAP			JOB NO. 14501		SHEET NO	1	HOLE NO. MISS-162R
SITE		INTER	MAY TZ MIS			. TF		COORDNATE	ES		N	18500,E1	1000			ANGLE	FROM HOR	2.	BEARING N/A
7/3	ı	COF	PLETED 1/3/86		DMLL			RENCH	- 1		-	D NODEL E 8-33		HOLE SIZE	OVERBLEDEN		ROCK OFT.	ر 5'	TOTAL DEPTH
	NECOVE	RYET			COPE	ENVIRO BOXES VA	SAMPL N/		P OF CASI		ROUNE	5.3	DEPTHIE	L. GROUND W			DEPTH/EL	TOP C	
SAMPI	E HAMA		CHT/FA	<u>. </u>			1	IN HOLE: DA			71	LOGGED 8	Y1				<u> </u>	0.5	
		/ <u>A</u>				WATER		N/A		1	Т	<u></u>			YEN		<u> </u>		
SAMPLE TYPE AND DANETER	SAMPLER ADVANCE LENGTH CORE RUN	RECOVERY RECOVERY	SAMPLE BLOWS "N" PERCENT COPE	COVERY	M	ressure Tests	2	ELEVATION	DEPTH	GRAPHE LOG	SAMPLE		DESCRIPTI	OH AND CLAS	SSFICATION *			WA1	tes one ter levels, ter return, racter of
3 8	SAMPL	SAMPL	TER SE	2 2	g z ≾ 51 5′	PPESSURE	260 to 25	46.3	0	8									LING, ETC.
<u>;</u>				1	a a'		370/ 6	45.3							ISHED ROCK.		- 5	ADĮDA	ECKED FOR CTIVE MNATION BY
AUGER, 6", THROUGHOUT.								42.8	-			(5YR2/2) Black S Light G), SOFT, LUDGE RAY (N7	L): DUSKY SANDY, MO (2.0-3.5 F) SPECKS.	IST, WITH T) CONTAININ(; 	[]	BERLI NALY	√E.
AUGER, 6',								12.0	5 -			3.5~5.0	BLACK	(NE).	E GRAINED, I' MINUS . MOIST.			∽ -	
								39.8				~ ~ * * * * * *	בתתווס	/5 N= 5 5	Y (5Y5/2), FT).		7	₩ 7	-3-86 uc
										1		6.5-10.0 (5YR3/4 NON-PLA SATURA	STIC. DI	FINE GRAIN RY TO 7.0	ERATE BROWN ED, SILTY, FI, THEN	N		NAL VIORPO	IKAL RATION RMED GAMMA
	-			\dagger			 	36.3	10 -	_	H	,		E AT 10.0	FT. MENT-BENTO				RPTION AND FICATION BY
									20 -			GROUT,			•			XAMS THE	ECKON OF
	\$\$=\$	<u> </u> ≯ιπ s	POON ST	I=SHE	LBY TU	<u> </u> Βει	1	SITE	35	1	<u> </u>	AYWOOD				= .		ON 310	
	D= 0	ENNESCH	k PEPITC	HER:	Ç=OTHE∑	R		-4-		INTER	ΙH	STORAGE	SITE						MISS-162R



_					<u></u>				T					····		JOB NO.		SHEET NO.		HOLE NO.
	G	EOL	.OGI	C	DRIL	L L	.0G		PROJEC	.τ 		FU	SRAP			1 4501	-138	1 OF		MISS-164R
SITE		INTER	MAY'	WOO!	D .CE 51	TF		COOPER	ATES			N	8505,E1	0790			ANGLE	FROM HORIZ	•	BEAUNG N/A
7/3		CON	7/3/86		Dist	DR.	MORET	RENCH		DPEL			MODEL E B-33		HOLE SIZE	OVERBURDEN 2.5		ROCK 673] [†]	TOTAL DEPTH 2.5'
	RECOVE	RYET.			COME	BOXES	SAMPLI N/A		TOP OF C	ASMG			£	DEPTH/1	1.5'/			DEPTIN/EL.		ROCK /A
SAPI	E HAM		ON /FM	ш_	<u> </u>		1	IN HOLE:	M./LDGT	н	Д.	70	LOGGED 8	Yı.				1		
		/A				WATER		N/A	1		- 1	<u> </u>			۲	.YEN				
METER	ADVANCE OPE FILM	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS 'W' PERCENT COPE	WEAT	Ħ	essùre Tests	•	ELEVATI	ON E		CRAPHIC LOG	SAMPLE		DESCRIPT	ION AND CLAS	SFICATION +			WAT	es one er levels, er returol
SAMPLE TYPE AND DANETER	SAMPLER ADVANCE	SAMPLE S	SAMPLE PERCEN	•	g = 3	PPESSURE	# = 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1	1	8	3								RACTER OF LING, ETC.
¥001.					51 S	20.5	300 E	100				1	0.4-2.5	LRAVE	LT; GRAYISH L (GM); MED L MINUS, WIT	UM DARK	?).	RA	DIOAC Intan	INATION BY
<u>₩</u> .		-		4		·		44	0 2.	5]		+	AND SAI	40. □ DF 770	LE AT 2.5	FT.	 -		ERLIN IALYT IRPOR	E ICAL———— ATION
E. 1										4			HOLE BA	1CKF1LL1 7/3/86	ED WITH CEI	VENT-BENT	DNITE	EB	ERLN	£
AUGER, 6: THROUGHOUT.									5	1								ÇQ PE	IAL YT PRPOR PREORI PGGING	ATION MED GAMMA
										}	Ì							EN	COUN	TERED SHEET
		; ;								}	į							P(RUM P RTION COVE	LUG AND 1 OF LID RED AT 2.5
									10	9 =								111	DRI. Rimen	LING WAS
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										15										
			SPOOM S					SETE	1, 3		ITED	M.	AYWOOD STORAGE	CITE				н	LE NO.	MISS-164R
	D=(XED0050	N Papil	CHER	O=OTHE	R				110	HER	IM	STURAGE	2115		· · · · · · · · · · · · · · · · · · ·				H122104V



	G	EOL	.0G	IC	DRII	LLL	OG			ROLECT		F	US	RAP			JOB NO 1450	1-138	1	¥ i	HOLE NO. MISS-165R BEARING
SITE		MTEC	MA'	YW00	D NGE S	115		COOR	DOWNTES				N9	100,E1	0100			ANGLE	FROM H 90°		N/A
BEGUN 7/7		CON	7/7/8	D	Dist		MORET	RENC	H	i i	M MT IN			HODEL B-33		HOLE SIZE	OVERBLEDE			1.5'	TOTAL DEPTH 6.5'
	NE COVE	RTGT.	/20		COPE	BOXES VA	SAMPLE N/A	S	EL TOP	OF CASI	MG (GROU	ND 1		DEPTH/E	5.0'/	TER 43.7'		DEPTH	5.0	F ROCK /43.7
SAPL	E HAM	eer we	SA NE	ALL	1	- • ·	E LEFT	N HOL	ELDA./	LENGTH	1.		7	LOCCED B	<u> </u> 	P	.YEN		,		
TYPE ETER	,		R OWS	3 5		WATER RESSURE TESTS				F	8	SMPLE			NC COMPT	ION AND CLAS	SEICATION			WA'	TES COM TER LEVELS, TER RETURN,
SAMPLE TYPE AND DIANETER	SAMPLEN ADVANCE	CORE RE	SAMPLE BLOWS	RECON	LOSS E.P.K.	PRESSURE P.S.I	THE N HANTES		/ATION 8.7	E C	GRAPHIC LOG	AES.								CHU	PACTER OF LING, ETC.
AUGER, 6°, THROUGHOUT.					<u> </u>	240 6	3 80 €*		7.7					(5YR3/2 LO-5.0': GRAINED LO-2.0': 2.0-5.0'), RESIDI SAND (: , SIL i Y, DUSKY : BROWN	R.); GRAYISH LIAL SOIL. SC-SM); FIN NON-PLAST BROWN (5Y ISH BLACK CE (4.0-5.0	E TO MEDI IC, MOIST. R2/2). (5YR2/1).	ÜM		RADIDA CONTAI EBERLI ANALY CORPO	JINATION BY
AUGER		<u> </u> 						1	3.7 12.2	5 6.5				5.0-6.5 (5YR3/4 FINE TO	SANDS), SOFT MEDIUM	DNE DUSK TO MODER GRAINED.	Y RED ATELY HAI SILTY.	80,		幸	
										10 15 20 25	***********			BOTTOM HOLE BU GROUT.	ACKFALL	LE AT 6.5 ED WITH CE	FT. MENT-BEN	TONITE		EBERLI ANALY CORPO PERFO LOGGIA DESCR CLASS	NE TICAL RATION RMED GAMMA IG. PTION AND PTION DY KATION OF
					HELBY "			SIL				FR1	H)	YWOOD STORAGE	SITE					HOLE 1	o. N155-165R



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	G	EOL	OGIC	D	RIL	LL	.0G		PROJE	7		FL	ISRAP			JOB NO. 14501	1-138		¥ 1	MISS-166R
SITE		LINTER	MAYWO	OD AACC	. 61	7E		COGROBIAT	ES			ŀ	19000,E1	0100			ANGLE	FROM H 90°		BEARING N/A
EGLN		COM	PLETED 7/7/86		ALLE	R	MORET	RENCH		DRI			D MODEL E B-33		HOLE SIZE	OVERBLEDEN		ROCK O	7.J 2.5'	TOTAL DEPTH
	RECOVE	RIFT		7	OFE	DOXES	SAMPLI N/A		DP OF C N/A	ASAK		ROUNE		DE PTH/E	L GROUND WA	TER 44. B'		DEPTIN	EL TOP 0	F ROCK /43, 8'
SAMPL	E HALO		IDIT/FALL				_1	SK HOLE: DU		îH.	İ		LOGGED 8	ſŧ		YEN		l		
	N/					MATER		N/A		- -T		П	<u> </u>		r	. ILN				
TYPE ETER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	BLOWS CORE ERY			ESSLAE TESTS			2		901	SALPLE			ÔN AND CLAS	2510 4 TIME A			WAT	TES OM TER LEVELS, TER RETURN.
ANDLE O DIAN	CTH CC	IPLE REC	PERCENT CORE "W" RECOVERY	SS07	7	Pressure	20 T W W W W W W W W W W W W W W W W W W	ELEVATION	× Page	Š	GRAPHIC LOG	3		DESCRIPT (I	DR AND CLAS	SPRAIRH			CH	RACTER OF
	3 4	3 8	× 18		3	200 6	390 6	48.8	()		\sqcup	0.0-3.0	SET (AL); GRAYIS	H BROWN			SITE C	ECKED FOR
AUGER, 6., THROUGHOUT.					1					1			(5YR372	RESIDI	JAL SOIL, S	ANDY, MOIS	1.		RADICA CONTAI	CTIVE MINATION BY
HEOLE								45.8		4				r i'un	(F. F. N. 12)	DERATE BR	AWO.		EBERLIN ANALY CORPOR	ILCAL RATION. 1-9-RG
1.9								13.0		=			(5YR3/4	I. FINE	O MEDIUM CLAYEY. I	GRAINED.	CHIL			3 00
AUGER								43.8	5	-	111		5.0-7.0	SANDS	TONE: DUSK		D ,		EBERLII ANALY CORPOR	i CAL
				_			<u> </u>	41.3	7	_					LTY, WEATH		iΤ.		PERFOR LOGGIN	RMED GAMMA
	,									4				CKFILLE	D WITH CE	MENT-BENT	CNITE		CLASSI	RIPTION AND FICATION BY
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L								<u> </u>		35	1_								HOLE IN	<u> </u>
			SPOON: STE					SIL			INT	M MIS	AYWOOD STORAGE	SLIF		<u> </u>				MISS-166R



	G	EOL	.00	GIC	C	RIL	L L	.OG		-	ROJECT		FI	JSRAP	······································		JOS NO. 14501-		HEET NO. 1 OF 1	HOLE NO. MISS-167R
ITE		INTER	MIS	AYWO STOR	OD RAG	E SI	TE		COORDS	MTES			ı	18900,E1	0110		4	MIGLE F	ROM HOREZ.	N/A
EGUN		CON	PLET	ED		DFELLE	3 1	MORE T	RENCH AL SEI	3 V 1 C	- 1		_	E B-33	· ·	HOLE SEE	OYERBURDEN OF 5.0'	FT CF	0.5'	TOTAL DEPTH 5.5'
OFE	recove N	RYGT.	(10			COPE	BOXES /A	SAMPL N/A	ES EL	TOP	OF CASIN	C		0 EL. 0,0	DEPTH/E	NONE OF	ITEN BSERVED	C	5.0°	oF ROCK ∕45.0'
ALP L	E HAMA		JCHT,	TALL			CASI	NG LEFT	N HOLE		ENGTH			LOGGED	Ϋ́ı	P	YEN			
METER .	SAUPLER ADVANCE LENGTH CCARE RUM	SAMPLE RECOVERY	BLOWS	PERCENT CORE RECOVERY		PF	WATER ESSURE TESTS	1	ELEVA 1	ION	DEP 14	GAMME LOG	SAMPLE		DESCRIPTI	ION AND CLAS	SFICATION		WA	TES ON TER LEVELS. TER RETURN,
AND DIAMETER	SAMPLER	SAMPLE !	Supply 1	100 X		조경	SPRESSURE P.S.	THE NAMES	50.	٥	0	GRAPH	3							ARACTER OF LLING. ETC.
<u></u>			-		IS.	7 5'	<u> 270</u> 0 6°	380 6	49.	-	-					T; DARK G	RAY (N3). EDIUN GRAY		RADIOA	HECKED FOR
AUGER, 6: THROUGHOUT.									48.		-				SAND), FINE ASTIC. SI	BASALT, 2 I ISC-SMD GR TO MEDIUM LIGHTLY CL	VINUS. AYISH BROWN GRAINED, AYEY AND	 	ÉBERLI	TICAL RAT ión.
AUGER, 6			_						15:	<u>0</u> —	5.5			\(SYR3/4 MOIST, I	1), SOFT. SEATHER	TONE; DUSK FINE GRAIN ED.	ED, SILTY,		ANALY CORFO	TICAL RATION RMED GAMMA
											10			HOLE B		LE AT 5.5 ED WITH CE	FT. Ment-Benton	a te	ČLASS Visual	NATION OF
											20 -									
											25 -									
											30 -									
1						~ -		1	SITE		35]		1			<u> </u>		HOLE N	ù.
						BY TU POTHE						INTFI	M MIS	AYWOOD Storage	SIIF					MISS-167R



					Len un de	err in laint in
GEOLOGIC	DRILL LOG	PRO.ECT	FU	SRAP	14501-138	EET NO. HOLE NO. 1 OF 1 MISS-168R ON HORIZ. BEARING
MAYWOOD INTERIM	STORAGE SITE	COORDONATES		1900,E10200		90° N/A
7/7/86 7/7/86	ENVIRONMENT	RENCH AL SERVICES	DAR SAMM LIBRO	B-33 6°	5.5'	0.0' 5.5'
ORE RECOVERYOTAZO N/A	CORE BOXES SAMPL		NG GROUND 49	1	SERVED	EPTH/ELL TOP OF ROCK N/A
N/A	CASING LEFT	IN HOLE: DIAL/LENGTH		LOGGED BY:	YEN	
AND DIAMETER AND DIAMETER AND DIAMETER AND DIAMETER SAMPLE RECOVERY SAMPLE RECOVERY SAMPLE RECOVERY FREEDYERT CORE RECOVERY	WATER PRESSURE TESTS	ELEVATION E	SAMPLE LOG	DESCRIPTION AND CLAS	SECATION +	NOTES ONE WATER LEVELS, WATER RETURN,
SAMPLE TYPE AND DUNETER AND DUNETER ENGTH CORE RECOVER SAMPLE BLOWS FEREENT CORE RECOVERY	LOSS PRESSURE PARTS OF MORE PARTS OF MORE		To Call Page			CHARACTER OF DRLLING, ETC.
AUGER, 6°, THROUGHOUT.	ST 5 240 5 380 5	48.6 0 48.2 47.5	V.0	O.O-O.4": ASPHALT; BLACK O.4-LO": CRUSHED ROCK; ME (NS) ANGULAR BASALT. LO-S.5": SAND (SC-SM); FIN GRAINED, SILTY AND CLAYE SEM!-PLASTIC, MOIST.	DIUM GRAY E TO COARSE	SITE CHECKED FOR R. TOACTIVE CONTAMINATION BY ESERCINE ANALYTICAL CORPORATION.
AUGER, 6°, 1		43.6 5.5		LO-2.0": DUSKY RED (SYR3 2.0-4.5"; BLACK WITH WHITI WITH N9), CONTAINS A TRA GRAVEL. 4.5-5.5"; DUSKY YELLOW (E SPECKS (NE CE OF FINE	EBERLINE ANALYTICAL CORPORATION PERFORMED GAMMA LOGGING.
		10 15 20 25		BOTTOM OF HOLE AT 5.5 HOLE BACKFILLED WITH CE	TI. MENT-BENTONITE	DESCRIPTION AND CLASSIFICATION BY VISUAL EXAMINATION OF CUITTINGS.



<u> </u>								- 1	ROJEC	7						JOB HO.		SEET	NO.	HOLE NO.
	G	EOL	.OGIC	<u> </u>	DRIL	LL	OG	COORDINATE		.,		Fl	JSRAP			14501	-138		¥ !	MISS-169R
SITE	MAYM		INTERI	H S			E	WURSHATE	· · · · · ·				18800,E1	0200			<u> </u>	900		N/A
*CLM 7/7.			PLETED 1/7/86		DRULL		MORETI	RENCH AL SERVI	ŒS	DAL	•		E B-33		HOLE SIZE	OVERBLIRDEN 7. 0		ROCK &	0.0' ניני	TOTAL DEPTH
OPE	RECOVE N	πσ. /Α	/10			MOXES /A	SAMPLE N/A		OF CA	SNG	GR		ր եւ. 9. 3	DEPTH	EL. GROUND WA	ATER BSERVED		DEPTH	EL TOP (of Rock VA
ALF'L		MER ME	IGHT /FAL	L	-	CASI	G LEFT	H HOLET DIAL	LENSTI	н		-	LOGGED B	Y2	F	YEN	-	.		
			يرا هو	T		WATER ESSURE			Τ	\exists					<u> </u>					TES ON
AMETER	SAWTER ADYANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS	NEW L		TESTS		ELEVATION	#178		GRAPHIC LOG	SAMPLE		DESCRIP	TION AND CLAS	SSFICATION +			WA WA	TER LEVELS, TER RETURN,
SAMPLE TYPE AND DIAMETER	ENCTH	CORE	PERCE.	28 E	2 3	PRESSURE P.S.I	TREE IN INC.			-	CRAP	Š								ARACTER OF LLING, ETC.
	212	5 71		╬	ST 6	20 6	390 E	49.3	10		. a:					H BLACK (NZ	?).		SITE C	HECKED FOR
HOU!								47.8		*	'م.? ا.ا.ا		CRAY (N	4).	EU KUUK; MI (SC-SN); FIN	DIUM DARK			CONTA	MINATION BY NE
AUGER, 6", THROUGHOUT.										1			SILTY A 1.5-4.0':	ND CLI Grayis	YEY. H Brown (SYR3/2), WIT	H		CORPO	TICAL RATION.
.9									5				PIMINIS	GRAVE	L.	BROWN CLAY FROM			EBERLI	NE TICAL RATION
AUGER								40.7	7				5.0-7.0	FT.	SEL AND	CEAT TROM			PERFO LOGGE	RMED GAMMA IG.
		<u> </u>		+				42.3			1-1-1-		l .		0.7 TA 3.K				*DESC	PIPTION AND EFICATION BY
										1			HOLE SA	CKF1LL 7/9/86	.ED WITH CE •	MENT-BENT	ONITE		VISUA Exam	L NATION OF
									10	, [CUTTI	NGS.
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L	\perp		<u> </u>			<u> </u>		SITE	3	5		1	<u> </u>						HOLE N	Δ.
			SPOON; ST No PHP1TC					æ16	W	YW	000 1	NTI	ERIM STO	RAGE	SITE					NISS-169R



	G	EOL	00	GIC	DR	RILI	LL	.0G		PROJECT	T	FI	USRAP		<u> </u>	JOSE NO. 14501	-138	SHEET HO.		HOLE NO. MISS-170R
UTE	MAYW	000	INTE	RIM	STOR	RAGE	SIT	E	COORDONTE	S		1	N8805,E1	0300			ANGLE	FROM HORD	<u>.</u>	BEARING N/A
2/7	/86	1	PLT 1/1/		DA	EN			AL SERVI	CES	H	-	6 MODEL E B-33		HOLE SIZE	OVERBLEDEN 4. Ü		ROCK ETJ		TOTAL DEPTH 5.5'
OPE		erieti. Va	/20		CO	N/	-	SAMPL N/A		N/A	SING (9.3	DEPTH/E	2.01/			DEPTH/EL.		* ROCK *45.3*
ALP!		MER W	DENT/	FALL		_	CASO	G LEFT	N HOLEI DIA	/LD&TH	 	·· -	LOGGED B	r.	P	.YEN				-
METER	SAMPLER ADVANCE LENGTH CORE RUN	CONE RECOVERY	B. Ours	IT CORE		PRES TE	SSUPE STS		ELEVATION	DEP TH	PRAPHIC LOG	SAMPLE	<u> </u>	DESCRIPT	ION AND CLAS	SFICATION +	···		WAT	ES COM ER LEVELS, ER RETURN,
AND DIAMETER	SALPLE	SONE R	Jums.	PERCE	103 ×	3	Pressure P.S.I	TIES N	49.3	0	GE PE	3							CHA	LING, ETC.
					61.5	2	MD 6	390 6°	49.0 48.3				\(N5), ANG	CRUSHE ULAR	D ROCK: ME				<u>Z</u> 7	-9-86
NIGER, 6°, THROUGHOUT.									45.3				SLTY, M 1.0-3.0': 3.0-4.0':	DIST. BLACK DUSKY	(ND. Brown (5)	R2/21.		R/ C(MOKU.	INATION BY
A165		! !				1		<u> </u>	43.8-	5.5	<u>-1///</u>	H	(ROR4/2). WEATHER	SOFT. EC, DRY	TONE; GRAY! FINE GRAINE (TO MOIST LE AT 5.5	D, SILTY,		Î At	NALYT	ECAL ATION
										10 15 20 25	***************************************			CKFILLE		ÆNT-BENTO	NITE	ACOPI LO VI	EPFOR DESCR ASSIF	ICAL ATION MED GAMBMA IN ICATION AND ICATION BY ICTION OF
	L 2•28	PLIT S		ST=SI	ETBA .	TUBE:			TTE.				0111 5200	.~	Tr		 .	HO	E NO.	
					5 0=0 11					MAY	#UUU I	NIL	RIM STOR	AUC).	116					MISS-170R



	G	EOL	OGIC	D	RIL	LL	OG		PF	OJECT		F	US	SRAP	-			JOB NO. 1450		SHEET] (ND. Fi	HOLE HO. MISS-171R
SITE	MAYW	000 1	NTERIM	ŞT	ORAG	E SIT	Ē	C00#	DOMES				N9	9185,E1	1015				AMGLE	FROM H		PEARING H/A
EGUN 7/8		•	PLETED 1/8/86		DWLLE		MORE T	RENC	H ERVICE	1-	FILL MA	-		HODEL B-33		HOLE S		OVERBURDEN		ROCK (17.5'	TOTAL DEPTH 8.0'
	E COYE	_1		7	COPE	BOXES	SAMPLE N/A	ıs	EL 10P (ROUN	ō		DEPTH/	EL. GROU		TER 47.2'		ОЕРТИ	15.5	F ROCK /41.7'
SAMPL		JER WE	DENT/FALL					N HO	ELDIA/LI	_	<u> </u>		1	LOGGED B	rs .			YEN		L		
£, 52			3840 300 840 840 840 840 840 840 840 840 840 8		PF	WATER ESSURE TESTS					8	ų,		<u></u>								TES ONE TER LEVELS,
SAMPLE O	SAMPLER ADVANIX.	CORE RECOVERY	SAMPLE BLOWS "Y" PENCENT CORE RECOVERY	LOSS	교회	P.S.I	M w M		WATION	HT-690 C	CRAMMC LOG	SAMPLE			DESCREPT	TION AND	CLASS	SEICATION #			CH	TER RETURN, ARACTER OF LLING, ETC. LD_RC
AUGER, 6°, THROUGHOUT.	31				7 5	ZND 6*	3. 3.00 C.	4	7.2 6.7	5 - 10 - 20 25 30			۸	(NE), ANO BALL AST 0.5-5.5' GRAINED 0.5-2.5' 2.5-4.0' 4.0-4.5' MOIST W 4.5-5.5' 5.5-8.0' (5YR3/4 WEATHEI BOTTOM	SAND SETY DUSKI DUSKI MODER GRAYI THE A GRAYI SANDS SANDS SANDS SANDS ACKFILL	GC-SN AND C BROW RATE B SH GRE CLAY I SH BRO TONE: TINE TURAT DLE AT	I, RAII D; FIN LAYE N (5Y ROWN EN (II LENSE WN (5 DUSK GRAIN ED. 8.0	E TO MEDI Y, MOIST. R2/2). (5YR3/4). OGY5/2); SYR3/2). Y RED ED. SILTY.	UM:		SITE C RADIOA CONTA EBERL ANALY CORPO EBERL ANALY CORPO PERFO LOGGI *DESC CLASIA	MINATION BY NE TICAL RATION RATION RATION RMED GAMMA NG. RIPTION AND HEICATION BY NATION OF
			SPOON ST					SITE	···-	35 MAY		INI	IE!	RIM STO	RAGE	SITE		·			HOLE P	n. MISS-171R



	G	EOI	OG	IC	DRII	LL	OG		PROJECT		FI	JSRAP	·····		JOB NO. 14501		SHEET NO.	ī	HOLE NO. MISS-172R
ELLE						GE SIT		COOPERATE	3		ı	N9100,E1	1080			ANGLE	FROM HORE 90°	-	BEA/BIG N/A
E GUN		,	PLTE		DRELL		MORET	RENCH	1		E AI	E B-33		HOLE SIZE	OVERBURDEN		ROCK OTJ		TOTAL DEPTH
	/86 RECOVE	RYFT	7/8/8 /20	-	CORE	BOXES	SAMPLE		of case		ROUN	D 61.	DEPTH/E	L. GROLAND WA	TER	· 	DEPTILEL	TOP OF	NOCK
AMPL		/A eer h	Thec	ALL	<u> </u>	VA CASE	K LEFT	N HOLE: DAL	N/A /LENSTH		4	7.2	Yı.	1.0'/		<u> </u>	,	3.0 /	43.4'
	N/A4							N/A		1	1	1		Р	.YEN			_	
AND DANETER	SAMPLER ADVANCE	RECOVERY RECOVERY	SAMPLE BLOWS	OVER!	P	WATER RESSURE TESTS		ELEVATION	H1 430	PARMEC LOG	SAMPLE		DESCRIPTI	ION AND CLAS	SFICATION *			WAT	ES ON ER LEVELS, ER RETURN, EXCTER OF
\$ 0 0	SAMPLE	SORE S	S. Salar		8 z 3	PPESSURE P.S.I	20 c. 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 2 x 30 3 3 x 30 3 x 30 3 x 30 3 x 30 3 x 30 3 x 30 3 x 30 3 x 30 3 x 30 3	47.2	0	STRO	S								LOG. ETC.
				Ť		280 \$	30 8	46.7		1111		(\n2).		ALT; GRAYIS				<u>Z</u> 7	-9-86
AUGER, 6", THROUGHOUT.								43.4 41.7	5.5			0.53, AN 0.5-3.8° SLTY A 0.5-2.5' 2.5-3.5' 3.5-3.8' WITH A 18-5.5' (5YR3/4	GULAR E SAND ND CLA DARK I NODER GRAYIS CLAY L SANCS	SP-SCHEIN YEY, MOIST. REDDISH BRI ATE BROWN H GREEN (I ENS. TONE: DUSK TINE GRAIN	E GRAINED, DWN GOR3/4 (5YR3/4), DGY5/2),	4).	ROBBANC ELACOP	NDIOAC XNTAM VERLIN VALYTI XRPOR BERLIN NALYT DRPOR	INATION BY E CAL ATION. IE ICAL IATION MED GAMMA
									10 - 15 - 20 -			BOTTOM	RED, DRY TOF HO ACKFRLE	7. LE AT 5.5 ED WITH CEI		DAITE	* C S E	DESCI ASSIF	REPTION AND ICATION BY
	50.	j Setr	SPOOM	57,51	ר אפנים	<u> </u>		SITE	35	<u> </u>		<u> </u>		176			HC	LE MO.	
					O-OTHE				MAY	#O00 1	INT	ERIM STO	RAGE S	11£					MISS-172R



	G	EO	_0G	iC	DR	LL I	LOG		PROJECT		F	USRAP			JOB NO. 14501		SHEET NO.	HOLE HOL MISS-173R
SITE	MAYW	2000	INTE	RIM	STORA	NGE 51	TE	COORDINATI	Ė	<u> </u>		13,008SM	0280			ANGLE	FROM HORIZ.	BEARING N/A
9E9J	N 3/86		PLETE 7/8/1		DAG		MORE T	RENCH AL SERVI				E B-33		HOLE SIZE	OVERBURDEN		2.0°	TGTAL DEPTH
COPE	RECOVI	RICT.	/10		1	e boxes N/A	SALP!		P OF CAS N/A	anc S		D R. β. 6	DEPTH/E	L GROUND WA	(TER '41.6'		DEPTH/EL TOP 5.5	
SALP	LE HAM	MER WE	JGHT/F	ALL		CAS	NG LEFT	N HOLE: DIA	/LENGTH	<u>l</u> _		LOGGED B	Y1.	P	YEN			
SAMPLE TYPE AND DUNETER	SAMPLER ADVANCE LENGTH CORE MIN	SAMPLE RECOVERY CONE RECOVERY	SAMPLE BLOWS	NY COME OVERY		WATER PRESSURE TESTS		ELEVATION	ОЕРТИ	рамнес 1.00	SAMPLE		DESCRIPTI	ON AND GLAS	SFICATION +	· · · · ·	W.	TTES ON. LTER LEVELS, ATER RETURN,
SAMPL	SAMPLE	SOME	AMAX.	RECE	1055 1055 1054	SPRESSURE P.S.I	20 C	48.6	0	CRAP	75						C	HARACTER OF
AUGER, 6°, THROUGHOUT.						30.8		48.2 47.8 43.1	5			0.4-0.8'; GRAY (N 0.8-5.5'; SETY, M 0.8-65'; L5-2.5'; 2.5-3.0'; ASH AND: 3.0-5.5'; SANDSTO	CRUSHE 4), ANGO SAND C OISI. DUSKY I MEDIUM SLUDG OLIVE (ONE FRA	D ROCK MI LAN BASAL SC-SMD; FIN RED (SR3/4 BROWN (SYF LIGHT GR/ E. GRAY (SY4/ GMENTS. GNE: DUSKY	E GRAINED, D. R2/2). AY (N6), WITH (D, WITH	н	CONTA EBERL ANALY CORPO EBERL ANALY	TICAL PRATION. NE
									10 - 15 - 20 -			(5P.374). FINE GRA BOTTOM	SOF T AINED, SI OF HOL CKERLLE	U MODERAT LTY, WEATH E AT 7.5	TELY HARD, IERED, MOIST		*DESC CLASS VISUA EXAM CUTTI	NATION OF
					OPOTHE		S	Π£	MAYW	000 IN	ITEF	RIM STOR	AGE SI	ΓE			HOLE NO	MISS-173R



																	T-:	_	
	G	EOL	OGIC	D	RIL	LL	OG		PROJECT		Ft	JSRAP		 	JOB HO. 14501		SHEET NO.		HOLE NO. NISS-174R
SITE	MAYW	000 1	NTERIM	ST	ORAG	E SIT	£	COOPDOATS	is .			19190,E1	0200				FROM HOREZ	,	BEARING N/A
BEGIN 7/8			PLETED 1/8/86		DALLE		MORETI INMENT	RENCH AL SERVI			-	E B-33		HOLE SIZE	OVERBLIRDEN 3.5	_	1.5	•	TOTAL DEPTH
COPE		RYGTL	70			BOXES /A	SAMPLE N/A		P OF CASE	G G		D EL. 8.7	DEPTHAT	NONE O	ATER BSERVED		DEPTH/EL		ROCK '45. 2'
SAP	E HAM		ON/FALL		- -	CASO	E LEFT	DI HOLE: DIA. N/A	/LDISTH			LOGGED 8	Ť:	F	YEN		.		
TYPE			BLOWS CONE		PR	VATER ESSURE TESTS		ELEVATION	MT-730	901 :	SAMPLE	1	necess	ION AND CLAS	SSEVEATION			WATI	SS CHE ER LEVELS, ER RETURN,
SAMPLE TYPE AND DUNETER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	HENCENT COME WE SHARE BLOWS		z 3	PPESSIFE	26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	48.7	0	GRAPHE								DATE	PACTER OF LING, ETC.
6" THROUGHOUT						<i>2</i> -24 \$		47.2	1.5	20		ON5), AN Bail as	GULAR I I.	BASALT, RA	DLM GRAY LROAD DERATE BROY LTY, DRY.	WN.	RA CO EB	DIDAC NTAM ERLIN ALYTI	ination by E
ER 6" TI								45.2 43.7	3.5 - 5.0 -			3.5-5.0° (5R3/4) FIME GR	SANDS SOF	TONE DUSK TO MODERA B TY, WEAT	Y RED TELY HARD, HERED, DRY.				_
AUGER												BOTTOM	OF HO	LE AT 5.0 ED WITH CE			ACCED OCLYEX	RFORGGING ESCRIPTION ASSIF ASSIF ASSIF TITING	ATION ATION AND PITION AND ICATION OF
			SPOON STE					SETE	MAY	W000	ודאו	ERIM STO	RAGE S	SITE			112	LE HO.	NISS-174R
L					V : PE														



																				
	G	EOL	OGIC	D	RIL	LL	.0G	<u> </u>	PROJE	ECT		F	USRAP			JOB NO. 14501	-138)F I	MISS-175R
SITE	MAYW	000 1	NTERIM	ST	ORAG	E SIT	E	COORDINA	TES			1	N8695,E1	605			ANGLE	90°		BEARING N/A
9£619 7/8	/86		PLETED 1/8/86				MORET NIVENT	RENCH AL SERV	1CES	DFa.			.E B-33	·	HOLE SIZE	OVERBLIRDEN		ROCK F	נדי 1.0'	TOTAL DEPTH
CORE	recove N	RTET.	/20			BOXES /A	SAMPLE N/A		OP OF		C		о <u>ст.</u> 8. З	DEPTH/E	L. GROUND WA	TER '41.3'	-	DEPTHAT	EL TOP (F ROCK
SALPI	E HAME		DHT/FALL			CASI	C LEFT	N HOLE: DI	A.A.DG	TH			LOGGED BY	t	 Р	YEN.		- 		
TYPE ETER	ADVANCE ORE RUH	COVERY	BLOWS CORE		PR	WATER ESSURE TESTS		ELEVATIO		Į.	901	SALPLE		TROPIZA	ON AND CLAS	CEUPATION A			WA"	TES DNs TER LEVELS, TER RETURN,
SAMPLE TYPE AND DIAMETER	SAMPLER ADVANCE	SAMPLE RECOVERY	SANPLE BLOWS "H" PERCENT COPE RECOVERY		7 43	PRESSURE 9. P.S.I	M THE ON IN	48.3	ļ	E DE	SPAPPIC LOG	3				or contact.			CHA	PRACTER OF
AUGER 6" THROUGHOUT								47.9	5				0.4-5.5 : Sil TY, C	SANU	(SC-SM); FIN	BLACK (NZ E GRAINED, BROWN SLUDGE AND 6.5 FT).			RADIOA CONTAN EBERLIN ANALY CORPOR	JINATION BY NE ICAL NATION. NE ICAL ICAL ICAL ICAL ICAL ICAL ICAL ICAL
				<u> </u>				41.8 40.8	6	5 1			E.S7.5/: 1573/4), FINE SR/	SANDS SUE JNED, S	ONE: DUSK C MODERA LTY, YEAT	Y RED TELY HARD, TERED, HOIS	ī.		LOGGIA	7-9-86
										25 30 35 35				CKFILL	LE AT 7.5. ED WITH CE	MENT-BENTO	3T!#C		• DESCR CLASS# VISUAL EXAMIN CUTTIN	
			POON STAS				1	RTE.			000	INT	RIM STOR	AGE S	ITE				HOLE NO	MISS-175R



								1.								1			T		Inara na
	Gl	EOL	OGIC	D	RIL	<u>L L</u>	.0G		PROJECT		F	KS —	SRAP				1501			OF I	HOLE NO. NISS-176R
SITE	MAYW	1 000	NTERIM	STO	RAG	E SIT	E	COORDONATE					3700,E1070	00				ANGLE	FROM H		BEARING N/A
86 GLB			PLETED	D	MALLE F		MORE TO	RENCH AL SERVI					HODEL B-33		HOLE SIZE	OVERBL	4.0°		ROCK (6.0'	TOTAL DEPTH 4.0'
	RECOVE			7	OPE	DOXES	SAMPLE N/A	S EL TOP	OF CAS		CROU		EL. DEF	PTHZEL	SPOUND WA		<u></u>		DEPTH	EL TOP O	F NOCK
SALFI	E HAND	ER 110	GIT/FALL					N HOLE DIA		1			LOCCED BY.			. YEN			<u> </u>		
	\ / []	- 1		1		DATER	·	N/A			_	لح				. ILN					
TYPE	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY	2 0 E			essure Tests			=	8	7									WAT	ES ON ER LEVELS,
SAMPLE TYPE AND DAMETER	FIER S	FIE REC	SAMPLE BLOWS "W PERCENT COME	SS01	. 3	EPPESSURE P.S.I	TIME IN MENUTES	ELEVATION	ME TA	PRAPHIC LOG	SAMPLE		DES	CREPTIC	N AND CLAS	SECATIO	N •			ÇH	ER RETURN. RACYER OF LING, EYC.
v a	313	38	3 IE		3	200 6°	390 5	48.3	0	Ľ		L	0.0-0.3': AS	DHAL	T. BRAYICH	RIACY	(N2)	<u></u>		CITE M	ECKED FOR
HOUT		ے ا						47:8	8:3			Γ	0.3-0.5': CR GRAY (N4),	(UZ) E	ROCK: M	EDIDNE:	DARK	<u>•</u>		RADIDA CONTAI	CTIVE Enation by
6* ТНРОИСНОИТ												ľ	0.5-4.0°: SA (5YR2/D, FI	IND (S	C-SW: BR	OWNISH	BLAC	X		EBERLI ANALY	E ICAL
				ļ	_			44.3	4.0	<u> </u>	<u>: </u> _	Ļ	BOTTOM OF	יאני	7 47 40	<i>E</i> 7				CORPOR	
AUGER									5 -				HOLE BACK	FILLEE			ENTO	NITE		EBERLII ANALY CORPO	FICAL RATION
										=			GROUT, 7/9	/ 00.						PERFOR	EMED GAMBIA
	,								•	=										STOPP	D DRL E AT 4.0 FT FUNES
]										ABOVE	THE HOLE
									10.	1										RAPIN	VENTED Y AND NO
										-		İ								BE MA CONCE	REMENT COULD DE THE ITRATION
										7										ł	ITRATION THE HOLE
									15	=										•DESC CLASS VISUA	RPTION AND FICATION BY
										=										EXAME	IATION OF
		!								‡											
										7											
									20	-											
										1											
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			POON STES NPPROE					a 1 L	MAY	W000	ואנ	ER	IN STORAG	£ 51	TE						MISS-176R



	G	EOL	.OGi	С	DRII	LLL	.0G		PROJECT		FL	ISRAP			JOB NO. 14501	-138	SHEET NO.	HOLE NO. MISS-177R
ITE	MAYW	000 1	NTER	IM S	TORA	GE SIT	Έ	COORDONATE	S		N	18700,Ē1	0800			AMGLE	FROM HORIZ. 90°	BEARING N/Á
7/8	/86	- 1	PLTED 1/8/8		DARLL		MORET NMENT	RENCH AL SERVI	- 1			E 8-33		HOLE SIZE	OVERBURDEN 6.0		ROCK 673	TOTAL DEPTH
OPE	RECOVE N	РУСТ. / A	/10			DOXES VA	SAMPLE N/A		or casi N/A	NG G	ROUNE 48) EL. 3. 4	DEPTH/E	1. GROUND WA 7. 0' /			DEPTH/EL. TOP	of Mock 0'/42.4'
MPL		ÆR WE	CHT/F#	#I	<u> </u>	CASH	G LEFT	N HOLES DIA. N/A	/LENGTH			LOGGED B	Yı	P	.YEN		•	
AND DIANETER	SAMPLE ADVANCE LEJETH CORE PLIN	SAMPLE RECOVERY	SAMPLE BLOWS	COVERY	PI	WATER RESSURE TESTS	•	ELEVATION	нгазо	GTAPHE LOG	SAMPLE		DESCRIPT	ION AND CLAS	SIFICATION+			OTES ONE HATER LEVELS, HATER RETURN, HARACTER OF
3	SANET	SAMPLE	SAMP		S Z S	PPESSURE P.S.I	MI NO STANTA	48.4	0	185 185								RELING, ETC.
AUGER 6" THROUGHOUT						Z40 6	SHED BY	48.0	8:4			0.4-0.8 GRAY 0. 0.8-5.0 SILTY, D 0.8-1.5': 15-2.0':	CHUSH M, ANG SAND RY. DUSKY BLACK	D ROCK: M	D. LUDGE.		RADIO CONT EBERI ANAL CORP EBERI	CHECKED FOR IACTIVE AMMATION BY LINE VITICAL ORATION LINE OPATION OPATION OPATION OPATION OPATION OPATION OPATION OPATION OPATION OPATION OPATION OPATION
₹								42.4 40.9	5.0 7.5			6.0-7.5 (IOR2/2)	SANUS SOF	TUNE: VERY INE GRAINE ST.	DUSKY REC D, SILTY,)	Lõgo	NG7-9-86
									10 -				ACKFILLI	LE AT 7.5	VENT-BENTO	CNITE	CLAS Vislia	ENATION OF
	 !نکا	J			ELBY TU		1	SIL	35 MAY		L	RIM STO	DARC C	175			HOLE	но. MISS-177R



7	G	EOL	OG.	IC	DRI		OG		PROJECT		FU	SRAP			JOB NO. 14501		SHEET NO.	1	HOLE NO. MISS-178R
SITE	MAYW	000 I	NTEF	RIM:	STORA	AGE SI	ſΕ	COORDONATE	S		N	8700,E1	0910			ANGLE	FROM HORIZ 90°	•	BEARING N/A
7/9.	/86	7	PLETE /10/		DAL	ENVIR		AL SERVI	1	MC	CE AN	E B-33		HOLE SIZE	OYERBURDEN 5. C		ROCK OT 3 2.5		TOTAL DEPTH
CORE		riet. /k	<i>n</i> o			e boxes N/A	SAMPLE N/A		N/A			3. 4	UEF INV		43. 4'				′43.4 ′
AMPL	E HANG N	ER VE	OHT /F	MIL		CAS	NG LEFT	BI HOLEIDU. N/A	/LDGTH			LOGGED 1	IYı .	P	.YEN				
TYPE NETER	SAMPLER ADVANCE	COVERY	JA. STAPPLE BLOWS	VERY		WATER PRESSURE TESTS		ELEVATION	H 430	GRAPHIC LOG	SAMPLE		DESCRET	TION AND CLAS	SFICATION •			WAT	es one er levels, er return,
SAMPLE, TYPE AND DIANETER	SAUPLER LENGTH C	SAMPLE P	a. 31dPers	PERCEN PECS	8 2 3 8 2 3	PPESSURE P.S.I	260 mm m m m m m m m m m m m m m m m m m	48.4	8	148	SA								RACTER OF LING, ETC.
					<u>PI 6.</u>	28.7 9		46.9	0.3	0.0		0.3-15' GRAY (! 15-5.0' SILTY. 15-2.5'	F.C.CO (8), HAR SAND	isc-sad; fini Dusky red	IT LIGHT GRAINED, (IOR2/2).	2).	RA CC	(DIDAC XITAN (FR' IN	INATION BY
AUCER, 6", THROUGHOUT.								43.4	5 -			#:TH MI 2.5-5.0 5.0-7.5 (5R2/2)	NOR TIZ '1 GRAY!! '1 SANDS	2" MINUS GR SH BROWN (TONE: BLAC TO MODERA	AVEL. 5YR3/2). K!Sm RED	,	E8	IERLIN IALYT IRPOR IRPOR IRPOR	E 7-17-8 ICAL F ATION HED GAMMA
								40.9	10 -			HOLE B		DLE AT 7.5 ED WITH CE		ONITE	•[C. Vi	ESCR ASSE	PTION AND ECATION BY
-					HELBY Riceot		_J	झाह	35 MAY		INT	ERIM ST	DRAGE	SITE			н	OLE M	MISS-17BR



Description Comparition	MATERIAL		(GE	OL	.00	GIC	D	RIL	LI	LOG		ľ	ROLECT			FU	SRAP			JOB N 145	n. 01-138	SHEET	MC.	HOLE NO. MISS-179R
17/9/86	Typy Typy	SITE	MAY	WO(20 1	INTE	RIM	570	ORAC	SE SI	TE	ű	XOROMATES	\$			N	8700,E11	000			ANGLE			1
DOWN NAME TO SOME DOCK SHAPPLES IN THE RECOGNISH OF A SOUTH AND SHAPPLES IN TH	Martin Martin				i			1															ROCK		TOTAL DEPTH
SAMPLE MANAGE SECTION AND CLASSFEATION - WATER CLAS	SAMPLE WARRY ROOM FATAL LEAD FOR THE STATE OF THE STATE	ORE				/20		1	COTE	BOXES	SALE	LES	EL TOP	OF CAS		GRO	UNO	EL.	DEPTH/E	L. SROUND WA		 	DEP!H	VELL TOP	OF MOCK
WE THIS DESCRIPTION AND CLASSFEATION WITH CONTROL AND CLASSFEATION	THE PROPERTY OF THE PROPERTY O	MP.	LE HA	ME	R ME	CHT/	FALL						HOLE: DIA./			Щ			ì.				1		- 110
44.6 0.8 1 0	46.8 0.8 CO-DET, SSMALT GRAYSH BLACK NO. STIC CHEERS TO BLOCK NO. STATE CHEERS TO BLOCK NO. STATE CHEERS TO BLOCK NO. STATE CHEERS TO BLOCK NO. STATE CHEERS TO BLOCK NO. STATE CHEERS TO BLOCK NO. STATE CHEER TO BLOCK NO.	¥ 55			- 7	S S	. 6€		PF	RESSURE					8		T	<u> </u>		<u>.</u>					
46.8 0.8	DO COLDER ASSAULT GRAYSH BLACK CR. 44.6 B	SAMPLE TO AND DIANET	AMPLER AD	AUPI C DEL	CORE RECO	SAMPLE BL	PERCENT C	2035 2035			3 2	E1			GRAPHIC L	i i i i		t	escreti	ON AND CLAS	sekation •			CHI	TER RETURN. PRACTER OF
44.6 3.0 SLTTM MOST. SAMPSTORE DUSAY RED SSTAN SOFT TO MODERATELY MARD, SSTAN SOFT TO MODERATELY MARD, SSTAN FOR HOLE AT 7.5 FT. HOLE BACKFILLD WITH CEMENT-BENTONITE 10 TO THE BACKFILLD WITH CEMENT-BENTONITE 10 TO THE BACKFILLD WITH CEMENT-BENTONITE 15 TO THE BACKFILLD WITH CEMENT-BENTONITE 15 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 22 TO THE BACKFILLD WITH CEMENT-BENTONITE 25 TO THE BACKFILLD WITH CEMENT-BENTONITE 25 TO THE BACKFILLD WITH CEMENT-BENTONITE 25 TO THE BACKFILLD WITH CEMENT-BENTONITE 25 TO THE BACKFILLD WITH CEMENT-BENTONITE 25 TO THE BACKFILLD WITH CEMENT-BENTONITE 26 TO THE BACKFILLD WITH CEMENT-BENTONITE 27 TO THE BACKFILLD WITH CEMENT-BENTONITE 26 TO THE BACKFILLD WITH CEMENT-BENTONITE 27 TO THE BACKFILLD WITH CEMENT-BENTONITE 28 TO THE BACKFILLD WITH CEMENT-BENTONITE 29 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 27 TO THE BACKFILLD WITH CEMENT-BENTONITE 28 TO THE BACKFILLD WITH CEMENT-BENTONITE 29 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT-BENTONITE 20 TO THE BACKFILLD WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEMENT WITH CEM	STATE DESCRIPTION OF THE PROPERTY OF STATE OF ST		\siz	1	<u>م</u>			E1	5.	290 6	3760 6	-			-	3	1								
SITY WEATHERED, DRY TO 6.0 FT, THEN STATE WEATHERED, DRY TO 6.0 FT, THEN FORMED GAMPA FORMED GAMP	SELTY MEATHERED, DRY TO 6.0 FT. THEN CORPORATION AND	коиснои																0.8-3.0': (5YR2/2) SILTY, MC	SAND (ST. ST.	SC-SM); DU ACK (ND, FR	SKY BROW JE GRAINE	N O,		CONTAI EBERLI	JINATION BY
BOTTOM OF HOLE AT 7.5 FT. BOTTOM OF HOLE AT 7.5 FT. HOLE BACKFELED WITH CEMENT-BENTONITE GROUT, 7/9/86. 10	20 - 35 - 35 - 35 - 35 - 35 - 35 - 35 - 3	ER 6• 1⊞											44.6					(5R3/4). ! Silty, We	SANDS SOF I ATHER	CME: DUSK C MODERA D. DRY TO	Y RED TELY HAR! 6.0 FT.) Hen	1	EBERL!	NE ANALYTICAL PATION PER-
BOTTOM OF HOLE AT 7.5 FT. HOLE BACKFELED WITH CEMENT-BENTONTE CLASSE FOATION OF CLASSE FOATION OF CUTTINGS.	BOTTON OF HOLE AT 7.5 FT. HOLE BACKFILLD WITH CEMENT-BENTONITE GROUT, 7/5/86. 10	V AC											<i>ል</i> ስ ፣]			###JJ14							
35				1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								STE		20				HOLE BAC	KERLE			CONTE		YSUAL EXAMN CUTTIN	ATION OF



																		1		T
	G	EOL	OGIC	D	RIL	LL	.0G		PROJECT		F	US	SRAP			1450	11-138		OF I	MISS-180R
SITE	MAYNO	000 1	NTERIM	ST	ORAG	E SIT	Ε	COORDONAT				NE	B700,E1	1200			<u>.l</u>	90°	٥	BEARING N/A
7/10		•	PLETED /10/86		OPRLE E		MORE TO	RENCH AL SERV	1				MODEL B-33		HOLE SIZE	OVERBLEDE 10	.0' .0'	ROCK	0.0, LIJ	TOTAL DEPTH
ONE	NE COVE	RYGT.	/20			DOKES /A	SAMPLE N/A		P OF CAS	JNG.	GAOU		EL. . 6	DEPTHA	L. GROUND T	IATER ORY		DEPTN.	/EL. TOP (F ROCK VÅ
MP.		er ne	DIT/FALL			CASO	C LEFT	N HOLE: DA	ALENGTH.		l,		LOGGED B	Y1		P.YEN		<u> </u>		
£ ₽		-1			PF	WATER WESSURE TESTS				8	<u></u>		l							TES ON: TER LEVELS,
SAMPLE TYPE AND DIAMETER	SAMPLER ADVANCE LENGTH CORE RUN	CORE RECOVERY	PENCENT CONE NE RECOVERY	1055	z 3	OFFESSURE P.S.I	THE N MPUTES	ELEVATION	8	GRAPHC LOG	SAMPLE			DESCRIPT	TION AMO CLA	ASSERVATION o			CH	TER RETURN, VRACTER OF LLUNG, ETC.
AUGER 6" THROUGHOUT						240 6		47.6 47.3 47.3	0.3 0.3 5.0 5.0 10 20 25				0.3-0.5' (N5), AN 0.5-10.0 SL 1Y. 0.5-10.0 WITH 1F LO-2.0': CONCRE 2.0-3.0' CONCRE 3.0-6.5-10.C (10) KG/FTA.	ERUSE GULAR ': SAND MODER ACE OF GRAYIS TE FRA : DUSKY !: PALE 2), WITH OF HK ACKFILL	ED ROCK; BASALT. (SC-SMO; F ATE BROWN GRAVEL. HI BROWN GMENTS. RED (SR3 GMENTS. YELLOWISE CLAY SEA	5YR2/2). H BROWN AM (7.5-7.8	АY D, ПТН		RADIOA CONTAI EBERLY CORPO EBERLY AMALY CORPO PERFO LOGGIN	INTERPLEMENT OF THE TENT OF TH
									36	*******										
			SPOON, STA					आर	W	YWDOD	ואו (ΙEΙ	RIM STO	RAGE	SITE				HOLE N	M1SS-180R



	G	EOL	OGI	IC I	DRII	LL	OG		PROJECT		FL	ISRAP			JOB NO. 14501		SHEET H	ro. IF I	HOLE NO. MISS-182R
ATE.						SE SIT		COORDONTE	\$			1860D,E1	1100		<u>. </u>	AMGLE	FROM HO	RØ.	BEAUG N/A
EGLM	786		/10/8		OPEL!		MORET	RENCH AL SERVI			E AN	D MODEL		HOLE SEE	OVERBURGEN		ROCK 0	رة 5'	TOTAL DEPTH
	NE COVE				COPE	POXES VA	SAMPLI N/A	S EL TO	OF CASE		ROLDE	D EL. 6. 4	DEPTHE	1. 29040 WA 5. 0'/	TER		DEPTINE	1. TOP 0	<u> </u>
MP.	E HAM	EN IE	OF THE		<u> </u>			BH HOLE: DIA.		L	11	LOGGED B	Υ1		YEN.		<u> </u>		7.50.3
E TIPE INETER	SAMPLER ADVANCE LENGTH CORE RUN	RECOVERY ECOVERY	SAMPLE BLOWS 'N' PERCENT COME	VERT	PI	WATER RESSURE TESTS		N/A ELEVATION	H1 430	PRAPHEC LOG	SMPLE		DESCRIPTI	ON AND CLAS				WA!	TES CING TER LEVELS, TER RETURN,
20 ON	KLENET EN	SORE I	SAMP!	200	2 3	PPESSURE P.A.I.	7 × 2	46.4	0	S8	3								racter of Ling, Etc.
AUGER 6" THROUGHOUT						290 6	390 s*	46.1	0.3			0.3-7.5' 0.3-4.0' ASH 0NT 4.0-7.2'	: SET A : BROWN '). : BLACK	NO SLUDGE ISH BLACK	(5YR2/1) Sai : With Fibet	NDY SI	LT,	RADIOAI CONTAN EBERLIN ANALYT CORPOR	MATION BY
						_		38.9 36.4	7.5			BROWN SILTY, W	(5YR6/4 ÆATHER	(SC-SM): PA WN (IOYR6/)), SOFT, FIN ED, MOIST T	LE 2) TO LIGHT E GRANED, TO SATURAT	ED.		EBERLII ANALYI CORPOR PERFOR LOGGIN	FICAL RATION RNED GAMMA
									20 -			-	ACKFILLE	D WITH CEI	WENT-BENTO	DE LE LE LE LE LE LE LE LE LE LE LE LE LE	- 1	CLASSI VISUAL	APTION AND FICATION BY ATION OF GS.
			SPOON, S				1	STE		000 1	NTE	RIM STO	RAGE S	ITE				HOLE NO	WISS-182R



	G	ΕO	_0(GIC	DR	ILL I	OG		PROJEC	π	•	Fl	ISRAP			14501	-138	SHEET NO.	HOLE NO. MISS-183R
E CO.			INTE			AGE SI	MORET	COORDONATE	<u> </u>	DRELL	wak!		18600,E1	200	HOLE SEE	OVERBLEDEN		FROM HORIZ. 90°	N/A TOTAL DEPTH
	0/86	DOFT.	/10 /20	/86	COR	E BOXES	ONMENT SAMPLE	AL SERVI	P OF C	SAIC		OLM	E B-33	DEPTH/E	L. SPOUND WA		•	2.5'	
	E HAM	VA MER HI VA	ont.	THE	_1_	N/A Cus	N/A	M HOLEIDAL N/A	N/A /LENGTI	н	<u>i</u>	41	LOGGED BY	<u>'i</u>		'40.4'		1.5	'/38.9'
ETER	OVANCE NEW	COVERT	RE CHES	3 60 E		WATER PRESSURE TESTS			2	8		W						₩.	TES ON
AND DAMETER	SAMPLER ADVANCE	SAMPLE R	SAMPLE BLOWS	PERCENT CONE RECOVERT	E 1055	PPESSURE F.S.I	M THE SW	ELEVATION 46.4	250	ã		SAMPLE	•	XESCRIPT	ion and clas	SIFICATION &		CH	ITER RETURN, MRACTER OF ELLING, ETC.
AUCER, 6", THROUGHOUT.					- 4 ()			46.2	5.0				0.2-7.5': SILTY, MA ROOTS, A	SAND RST, WI ND WO MODERA	SC-SMAFIN TH LIGHT C DD FRAGME! TE BROWN	OLORED ASH NTS.		RADICA CONTA EBERL ANALY CORPO	MINATION BY NE
₹								38.9 36.4	7.5		- Language		7.5-10.0's Brown G Silty, We	SANDS ORS/4) ATHER	TONE: PALE SOFT, FINE D, SATURA	REDDISH GRAINED, TED.		EBERLI ANALY CORPO PERFO LOGGIN	TICAL RATION RMED GAMMA
									20 25 30					CKFILLE	LE AT 10,0 D WITH CEN	ENT-BENTO	NTE	CLASS VISILA	nation of
					ELBY TI C=OTHE		S	78			IN	TER	IM STORA	GE SI	TE			HOLE MO	MISS-183R



	G	EOL	.0(GIC	D	RIL	LL	OG		PRO_ECT		F	USRAP		<u></u>	јав но. 1450:		SHEET NO		HOLE NO. MISS-184R
SITE	MAYW	000	INTE	RIM	STO	DRAG	Æ S11	E	COORDINATI	E\$			N8500,E1	1100			AMCLE	FROM HOR	ø.	SEARING N/A
866719 7/10			AET /10.		(MALLS S		MORET	RENCH AL SERV				NO MODEL	· · · · · ·	HOLE SIZE	OVERSURDEN		ROCK OFT.	-	TOTAL DEPTH
COPE	RECOVE	RYFT.	/20		1	COPE	BOXES /A	SAMPLE N/A	ES JEL TO	P OF CAS		ROUI	O EL.	DEPTH/E	L. GROUND WA	TER (41.9)		DEPTH/EL	TOP C	<u> </u>
SAMPL	E HAMB	ER SE	DOUT/	FALL					PH HOLE: DIA. N/A				LOGGED B	<u> </u> Yı	-	YEN	•	1	0.5	
							WATER		N/A			Т	<u> </u>			. IEN				
TYPE	SAMPLER ADVANCE	SAMPLE RECOVERY	BI OWS	PLACENT CORE RECOVERY			ESSURE TESTS			2	8	SAMPLE							WAT	es one Er levels,
SAMPLE TYPE AND DIANETER	E E	AFTE RE	SAMPLE BLOWS	RECO	× 2	3 3	PPESSURE P.S.I	N N N N N N N N N N N N N N N N N N N	ELEVATION	DEPTH.	DRAPHIC LOG	3		DESCHAP I	ION AND CLAS	SEICATION 4			CH	ER RETURN, RACTER OF LING, ETC.
~ 5	319	3 3		10.	51	3	200 6:	380 5	70.7	0			0.0-0.37	. ACDEA	T. POAVICE	BLACK (NZ				ECKED FOR
1001									46.1	0.3	3					E GRAINED,	<i>,</i>	3	ነልቦነቦል፣	ELKED FOR CTIVE ENATION BY E
AUGER 6' THROUGHOUT												:	0.3-2.01	: MODER	ATE BROWN	(5YR3/4).	н	I A	INALYT	Æ ICAL KATION.
1.9											<u>-</u> :::::	:	FROM 2.	0-6.5 F FT.	T. AND BRI	(2), WITH AS CK FRAGMEN	iT\$	7	_	-17-86
NUGER										5 .			4.0-5-6	5': MED!	IUM DARK (GRAY (N4).		E	- Berlin	£
				٠					39.9	6.5	1111					REDDISH B		- A co	TY LAN.	ical Ation Med Gamma
	!	!	ļ			_		<u> </u>	38.4	0.8	<u>-1838</u>	1	GRAINED	. ST. TY.	MEATHERE	ATELY HARE D _e saturate), FINE D.	<u> L</u>	OGGING	
]			CKFILLE	LE AT 8.0 ID WITH CE	ri. MENT-BENTO	NITE	10	LASSI	PTION AND FICATION BY
										10.	=		ופטאט,	17!17.00	•			15	ISUAL XAMIN IUTTIN	ATION OF
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		PLIT S Danison					-	S	ITE	MAY	#D00 1	NTE	RIM STOR	AGE SI	TE			H	OLE NO.	MISS-184R



	G	EOI	OGIO	<u> </u>	DRII	LL L	.0G		PROJEC	n .	 1	FU	SRAP			JOB NO. 14501	-138	SHEET N		HOLE NO. MISS-185R
SITE	MAYW	000	INTERI	Ħ Z	TORA	GE 511	E	COORDNATI	ES			N	8500,E11	190			ANGLE	FROM HO	•	BEARING N/A
BEGIN	0/86	1 1	#LETED		DARLL		MORET	RENCH AL SERVI	INTE			ANC	NODEL B-33		HOLE SIZE	OVERBURDEN		ROCK OF	تا اد5'	TOTAL DEPTH
	RECOVE				COPE	DOXES	SAMPLI N/A	S EL. 10	P OF CA		GROL	NO.		DEPTH/E	L. CROUND WA				L TOP (1
SAMPI	E HAM		DEHT/FAL	ı	<u> "</u>		1	HOLE: DIA. N/A		4	L		LOGGED BY	<u>'</u> •		YEN		<u> </u>	1.3	7 30. 0
			<u> </u>	\top		WATER		N/A		-	1	T	1		r	. IEN				
TYPE WETER	ADVANC	COVERY	SM0.19		Pl	RESSURE TESTS		ELEVATION	₽	81	SAME			hreaman a		6 F (8 4 T) F(1)			WA1	ES CON ER LEVELS.
SAMPLE TYPE AND DIANETER	SAMPLER ADVANCE	WPLE R	SAMPLE BLOWS "N" PERCENT COME	SS OSS	z 3	PIESSURE PIESSURE	360 S.	ELEVAIRM	HL436	GRAPHE LOG	7		•	DESCRIPTION OF THE PROPERTY OF	ion and clas	SPRAIRE 4			CHA	TER RETURN, RACTER OF LING, ETC.
	בוג	30		15	57 6	290 6	390 6	46.3 46.0	0.3		<u>.</u>	ļ	0.0-0.3':	ASPHA	T: SRAYISH	BLACK (N2),		SITE CI	ÆCKED FOR
CHOUT								10.0					0.3-7.5': SALTY.	SAND	(SC-SM); FIN	E GRANED,			RADIOA CONTAN EBERLII	CTIVE MNATION BY JE
6• ТНРОИСНОЦТ													1.0-2.0': 1 2.0-5.0':	DUSKY Black	BROWN (5Y)	R2/2).			ANALY TOPPOP	ICAL RATIONL 7-17-86 \to
AUGER 6'									5.0				APPEARA 5.0-7.5': SLUDGE		LIGHT GRAY	(NB), WITH			opor (F BENZENE 2.0-7.5 FT.
AU										4								- 1		
								38.8	7.5	1		-	7.5-10.01	SANDS CYF6/2	JONE: PALE 2), SOFT, FIN	YELLOWISH E GRAINED,		1	EBERLA ANALY CORPOR	ICAL PATION
				\perp				36.3	10	122		L			E AT 10.0				LOGGIN	NED GAMMA
									20 25				HOLE BA GROUT, ?	CKFILLE	ID WITH CEI	MENT-BENTO	CHITE		CLASS! VISUAL	RETION AND FICATION BY ATION OF GS.
	£6.64	P1 F7 E1	POOM ST:	<u></u>	RY TIE	K ,	Is	TE	35										KOLE NO.	
			P=PIT CH						MAY	W000	INT	ER	IM STORA	AGE SI	TE					MISS-185R



•	(EO	L	OGIC	D	RIL	LL	.0G			PROJECT		FL	ISRAP			JOB NO. 14501	1-138	1	OF I	HOLE NO. NISS-186R
SITE	MAYI	1000	IN	TERIM	ŞT	ORAG	Æ SIT	E	800	ROBATE	\$	•	ı	N8595, I	0995			AMGLE	FROM H		BEARING N/A
7/10		- 1		ETED 10/86		DELL		MORE I		CH SERV1	1			D MODEL E B-33		HOLE SOT	OVERBLIRGEN		ROCK O	FTJ 3.5'	TOTAL DEPTH
	NE CO	ERTE			-	COPE	BOXES	SAUPL	ES	EL. TOP	OF CASE		ROUNE	0 EL. 7. 4	DEPTHA	L. CROUND WA				/EL TOP (
SAIF	E HA		WEJG	T/FALL	_1	74.	/A	1	84 H C	LE DIA.	LENSTH			LOGGED	BY:				<u> </u>		, 10.3
		VA.	_				WATER		T	N/A	1	1	тт				YEN				
LE TYPE MANETER	CORE RIM	SAMPLE RECOVERT	SAMPLE BLOWS	PERCENT CORE RECOVERY		PF	ESSURE TESTS	<u>,,</u>	l n	VATION	HT 430	PRAPHIC LOG	SAMPLE		DESCRIPT	ION AND CLAS	SEKATION +			TA TA	tes one ter levels, ter return, vracter of
3 3	3	3	3	55		23	PRESSUR 1.2.1	7 × 2		17.4	0	8								DRI	LLING, ETC.
AUGER 6" THROUGHOUT					5	7.6	290 5	380 6	'1	47.1	0.3			0.3-6.5 S&TY, 1 0.3-4.0 4.0-5.5	' SAND AOIST. ': DARK ': DUSKY	LT: GRAYISI (SC-SM); FIN GRAY (N3). BROWN (5) I DARK GR	BLACK ONZ E GRAINED, YR2/21. AY (N4).	2).		RADIOA CONTA EBERLI ANALY	MENATION BY NE
AUG		!								40.9	6.5			6.5-10.1 (IOYR7/ WEATHE	Y: SAND: (4), SOFT (RED.	STONE; GRA	YISH CRANG NED, SILTY,	E		EBERLI ANALY CORPO PERFO LOGGIN	TICAL RATION RIMED GAMMA
	_		+	····	╀			-	-	37. <u>4</u>	10 =	3.33		BOTTO	A OF HO	LE AT 10.0	FT.			• DESCI	RPTION AND
											20 -			HOLE E	ACKFRLL 7/17/86	ED WITH CE	MENT-BENT	ONITE		VISUA EXAMI CUTTI	NATION OF
	 22	- SP-1 II	SP	OOM: ST:	24E1	LBY TL		1	STIE			<u> </u>	INT!	ERIM STI	שומנ כ					HOLE N	
				PHICH							PAT!	www.	11111	ווכ שועי	AUNTE 3	,, 1 6					WISS-186R



	GEO	LO	GIC	DRII	L	.0G		PROJECT		FL	ISRAP	-		JOB NO. 14501	-138	SHEET NO.		OLE NO. ISS-187R
MAY	MD0D	INT	ERIM	STORA	SE 517	E	COORDONT	žs.		1	18600,E1	0900			ANGLE	FROM HORIZ. 90°	B	EARING N/A
EGUN 2/11/86		MPLE 7/11		DALL		MORET	RENCH AL SERVI	1			E 8-33		HOLE SIZE	OVERBURDEN 4.5'	धाउ	ROC≍ 0711 1.5'	1	DTAL GEPTH 6.0'
ORE RECO	VERYOF N/A	.∕xo		COPE	BOXES /A	SAMPLE N/A	S EL TO	N/A	IG CR		7. 2	DEPTH/E	ROUND WA			DEPTH/EL T	or or .5'/4	
AMPLE HA		EQ17	FALL		CASI	NC LEFT	N HOLE DIA	/LENGTH	<u>l</u>		LOGGED 8	r:	P	.YEN		<u> </u>		
AND DANETER SAMPLER ADVINCE	RECOVERY	LE BLOWS	PERCENT CORE RECOVERY	P	WATER RESSURE TESTS		ELEVATION	OEP TH	GRAPHIC LOG	SAMPLE		DESCRIP 1	ON AND CLAS	SFICATION +			WATER	ONE LEVELS, RETURK CTER OF
ON S	SAMPLE	3	PERC	LOSS R R	PRESSU P.S.	PACTES TARKET	47.2	0	8									G, ETC.
_+				ST S'	2962 61	340 5	46.9 45.7	0.3	0: §		0.3-LE'S	<u>CHUSHE</u> JULAK E	G FOLK: ME IASALT, 2" I	AINUS.		SIT/ RAI CON EBS	E CHE	CKED FOR IVE ATION BY
AUGER, 6", THROUGHOUT.							13:3	4.0 - 4.5 - 5 -			4.0-4.5' BROKN (MOIST.	SAND IUYR5/2	SC-SM); PA D, FINE CRA	BROWN CHILY PLAS LE YELLOWI INED, SILTY,		EBE	RLINE ALYTIC	AI
¥	<u> </u>	+					41.2	6.0			4.5-6.0': (5. R3/4)	SANDS SOFT.	IONE; DUSK INE GRAINE ST.	Y RED D, SILTY,		1:00 1:00	CORM COMG.	TIÓN ED GAMMA
								10 - 15 - 20 -			BOTTOM	OF HO	E AT 6.0 D WITH CE	FT. MENT-BENT	DNITE	į EX.	SCRPT ASSIFIC AMINA TTINGS	ICH AND CATION BY JON OF



	G	EOL	00	SiC	DRI	LL	L	OG		ROLECT		FU	SRAP			JOB NO. 1450	1-138	SHEET N	Fi	HOLE NO. MISS-188R BEARING
11E	MAYW				STORA				COORDONATES				8600,E1	0700		OVERBURDEN	<u> </u>	90°		N/A TOTAL DEPTH
EGUN [/]:	1/86		PLET	_	CORL			MORE TO	RENCH LL SERVIC	1			E B-33		HOLE SIZE	7.0		1	. 0'	8.0'
OFE.	RECOVE N.	RYOTJ /A	720			e boxe N/A	\$	SAMPLE N/A		of cash E/A	6C	ROUNE 47	1.3	DEPTH/E	5.0'/	TER 142.21		DEP1N/E		/40.3'
WP1	E HAND		Off/	FALL		C	SMC	LEFT I	N HOLE: DIAL/L	E IG TH	 \		LOGGED B	Yı	F	. YEN				
AND DUNETER	SAMPLEH ADVANCE LENGTH CORE FUN	SAMPLE RECOVERY	E 81.00S	PERCENT COME RECOVERY		WATE PRESSU TEST	FE 5		ELEVATION	DEPTH	STAPHIC LOG	SAMPLE		DESCRIPTI	ON AND CLAS	sfication •			MY,	TES ONE TER LEVELS, TER RETURN, VRACTER OF
8	SANPLE	SAMPLE CORE	1	PERCE	S = 3	PRESSURE	<u> </u>		47.3	0	CRAP	Š								LLING, ETC.
6* THROUGHOUT					ET 5°	290	5	380 S*	45.8	0.3 L	0: °		0.3-L5': (N5), ANO L5-4.0':	CRUSHE SULAR E	ROCK: ME	BLACK (N. DEM GRAY ANDY,			RADIDA	MINATION BY
AUCER 6' THRO									43.3	4.0			2.0-4.0	: DUSKY	RED (5 R3. Brown (5 SC-SM); FR		•			INE TICAL RATION. 7-17-86
₩ —									40.3 39.3	7.0 8.0			4.0-6.5' A LIGHT FTA 6.5-7-0'	: GREENI GRAY '£!GHT	CH GRAY (SGYS/D.WIT SEAM (6.0- R 5/8).	# 6.3		EBERL ANAL Y CORPO PERFO	TICAL PRATION RMED GAMMA
										15 -	, , , , , , , , , , , , , , , , , , , 		(5YR 5/ WEATHE BOTTOM	(6).SOFT RED. MO OF HO ACKFILLE	FINE GRAI IST. LE AT 8.0 ID WITH CE	INED,SILTY,			*DESCR CLASS VISUA	REPTION AND IFFICATION BY RATION OF
					SHELBY To 0=0Ti		,		SITE	35 MAY	* 000	INTE	RIM STO	RARS C					HOLE N	o. MISS-188R



																		1.	
	G	EOL	.OGIC		RIL	LL	OG		PROJECT		Fl	JSRAP ,			14501	1-138	SHEET HO.)	IDLE NO. 1155-189R
SITE	MAYW	000	INTERIM	ST	ORAG	æ sit	E	COOPERATE	S		ı	18610,E1	0605			<u> </u>	FROM HORIZ.		KARING N/A
7/11			/11/86		DARY		MORE TO	RENCH AL SERVI	I-			E B-33		HOLE SIZE	OVERBURDEN 10.		ROCK FTJ	1	TOTAL DEPTH
	NE COVE	RYFT.			COME	SCOTES /A	SAMPLE N/A	S EL TOP	OF CAS	DHG (D EL. 7.1	DEPTHA	1. GROUND WA			DEPTH/EL T	or or	
SAIPL	E HAM	ER NE	DIT/FALL					DI HOLEI DIA.				LOGGED 1	lY:		.YEN		1		
		/A	.	T		WATER		N/A		T	1	<u> </u>					1		
LE TYPE MANETER	SAMPLER ADVANCE	SAMPLE RECOVERY	SAMPLE BROWS "N" PERCENT CONE RECOVERY		PI	ESSURE TESTS		ELEVATION	GE TH	PAINE LOC	SHAPE		DESCRIPT	ION AND CLAS	SEICATION *			WATE	E DINE R LEVELS, R RETURN, ACTER OF
¥ 94	L SE	CORE	3 5	•	z 3	PPESSURE P.S.1	AT NO.	47.1	0	8								DRELLI	NG, ETC.
		=		6	Ţ \$ °	290 6	390 6'	46.1	1,0			GRAYISI N5), 1 1/ LO-5.5'	BLACK 2" MINUS SILT (M	T AND CRI TO MEDICA BASALT. IL; SANDY.	GRAY (N2	10	RAI COI EBI	DIOACT NTAMM ERLINE ALYTIC	LATION BY
AUGER 6" THROUGHOUT								41.6	5.5			TO NB), 4.5-5.5 RESIDU	WITH AS L DUSKY L SO:L	TO VERY LI SH AND SLE BROWN (5) AND ROOTS (SC-SM); M OWN (10YR5/	DGE. 182/2), WITH AT 5.0 F		_	RPORA	
¥						: :						YELLOI GRAINE SATUR	U. SIL · T	OWN (10YR5/ , NON-PLAS	id, fine		AN CO PE	ERLINE ALYTK RPORA REORM GGING.	CAL TION ED Gamma
				\dotplus				37.1	10	<u> </u>	4	BOTTO	1 DF HC	LE AT 10.0	FT.		• D	ESCRIF	TION AND
									20 25			HOLE E	ACKFILL 7/17/86	ED WITH CE	MENT-BENT	ONITE	Y	'ISUAL	ATION OF
L	<u></u>	<u></u>		1				SITE	35				 	·		_,	но	LE NO.	
			SPOON, STE ON: PEPIT CH						MAY	W000	INT	ERIM ST	DRAGE S	SITE					MISS-189R



_								<u>-</u>							J08 H0.	SHEET HO.	Ī	HOLE NO.
	G	EOL	.00	SIC	DRII	LL L	.OG		PROJECT		Fl	JSRAP			14501-138		1	MISS-190R BEARNG
ΠE	MAYW	000	INTE	RIM	STORA	GE SIT	E	COORDONATE				18520,E1	0610			90°		N/A
EGUN 7/11	/B6		PLETT 1/11/		DALL		MORETI NMENT	RENCH AL SERVI	1			D NOOEL E B-33		HOLE SIZE	6.0'	ROCX 67.3	0'	TOTAL DEPTH B. O'
ORE	RE COVE	RYSTI.	/20			BOXES VA	SAMPLE N/A		OF CASIN	6	ROUN 4	D EL. 6.5	DEP TH/E	L GROUND WA		DEPTHATL	TOP OF 6.0'/	
ALP L	E HALA		DEHT/	FALL	L	CYZ	C LEFT	N HOLE: DIA	/LENGTH			LOGGED 8	Yı	P	YEN	-		
SAMPLE TYPE AND DIANETER	SAMPLER ADVANCE	RECOVERY	SMORE BIOMS	PERCENT COPE RECOVERY		WATER RESSURE TESTS	,	ELEVATION	SEP TH	CAMPIEC LOG	SAMPLE		DESCRIPT	TON AND CLAS	SFICATION #		WATE	S COM PR LEVELS, PR RETURN, ULCTER OF
3	SAMPLE	SAMPLE	SAL	FER	25 = 3 25 = 3	P.S.I	N N N N N N N N N N N N N N N N N N N	45.5	0	8							DRELL	ING. ETC.
AUCER, 6°, THROUGHOUT.					<u> </u>	240 6	390 6	45.0	1.5	φ.,	30: XI	MEDIUM N2), 11/2 15-5.5': 15-3.5':	GRAY : MINUS SILT (M MEDILIM	O GRAYISH ANGULAR E HLT; SANDY, GRAY (NS)	HOIST.	- RA	ADIOAC ONTAMI BERLINI NALYTI ORPOR	NATION BY
UCER, 6", T								41:0 40:5	5.5			4.5-5.5 (5GY5/I			SRAY LUDGE (3.5-5.5		OFDI II	c
		<u>!</u> <u> </u>	-					38.5	8.0			GRAINEL 6.0-8.0 (5YR6/	ISR BRO SILTY, SANDS 1), SOFT	(SC-SM): P. WH GOYRE/ MOIST. TONE: LISH FINE GRAIN	2), FINE 1 SROWN VED, SLITY,	1 6	ANAL YOUR POP PERFOR LOGGIN	E ICAL RATION RMED GAMMA G.
									10	<u> </u>		BOTTO	A OF H	OLE AT 8.0 ED WITH CE			CLASS! Visila:	IATION OF
-					SHELTBA .			झार	35 MAY	ynn	INT	ERIM ST	ORAGE '	SITE			HOLE HO	MISS-190R
1	D=	DENNES	ON P	PITCHE	Ri (=0T)	ER					4,11,							77.50 7.701



									,								,		-
	G	EOL	OGI	C	DRIL	<u>L</u> L	OG		PROJECT	,	Fl	JSRAP			JOB 14501	-138		¥ 1	MISS-191R
MTE	MAYW	200	INTER	IH 2.	TORAG	E SIT	E	COORDINAT	IS			18600,E1	0500				FROM H		BEANING N/A
7/11	/86		/11/8		DORLL		MORE TI	RENCH AL SERV	1			O WODEL E B-33		HOLE SIZE	OVERBLEDEN 5. 0		ROCK O	3°0, רב	B. O'
CORE	RECOVE N	RYF1.	/20		•	BOXES	SAMPLE N/A		P OF CAS	DIC	GROUN 4	D EL. 7.3'	DEPTH/E	6. 0/	TER 141.3		DEPTH/	EL TOP 0	F NOCK /39.3
MP.		CR W	17\TIGE	ш	1	CASS	C LEFT I	N HOLE: DIA	A.DAGTH			LOGGED B	Y1	F	YEN		1		
ETER			9E 09ES	5	PF	WATER ESSURE TESTS			=	81	7.E	<u>.)</u>						WAT	es de er levels,
SAMPLE TYPE AND DUBETER	SAMPLER ADVANCE LENGTH CORE RUN	CORE RECOVERY	SAMPLE BLOWS		× 3	PRESSINE P. P.S.I	THE IN INC.	47.3	0 E	CRAPHIC LOG	SAMPLE			ION AND CLAS	SEICATION			CHA DAE	TER RETURN, RACTER OF LING, ETC.
AUGER, 61, THROUGHOUT.								47.0 45.8				BROWN (MEDIUM (FILL).	SILTY SYR3/4 GRAINED CONTAIN DOISH	SAND (SM-); CLAY BIN); SOFT. DEI VS MODERA BROWN (JOR	SC) MODERA DER: FINE T NSE IN PLAC TELY HARD, 3/4) SANDST	O E.		RADIOA	enation by E Tical
AUGER,								42.3	5		- Rosessess	3.5-5.0' (N3); OCI WHITE, V SOFT; F! (SLUDGE	SANDY ASIONA ESSICUL W ORG Y FILLA	SET (ML-C L PECES (AR, SILICKO ANICS; CLAY	L); DARK GF OF HARD, IS GRAVEL; BINDER				7/17/86
								39.3	10 15 20 25			GRAY (5 SILTY: T NONCEM BOTTOM	Y47D; F OTALLY ENTED; I OF 40 LED WIT	INE TO MEI DECOMPOS DENSE IN P LE AT BJO TH CEMENT-	LACE.	ive D;		LOGGIN ODESCR CLASSI VISUAL EXAMB CUTTIN	TICAL RATION EMED GAMMA G. EIPTION AND FICATION BY IATION OF GS.
			SPOON S				1	SITE			INTI	ERIN STO	RAGE S	ITE				HOLE M	M1SS-191R



7																		_		
	G	EOL	OGIC	DI	RIL	LL	0G		PROJEC	т		FU	SRAP			JOB NO 1450	1-138		¥ 1	MISS-192R
SATE	MAYW	000 I	NTERIM	STO	RAG	E SIT	E	COOPDON	TES			N	8694,E1	0500			AMELE	90°		BEARING N/A
XGN		- 1	PLETED /11/86	9	PALLET E		MORETI	RENCH AL SERV	ICES	DALL			9 MODEL E B-33		HOLE SIZE	OVERBURDES		ROCK (د ر ۱ 3. 0'	TOTAL DEPTH 10.0'
	NE COVE	RYETJ		C	OFE	OXES	SAMPLE	S EL. T	op of c	2002		OUNE		DEPTH/E	6.5FT/			DEPTH	EL TOP (F ROCK /41.1FT
SAMPL		/A een we	ENT/FALL		N		N/A	N HOLE: DA	N/A A/LDIGT	H			LOGGED B	rı				<u> </u>	1.01	/ 11.11.1
	N/							N/A		- y-			<u> </u>		D. M	CGRANE				
SAMPLE TYPE AND DUNETER	TH CORE NUM	LE RECOVERY	SAMPLE BLOWS "N" PERCENT COME	s	PRI 1	ESSURE TESTS	E TES	ELEVATIO	e Ja		GRAPHIC LOG	SAMPLE		DESCRIPTI	ON AND CLAS	SFICATION ⁴			MA. MA	TES ONE TER LEVELS. TER RETURN, VRACTER OF
S DA	2 2	300	3 5	S 2	3	PPESSURE P.S.I	TREE IN COLUMN C	48.1			5.									LLING, ETC.
AUGER, 6", THROUGHOUT.								47.8 45.1		*****			(5R4/2) (~10%; D 0.3-LO: 1.0-3.0:	FINE 10 ENSE IN DARK R MODERA SANDY	SAND (SM-) MEDIUM PLACE; MC EDDISH BROWN SET (ME-	CL) DARK G	LAY BII 4). RAY	NDER	RADIOA CONTAI EBERLI ANALY CORPO EBERLI ANALY CORPO	MINATION BE NE FICAL RATION. NE
N N								41.1					NATERIA (SLUDGY 7.0-10.0	FILL)	D; ULAY BR	GREENISH I RED PURI IL: SPECKLI E SILICIUOS VOER; VERY	MOIST		LÖĞG	
								38.1	2				GRAINED (SOIL); U (NO REF AUGER ! BOTTOM	, SILTY; NICEMEN USAL); SPOILS OF TO LED WIT	TOTALLY I TED: DENSE MOIST WITH FROM 8.0-1 LE AT 10.0 TH CEMENT-		D ST ———		CLASS	VATION OF
			SPOON, STE					STE		ATWO	00 1	INTE	RIM STO	RAGE S	1 TE				HOLE N	o. MISS-192R



	G	EOL	OGIO	CE	ORIL	LL	.OG		PROJECT		FU	ISRAP			JOB NO. 14501	-138	SHEET NO.		HOLE HOL MISS-193R
SITE		MA TORA	YWOOD GE SI	INT TE-R	ERIM OUTE	17		COORDINATE	'S		N	19065,E1	0205			ANGLE	FROM HORE	2.	BEARING N/A
BEGUN		t	ALTED /11/8		DPRLE		MORET	RENCH AL SERVI	1			D WODEL		HOLE SIZE	OVERBURDEN O. 6		700x (FT.)		TOTAL DEPTH
CORE		RYGT.			CORE	BOXES /A	SAMPLI N/A	S EL. 10	P OF CASIN	G GF		EL.	EPTH/E	2.5 FT/			CEPTH/EL.		F NOCK /48.2 FT
SAMPL		MER WE	IGHT/FAL	ц	<u>. </u>	CASI	G LEFT	N HOLEI DIA N/A	/LENGTH			LOGGED B	Yı	D.M	CGRANE				
LE TYPE MMETER	SAMPLER ADVANCE	SAMPLE RECOVERY	SAMPLE BLOWS	COVERY	96	WATER ESSURE TESTS	46	ELEVATION	DEPTH	CRAPHIC LOG	SAMPLE	<u></u>	DESCRIP!	ION AND CLAS	SEICATION *			WAT	ES ON ER LEVELS, ER RETURN, RACTER OF
SAMP AND D	SAMPLE	SAUPLE	SAMP		z 3	SPRESSUME o, P.S.I	THE STATES	48.8	0	CRAS									LING, ETC.
AUGER, 6°, THROUGHOUT.				5	57 6	2ND 6'	3 €0 6°.	48.5 48.2	5 -			0.0-0.3 0.3-0.6 0.6-7.0 GRAYISH GRAINED NONCEM REFUSAL	CONCR DECOM RED (N SILTY) ENTED:	ETE. POSED SAN OR4/2): TINE TOTALLY D DENSE IN PI	OSTONE; TO MEDILI ECOMPOSED ACE (NO	M);	Į.	ACIDA! LATMO:	T/17/86 TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL
									10			BACKFIL GROUT,	LED WIT	CE AT 7.0 TH CEMENT-				DESCI LASSI VISUAL	RIPTION AND FICATION BY MATION OF MISS.
			SPOONS See Papiti					SITE	:	MA Stora	ywo Ge	OD INTE: SITE-RO	RIM UTE 17					***	MISS-193R



									Te	O.ECT			_				0.	B NO.		SHEET	NC.	HOLE NO.
	G	EOL	OGIC		RIL	L L	OG					Fl	ISI	RAP					-138		¥ 1	M1SS-194R
SATE	MAYW	000 1	NTERIM	ST	DRAG	E SIT	E	COOP	DOLATES			-	18	700,E1	0397					90°		BEARING N/A
BEELM		1	PLETED		DOLLE	בריואי איייאר	MORE TI	RENC	H	1	WLL MA			HODEL B-33		HOLE SIZE	OVER	JRDEN 4.0		ROCK O	2.0'	TOTAL DEPTH
7/11 CORE 1			/11/ 86 /20	\dashv	COPE	BOOKES	SAMPLE	3	EL. TOP	OF CASE		ROLIN	D I	D.	DEP TH/E	L. GROUND YA					EL TOP (F ROCK /44.0 FT
		/A	MAT FALL		N	/A	N/A			DASTH		41	B.	LOGGED B	<u> </u> Yı	NONE OF	-	_		<u> </u>		777,011
SAME	N		A-1177 A-22						1/A	,		, , ,				D. M	CCRAN	E —			r	
E TVPE INETER	SAMPLER ADVANCE LENGTH CORE RUN	ECOVERY	HERCONENT NE THE SAMPLE BLOWS	_	M	WATER ESSURE TESTS		ខាម	/ATION	DEP1N	GRAPHIC LOG	SAMPLE			DESCRIPT	NON AND CLAS	SFICATI	ON *			WA WA	TES ON TER LEVELS, TER RETURN, ARACTER OF
SAP.	SANTE	SAMPLE CORE P	7 30 P	S.	z 3	BPRESSURE P.S.I	THE NATIES	4	8.0	0	8	ľ										LUNG, ETC.
AUGER, 6", THROUGHOUT.				5	i	290 6	300 5	4	7. 7 5. 0					0.0-0.3' 0.3-3.0' BROWN SELICIOU MEDILAM CONSOLI MODERA (IOR3/4) ((FILL).		LT. SAND (SM-), SPECKLEI RIAL (ASH?) D; SOFT; PO- MOIST; DCC. ARD, DARK TONE GRAVI	SC): MC O WITH I: FINE ORLY ASIONAL REDDISI EL AND	XDER/ A W TO L H BR) PEB	ATE HITE OWN BELES	`	RADIOA CONTA EBERLI ANALY	MINATION BY NE
AUGE									2.0	5 - 6.0				3.0-4.0 (N3), 0C WHITE, V SOFT; V 4.0-6.0 (IOR 4/ TOTALL	CASIONA PESICUL/ ERY MO *:DECOM 2):FINE- Y DECOM	L PRECES (AR GRAVEL; IST (SLUDG POSED SAN MEDIUM SF MPOSED, MC EAKLY CEMI DENSE IN F	DE HAR CLAY EY FIL DSTONE RAINED STLY ENTED	BIND L). SILT NONC PIEC	ER; AYISH Y;SOFT EMENTE ES IN	D WILL	PERFO LOGGE DESC CLASS	TICAL RATION RNED GAMMA G. RIPTION AND FICATION BY
										15				BOTTON BACKFIL	IST. OF AC	SLE AT 6.0 TH CEMENT	Ħ,				: VISUA	NATION OF
										20	******											
										25	*********											
										30	****											
					D 8~ 3	100		SIL		35							<u> </u>	-	 		HOLE	
	D-	DEDOK	SPOON ST ION PEPITO	HERO DETAIL	0=0TH	ER .				MAY	nv000	IN'	ſΕ	RIM ST	UHAGE	511E						MISS-194R



																		T		T
	G	EOL	OGIC		RIL	LL	.0G			ROJECT		Fl	JSRAP			JOS NO. 14501	1-138	SHEET M	1	MISS-195R
HTE	MAYW	000 1	NTER1M	ST	ORAG	E SIT	Έ	COOPO	MATES			•	18806,E	1205			AMELE	90°	102.	BEARBIG N/A
EGUN	/86		PLETED /14/86				MORET	RENCH AL SE	RV ! CI	- 1			D NODEL E B-33		HOLE SOZE	OVERBLIRDEN		ROCK 61	ر. دا	TOTAL DEPTH
	NE COVE	RTGTJ /A		┪	COME	DOYES /A	SAUPL N//	ES EL	TOP	OF CAS	94G	GROUM	6. B'	DEPTHA	L GROUND WA	TER 141.8		DEPTIVE		F RCCX /40.8
AMPL	E HALE	ER VE	DAT /FALL	_!			E LEFT	an HOLE	DIAZ		1		LOCCED) Pri		CGRANE		1		
		/A		Г		WATER		N/	^	T	-i	11	<u>.l</u>		0.1	CONNE		<u>-</u>		
SAMPLE TYPE AND DAMETER	SAUPLER ADVANCE LENGTH CORE PLIN	SAMPLE RECOVERY CORE RECOVERY	PENCENT CONE NO. 19 PENCEN	_	H	essùre Tests		ELEVA	TION	EP 11	GRAPHIC LOG	SAMPLE		DESCRIPT	YON AND CLAS	isfication +			WA1	tes on Ter Levels, Ter return,
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AND E	CORE	Paris Office Paris	1055	포경	PIESSURE P. S.I	THE NAMES		_		8	اقا								RACTER OF LLBG. ETC.
	NI2	∞ 1			۲	20 5	300 E	46.		0			0.0-0.3	: GRAVE	<u>.</u>				SITE CH	ECKED FOR
out.								46.	. 2		****		0.6-5.0 MODERA	: ASPHA : SE TY : SE TY : CRAINE : POOR : CLAY B	LT. SAND (SM- WN (SYR3/4 D; SOFT; OCI Y SORTED; NDER; MOIST	SC); I); FINE TO CASIONAL DENSE IN I (FILL).	,		CONTAI EBERLI ANALY	MNATION BE VE
AUGER, 6", THROUGHOUT.								41.		5			50-61	P SANDY	/ SHT (ME- (5G4/1); SC	C:) DARK	<u></u>		eberli	<u> </u>
AUGER, 6								36	â	10			6.0-10.1 MODERA FINE TI TOTAL	ነሱ ከድ ሶሲ	MPOSED SA LOWISH BRO M GRAINED: MPOSED: NO	NOSTONE: IWN JOYRS/ SILTY: SOFT INCEMENTED	(4); (; DENSE		ANALY CORPOI PERFOR LOGGIN	RATION RNED GAMMA
										20 25	*********		BACKF		RE AT 10.0	BENTONITE			CLASS	NATION OF
\vdash			SPOOM STE				1	SITE		35 MAY		INT	ERIM ST	DRAGE S	SITE	·			HOLE N	N15S-195R



MATHOOD INTERIN STORAGE SITE MORE TRENCH DRILL MATE DISIDED MORE TRENCH MORE	4501-138 1 OF 1 MISS-196R				SRAP	FU		PROJECT		OG	L L	DRIL	IC I	OGIO	OL	GI	
TITLS /	90° N/A	A		1110	8785,E1	N		E\$	COORDONATE	Ε	Æ SIT	TORAG	IM S	NTERI	000 I	MYW(SITE
CONTROL MAY NATIONAL SAMPLES BY THE CONTROL OF A CASE OF THE CASE OF THE CONTROL OF A CASE OF THE CONTROL OF A CASE OF THE CASE OF TH								1	RENCH AL SERVI	MORE T						/86	1
SAMPTIMENT WORLD THAT I WAS EDUCATED BY THE STATE OF THE				DEPTHA			MG G	P OF CAS	ES EL. TO	SALPL	BOXES	COPE			RYGIJ	ECOVE	
WHITE COMMENTS OF STATE CONTROL OF STATE	E	D. MCGRANE		l¥t	LOGCED B		L.	/LDÆTH	DI HOLE: DIA			1	A L	Off /Fall	ER WE	HALE	SAIPE
47.6 47.6 3.3.45.517.AMD (SIPSO), WORRATE DROWN 1978.74 WITH A SMALL AMOUNT DUSTY (ARTHER AND PECE) OF DARK REDOKH BROWN 1987.49 SANOSTONE INCOMEDIATE MOST: WARREN AND PECE OF DARK REDOKH BROWN 1987.40 SANOSTONE INCOMEDIATE MOST: WARREN AND PECE OF DARK REDOKH BROWN 1987.40 SANOSTONE INCOMEDIATE MOST: WARREN AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OF DARK REDOKH 1989.40 SANOSTONE AREA CORPORATION PER OWNED G. LOGGO AND PECE OWNED G.	WATER LEVELS,	up. A scent stand	7100 AUD A	051000	<u> </u>	# H	1.00	2			essure	PR	E E	E CONE		. 1	TYPE
TOO BOY OF THE A SHALL AND SECRET OF CONTAINMATION SHAPE OF CONTAINM	CHARACTER OF DRILLING, ETC.	NU CERSSIVE RAIN	יי טואת אנטוני	DESCRIP!		MS.	CRAMAC			THE STATES	PRESSURE P.S.I	S X		SAMPLE TERCENT	SANPLE RECORE REC	SAIPTER LENGTH CO	SAMPLE AND DAN
DENSE IN PLACE MOST. BOTTOM DE HOLE AT 7.5 FT. BACKFILLED WITH CEMENT-BENTONTE ODSSCRIPTION CLASSFICATION VISUAL EXAMATION (OUTTINGS.) 15	MEDILM PERFORMED GAMMA	D (SM-SC); MODERATE I'M A SMALL AMOUNT '2) SETY MATERIAL DDISH BROWN (IOR3/ ISOLIDATED; MOIST; COMPOSED TO SANDSTONE; DARK S3/4); FINE TO MEDIL DECOMPOSED: SOFT:	SAND (S (4) WITH A (5G3/2) S RK REDDIS INCONSOL ND DECOM MPOSED S N GOR3/4	STTY (5YR3/ GREEN OF DAR ONE : U FILL AN ONE?). 1 DECON 1 BROWN 1 TOTAL	D.3-4.5' BROWM DUSKY PIECES SANDST (MIXED SANDST 4.5-7.5' REDDISH CRAINET				47.6						4		ALICER, 6", THROUGHOUT.
BACKFILLED WITH CEMENT-BENTONTE CUESSFICATION CUTTINGS. 15	<u>₹</u> ,,,,,,,	251.	CE; MOIS I	IN PLAC	DENSE		†	7.5	40.4								
30 - 31 - 35 - HOLE NO.	CLASSFICATION BY VISUAL EXAMPLATION OF CUTTINGS.		ITH CEME	LED WI	BACKFIL		**************	20 25 30									



	G	EOL	OG	IC	DRII	LL	.OG		PROJECT		FU	SRAP			JOB NO. 14501	-138	SHEET	NO. OF 1	HOLE NO. MISS-197R
SITE	MAYW(000 1	INTER	IM S	STORA	SE 511	E.	COORDINATI	ES		N	8781,E1	1000			ANGLE	FROM F		BEARING N/A
BEGUN 7/14		- 1	#LETEE /14/8		DMLL		MORE T	RENCH AL SERVI				E B-33		HOLE SIZE	OYERBURDEN 7.5		ROCK	0.0	TOTAL DEPTH 7.5'
COPE	RECOVE N.	RYFT.	/10		COPE	DOXES /A	SAMPLI N/A	S EL. TO	P OF CASE	C C	ROUNE 47	EL.	DEPTH/E	L. GROUND WA		-	DEPTH.	AEL TOP C	F ROCK I/A
SAMPL	E HAMA N/)QAT /F	ALL		CASE	G LEFT	N HOLES DIA	/LENGTH	1_		LOGGED 8	J Yt	D. M	CGRANE		.1		
K 15	NANCE:	OVERT FERT	20 PE	g _E	PI	WATER RESSURE TESTS				8		.4						1	TES ONE TER LEVELS.
SAMPLE TYPE AND CIANETER	SAWPLER ADVANCE LENGTH COHE RUM	SAMPLE RECOVERY CORE RECOVERY	W. "W	RECOVE	LOSS F. H.	PRESSURE P.S.1	N N N N N N N N N N N N N N N N N N N	ELEVATION	100	CRAPHIC LOG	3) dates		DESCRIPT	ION AND CLAS	SEICATION [®]			CHA	TER RETURN, PRACTER OF LLING, ETC.
• •	ā19	ह्राठ	, is		E1 6:	2ND 6.	260 e.	47.6 47.3	0			0.0-0.3	: ASPHA	<u>LT.</u>					ECKED FOR
ðer.								47.3 47.0 46.6				0.3-0.6	: SANDY	SILT (ML- DRY (FILL:	CL); L]GHT ?),	BROWN	1	LEBERLI	ANATION BY
HROUG												0.6-1.0':			51 1105TI V			CORPOR	TICAL RATION.
AUGER, 6", THROUGHOUT.									5 -			A RAPPINAT	OR DH	sand (SM-S WN (SYR3/4 SKY GREEN	(503/2) 50	3 Y		又	7/17/86
AUGER	40.1 7.5 - 1111 AND SMALL PIECES OF RUBBER (MIXED FILL AND DECOMPOSED SANDSTONE?).																EBEFL!	NE TIPAI	
	AND SMALL PIECES OF RUBBER (MIXED FILL AND DECOMPOSED SANDSTONE?). BOTTOM OF HOLE AT 7.5 FT.															LCORPOR	RATION RIJED GAMMA		
											}	EOTTON	OF HO	LE AT 7.5	FT.			LOCORY	
								} 	10 -			BACKFIL GROUT.	LED WI 7/17/89	TH CEMENT-	BENTONITE				
! ! !																			
				ĺ	:														
									15 -	1									
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									20 -	}	1								
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									30 -	=									
								 		-								* DESC	CRIPTION AND
										=								CLA: VISU	SSIFICATION BY IAL EXAMINA- I OF CUTTINGS.
\vdash	\$\$.1	PLIT S	\$P00% :	57×5H	ELBY TU	BEI	1-	318	35 MAY	<u> </u>	NTE	RIM STO	DACE S	175			· ·	HOLE MO	i,
					0=OTHE				MAII	- UUU 1	317	V1H 210	- SUAN	115					MISS-197R



	G	EOL	.00	GIC	DRI	LL L	.OG		PROLE	ECT		FL	ISRAP			JOB NO. 14501	-138	SHEET J (¥ 1	HOLE NO. NISS-198R BEARNG
SITE	MAYW	000	INTE	RIM	STORA	GE SIT	E	COOPER	TES			1	18777,E1	0913			<u> </u>	90°	·	N/A
7/14			AEI /14		DPR		MORE TI	AL SERV			MO		E B-33		HOLE SIZE 6"	OVERBLEDEN 3. (1	.0	TOTAL DEPTH 3.01
COPE	RECOVE N	RYET.	/20			WA.	SAMPLE N/A		OP OF		G		3. 9'	DEPTHVE	NONE OF			DEPTIL	1911 - 121 A	I/A
SAMPL	E HAME N		ر آبور	FALL		CASI	K LET	N HOLE D		TH			LOGGED B	Y1	D.M	CORANE				
E TYPE NETER	SANFLER ADVANCE	FCOVERY	E BLOWS	PERCENT COPE RECOVERY		WATER RESSURE TESTS		ELEVATIO	ж	SEP 14	CRAPHC LOG	SAMPLE		DESCRIPT	ION AND CLASS	SEICATION			WAT WAT	ES ON ER LEVELS, ER RETURN, RACTER OF
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SANTER	SORE R	THE STATE OF	PERCE	2 × 3	SALESSURE P.S.ª C	STUBERS	48.9	- 1	0	8	Š							DAE	LING, ETC.
AVGER, 6°, THROUGHOUT.								48.3 47.9 45.1	3 3				O.6-i.0' LO-3.0' FT EXC NUMERO LITHOLO FILL? BOTTOM	: SANDY 2): SOFT NSE; DR' CONCRE SANDY EPT: MO US ROU GIES; DE	POORLY CO FILL. TE. SET ONLY. DERATE BRO DED PEBBI FICULT AU LE AT 3.0 TH CEMENT-	AS 0.2-0.6 DWN (5YR3) ES OF VAL GERING, FT.			FOR R/CONTAIL AND HI GAMMA BAMMA ANALY CORPOR	LOGGED ERLINE
-					SHELBY ERG OF OT		1	SIL		35 Mayi	000	INI	ERIM ST	DRAGE	SITE				HOLE I	o. M155-198R



	C	EOL	OGIC		RIL	L L	.0G		PROJECT		FI	JSRAP.			JOB NO. 14501		SHEET (NO. DF 1	HOLE NO. MISS-200R
SITE	MAYW	000 1	NTERIM	\$1	ORAG	E SIT	E	COORDONAT	ES		. (N9003,E1	1075			ANGLE	90°		BEARING N/A
7/1	5/86	1	PLETED /15/86		DALLI		MORET	RENCH AL SERVI	- 1			6 MODEL E B-33		HOLE SEE	OVERBLIRDEN 4. C		ROCK (נדי 1.5'	TOTAL DEPTH
	RECOVE				COPE	BOXES /A	SAMPLE N/A	S EL. 10	P OF CAS	34G (B. 0'	DEPTHA	3.5'	TER (44.5'		DEPTH	1.0°	F ROCK /44.0'
SALPI		er ve	DIT/FALL	لـــــــ			I	BI HOLE: DIA N/A	A.DIGTH	i		LOGGED 8	Yı	D. M	CGRANE		.1	****	
34.4E			A LONG COME		75	WATER ESSUPE TESTS				8	Ţ.	1						WA	TES ON: TER LEVELS,
SAMPLE TYPE AND DANETER	SAMPLER A	SAMPLE REC	SAMPLE BLOWS " " FERCENT CONE RECOVERY	1055	S Z	DPRESSURE P.S.I	THE N N N S IMMUTES	ELEVATION 48.0	1 85 0	GRAPHE LOG	SAMPLE		DESCRIPT	CLAS CHA HOS	SECATION *		i	CH	TER RETURN, VRACTER OF LLING, ETC.
LIGER, 6", THROUGHOUT.				5	J 6°	290 6	360 61	47.0		0		OCCASIC PEBBLE (MIXED SANDST	BROWN OFDUS L: MCST NAL PR S: SOFT; FILL AN ONE?).	SAND (SM-S (IOR3/4) W KY GREEN (LY FINE GF CES OF GR DENSE IN DECOMPO	SC); DARK 1TH A SMAL (5G3/2) SA T RAINED WITH RAVEL AND PLACE; MOS SED	ī;			7/:7/86
A JGE								42.5	10 15 20 25			A.O-5.5 REDDISH GRAINE: DENSE SOFT T WEATHE WITH A BOTTOM	DECOME BROWN WEAKL N PLAC O MODE RED TO CLAY E OF TO LED WIT	Y CEMENTE E (REFUSAL RATELY HA TOTALLY HINDER; SATI LE AT 5.5 TH CEMENT-	DECOMPOSE URATED. FT.	() ;	Y	RADNIA CONTA COBERLY EBNAPCO EBNAPCO EBNAPCO PERFO I DESSI ECUT ECUT ECUT ECUT ECUT ECUT ECUT ECUT	MINATION BY THE RATION. RE TICAL RATION RE TICAL RATION RATION RE RE TICAL RATION RO RE RE RE RE RE RE RE RE RE RE RE RE RE
			SPOOM STA					SITE			INT	ERIM STO	RAGE S	SITE				HOLE N	A. MISS-200R



											-								JOB NO.		SHEET	10	HOLE NO.
	G	EOL	.00	GIC	DF	RIL	LL	.0G			ROLECT		Fi	JSR/	AP				14501		3 (OF i	MISS-201R
धार	MAYW	000 1	INTE	RIM	STOF	RAGE	517	Ε	COO	CONATES	;		1	N89	97,E1	0003				AMILE	FROM H		N/A
EGUN	i 5/85		ALET		DA	<u>الله</u> (2		MORET	RENG	H	- 1	RELL MAX			DDEL 3-33		HOLE SIZE	OAEI	ROURDEN		ROCK (0.0 دلار	TOTAL DEPTH
	RECOVE	RYGT.			ca	36 P	OXES	SAMPL	ک	EL. TOP	o casi		ROUN	D EL		DEPTH/E	L. GROUND	MATER //41.	<u> </u>		GEPTH.	(EL. TOP	OF ROCK
ALP1	N eun 3	/A er ve	JGHT/	FAL	1	N/		C LEFT			LENGTH		4:		GGED B	71					<u>. </u>		
	N.	/A							1	N/A	7	,	1 (1			D.	McGR/	ANE.			ſ	· · · · · · · · · · · · · · · · · · ·
SAMPLE TYPE AND DISLETER	SAMPLER ADVANCE	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS	PERCENT CONE RECOVERY		PRE Ti	ATER SSURE ESTS		ELE	VATION	DEPTH	GRAPHE LOG	SAMPLE			Descripti	ON AND CLA	assfka	TION ⁴			W/	TES ONE TER LEVELS, TER RETURN, MRACTER OF
ž 3	SAMPLE	CORE	STATES.	PERCE	\$ Z	F. K	PRESSURE P.S.I	THE N NAUTES		۵ ۸	į	8	ľ										LLMG, ETC.
AUGER, 6", THROUGHOUT.					6 7 4	5. 2	STO 6	3 €9 E	4	9.0 8.7 8.0	0			OK:BA	3-1.0 DDISH NDER:	JUIS 1	SAND (SM LIDATED; LIDATED; SAND (SM N (SYR3) SROWN SA LMOUNT SA ATERIAL; (BBLES (M OSED SAN					RADIO/ CONTA EBERL ANALY CORPO EBERL ANALY	TICAL RATIONL INE ITICAL
AUGE		***************************************							3	9.0	5			N	LACE: ! EET	CLAY BI	NDER; MOS	SURT ST-SA	TURATE	DE M		Lossii	PATION PMED GAMMA NG. 7/17/86
											15 20 25 30			α (C)(C)	OTTOM ACKFIL ROUT,	DF 40 LED WIT 7/7/86	LE AT 10. H CEMENT	O FT. T-BENT	TIMO			CL. VIS TIO	SCRIPTION AND ASSERVATION BY UAL EXAMINA- N OF CUTTINGS.
		SPLIT SENNES(SITE				INT	ERI	N STO	RAGE S	ITE					HOLE 1	MISS-201R



																	T		1
	G	EOL	00.	SIC	DRI	LL I	_0G		PROJECT		F	JSRAP	·		JOB NO. 14501		SHEET N	Fi	HOLE NO. MISS-202R BEARING
SITE	MAYW	000	INTE	RIM	STORA	GE SI	TE	COORDINATE				18775,E1	0800				90°		N/A
BEGUN 7/15			/15		DATE		MORET ONVENT	RENCH AL SERVI				E B-33 D MODET		HOLE SITE	OVERBURDEN 6.5			.5'	7014L DEPTH 9.0'
CORE	RECORVE N	RIGT.	/10			BOIES N/A	SAMPLE N/A		P OF CAS N/A	34G G		D EL.	DEPTHVZ	5.0' /			DEPTHA	6.5'	/41.5'
SAMP	E HANG	IER IE	JEHT/	FALL		CAS	NG LEFT	N HOLES DIA	./LENGTH			LOGGED B	Y.	D.M	CGRANE				
1YPE ETER	ADVANCE OPE, RUN	COVERY	BLOWS	CONE	•	WATER RESSURE TESTS		ELEVATION	± 436	د 301	SAMPLE	!	DESCRIPT	ION AND CLAS	SEICATION*			WA	tes one ter levels, ter return,
SAMPLE TYPE AND DIANETER	SAMPLER LENGTH C	CORE PE	SAMPLE W	PERCEN	1055 N 10.54	PESSUR	TAN TES	48.0	E	GRAPHE LOG	75				•			DR	ARACTER OF LLING, ETC.
AUGER, 6", THROUGHOUT.	\$51.6 \$\frac{250.6}{250.6}\$\$\frac{1}{340.6}\$\$\frac{1}{47.}\$\$\rightarrow{41.}\$\rightarrow{39.}\$39								5 9.0 10 15 20 25	, , , , , , , , , , , , , , , , , , ,		MEDIUM DENSE (FILL) (FILL) ORGANIC 15-5.5': 5.5-6.5' GREENIS YELLOW BROWN DECOMP WITH A TED. BOTTON	SETY GRANES GRAYIS S. DARK P CONTA H YELE SI DESOUP SYRJA COSED; COLAY I CF HE LED WI	SAND (SM-) JE PODRLY S JE CLAY BIN H BLACK ON HEDDISH BRC ON (CYS/S) DW (CYS/		DERATI	E TALLY	RADITA CONTROL OF CONT	TICAL RATION. 7/17/85 INE TICAL TRATION RATION RMED GANNA
_		.55= 7	5000		CME! Dow	TI DE.	1	SITE	35		<u></u>	<u> </u>						HOLE	
					Pe (POT)				MA.	YW500	INT	ER1# 570	INAUŁ.) E					M1SS-202R



	G	EOL	OGIC	DRI	LL L	.0G	<u>-</u>	PROJEC	Ť	F	US	RAP	<u></u>		JOB NO. 14501		SHEET I		HOLE NO. MISS-203R
ITE	MAYW	000	INTERIN	STORA	GE SIT	Έ	COORDOLAT	ES			N9	300,E10	1100			ANGLE	FROM HO	RZ.	BEARDG N/A
EGLN 7/16	/86	1	/16/86	DARL	-	MORET	RENCH AL SERVI	CES	DALL N			MODEL B-33	•	HOLE SIZE	OVERBURDEN		ROCK 6	ريا 3.0'	TOTAL DEPTH
OPE		RYGT.	/10	COME	SOXES	SAMPLE N/A	S EL. 10	P OF CA	SING	GROUP	0 1		DEP TH/E	L. GROUND WA	TER '53. 2'		DEPTHA	7.0°	F ROCK '47.70'
MPI	E HAM	_	DIT/FALL				N HOLE: DIA		1		_	LOGGED BY	1		ICGRANE		L		
				<u> </u>	WATER		17.5		Τ-		1			U. M	CONANC				
ETER	ADVANC OPE PU	COVERY	100 M	ŗ	RESSURE TESTS		ELEVATION	2	8	SAME			F1 400 T	ON AND CLAS	CENATION A]	WAT	ES ON
AND DANETER	SAMPLER ADVANCE	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS 'N' PERCENT CONE RECOVERY	, –	PPESSURE P.S.I	TAK N NAVTES	54.7	SEP T	8	42		•	escor:	UN 440 U.S.S	SP CA INDA			CHA	ER RETURN, PACTER OF LING, ETC.
-				<u>557 6*</u>	250 6	380 61	37.1	+ "	加	\parallel		0.0-L5': SORTED:	ANDY SOF : L	SILT ONL-C SENSE IN PI	L), POORLY ACE: CLAY				
AUGER, 6., THROUGHOUT		-=					53.2			 		BINDER:NK 0.0-0.5':	DIST. Mocer		WISH BROWN	Į.			<u>V</u> 8/10/86
H.									311		П	(10YR5/4) 0.5-1.5': (DRGANICS	RAYISH	BLACK (N	2); NUMEROU	ß		SITE C	HECKED FOR
JGER,	,							5	4			5-6.0': 3ROWN (5	11Y 3 183/4	AND (SM-S	C), MODERA MEDILIM SOFT; DENSI	E		EBERLA	WINATION BY NE
₹		:	ļ ļ				48.7		#		k i	GRAINED: PLACE; ĈI SATURAT	LAY BI	Y SORTED; I NDER; FEW	SOFT; DENSE Organics	LIN	Ì	ANALY	FICAL RATION
							47.7		- 1			6.0-7.0': ABOVE: G	SANDY RAYISH	SILT (ML-(CL)' AS MÉROUS			EBERLE	TICAL
							44.7		1		\	ORGANICS 7.0-10.01:	SATU DECOA	RATED. POSED SAN 11003/ANDE	DSTONE DA	RK		PERFOR LOGGIN	RMED GANINA
_							44.7	10			N	GRAINED, SILTY WI	TOTALI	LY DECOMPI LAY BUNDER	OSED; SOFT; R: POORLY	;		PSSEC.	UPTION AND FICATION BY
									4		1	BOTTOM	OF 70	E AT 10.0		<u>: EU.</u>	/	VISUAL	ATION OF
		•							7		;	GROUT, 8	/10/86.	h Cement-I	DENTUNETE			CUTTIN	65.
								15	7										
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			Ì						4								1		
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		<u> </u>							4										
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								35											
			POONS STESS N PROTEINED			\$	n E	MAY	COON	INTE	RI	M STORA	NGE SI	TE				HOLE NO,	MISS-203R



	G	EOl	0	GIC	DR	RIL I	LL	OG		PROJEC	7		Fl	s	RAP				50 1	-138		OF 1	HOLE NO. MISS-204R
πĘ	MYW	000	INT	RIM	STOR	LAGE	SIT	E	COORDONAT	ES			ı	N9	300,E10200)		. =		ANGLE	90'	•	BEARING N/A
ECIA 7/16	5/85		/16		Date	LEN EN			AL SERV			MC	BIL	.E	HODEL B-33		HOLE SIZE	<u>. </u>	7.5		<u> </u>	0.0	TOTAL DEPTH
OPE	NE COY	ryot. /A	/ %		CO	NE N		SAMPLE N/A		POFC N/A	ASON	G	Noun 5		EL. DEPT	H/EL	0.0'/	TER '54.6'			DEPTH	/EL. TOP (OF MOCK VA
	E HAME N.	ER W	DENT.	/FALL			CASS	देखाः	N HOLES DIA N/A	LDET	н	<u> </u>	-		LOGGED BY:		D.N	CGRANE					
METER	SAMPLER ADVANCE	RECOVERY	SAULE BLOWS	PERCENT COME RECOVERY		PRE	ATER SSURE ESTS	4	ELEVATION	, d.		PRAPHIC LOC	SMPLE		DESC	er no	H AND CLAS	SEICATION	. •		-	WA WA	TES ON TER LEVELS, TER RETURN, ARACTER OF
2 0	SALPLE	3100	7	PERCE	S 2	3	PESSURE P. S.	M TAK B IN PLANTES	54.6		1	Š											ELLING, ETC. \[\sum 8/10/81
					<u> </u>		302.5	- Tell 9-	53.6						O.O-LO': SILT BROWN (5YR: DENSE IN PL	Y 5 //4):	AND (SM-S POORLY CLAY RIN	CP, MODE SORTED	RA SOF	E T;		SITE C	#ECKED FOR
AUCER, 6", THROUGHOUT.											4			1	ORGANICS; MC En-3.07, SANI	NST.	30 7 (MI - 1	I) CRAY	SH			EBERLE	MENATION BY NE
₹.9									51.6		4			1	BLACK (N2) Y REDDISH BRO COBBLES: FIN	MAN E T	00R3/4)\$. 0 Medium	ANDSTON Grained	E h	_		1	RATION
AUCER		!								5	-			١١	POORLY SOR CLAY BENDER 3.0-7.5': SIL	t: SA	TURATED.		LAC	E; 		EBERL ANALY CORPO	NE TICAL RATION
		 							48.1	7.5	5				BETWEEN O.C 3.0-4.5'sMOD	0-1.0	FT; SATU	RATED.				PERF O LOGGI	rmed gamaia
											41			١	4.5-5.5': BLA 5.5-7.5': DUS	KY	RED (IDR2	/2) WITH			/		RECATION AND FICATION BY
										10	, -			'	BOTTOM OF	HOL	E AT 7.5	FI.			/	EXAMIN	LATION OF
		ļ ,									4				BACKFILLED GROUT, 8/10/	/86.	I CEMENT	BENIUM	11.				
							i				7												
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			\perp					<u>l</u> ,	SITE		5			1	···········							HOLE N	۵.
					HELBY By 0=01		¥		· 	M	NYM	000 1	INT	ER	IN STORAGE	SI	TE						MISS-204R



	G	EOL	OGIC	D	RIL	L L	OG.		PROJECT		FL	JSRAP			JOB NO. 14501			F 1	HOLE NO. MISS-205R
SITE	MAYW	000 1	NTERIM	ŞT	ORAG	E \$1T	Ε	COORDINAT	ES		١	N9300,E1	0390				FROM H		BEARING N/A
BEGUN 7/16		- 1	PLETED /16/86		DWELLE		MORET NMENT	RENCH AL SERV	-			E B-33		HOLE SIZE	OVERBURDEN 13. C		J	0.0'	TOTAL DEPTH
COPPE		RYGT.	/10			BOXES /A	SAMPL!		P OF CASE N/A	e G		0 EL. 4, 4'	DEPTH/E	NOT ME			DEPTH/	EL TOP (OF ROCK U/A
SAMPL		VER WE	CHT/FALL			CASIN	C LEFT	N HOLE: DIA	LALENGTH			LOGGED B	Y.	D.M	CGRANE				
SAMPLE TYPE AND DIANETER	SANFLER ADVANCE LENGTH CORE PLIN	SAMPLE RECOVERY	SAUPLE BLOB'S " PERCENT COME		PR	WATER ESSURE TESTS	ĸ	ELEVATION	£1.630	PARPIEC LOG	SAMPLE		DESCRIPTI	ON AND CLASS	SFICATION ^a	•		WA WA	TES ON: TER LEVELS, TER RETURN, IRACTER OF
ON ON	SAMPL	SAMPL	3 5	1	= 3	⋛ PRESSURE n. P.SJ	STIMES OF STATES	54.4	0	8					•			DPI	LLING. ETC.
AUGER, 6*, THROUGHOUT.						2ND \$'	380 F	53.9 51.9	5			O.5-2.5' BROWN D PLACE: (MOIST. 2.5-9.0' BLACK (RED BRI PLACE: (SLUDGE) SLUDGE) BETWEE! (IOR2/23 FILL AN	SITY SYR3/4: POORL: LAY BII SANDY NEW MITE CK; POO LAY BI FILL): SITY V 0.5-2; NO VIS D NATIV	I; FINE TO NY SORTED: Y SORTED: SIDER; NUMER OCCASIONARLY SORTED NDER; OILY NUMEROUS SAND (SM- SAND (SM- STY; VERY BLE ORGANI	CI, MODERA AL DIUM SOFT: DENSE ROUS ORGAN ED: GRAYISH AL MICES CI LUSTER (O. ORGANICS; I SCI; AS DIJSKY REI CS (MIXED SED SANDS:	IN MICS; OF USE IN ILY MOIST,		RADIOA CONTAI EBEPLI ANALY CURPOI EBERLI ANALY CORFOI PERFOI LOGGIN NO WA AVAILA (8/10// SUMEO BACKE HOLE.	MINATION BY NE NE NE NE NE NE NE NE NE NE NE NE NE
	1_		<u> </u>				<u> </u>		35	1	\perp				-	<u>.</u>		HOLE N	3.
			POON STAS NA PAPITONE	_				SIE .	MAY	WDOD 1	INTE	RIM STO	RAGE S	ITE					M155-205R



COME RECOVERYOTIZED N/A SAMPLE HAMMER WEIGHT/FALL N/A WEIGHT/FALL N/A PRE BL ST SAMPLE HAMMER WEIGHT/FALL N/A TO NEW SAMPLE HAMMER WEIGHT/FALL N/A	E SITE COORDINATE R MORETRENCH ENVIRONMENTAL SERV BOXES SAMPLES ELL TO	RVICES MOBILE TOP OF CASING GROUND E N/A 48.3	00, E 1 0 3 5 0	° N/A									
MATWOOD INTERIM STORAGE EGIM COMPLETED DINLER 7/18/86 7/18/86 EI OTE RECOVERIGITAD N/A AMPLE HAMMER WEIGHT/FALL N/A AMPLE HAMMER WEIGHT/FALL N/A AMPLE HAMMER WEIGHT/FALL N/A AMPLE HAMMER WEIGHT/FALL N/A STORAGE TOWN A	MORE TRENCH INVIRONMENTAL SERV BOXES SAMPLES ELL TO N/A CASHIC LEFT IN HOLE: DV N/A WATER ESSURE TESTS ELEVATION 200 61 48.3	RVICES MOBILE TOP OF CASING GROUND E N/A 48.3	ODEL HOLE SIZE OVERBURDEN (FT.) ROCK (3-33 6 3.0' DEPTH/EL. GROUND WATER 1.0'/47.3' DEGEN BY: D. McGRANE	7TJ TOTAL DEPTH 4.5' 7.5' /EL TOP OF ROCK 3.0'/45.3'									
AMPLE HAMMER WEIGHT/FALL N/A N/A N/A N/A N/A N/A N/A	NVIRONMENTAL SERV BOXES SAMPLES ELLT A N/A CASHIC LEFT IN HOLE: DW N/A WATER ESSURE TESTS ELEVATION 200 61 300 61 48.3	RVICES MOBILE TOP OF CASING GROUND E N/A 48.3 IDMA/LENGTH 'A	3-33 6° 3.0' DEPTH/EL. GROUND WATER 1.0'/47.3' D. MCGRANE	4.5' 7.5' /EL TOP OF ROCK 3.0' /45.3'									
AND ONNETTER AND ONNETTER SAMPLE RECOVERY SAMPLE RECOVERY SAMPLE RECOVERY PERCONETY RECOVERY RECOVE	CASING LEFT IN HOLE: DW N/A WATER ESSURE TESTS ELEVATION 200 6' 500 6' 48.3	N/A 48.3	1.0'/47.3' D.MCGRANE	3.0'/45.3'									
AND DAMETER SAMPLE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY WEDDIESH COPE RECOVERY RECOVERY OF LOSS OF CAPAL O	WATER ESSURE TESTS ELEVATION TO SEE A 18.3	'A	D. McGRANE	MOTTES COM-									
SAMPLE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY CORE RECOVERY REDOVERY R	ELEVATION SUBSTITUTE SUBSTIT	MOIT REPTH	RECORDING AND IT ASSESSATION *	NOTIFE ON									
	Same 48.3	SAMP CONT.	DECORPORATE OF A SECURITION OF	WATER LEVELS.									
		.3 0 1	percent and concerns the	WATER SETURN, CHARACTER OF DRILLING, ETC.									
AUGER, 6°, THROUGHON		ا عنا	.0-0.5': GRAVEL; RAILROAD BALLAST. .5-3.0': SILTY SAND (SM-SC); FINE TO	∇ 8/10/86									
	45.3	.3	EDIUM GRAINED, DENSE IN PLACE; CLAY INDER; MOIST; SOFT5-LO'; MODERATE BROWN (5YR3/4); UMEROUS ORGANICS. UN-3.0': MODERATE YELLOWISH BROWN OYRS/4) WITH MODERATE BROWN ENSES:OCCASIONAL PEBBLES.	SITE CHECKED FOR RADIOACTIVE CONTAMINATION BY EBERLINE ANALYTICAL CURPORATION.									
	40.8	1T	RAIDED-TOTALLY DECOMPOSED: SOFT:	CORPONETION									
	10-3.0: MODERATE YELLOWISH BROWN 10-75: DECAM COCKSIONAL PEBBLES 10-3.0: MODERATE YELLOWISH BROWN 10-75: DECAM COCKSIONAL PEBBLES 40.8 1.5 COMPOSED SOFT SOFT SOFT SOFT SOFT SOFT SOFT SOFT												



	G	EOL	OGIC		RIL	LL	OG		PROJECT		FI	USRAP		······	JOB NO. 14501		SHEET N		HOLE NO. MISS-208R
SITE			NTER1M					COORDINATI	ES			N9200,E1	0450			ANGLE	500 HO	72.	BEARNG N/A
BEGUN 7/18		1 .	PLETED /18/86		DRELLE		MORETI	RENCH AL SERVI	1		_	ND HODEL E B-33		HOLE SIZE	OVERBURDEN		ROCK OFT	را ای	TOTAL DEPTH
	RECOVE				COPE	BOXES	SAIPLE N/A	S EL. 10	P OF CAS	MÇ C		0 SL. 4.6'	DEPTH/E	L. GROLINO WA			DEPTH/E		F ROCK VA
SAMPL		ER WE	IGHT/FALL	1		CASE	G LEFT I	N HOLEI DIA. N/A	./LENGTH			LOGGED 8	Y,	D.M			<u> </u>	 .	
SAMPLE TYPE AND DIANETER	SAMPLER ADYANCE LENGTH CORE RUN	SAMPLE 4ECOVERY CORE RECOVERY	SAMPLE BLOWS "W" PERCENT CORE PERCENT		PF	WATER ESSURE TESTS		ELEVATION	1 de de 1	GRAPHIC LOG	SMPLE		DESCRIPT	ION AND CLAS	SEICATION #			MV.	IES ON: IER LEVELS: IER RETURN, IPACTER OF
SAMP.	SAMPLE	SAMPLE CORE F	PINCE TROET		± ₹	PRESSURE P.SJ	THE S IN	54.6	0	-									S/10/86
AUGER, 6., IHROUGHOUT.				5	T. S	ZNO 6.	590 6°	54.1	5 10.0 15 20 25	1111111		0.5-10.0 GRAINED BINDERHI (WATER 0.5-4.0' HITH PR 4.0-10.0 REDUCIN	SILITI SOFT; LUMERON TABLE: CES OF ': GRAYI G ENVIP	E: RAILROAD SAND (SM- DENSE IN P. IS ORGANIC: AT SURFACE AT SURFACE RED BRICK SH BLACK (ROMMENT?.	SCH FIRE LACE: CLAY SCHOOL CLAY SCHOOL CLAY SCHOOL CLAY SCHOOL CLAY SCHOOL CLAY SCHOOL CLAY FT.	ED LE		RADIDA CONTAL CONTAL EBERLI ANALY CORPO L'ERFO L'OGGI *DESC CLASS VISUAL	MINATION BY NE TICAL RATION FMED GAMMA IG. RIPTION AND IFICATION BY MATION OF
-			SPOON, STE ON, PEPITCH					SITE	35 MA		INT	ERIM STO	RAGE S	SITE				HOLE N	a MISS-208R



		<u> </u>	OCIC	. ,	ווסר	1 1	00		PROJECT							JOB N		SHEET		HOLE NO.
SITE			OGIC					COORDINAT	E\$		F	US	RAP			1 45	01-138 AMSLE	FROM	OF 1 HORIZ.	MISS-259R BEARING
			INTERIM	1 2.									475,E1	0700		OVERBURD	FM (FT.)	90 Trock		N/A TOTAL DEPTH
8EGUN 7/25			PLETED /29/86		DATELL		MORETI Inment	RENCH AL SERVI	- 1	riele ma			B-33		HOLE SIZE		. 0'		0.0	10.0'
COPE	RECOVE N	RYGT.	/10		1	BOXES /A	SAMPLE N/A		P OF CASI	NG	GROUP 4	6.		DEPTH/E	9.0'/	TER 71		DEPTH	L/EL. TOP	OF ROCK
SAMPL		ER WE	IGHT/FALL		l	CASI	C LEFT	BI HOLE: DIA N/A	/LENGTH	1		1	LOGGED B	Y:	ע.מ	CGRANE			-	
				Т		WATER				Т		┰		<u></u>					Ţ	, , , , , , , , , , , , , , , , , , ,
TYPE Even	SAWPLER ADVANCE LEDIGITH CORE RUN	SAMPLE RECOVERY	WE BLOWS WE SAMPLE BLOWS WE SECONEMY	<u>.</u>	P:	TESTS			2	8	SAMPLE				ON AND CLAS	erica timu ⁸			WA	TES ON TER LEVELS, TER RETURN,
SAMPLE TYPE AND DIANETER	F. ER	PLE REC	REDOVE	N	N TO	PRESSURE P.S.I	THE N	ELEVATION	200	SSAPIAC LOG	SAM			DESCROP II	UN AND CLAS	SEACHTION			CH	ARACTER OF LLING, ETC.
かえ	취	द्भाष्ठ	A 182		ີ ຽ : : :	2HD 6	340 6.	45.7	0			_	0.0-0.3	. XCDUX	T				 	HECKED FOR
<u>.</u>									0.3			\setminus	0.3-2.0' BROWN	\$ 1 7 5 1 7 5 1 7 4	SAND (SM);); FINE TO POORLY CO	MODERAT Medium	E	 -	T RADIOA CONTA	ICTIVE MINATION AND
СНОП								44,7	2.0	╅╫╫	Ċ	1	U 0035F39	HRT.						GAMMA LOGGED EPLINE TICAL
AUCER, S., THROUGHOUT.		i						42.7	4.0				2.0 4.0' HULTICO	SANDY LORED:	SET (ML- FINE GRAINI BUT DENSE	CL); ED: POORL IN PLAC	Y F MOIST	ī		RATION.
υ.			<u> </u>						5 -]		١\	2.0-2.5' (5GT/2),	: CLAYE'	Y SEAM (M	L); PALE (REEN	••		
AUGE			·		,					<u> </u>			2.5-4.0	: GRAY	(N4), SAND (SM	-SC);			-	
									'				MULTICO SOFT PC	ORLY C	SAND (SM- FINE 10 MI ONSOLIDATI	EDIUM GRA Ed (Lgose	MNED:			7/29/86
								36.7	10.0]]]		j	(4.5-5.5 FT.	FT);MO	È GREEN, (IST TO SA	TURATED	AT 9.0			
				+			-	30.1		-		Ī١	GUR3./40	AND DA	ED DARK F AFK YELLON	REDDISH BI WISH ORAN	rown Ige		\prod	
										_		П	0.04P67	': DARK	YELLOWISH	BROWN		1	/	
			İ]				OF HO	LE AT 10.0			<i></i>		
	! 								15	3			AUGER IN THE ASPHAL	HOLE A	WERE IMME ND HOLE W	DIATELY F	REPLACE LED WIT	H		
								<u> </u>		=			MOFTIME	.1.						
										4										
										1										
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										7										
									20	=										
									30	7										
										4									* DES	CRIPTION AND
										=									CLA VISI	ISSIFICATION BY UAL EXAMINA-
							<u> </u>	917.F	35]_			····						TIOI HOLE N	N OF CUTTINGS.
			SP00% \$7# M P=P11CH					SITE	MAY	WDOD	INT	ER	IM STO	RAGE S	ITE					M1SS-259R



	G	EOL	OGIC		RIL	LL	.OG		PROJECT		F	us	RAP			14501		SHEET 1	NG. OF 1	HOLE NO. MISS-260R
SITE			NTERIM					COOPDINATE	2.5			N8	8600,10	800		<u> </u>	AMCLE	90°		BEARING N/A
7/25		1	PLETED /29/86		CPRLL		MORET	RENCH AL SERVI	1	DRILL M		_	MODEL B-33		HOLE SIZE	OVERBLEDEN		ROCK 6	F13 0.0	TOTAL DEPTH
	RECOVE	_1			COPE	BOXES	SAMPLE N/A	S EL TO	P OF CAS		GROUN		EL.	DEPTH/E	. CROUND WA	<u> </u>	-	<u> </u>	EL TOP	
SAPL		ER VE	DAT /FALL					N HOLEIDA. N/A					FOCCED &	} r,		CGRANE		1	<u> </u>	
_				Т		WATER		10 /	T	T			 				·			·
TYPE METER	NAVO.	CONERY	BLOSS T CORE			ESSURE TESTS		ELEVATION	MEPTH	83	SAMPLE			ne screen	ON AND CLAS	SEICATION®			WA	res on: Ter Levels, Ter return,
SALLE TYPE AND DIAIETER	SAMPLER ADVANCE	ORE R	SAMPLE BLOWS "FF PERIENT CONE RECOVERY	SSO	2 3	PRESSURE P.S.I	THE N		1 28	GRAPHIC LOG	75								CH	WACTER OF LLING, ETC.
	지말	310		•	T 6'	200 F	70 6	47.7	0.3	-		L	0.0- <u>as</u> p	RALT.					SITE C	ECKED FOR
NICER, 6", THROUGHOUT.		-											SOFT: U OCCASIO SATURA	NCONSOL NAL DE! TED AT	.DATED (LO NSE ZONES; 6.0 FT.	MOIST TO			HOLE (BY EBI ANALY	MINATION AND SAMMA LOGGED RLINE
AUGER, 6									5				WITH A PEBBLES 3.5-4.0': PLACE	WHITE C (FILL). BLACK.	LAYEY MAT VERY SILT	(2) SPECKLE TERIAL, NUM Y; DENSE IN	erous			7/29/86
								37.7	10.0				(10YR4/2 ZONES. 7.0-10.0 (10R3/4)	2) WITH 7 2: Dark : Numer	YELLOWISH A FEW LO REDDISH BE OUS PIECES POSED SAN	GRAY (N5)	TONE Inse	,		
									15	*****************		,	AUGER S	OF HOS Spoils Houe Al	LE AT 10.0 WERE BAMET NO THE HOL	FT. RETECT RES	PLACED)		
									20	***********										
									25											
									30	****									CLA	CRIPTION AND SSFICATION BY IAL EXAMINA- I OF CUTTINGS.
			POCH STE				1	SITE			INT	ER	IM STO	RAGE S	ITE				HOLE IS	MISS-260R



	G	EOL	.00	GIC	D	RIL	LL	OG		PF	10.EC7		FI	JSRAP				J08 14	ND. 501-130		T NO. OF 1	HOLE NO. NISS-289R
SITE	MAYW	000	INTE	RIM	STO	DRAG	E SIT	E	C00	ROMATES	-		1	N8780,	E11	7400			AHG	E FROM	HORIZ.	BEARING N/A
BEGUN			71E1		ľ	MLLE		MORET	REN	CH SERVICE	1-			6 M00E			HOLE SIZE		0.0'	ROCK	رتی 0.0	TOTAL DEPTH
	RE COVE	RY G T,			+	COFE	BOXES	SAMPL N/A	E5	EL TOP			ROUN	0 a. 3.9'		DEP TH/E	L GROUND W	ATER /41.9'		DEPT	H/EL TOP	OF ROCK
SAMPL	N. E HAM	IER WA	JCHT.	TAL		- N			DI HO	LEI DA./L				Loca	ם ס	r _i		MCGRANE				
	N/		_				MATER			n/A	T		T]		_		<i>V.</i>					
SAMPLE TYPE AND DIAMETER	CORE PLA	RECOVERY RECOVERY	LE BLOWS	DAT COME.					ELE	HOITAV	H 69	CRAPHIC LOG	SAMPLE			DESCRIPTI	ON AND CLA	SSFICATION	; *		WA WA	TER LEVELS. TER RETURN, ARACTER OF
246	SAMPLE	SAMPLE CORE	SAME	PERCI	1055	3	PRESSU P.S.	A z		(8.9	0	8									İ	LLING. ETC.
AUGER, 6', THROUGHOUT.	TESTS SAIDER S PLOOD SELEVAT PLOOD SELEVAT PLOOD SELEVAT PLOOD SELEVAT PLOOD SELEVAT PLOOD SELEVAT PLOOD SELEVAT AB. 48.									38.9	10 20 -			O.3- STR/ GRAI (O.3- CON SATI O.3- ORG. DRY. 4.0- HOY! (EGT T.5- HOR	10.00 10	ED: MOS WITH O WITH O WITH O WITH O LAYER TED AT BLACK RICH, R GRAY DARK SILTY L TOARK VERY OF HO	SAND (SM TLY FINE (CCASIONAL IFT; POORL (LOOSE) WIT (4.0-4.5 F T.O FT. ; POSSIBLE EOUCING E (N3-7), CL YELLOWISH A FEW PA LENSES; CL REDDISH B SILTY. HE AT IO. (H CEMENT	PEBBLE Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	S JENSE TO ENT; ST. N R.		RADIOA CONTA AND H LOGGE EBERLI ANALY CORPO	MINATION, OLE GAMMA OLE GAMMA NE TICAL RATION B/6/86 CRIPTION AND IF CATION BY LICATION OF
-				ON: ST#					SIE		35 MAY	#000]]N1	ERIM	STO	RAGE S	SITE			_,-	HOLE !	no. MISS-289R



	G	EOL	OGIC		RIL	<u>L</u> L	.0G		PHOJECT	· · · · · · · · · · · · · · · · · · ·	ا	FU:	SRAP			JOSE NO. 14501	-138		F I	HOLE NO. MISS-290R
ΠĘ	MAYW	000	INTERIN	1 51	ORAG	E SIT	E	COOPDINAT					9005,E10	290	_		<u> </u>	90°		BEARING N/A
EGUN 8/6	/86		PLETED 3/6/86		DP4LLI		MORE T	RENCH AL SERVI	1				HODEL B-33		HOLE SIZE	OVERBURDEN 7.5		ROCK (F	0.0 LT	TOTAL DEPTH
OPE.	PECOVE N.	RIGI.	/ 10			BOXES /A	SAMPLE N/A		P OF CA	SINC	GROL		EL. 8'	DEPTH/E	1. GROUND WA	TER '44, 3'		DEPTH	EL. TOP (}	FROCK VA
ild (E HAND		GHT/FALL		<u> </u>	CASIN	C LEFT	N HOLEI DA	JLENGTH		<u>. </u>	<u>,</u>	LOGGED BY	'1	D.M	CGRANE				
	SAMPLER ADVANCE. LENGTH CORE HEN	COVERY	BLOWS T CORE		PF	WATER ESSURE TESTS		ELEVATION	H-430	961	SALOIF			DE SCRIPT	ION AND CLAS	SEICATION *			WA'	TES ONL TER LEVELS. TER RETURN,
AND DIAMETER	SAMPLER LENGTH C	SAMPLE R	SAMPLE BLOWS 'N' PERCENT CORE RECOVERT	Z 10X	≖ 3 1 5:	SPRESSURE P.S.I	SETUPON S	48.8	0	CRAPHC LOG	3	5							CRA	RACTER OF LLING. ETC.
AUGER, 6", THROUGHOUT.								48.5	5				0.3-1.0': ORGANIC- 1.0-3.5': (IOYR6/6 ZONES.	SILTY ED SOIL GRAINEE DATED INSES (O SATL BLACK, -RICH, R DARK Y) WITH	SAND (SM-1 HORIZONS:); SOFT; PO(!LOOSE) WIT: (!LOOSE) WIT: (!LOOSE) FAT: POSSIBLE EDUCING EN 'ELLOWISH (VERY SILTY	, GRAY (NG-	?.			<u>~</u> 8/10/86
								41.3	7.5 10 20 25				(IOYR4/2 5.5-7.5': DECOMPO BOTTOM	DARK I DARK I DSED SI OF HO CKFILLI	ANDSTONE? LE AT 7.5 ED WITH CE	OWN (IOR3/			CONTA AND H LOGGE EBERL ANALY CORPO *C'ESC VISUAL	INE TICAL RATION. RIPTION AND FICATION BY
			SP00% \$7:	UF1	BY TU	l B£a	1	SITE	3:				RIM STOR						HOLE NO).



			0010		2011		~~		PROJECT						JOB 140.		SHEET		HOLE NO.
	G	EOL	<u>.OGIC</u>	-	JKIL	<u>.L L</u>	.06				F	USRAP			14501		FRCM H	OF 1	MISS-291R BEARING
SITE	MAYW	000 !	INTERIM	5	TORAC	E SIT	E	COORDSATE	.5		1	N9080,E1	0296				90°		N/A
BEGUN B/6	/86	1.	FLETED 3/6/86		DMLLI		MORE TO	RENCH AL SERVI	1		_	E B-33		PATE ZEE	OVERBURDEN 5.0		ROCK 0	1.0'	TOTAL DEPTH
	RECOVE	RYFT.		.—	COPE	BOXES	SAMPLE N/A	S EL.TO	OF CAS	NG (D EL. 8.8'	DEPTHIE	L. GROUND WA			DEPTH	/E1_TOP (F ROCK /43.81
SAF	E HAND		JGHT / FALL				<u>. l </u>	N HOLE, DIA				LOGGED E	1 Ye		CGRANE		<u>. </u>		
	N/		·	1		WATER		N/A			1			U.M	CONAIR			Ι	
LE TYPE JAVETOR	SAMPLER ADVANCE LENSTH COPE RUM	SAMPLE RECOVERY	SAMPLE BLOWS "W" PERCENT CORE RECENTERY		PI	RESSURE TESTS	'n	ELEVATION	DEPTH	PAPHIC LOG	SAMPLE		DESCRIPT	ION AND CLAS	SFICATION ⁴			WA"	TES CNL TER LEVELS, TER RETURN, URACTER OF
NO.	SAMPLE	SAMPLE			≖ 3 5 5	PRESSURE P.S.I	A THE S IN THE S IN THE S	48.8	0	8								OF	LLING, ETC.
AUGER, 6, THROUGHOUT.								42.8	0.3 2.0 5.0 10	<u> </u>		YELLOW OF GRA POORLY 2.0-5.0 YELLOW MEDIUM CONSOL SATURA 4.0-5.0 FILLOW FILLOW FARGILL HARD: P DECOMP SFOILS GRAVEL BOTTOR HOLE E	SITY SH ORAN Y (NG-7: CONSO! SILTY SH BRO GRAINEI DATED TED AT BLACK R LEAKA COECUL HROWN ECEOUS) OORLY CONSIST	SAND (SM-1) NGE (10 YR6.) NGE (10 YR6.) PER GRAIL SAND (SM) NN (10 YR4./ POS OF I; POO (LOOSE); MO 3.0 FT. WITH AN C GE7), POSED SAN (LOOSE); MO 3.0 FT. OF SILTY LE AT 6.0 ED WITH CE	(6) WITH ZOI WIED; SOFT; SOSE); MOIST DARK 21; FINE TO WILY LUSTER DSTONE; DA WILY LUSTER MODERATEL EMENTED; T("EATHERED; SAND (SM)	RX O O O DTALLY DRILL AND		AND H LOGGE EBLRL ANALY CORPO AUGEF 6.0 F	INE TICAL PRATION. REFUSAL AT T. RIPTION AND IFICATION BY
			SPOONS ST					SIE	30 35		ראנ	ERIM ST	DRAGE S	SITE				HOLE N	n. MISS-291R



									,				.,		γ				,
	G	EOL	.OGIC		RIL	LL	.0G		PROJECT		FU	SRAP			JOB NO. 14501			¥ 1	HOLE NO. MISS-292R
SITE	MAYW	000	INTERIM	ST	DRAG	E SIT	E	COORDBIAT	ES		N	8780,E1	0600			ANGLE	FROM H		BEARING N/A
8/6		- 1	PLETED 3/6/86		DMBLL		MORET	RENCH ALSERV		DAIT AN	KE AN			HOLE SEE	OVERBLEDEN 10.		ROCK (גרז 2.5'	TOTAL DEPTH
	RECOVE	RYG 1.		-	COPE	BOXES	SAMPLE	S EL. 10	P OF CAS		ROUNE	EL.	DEPTHOE	L. GROUND WA	TER			EL TOP (F NOCK
SAUFI		/A En he	INT/FALL		N	/A	N/A	N HOLE: DIA	N/A ./LENGTH		48	. 9'	 	6.0'/			L	10.0	//38.9
	N	'A		,				N/A	1	ļ	1 1	<u> </u>		D.M	CGRANE				
SAMPLE TYPE AND DIAMETER	SAMPLER ADVANCE LENGTH CORE RUN	CORE RECOVERY	SAMPLE BLOWS "W" PERCENT COME RECOVERY		Pf	WATER WESSURE TESTS	_	ELEVATION	HL 430	GRAPHIC LOG	SMPLE		DESCRIPTI	ON AND CLAS	SFICATION O			WA'	tes one ter levels. Ter return,
NO ON	SALPLE	SONE P	CAMPT.		2 3 3	BPRESSURE P.S.I	SHAPE A	48.9	0						·			DPE	RACTER OF LLING, ETC.
AUGER, 6°, THROUGHOUT.								38. 8 36.4	0.3 5 10 12.5 15 20 25			BLACK SPECKLE FTLE FILE CONSOLI NUMERO AT 6.0 RO.O-12.* DARK R GRANED MODERAT WEATHE SILTY S BOTTOM HOLE B	EDECOMO TOTAL POST AND AND AND AND AND AND AND AND AND AND	SAND (SM- YISH BLACK WHITE PEB D SOFT; PC LOOSE); CL LOOSE); CL LOOSE); CL SIBLE REDA POSED SAI BROWN (IOR: ECEOUS); S RLLY DECON ER SPORLS D GRAVEL; LE AT (2.5	BLES (0.3-4 ORLY BINDER; TO SATUR TO SATUR STONE; S74); FIRE OFT TO TO WELL POSED TO CONSIST O SATURATED.	HIGHELY		RADIOA CONTAL AND HE LOGGEE EBERLII ANALY CORPOS CO	REFUSAL AT T. REPTION AND SECURITY OF THE TICH.
									35	*******									
			POON STEE				1	TIE.	MAY	1V0000	INTE	RIM STO	RAGE SI	ITE				HOLE NO	MISS-29 2 R



									T						JOB NO.		SHEET	**	HOLE NO.
	G	EOL	00	SIC	DRI	LL	LOG		PROJEC	-1	FL	ISRAP			14501	-138	1 (¥ 1	MISS-293R
ITE	MAYW	200 1	NTE	RIM	STORA	AGE S	TE	COORDON	TES		N	18780,E1	0700			ANGLE	FROM H		BEARING N/A
8/6.			PLETE		DAG.			RENCH AL SERV	/ICES	•		D MODEL		HOLE SIZE	OVERBURDEN 5. 0		ROCK (7.5'	TOTAL DEPTH
	NE COVE	RYET			1	E BOXES		ES EL 1	OP OF C		GROUNE		DEPTHA	L. CROUND TA	TER 42.4		DEPTIN	EL TOP (743.9
MAPL	E HALO		ion /	FALL	<u> </u>			IN HOLE: DI		н	""	LOGGED 8	<u>. </u>				1		7 10. 3
	N/	′λ 		1	-	WATER		N/A			11	<u></u>		U.≱	CGRANE		· · · · ·		
AND DANKTER	SAMPLER ADVANCE LENGTH CORE RUN	CORE RECOVERY	SAMPLE BLOWS	PERCENT CONE RECOVERT		PRESSUE TESTS	€	ELEVATIO	* 2	SAAME LOG	SMPLE		DESCRIPT	ION AND CLAS	SEICATION [®]			VA VA	TES ONE TER LEVELS, TER RETURN, NRACTER OF
2 0	SAMPLE		75	100	2 z 3	SPRESSURE P.S.I	2 Z 2 Z 2 Z 2 Z 2 Z 2 Z 2 Z 2 Z 2 Z 2 Z	48.9		- 1 -									LLBG, ETC.
AUGER, 6", THROUGHOUT.					<u> 61 s·</u>	7980	F 30 6		0.		4	BLACK / GRAINED (LOOSE):	SILTY UND GRA SOFT: CLAY S: MCIS	SAND (SM-	NSOLIDATED EROUS			RADIOA CONTAI AND HI LOGGET EBERLI ANALY	MINATION, OLE GAMMA O BY NE
AUGER,								43.9				5.0-7.5' REDDISH (ARCILL)	DECOM BROWN CEOUS	POSED SAN (IORS)/4); F ; SOFT TO FUSA: AT	DSTONE: DA INE GRAINEI MODERATEL 7.5 FT): POO LLY DECOMF GER SPOILS	RK) Y DRIY			8/10/86
									3			BOTTOM HOLE B. GROUT,	OF SH OF HO ACKFEL BZIOZ86	LE AT 7.5 ED WITH CE	אט השוא ואוכ	AYEL.		VISI	CREPTION AND SSIFICATION BY IAL EXAMPLA- N OF CUTTINGS.
-					HELBY :			SIE.			INTE	RIM STO	RAGE S	ITE				HOLE N	o. M155-293R



	G	EOL	OGIO)	DRIL	LL	.0G		PROJECT		FU	JSRAP			JOB NO. 14501		1	OF 1	HOLE NO. MISS-294R
SITE	MAYW	000 1	NTERI	M 5	TORAC	SE SIT	E	COGROBNAT	ES		N	18780,E1	0500	-		ANGLE	FROM H		EEARING N/A
BEGUN			PLETED 1/7/86		DMLL		MORET	RENCH AL SERVI	1		_	D MODEL E B-33		HOLE SIZE	OVERBURDEN		ROCX 0	رت 0.0	TOTAL DEPTH
-	RECOVE	RYCT.			COPE	BOXES	SAMPLE N/A	S EL. 10	P OF CASI		ACUM		DEPTH/E	1. GROUND WA				EL. TOP	OF ROCK
SAMPL	E HAVE		GIT/FAL	ī	<u> </u>			N HOLE DA		l.	7(LOCCED 8	Υ,				1		
	N/		 .	1		WATER		N/A		γ	1-1	J		0.4	ICGRANE				
SAMPLE TYPE AND DIAMETER	SANTLER ACVANCE LENGTH CORE RUN	SAMPLE RECOVERY	SAMPLE BLOWS	OVERY	P1	RESSURE TESTS	8	ELEVATICA	ESP74	GRAPHIC LOG	SMOLE		DESCRIPTI	ION AND CLAS	SFICATION .			WA	TER LEVELS, TER RETURN, APACTER OF
346 U	SAN SAN SAN SAN SAN SAN SAN SAN SAN SAN	SAMPLE	3 6		S = 3 S = 3	P.S.	SECULES SECULES	48.9	0	88		0.0-0.3	, rnaro	C) I	· · · · · · · · · · · · · · · · · · ·			93	HECKED FOR
AUCER, 6, THROUGHOUT.		I)						38.9	10.00 15.			0.3-10.0 STRATIF SOFT; P ONE DEI MOIST 1 0.3-3.5' CLAYEY 3.5-4.5' GREEN (6:16/4); 4.5-6.5' SPECKLII (6.0-6.5 6.5-10.0 UOR3/4' SWIDST	': SILTY 'ED: FINE DOPLY C OSE CLAYE 'S SATU 'BLACK MATERI : CLAYE 'S GT/2D' : DENSE : MODER : MODER ': VERY ONE? OF HO ACKFILLE	SAND (SM- TO MEDIU CONSCLIDAT CYEY SEAM RATED AT SPECKLED AL. (I SEAM; MO AND DISKY IN FLACE, ATE BROWN A WHITE C REDDISH BE SILTY; DECC LE AT 10.0	WITH A WHIT TYLED PALE YELLOW (5YR3/4): LAYEY MATE ROWN PAPOSED	TE:		RONTA CONTA LOGGEI EBERLI ANALY CORPO	CTIVE MINATION, DIE GAMMA DIE GAMMA DIE GAMMA TICAL RATION. B/KO/86.
									35	-						 -		VISI	SSIFICATION BY JAL EXAMINA- I OF CUTTINGS
Ì			POON 51 N P=P110					SITE	MAY	WDOD	INTE	RIN STO	RAGE S	ITE				"	MISS-294R



	<u>C</u>	FΛI	OGIC	Γ	RII	1 1	OG		PR	OJECT		E1	JSR.	AP			JOB NO.	-138	SHEET	жо.)F 1	HOLE MOL MISS-295R
ME .			INTERIN					COOPE	NATES						700				FROM H	ORIZ.	BEARING N/A
EGUN			PLETED		DRILL		MORET	RENCH		DR	EL MA	XE AN	D W		300	HOLE STZE	OVERBURDEN		ROCK 0	CF1	TOTAL DEPTH
B/7.	/86		8/7/86	_		ENVIRO BOXES	NME NT	AL SE	RYICE	S CASH		OBIL ROUN		B-33	DEPTH/E	6°	TER 10.	0'	1	0.0 EL 10P	10.0'
	N	/A				/A	N/A		N.	/A			7.0)	_		41.0'				N/A
MPL		HER M /A	GHT/FALL			EASI	G LEFT	N HOLE:		-MGTH			1,0	OGGED BY		D.¥	CGRANE				
WETER	SAMPLER ADVANCE LENGTH CORE RUN	SAMPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS "W" PERCENT CONE RECOVERY	_	FI	WATER SESSURE TESTS		ELEVA	KONT	OEP TH	MAPHIC LOG	SALPIE		ı	DESCREPT	ION AND CLAS	Specation *			W/	TTES ONL LITER LEVELS, LITER RETURN,
AND DIAMETER	SAMPLER ENGTH	SAMPLE CORE R	PAGE CE		≖ ₹	P.S.IRE	THE N NAUTES	47	0		48	\sigma									laracter of Blung. Etc.
AUGER, 6", THROUGHOUT.					1 S	200 5	5.0 6.	41	.0	5 - 6.0 - 20 - 25 - 30			SCHON 3 4B SMC 60 TWC B	TRATIFIERAMEDIL LOOSEI; LOOSEI; LOOSEI; LOOSEI; LOOSEI; LOOSEI; LOOSEI	ED SOR SOFT; MODER IS GRAN IS GRAY IS TY ED; FIN GRAINEL DATED; ID DARK IS DAR	TO SATURIA ATE BROWN SEROUS NUMEROUS (NG-7) SPE(SAND TSM- TO SOFT; PO CLOOSE); SA TELLOMISH EY. REDDISH B K ORCANIC (SES OF P); LE AT 10.0 FD WITH CE	FINE INSOLIDATED I	0 FT.		RADIC, CONT A LOGGE LOGGE LOGGE LOGGE LOGGE LOGGE ANALY CORPO	TICAL PRATION. 3/10/86 PRATION AND CRIPTION AND SEICATION BY
		5017	SPOON ST	Q.F	IRY T	LERE.		SITE		35	<u> </u>				D. CT (.) T.F.				HOLE	
			Oth Paper CH							MAT	WUUU	141	בעו	M STO	NAUL 3	74 1 %				<u> </u>	MISS-295R



	G	EOL	.OGI	C	DRII	LL	.0G		PROJECT		FL	ISRAP			JOB HO. 14501	-138	1	¥ 1	HOLE NO. MISS-325C
SITE	MAYW	000 1	INTER	IM S	TORA	SE SIT	Έ	CODROBAT	ES			(8485,E1	1415				90°		BEARING N/A
EGLIN 8/26 COME	/86 RECOVE	8	PLETES /26/8 /10		CORE		MORETI ONMENT SAMPLE	AL SERVI	1	MO	BIL	E B-33	DEPTHÆ	HOLE SIZE 8" L. GROUND WA' 5. 0' /			1	0.0' EL TOP 0	TOTAL DEPTH 7.0' F ROCK
MPi.		ER IE	3917/7/	ш	1.			N HOLEIDA N/A				LOGGED 8	<u> </u> Yı		. YEN		<u>.l</u>	· ···	
AMETER			SAULE BLONS	DVERY		MATER MESSURE TESTS	1	ELEVATION	HIGH	PRAPHIC LOG	SAPIE	<u> I </u>	DESCRIPTI	ION AND CLASS	SFICATION [®]			WA] Wa]	TS CON ER LEVELS, ER RETURN,
2 2	SAMPLE LDGTH	SAMPLE COPE F	1		S = 3	PPESSURE P.S.1	20 TE STORY S	45.3	0	8	"								AACTER OF LING, ETC.
SS 5"		N/A	N/A	-				44.3 43.3	2.0			0.5-2.0' 0.5-2.0' (NT) HET SOFT.) RESOU : SI T A EROGEN	ML); DUSKY IAL SOIL. ND SLUDGE EOUS, SLIGH GRAYISH BR	LIGHT GRA TLY PLASTI	Č,		RADIOA	ENATION BY E ICAL
								41.3 40.8 38.3	4.0 4.5 5			_(5YR3/2	LFINE (GRAINED, SIL MEDIUM G SKY YELLON GRAINED, SIL	TY.			EBERTI	9/5/86 NF
								30.3	1.0	1.1.1.		4.5-7.0° (10YR6/	: SAND 2), FINE	(SC-SM); PA GRAINED, S	LE YELLOW ILTY, SATU	ISH BR RATED	ROWN	ANALY	TIČAL RATION BMED GAMMA
									15 -				CKFILLE	LE AT 7.0 D WITH CEN		N TE		WITH H	CED HOLE OLLOW STEM (4x8 INCH).
									25 -										
					51.874 TL		I.	SITE	30 -			RIM STO	-,					CLAS VISU	CREPTION AND SSECTION B ALL EXAMPLA-OF CUTTINGS



		FΛI	OGIC	٠ ٢)RII	1 1	OG		MOJECT		C 1	USRAP	<u>-</u> -	_	JOB NO. 14501		SHEET NO.	HOLE HO. NISS-3260
SITE			NTERIN					COOPDONTE	s			N8500,E1	0.000		117307		FROM HORIZ.	BEARING N/A
BEGLI		COL	PLTED		DOM	D R	MORET	RENCH	1		KE A	NO MODET	UOUV	HOLE SEE	OVERBLADEN		ROCK (FTJ	TOTAL DEPTH
8/2°	RECOVE	RYF1.	/27/ 86 /20	-	COPE	BOXES	SAMPL		OF CASE		ROUN	.E B-33	DEP TH/E	B*		· ·	2.5'	
SAMPI		/A MER SE	DOT/FALL		N	/A CUSI	IC LEFT	BI HOLE DIA	N/A		4	5.3'	<u> </u> Yı	5.01/			4.5	/40.8'
	_	/A		Т		WATER		N/A			1	<u> </u>		P	.YEN		1	··
SAMPLE TYPE AUG DANETER	TH ADVANCE	RECOVERY	AUCT CORE		M	ESSURE TESTS		ELEVATION	н ты	PRAPHIC LOG	SMPLE		DESCRIPT	ION AND CLAS	SFICATION		7/	TES ON TER LEVELS, ITER RETURN, ARACTER OF
300	SAMPLE	CORE	AND DESCRIPTION OF THE PERSON	108	23	PPESSURE	36 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	45.3	0	35								ELING, ETC.
				│		200	30.5	44.3	10			PAVENE	IT AND	ROAD BAS		;	RADIO	
72. 22	24*	N/A	N/A								1	10-3.0': (5YR2/2	SILT ON	L); DUSKY] (, MOIST.	3ROWN		ÉBERL ANALY	TICAL
								42.3	3.0 -			BROWN	SAND KOYRE/2	(SC-SM); PA 2), FINE GRA	LE YELLOW!	SH		RATION.
	ļ							40.8	4.5			MOIST. 4.5-7.0° GRAINED	SANDS SELLY	IONE: SOFT.	FINE		_	9/5/86
								38.3	7.0			FRAGME! 4.5-5.0	NTS. BROWN	ISH GRAY (SYR3/D.		EBERL ANALY CORPO	TICAL RATION
		1									\setminus			RED (5R3/			PERFO LOGC#	RMED GAMMA IG.
									10 -			HOLE BA	CKFILLE	LE AT 7.0 ED WITH CEI	FT. MENT-BENT(MITE	WITH !	CED HOLE HOLLOW STEM (4x8 INCH).
								 				GROUT,	3/5/86.	•			, DOC.	CAZO INCID:
		; ;					1		15 -									
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									20 -									
				ļ					25 -									
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									30 -	1								
										1							• DES	CRIPTION AND
										1							CLA Visi	SSIFICATION BY LAL EXAMPLA-
<u> </u>		****	PANE 57-1		BY 11:	<u> </u>	1:	WTE.	35	1		<u></u>					HOLE N	N OF CUTTINGS.
			POON STA N PARTICLE						MAYW	000 1	NT	RIM STOR	RAGE S	ITE				M155-3260



SITE MAYPOOD INTERIN STORAGE SITE MORE TRENCH MORE TR		JOB NO. 14501	1-138	B 1	ET HO. I OF I	HOLE NO. MISS-327C
8/71/86 8/71/86 ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENY:ROMENTAL SERVICES MOBILE 8-33 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-33 8° ENTITIES SERVICES MOBILE 8-33 8° ENTITIES SERVICES MOBILE 8-33 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-33 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBILE 8-35 8° ENTITIES SERVICES MOBI			MCI	E FROM	1 HORIZ.	BEATING N/A
COME MICHIGHT TO MAN AND AND STATES OF THE MICHIGAN STATES OF THE MAN AND STATES OF THE	VERBURDED	BURDEN		ROCK	k 673 1.0'	TOTAL DEPTH
THE PROPERTY AND CLASSES TO STATE OF THE PROPERTY OF THE PROPE		3'		DEPT	TH/EL. TOP (F NOCK 735.3
THE STATE PROPERTY OF THE PRESENTATION AND CLASSES THE STATE	EN	۱				
44.3 44.3 AVA N/A N/A AVA N/A AVA AVA AVA AVA AVA AVA AVA	ICATION®	TION*			TA TA	TES ON TER LEVELS, TER RETURN.
44.3 44.3 AVA N/A N/A AVA AVA AVA AVA AVA AVA AVA						ARACTER OF LLING, ETC.
34.3 10 RO-LOTSANDSTONE; DUSKY (SR7/4), SOF TO MODERATE FINE GRANED, SETY, SATURA BOTTOM OF FOLE AT ELOF HOLE BACKFILLED WITH CEME GROUT, 975/86.	RANED.	AINED,			RADIOA	MINATION BY
34.3 10 SOLD ARK, GRAY (N3), SI GASOLINE ODOR. B.O-B.O'S SANDSTONE; DUSKY (SR3/4), SOF TO MODERATE FINE GRAINED. SETY, SATURA BOTTOM OF TOLE AT BLOTH HOLE BACKFILLED WITH CEME GROUT, 9/5/86.	NW	N			ANALY	TICAL RATION.
34.3 10 ROD-ECY: SANDSTONE: DUSKY (5R3/4), SOF TO MODERATE FINE GRADED, SETY, SATURA BOTTOM OF FOLE AT ECOTH HOLE BACKFILLED WITH CEME GROUT, 9/5/86.	IGH T	łT			EBERLI ANALY CORPO PERFO LOGGE	TICAL Ration RMED Gamma
34.3 H.D + SOF TO MODERATE FINE GRAINED, SR. TY, SATURA BOTTOM OF FOLE AT R.O FT HOLE BACKFILLED WITH CEME GROUT, 9/5/86.					1	9/5/86
15 - HOLE BACKFILLED WITH CEME CROUT. 9/5/86.	LY HARD TED.	D HARD D.),		WITH	NCED HOLE HOLLOW STEM R (4x8 INCH).
20		r-Bent	TONITE	•		
25 -						
25 -						
30 -						
30 -						
					QLA VISA	CRIPTION AND ISSIFICATION B UAL EXAMINA- IN OF CUTTING
SS-SPLIT SPOON, ST-SHELBY TUBE; SITE MAYWOOD INTERIM STORAGE SITE DIDENGEN, PIPTICHERS DIDENG					HOLE N	



	G	EOL	OGIC	3	RIL	LL	.0G		PROJECT		FL	ISRAP			.68 NO. 14501	-138	SHEET NO. 1 OF 1 FROM HORIZ.	MISS-330C
SITE	MAYW	000	INTERIM				E	COOPDINATE				19000,E1	1350	,			900	N/A
9/2			PLETED 9/2/86				MORET!	RENCH AL SERVI		DRELL MA		E B-33		HOLE SIZE	OVERBLIRDEN 6. 0		5-0, 800x €⊥7	TOTAL DEPTH
OPE.	RECOVE N.	MET.	/10			BOXES /A	SAMPLE		OF CA	Sanc C	HOUNE 45	5.7'	DEPTH/E	5.0'/	TER '39. 7'		DEPTH/DL TOP 6.0	of Rock '/39.7'
MPL	E HANG		SOUL AND THE	ال بيورو		CASH	G LEFT	N HOLE: DA. N/A	/LEMSTH	i		LOGGED B	fs.	Р	. YEN			
AMETER	SAMPLER ADVANCE LENGTH CORE RUN	CORE RECOVERY	SAMPLE BLOWS W PERCENT COME RECOVERY		PF	MATER ESSURE TESTS		ELEVATION	HL 438	PRAPHEC LOC	SMPLE		DESCRIPT	ION AND CLAS	SFICATION [®]		T.	PTES ON ATER LEVELS, ATER RETURN, NARACTER OF
3 3	See Le	300	10 PM		z 3	Bressine P.S.I	THE N	45.7	٦	8								BLING, ETC.
\$\$ 1.5*		N/A	N/A	5	T 6'	200 6	30 6	45.2	0.5 L5	-1111		(5YR2/2 0.5-1.5': YELLOW! PLASTIC	RESIDL SII AU SII BRO SANO (SC-SMD; FINE	LH DUSKY 21, SLIGHTLY		RADIO CONT EBERI ANAL	CHECKED FOR JACTIVE AMINATION BY LINE YTICAL ORATION
								39.7	5 6.0			3.0-5.5° 5.5-6.0° 00186/2	PALE	GRAY (N7). YELLOWISH	BROWN		₽	9/5/86
				<u> </u>				37.7	8.0	1 (1) 1 (1)		K.0-8.0	SANDS	TONE; DUSK TO MODERA LTY, WEATI	Y RED TELY HARD, HERED, MOIS	т.	CORP	YTICAL Oration Ormed Gamma
									10 20 25	<u> </u>			CXFILL	LE AT 8.0	FT.	CHITE	* DEI	INCED HOLE HOLLOW STEM R (4x8 INCH). SCRIPTION AND ASSIFICATION B UAL EXAMINA- N OF CUTTINGS
			SPOON, ST=				1	STE	35 MA		<u> </u>	RIM STO	SYDE C	ITE			HOLE	MISS-330C



		ΕΛΙ	<u>Λ</u> (,IC	וופת		00		PROJECT			ICDAD		:	JOS NO. 14501		SHEET NO.		HOLE NO. MISS-332C
SITE .								COORDONATI	ES			ISRAP			14301		FROM HORG		BEARING
MECLAN			PLET		2 I UKA	GE SIT	MORET	DENCH	Į į	DALL MA		18915,E	0085	HOLE SEE	OVERBURDEN	נדפ	90°		N/A TOTAL DEPTH
9/2/	/86	9	3/2/	_		ENVIR	NIMENT	AL SERVI	P OF CAS		DBIL	E B-33	Techtu e	B"	5.0	<u>'</u>	O. !		5.5'
	N	жүет. /А				DOXES VA	SAMO	2 10	N/A			3.6'	DET INCE		43.6'				/43.6'
SMPL		A R	SCHT/	FALL	=	Cra	G LEFT	N/A	LALDIGTH			LOGGED	BY:	P	. YEN				
TYPE ETER	ADVANCE STE RUN	CONERT	SK ONTS	COME TEST	P	WATER RESSURE TESTS		ELEVATION	¥	81	SALPLE	- • • • • • • • • • • • • • • • • • • •	7667230	ION AND CLAS	SEICATION®			WAT	es om er levels, er returk
SAMPLE TYPE AND DANETER	SAMPLER ADVANCE	CORE RECOVERY	TLANS.	PERCENT CONE RECOVERT	1000 A 23	SPIESSURE PPSSURE	20 C	48.6	1 B	GRAPHIC LOG	42							CHA DRIL	RACTER OF LING, ETC.
		<i>=</i>			<u> </u>			48.3	a3	0000	-	BLACK	(NOTO K	ODERATE F	AVEL FILLS REDOTSH BAC LVELLY FILL)WN	R.C.	adioa(enation by E
\$ 5	24*	N/A	N	/A				45.6	3.0		-				WN (5YR2/2 SOME ZONES DOYR7/4).	5,	— å	DRPOR	ÄTIÖN. 9/5/86
								43: 6	5.5-			5.0-5.5 (5R3/4 GRAINE	': SANDS , MODER,), WEATH	TONE: DUSK ATELY HARI ERED.	Y RED D, FINE		A CP	BERLIN NALYT ORPOR ERFOR	ICAL IATION HÆD GANMA
									10	********		HOLE E		LE AT 5.5 ED WITH CE	FT. MENT-BENT	ONITE	4	DVAN	ED HOLE OLLOW STEM (4x8 INCH).
									15										
									20	***************************************									
									25	*********									
									30	Licretar									
									35	1								AI2T CT V	CRIPTION AND SSIFICATION BY AL EXAMPLA- OF CUTTINGS
					HELBY T R: 0=0TH			SITE			INT	ERIM ST	DRAGE S	SITE			P	DLE W	MISS-332C



										PRO_EC							,65 HG.		SIET I		HELE HO.
	G	EOL	0.	GIC	_[ORIL	Ll	.00	,			,	FL	ISRAP			14501	-138	1 0	F 1	M15S-333C
at L	MAYM	XXX 1	NTI	ERIM	S 1	TORAG	Æ 511	E	COOPERATI	CS.			•	19305,E10	200			AMELE	FROM 110 90°		N/A
9/3		1	AF	1100 / 18 6		DPB.1		MORE T	RENCH AL SERVI	UE C	DAL			0 MDDs. E 8-33		NOTE ZEE	OVERBLANDEN		NOCK F	าม .5'	TOTAL DEPTH
	RE CONE	RIFT.				CARE	BOKES /A	SAMPL	-		300		NOLIN		162°114/1	D. CROLING W	(15) (49. j*		ועורפט	1. 10P (F NOCK /48.1'
ALP.	E MAA		DIT.	FALL	_				R HOLE DA		H	_1_		LOSSED BY	*				<u> </u>		
	N.				_		MID:		N/A	-	_		7	<u> </u>		r	YEN				
AND DRAWETER	LDETH CONE MAN	CORE RECOVERY	E BLOWS	PT CONC	_	PI	ESSURE TESTS		ELEVA TIO	HLAS		PARMIC LOS	SMOLE	1	ESCRET	TON AND CLAS	SFICATION®			TA.	TES ON TER LEVELS, TER RETURN,
1 8	3,5	38	5	200	2501 201	* \$	The State	¥ = 5	54.6		-	3	*								PARTER OF LLBG, ETC.
					1	2.5	20 5	30.4		1,0	-63	3	H	0.0-LO': 045), BAS	CRISH ALT	0 800C V	DILM GRAY			SITE C RADIOA	HECKED FOR
ss,	24"	N/A	*	VA					53.6		1			10-4.01	SAND (isky birowa	DERATE BRO 1 (5YR2/2),	FINE		CONTA EBERLI ANALY	MENATION BY NE TICAL
									50.6	4.0	ہ آ۔			4.0-6.5': BROWN (S 1 (M > DUSKY 2), CONTAIN	YELLOWSH S SLLOGE, O ASTIC, MOST	LY		•	ration. 9/5/86
	<u>'</u>								40 ,	6	\mathbb{L}									EBERL:	
			_		L				48.1 46.6	- 1	-			(5R3/4).	SOLT	TONE DUSK TO MODERA SLTY, MOIST	TELY HAPO.			ANALY CORPO PERFO	TICAL RATION RMED GAMMA
										10) - - - - - - -			BOTTOM	OF HO	LE AT BLD	FT.			WITH H	CED HOLE
											4			HOLE BA	CKFILLI /5/86	ED WITH CE	MENT-BENTO	MTE	}	AUGER	(4x8 NCH).
											4										
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_		SPLIT !							STE		15 <u>1</u> 1710		INTE	RIM STO	RAGE S	SITE				HOLE III	



_														1		In		
	G	EOL	OGIC	DRI	LL I	.0G		PHOLEC	1	Ft	JSRAP			14501		1 0	F 1	NOLE NO. NISS-3340
SITE	MAYW	000 1	NTERIN	STORA	GE SIT	E	COGREGIATE	3			19250,EI	1500			AMELS	FROM HC 90°		N/A
9/3		- 1	PLETED 1/3/86	Calle.			RENCH AL SERVI	ŒS			C MODEL E 8-33		HOLE SEE	OVERBLANDI		ROCK &	עד 3.0'	TOTAL DEPTH
DE.		KIVT.	79	1	E BOKES N/A	SAIPL			C.908 (D EL.	ם/אורכום	5.0'/			007111/1	D. TOP 0	F RCCX /44. 4'
***	-	O K	BRANL			s um	SH HOLE DAL N/A		4	-	LOGOED 0	Te		YEN		<u> </u>		
- 1		/A		Γ	BATER		N/A	1		П	1			. 164		T		
	SAMPLER ADVANCE	A NO.	HONOTH COM	<u>'</u>	TESTS			Ę	87	2							MAT	ES CON ER LEVELS,
SMELL TYPE AND DIMETER	CTH C	SAMPLE RECOVERY	TA MARIA	# . 4	P.S.	7 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×	ELEVATION	5	Partie Los	1		DESCRIPTION	ZAJO ONA NO	SP CA IREA		.	CILA	ER RETURN, RACTER OF LING, ETC.
	39	킯	₩ 1E	g=3 5 €	200	m.r	47.4	0	; ; ;	$\downarrow \downarrow$	ሲለ-በኝ	- CET 10	L); DUSKY	RIZINON			जा ठ	FOXED FOR
72. 22.	24"	N/A	N/A				46.9	0.5	ille,	1	\ (5YR2/2) residu	NL SOL.	WN (5YR2/2). LLY, OILY	•		CONTAN	ECKED FOR TIME MATION BY
							44.4	3.0	,111		APPEAR	WCE.					EBERLIN ANALYT CORPOR	ICAL
							****		1		(5R3/4).	SOFT	DIME: DUSK D MODERA LTY, WEATH	TELY HARD. HERED. MOIST.			∇	/5/86
							41.4	5 6.0	, =					•			÷	
									4	N							ANALYT CORPOR	TCAL LATION
									1	N							PERFOR Loggine	MED GAMMA
						}		10	4				E AT 6.0				ADVAN	CED HOLE OLLOW STEM
									4		HOLE B.	40XFLLE 9/5/86.	D WITH CE	MENT-BENTO	NOTE		AUGER	(4x8 MCHs.
									4									
									}									
								15	1									
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									1								* DESC	REPTION AND
									=								AST	SEFICATION BY N. Examba-
<u></u>	<u>L</u>				<u> </u>	<u> </u>	MIE	35	1	\perp							TION	OF CUTTINGS.
			POCO 51+8 6 PHT CHE				<u>.</u>	MA'	YNIOOD	INTE	RIM STOP	RAGE SI	TE					MISS-334C



MAIN DOLL INTERIN STORAGE SITE MAIN AND THE TENTH MAIN AND THE TEN		G	EOL	OGIC	D)RIL	LL	.0G		PROJECT		F	USRAP			1450	1-138	<u> </u>	OF 1	HELE NO. MISS-417C
### 1978/86 \$719/86 \$7	π	MAYW	DOD 1	INTERIM	ST	ORAS	£ SIT	£	COOPERAT	<u> </u>		1	M9140,	10368			AMBLE			N/A
MA								MORET	RENCH AL SERVI	1.						1			1.0	11.5'
HAA N/A N/A N/A N/A N/A P, YER STORY GRADE THE THIRD THE	OF I			/10				1	S EL 10		900			DEPTHYE				067°T IL		
ESTABLE SEE BY SEE BY SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	MPI.			MATALL		<u></u>	CVS	E LEFT		-/LDETH	-		LOGGED	SY:	P	YEN				
SS 24 N/A N/A SS 24 N/A N/A SS 27	MARTOR	N ADVANCE	W.COWLLT	בוע כמע א. א.		PR	ESSURE TESTS	95	ELEVATION	ML.O	36 LG6	S. Parket		DESCRIPTI	ON AND CLAS	SFICATION	···		SAT SAT	en leyels, en return,
SS 24" N/A N/A 47.5 5.5 10 1 2 1	3		38	7 55 A		= 3			53.0		8								C#8.	LBG, ETC.
SS 24° N/A N/A SS 24° N/A N/A SS 24° N/A N/A SS 24° N/A N/A SS 24° N/A N/A 42.5 10 2 3 3 3 4 3 5 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.5 IK DIA		CORE	6.					52.5	0.5			0.5-5. REDIO	54 SAND (SC-SMR MO	DERATE	D,		RADIOA CONTAN EBERLO ANALYT CORPOR EBERLO	TIVE MATION BY E ICAL ATION. E
SS 24° N/A N/A 10	SS		N/A	N/A					47.5	5.5			3 & n	राखाः ।	u v n av	0.0	<u>.</u>		PERFOR	MED GAMMA
15 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	\$\$, L5*	24"	N/A	N/A	1						<u>-</u>	2	SAMO	, MOST, C	ONTAINS S	LÜDĞE.			LUGGH	>
SS 24 N/A N/A 42.5 10.5 14.5 11.5 14.5 11.5 15.1 15.5 15	ŞŞ,	24"	N/A	N/A								3							<u>\$</u>	/8/86.
SUTTY FOOR TYTAND. BOTTOM OF HOLE AT ILS FT. HOLE BACKFLIED WITH CEMENT-BENTONTE GROUT, \$7/8/86. SOUTH FOR AN ACT ILS FT. HOLE BACKFLIED WITH CEMENT-BENTONTE GROUT, \$7/8/86. 20 25 25 25 25 25 26 27 28 28 28 28 28 28 28 28 28			N/A	N/A					42.5 41.5	1		4	10.5-1	<u>51 SWOS</u>	IONE GRAY	SH RED				
HOLE BACKFLIED WITH CEMENT-BENTONTE 15 - 15 - 16 - 17 - 18 - 18 - 18 - 19 - 19 - 10 - 10 - 10 - 11 - 10 - 11 - 10 - 11 - 11 - 120 - 20 -	_										-		/SOFT	, POORLY TO MODE!	TO MODER/ RATELY HA	RD.	ENTED,			
										25	***************************************		HOLE	BACKFELL 1, 9/8/86.	D WITH CE	MÉNT-BENT	ONITE		SLAB (AN ELE DRILL DIA BIT HOLE USING CASINI CASINI	CREPTION AND A 300 B HAMMER G 4.5" DIA
CEACHER COMMA COMMA COMMANDE THE THE THE THE THE THE THE THE THE TH	-								SITE			INT	ERIM S	TORAGE S	ITE				HOLE IN	MISS-417C



	GI	EOL	00	GIC	D	RIL	LL	0(;		P	ROJECT	1		Fl	JSF	RAP						1450)1-1			0F 1	HOLE NO. MISS-418R
SITE	MAYW)OD 1	NTE	RIM	51	ORAG	E SIT	E		COOF	DPLATES				1	18	992,E1	106	90						4GLE	FROM P		BEARING N/A
8EGUM 8/19		1.	PLET	ED /86	-	DANTE		MOF	RETE NTA	ENC	H ERV1C			_	-		NODEL	CATH	- 1	HOLE 4,	5 tz	OVE	ROURDE 4,		נז	ROCK	رت ^ی 0.5'	TOTAL DEPTH 5.0'
CORE		RIGT.			7	COPE	BOXES	SA	MPLE:		EL. TOP		SPIC	Ç	roun 5	D E		DE	PTHÆ	. CRO		RY				DEPTH	/EL TOP (F ROCK /48.5'
SAMPL		ER WE	ж	FALL	_1						F. DA./		1				LOGGED	BY,			F	YE	N			.i		
				. [WATER	•					7			L												
TYPE	ADVANC ORE RU	COVERY	BLOSES	T CORE			ESSURE TESTS			ELEY	VATION	11.00		GRAPHIC LOG	SAMPLE			DES	SCREPTIC	ON AN	CLAS	SFIC	ATION &	,			WA"	TES ON: TER LEVELS, TER RETURN,
SAMPLE TYPE AND DIAMETER	SAMPLER ADVANCE LENETH CORE PLIN	SAMPLE RECOVERY	SAMPLE BLOB'S	PERCENT CORE. RECOVERY	203	z 3	SPRESSURE P.S.J	¥ 2	SES.					GRAPH	3													MACTER OF LLING, ETC.
	בוצ	31	Ŀ	CORE	51	· 6.	ZND 6'	370			3.0 2.5	10	$\frac{1}{4}$	111	Н		0.0-0.5 0.5-4.5	s': <u>C</u>	ONCRE	TE F	LOOR	5L/	ığ.	POM	u -		SITE C	PECKED FOR
IN. DIA.										·			1				0.5-4.5 (5YR4/ MOIST.	4), F	INE G	KAIN	D. Si	TY,	DRY 1	io"	N		CONTAI EBERLI ANALY	MINATION BY
4.5 IN				į									1														CORPO	ration.
CASING,											8.5 8.0	5	1	<u> </u>		L	4.5-5.C)': <u>S</u>	ANDS)	ONE;	DUSK	YR	D.				COSPO PINALY	TIÇAL RATIÔN
Æ CA										•	. o. u],	1			ľ	4.5-5.0 (5R3/4 WEATH BUTTO), S(EREI)FT, F). F 11 71	INE G	RAIN)	₩. SI	LIT,				LOGGIN	RMED GAMMA IG. D WATER
DROVE													=				HOLE E	BACI	FILLE	D WI	TH CE	MEN	T-BEN	TON	ΤE			MEASURED
										·			7														CONCR SLAB	ETE FLOOR CORED WITH
												10	1														I AN FI	ĒČTRÍC CORE AND A 6' T.
													=														HOLE	ADVANCED
													=														CASIN	A 300 Ib G HAMMER G 4.5' DIA
												15	1														ČASIN	G.
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												3	5						=								CUT	TINGS.
				H STE						SITE				000	INT	EF	RIM ST	ORA	IGE S	ITE							HOLE	MISS-418R



	G	EOL	OGIC	0	RIL	LL	OG.		ľ	PROJECT	ļ	.,	FU	SRAP			JOB NO. 14501	1-138	SHEET 0	ND. F 1	HOLE NO. MISS-419R
SITE	MAYW	000	NTERIM	ST	ORAG	E SIT	E	C00	ROBLATES	\$		***********	N	8866,E	0397			ANGLE	FROM H		BEARING N/A
8/19			PLETED /19/86		DPALLE	-	MORET NMENT	REN	CH SERVIC	i				D WODEL CTRIC (HOLE SEE 4.5°	OYERBURDEN		1	0.5'	TOTAL DEPTH 8.5'
COPE	re cove N	RY51. /Д	/10			DOXES /A	SAMPLI N/A		EL_TOP	OF CAS	SING			EL.	DEPTH/E	L GROUND W	ater Ry		DEPTH/		or rock /45.0'
SAMPL		WER WE	CHT /FALL			CASE	G LEFT		LEI DAL/ N/A	LENGTH	 			LOGGED	BYı	1	P.YEN				
SAMPLE TYPE AND DIAMETER	SAMPLER ADVANCE LENGTH CORE RUN	SANPLE RECOVERY CORE RECOVERY	SAMPLE BLOWS "N" PERCENT CORE RECOVERY		PF	WATER ESSURE TESTS		ELE	VATION	14.00 14.00	SOADIAC 1 OC		SAMPLE		DESCRIPTI	ION AND CLA	SSFICATION"			W/	TES CHE ITER LEVELS, ITER RETURN,
AND DE	SAMPLER	SANPLE COPE R	2 - 100 mg	1883	= 3	PRESSURE P.S.J.	A N	<u> </u>	53.0	0	100		2								lapacter of Bling. ETC.
DROVE CASING, 4.5 IN, DIA.		CORE	6*		7 \$	ZHO &	500 E	4	45.0 44.5	5 8.5 10 20 25	<u>enicheringeringeringeringeringeringering</u>			8.0-8.1 (SR3.4 (61, FIRE (TONE: DUST TO MODER/ MOIST. LE AT 8.5	GHT BROWN LTY, MOIST. CY RED ATELY HAPD			RADIO, CONT. EDERL CORP.	MINATION BY INE TICAL RATION. INE TICAL RATION. INE TICAL RATION PMED GAMMA IG. ID WATER LEVEL RED ON 9/8/86. RETE FLOOR CORED WITH ECTRIC CORE AND A 6" IT. ADVANCED A 300 bb G HAMMER IG 4.5" DIA
										3:	5 7 7 7 7 7									CL. VIS	SCRIPTION AND ASSIFICATION BY UAL EXAMINA- N OF CUTTINGS.
			SPOON, STO ON, POPITION					SITE				וו ס	NTE	RIM ST	ORAGE S	1TE				HOLE	n. MISS-419R



																	
	G	EOL	OGIC		ORIL	L L	.0G		PROJECT		Fŧ	USRAP		JOB NO. 14501		SHEET NO.	MISS-420R
SITE	MYW.	000 1	NTERI	M S?	TORAG	E SIT	E	COORDONATI				N9134,E10978	··· · · · ·			FROM HORIZ.	BEARING N/A
B/20/	/86		PLETED /20/86		DRL		MORET DIMENT	RENCH AL SERVI				CTRIC CATHEAD	4,5"	CVERBURDEN 7.0		3.0°	TOTAL DEPTH
CORE R		RYGTJ /A	70			BOXES VA	SAMPLE N/A		P OF CASIN	C GA		D EL. DEPTH/EL.	GROUND WA			DEPTINZE. TO	P OF MOCK 0' /46.0'
SAMPLE	HAVE N/		GIT/FAL	L	<u> </u>	CAS	C LEFT	N HOLEI DIA	HTAGA			LOGGED BY:	Р	.YEN		<u> </u>	
SAMPLE TYPE AND DIAMETER			SAMPLE BLOWS "HE PERCENT COME	ECOVENT	H	WATER RESSURE TESTS		ELEVATION	DEP TH	рамес 106	SAMPLE	DESCRIPTION	N AND CLAS	SFICATION®		1	NOTES ON WATER LEVELS, WATER RETURN, CHARACTER OF
¥ 5	ENS.	SAUP	3 12		z ₹	PPESSURE P.S.I	350 E.	53.0	0	8							DRELLING, ETC.
DROVE CASING, A.5 IN, DIA.		-	— COR					52.5	5 -			0.0-0.5': CONCRE 0.5-7.0': SAND (S SETY, WEATHERED 0.5-4.0':LIGHT BI 4.0-7.0': MODERA	<u>(1-54),</u> Fin), DRY ROWN (54)	e grained, R6/4).		EBEI ANAL CORS EBEI ANAL COR	CHECKED FOR CACTIVE AMINATION BY ILDIE PORATION. PLIME LYTICAL LYTICAL PORATION
DROVE C.								46.0 43.0	10			7.0-10.07: SANOST (5R3/4), MODERA GRAINED, SILTY, W MOIST.				GROULEVI	FORMED GAMMA GING. UND WATER EL MEASURED 3-8-86.
									20 -			BOTTOM OF HOLL HOLE BACKFILLES GROUT, 9/8/86.	E AT RAGO WITH CE	MENT-BENTO	ONITE	AN DRIA HUSASARAS CHESTAS	DESCRIPTION AND ASSIFICATION BY UAL AMENATION OF TTINGS.
			SPOON ST					STE	MAYI	r000 1	NT	ERIM STORAGE SI	ŢΕ			HOLE	MISS-420R



	G	EOL	0	GIC	DR	LL	LOG		,	PROJECT		Fi	JSRAP			JOB NO. 1450;		SMEET NO.		HOLE NO. MISS-421R
SITE	MAYW	00D :	INT	ER1M	STORA	GE SI	TE	COOPD	O MTES	\$		1	18870,E	1040			ANGLE	FROM HORE		BEARING N/A
	0/86 RECOVE	RYC I.		160 /86	1	ENV!F	MORET CONMENT SAMPL	AL SE	RVI(CES A	CKER	ELE	O WODEL CTRIC C		L. GROUND WA			ROCK GTJ 4. (DEPTH/EL)' Top o	
SAMP	E HAM	VA WER WE	JON T	TALL		N/A	N/A	DI HOLE	DW./	N/A /LENGTH		5.	LOGGED B	lY _i	DR	YEN			b. U /	/47.0'
		A	یا	بوا		WATER PESSUR		N/	<u> </u>	T						. IEN			MOTO	ES ONe
SAMPLE 17PT NO DANKETER	SAMPLER ADVANCE LEMETH CORE PLIN	MPLE RECOVE	SAMPLE BLOW	PERCENT CONE RECOVERY	SS01	P.S.I	THE N	ELEVA	TION	HT 930	овимис гое	SAMPLE		DESCRIPTI	ion and class	SFICATION			WATE TAW CHA	ER LEVELS, ER RETURN, RACTER OF LING, ETC.
	313	310				20 6	300 5	53		0			0.0-0.5	: CONCR	ETE FLOOR	SLAB.		SI'	TE CH	ECKED FOR
IN DIA.					•			50		5			0.5-3.0° WHITE S	PECKS (ML); BLACK NO), SANDY. (SC-SM); LIG GRAINED, SE	OND WITH SLUDGE, DR HT BROWN	iY.	AN CC EB	COLONIO DE COLONIO DE	ITIVE PRATION BY E EAL ATION. E
DROVE CASING, 4.5 IN. DIA.								47		10			6.0-10.0 (5R3/4), GRAINED	SOF SOF SILTY,	TONE: DUSK O MODERAT DRY.	Y RED ELY HARO,	FINE	G-	ogeno Rolind	WATER MEASURED
										25 -			HOLE B	TÖF HÖ ACKFILLE 9/8/86.	LE AT 10.0 D WITH CEN	FT.	ONITE	STA HUCCAGA	TELL A BIT. LE A BIT.	TE FLOOR GRED WITH CTRIC CORE IND A 6" EVANCED SOO 5 HAMMER 4.5" DIA ATION OF
					HELBY T			SCTE			000 1	NTE	RIM STO	RAGE S	!TE			HO	LE NO.	MISS-421R



	G	EOL	0.	GIC	D	RIL	LL	.0G			MOJEC!	7		Fl	JSI	RAP				ND. 1501	-138	<u> </u>	OF 1	HOLE NO. NISS-422R
SITE	MAYW	000 1	INT	ERIM	ST	ORAG	Æ 511	Έ	C00	ROMATES						995,E110	21					90°		BEARING N/A
8/20		8		1ED 0/86				MORET INMENT	AL S		ES	AC	KER	_	.c1	WODEL TRIC CATH		4.5°	OVERBU	8. C			FT.) 0.0' 15L TOP 0	8.0'
	N/A	١					/A	N/A		1	N/A				3.1			8.0'/	45.0'				8.0'	/45.0'
SAMPL	E HAMA N/		ЛЭНП	// ALL				MG LEFT		N/A	LENGIN			,,		(OOCD BIT		Р	.YEN				· · · · · · · · · · · · · · · · · · ·	
SAMPLE TYPE NO DIMETER	SAMPLER ADVANCE LENGTH CORE HUN	SAMPLE RECOVERY	SAMPLE BLOWS	PENCENT COME	LOSS	PF	WATER ESSURE TESTS JUINSSULE 2ND 6'	TAK NOW NOW NOW NOW NOW NOW NOW NOW NOW NOW	ELE	VATION	H-290		GRAPHIC LOG	SAMPLE		DES	(RSPTI)	ON AND CLASS	SEICATIO	4*			WA1 WA1 CHA	TES CRE TER LEVELS. TER RETURN, PRACTER OF LLING, ETC.
~ 		द्ध। ^ड CORE				3	2ND 6	380 6.		3.0	0	1			_	0.0-0.5% 0	HCR	TE FLOOR	SLAB.				SITE C	ECKED FOR
DROVE CASING, 4.5 IN. DIA.		CORE	6							47.0 45.5—	5 8.0	***************				0.5-6.0': 3. DUSKY RED SILTY, HETE COMPACTED 6.0-7.3': 51 WHITE SPET 7.5-8.0': 3. (SR3/4), MT BOTTOM 0	TOWN TOWN TO THE T	AND SANDS 574), FIRE C NEOUS FILI (NEOUS F	IONE F RAINED , MODE (ND WITE , DRY, SKY RE Y HARD FT.	RAT			RADITOA CONTAN CONTAN EBERLII ANALYT CORPOR PERFOR LOGGIN	CTIVE MEATION BY NE NE NE NE NE NE NE NE NE NE NE NE NE
											15 20 25 34					HOLE BACK GROUT, 9/8	r HLLE 3/86.	D WITH CE	**C 1 ***	cnii	UT ! L		HOLE USING CASIN	A 300 BD A 300 BD HAMMER A 4.5' DIA CRIPTION AND SSIFICATION BY IAL EXAMINA- 1 OF CUTTINGS.
				ON STE					SITE		MA	YW	000	INT	ER	RIM STORA	GE S	ITE					HOLE N	MISS-422R



	G	EOL	.01	GIC	DF	RIL	LL	OG		PROJECT	•	F	U	SRAP			JOB NO. 14501		SHEET I	F 1	HOLE NO. MISS-423R
SITE	MAYW	000	INTE	RIM	STOR	RAGE	E SIT	Ε	COORDINAT	E\$			N	9136,E1	0692			AMGLE	FROM H		BEARDIG N/A
8/21	/85	1	#LE	120 /86	DR			MORET	RENCH AL SERV					MODEL CTRIC C	ATHE AD	HOLE SEE 4.5"	OVERBUPDEN 4,0	-	ROCK &	נד 5.0'	TOTAL DEPTH 9.0'
	RECOVE	1		-	- cc		OXES	SAMPLE N/A	S EL TO	P OF CA		GROU	ND			GROUND WA			DEPTH	EL. 10F (F ROCK /49.0'
SAMPL	E HAM	VER WE	JCHT.	/FALL					IN HOLE: DIA				_	LOGGED B	<u> </u> Yı		YEN		J		
		/A 	Τ				ATER	-	N/A	<u> </u>	Т	_	Т	L		r	. 1EN				
ETER	SAMPLER ADVANCE LENGTH CORE REM	COVERY	BLOWS	PENCENT CORE RECOVERY			essure Ests			. 2	8	SAMPLE					e#10471894a			WA"	ies on ier Levels ier returk
SAMPLE TYPE AND DIAMETER	ET CO	PLE RO	1	PECON	2503 ×	3	Pressure P.S.I	TAG N NAUTES	ELEVATION	1 20	SALPHIC LOG	3	1		DESCREP !!	ON AMED CLAS	Se iCa librio			CHI	PRACTER OF LLING. ETC.
~ 3			1	IE.	57	3	SMD 2.	370 5	30.0	0			1	ส กะกรง	CONCR	TE FLOOR	SLAB.			SITE C	RECKED FOR
5 IN DIA.		CORE							52.5 49.0	4.0				0.5-4.0' (5YR6/4	: SAND (), FINE (SC-SM; LIG RAINED, SIL	HT BROWN TY, DRY.			RADIOA CONTAI EBERLII ANALY	CTIVE BINAT ION BY NE
DROVE CASING, 4.5									13.0	5				(SR3/4).	. MODERA	ITELY HARI), FINE , SATURATE	D.		EBERLI ANALY CORPO PERFO LOGGE	TICAL RATION RMED GAMMA
<u> </u>			_		ļ	_			44.0	9.0	-		ļ	RATTAL	ר אר אר	E AT 9.0	FT.			מחמח	ETE FLOOR
										15 20 25				HOLE B	ACKFILLE	D WITH CE	MENT-BENTO	ONITE		SLAB AN ELI DRIAL BI HOLE USING CASING CASING CASING	CORED WITH ECTRIC CORE AND A 6" I" ADVANCED A 300 Ib CHAMMER G 4.5" DIA SCRIPTION AND SIFICATION BY
				No STE					SIE) IN	TE	RIM STO	RAGE S	ITE				HOLE N	MISS-423R



GEOLOGIC DRILL LOG FUSRAP FUSRAP 145C1-138 1 OF 1 SITE MAYWOOD INTERIN STORAGE SITE NBB77, E10347 BEGUN BEGUN BACHPLETED BRULER MORE TRENCH B/21/86 B/21/86 B/21/86 B/21/86 BNY RONMENTAL SERVICES ACKER ELECTRIC CATHEAD A.5° 7.0' 0.0' CORE RECOVERYOFIJO N/A SAMPLE NAMER RESISTIFALL CASING LEFT IN HOLE DAL/LENGTH N/A SAMPLE NAMER RESISTIFALL CASING LEFT IN HOLE DAL/LENGTH N/A BLEVATION BLEV	ES COME ES LEVELS, ER RETURN, RACTER OF LING, ETC.
BEGIN COMPLETED DIBLER MORE TRENCH DALL MAKE AND MODEL HOLE SIZE OVERBURDEN OFT DISCORDER RECOVERYOFT JOB CORE BOXES SAMPLES EL. TOP OF CASHO GROUND EL. DEPTHYEL GROUND WATER NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME REDISTIFIAL CASHO LEFT IN HOLE: DAL/LENGTH NAME CHARLES AND MODEL DESCRIPTION AND CLASSIFICATIONS WATER DESCRIPTION AND CLASSIFICATIONS WATER CHARLES AND MODEL DESCRIPTION AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSIFICATIONS AND CLASSI	N/A TOTAL DEPTH 7.0' F ROCK /A ES ONE ER LEVELS, ER RETURN, RACTER OF LING, ETC.
BEGIN 8/21/86 8/21/86 ENVIRONMENTAL SERVICES ACKER ELECTRIC CATHEAD 4.5° 7.0' 0.0' CORE RECOVERYOFTU/D N/A CORE BOXES N/A CASHQ LEFT IN HOLE DATA/LENGTH N/A CASHQ LEFT IN HOLE DATA/LENGTH N/A CASHQ LEFT IN HOLE DATA/LENGTH N/A CASHQ LEFT IN HOLE DATA/LENGTH N/A P. YEN DESCRIPTION AND CLASSFICATION WATER PRESSURE TESTS TESTS ELEVATION ELEVATION TO DESCRIPTION AND CLASSFICATION CORE CORE ST ST ST ST ST ST ST ST ST ST ST ST ST	7.0' F ROCK /A ES COME ER LEVELS, ER RETURN, RACTER OF LING, ETC.
N/A N/A N/A N/A N/A N/A N/A N/A	ES CINE ER LEVELS, ER RETURN, RACTER OF LING, ETC.
N/A N/A N/A P. YEN WATER PRESSURE TESTS ELEVATION DESCRIPTION AND CLASSFICATION WATER PRESSURE TESTS DESCRIPTION AND CLASSFICATION WATER WATER WATER WATER CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHA	ER LEVELS, ER RETURN, RACTER OF LING, ETC.
HOTE STATE OF STATE O	ER LEVELS, ER RETURN, RACTER OF LING, ETC.
CORE 6' 52.5 0.5 TITLE AREA CONCRETE FLOOR SLAB. SITE OF RADIOAC	LING, ETC.
CORE 6' 52.5 0.5 TILL A C.O-0.5': CONCRETE FLOOR SLAB. SITE CHE RADIOAC	
	CTIVE (INATION BY E ICAL
WOYR7/4), FINE GRAINED, SILTY, DRY. CONTAME BERING ANALYTIC CORPORD 48.0 5 5.0-7.0': SILT (ML): WHITE (NS). SLIGHTLY PLASTIC, SLIGHTLY SANDY PREFORM LOGGING.	ICA!
MOLE BACKFRILED WITH CEMENT-SENTONITE GROUND LEVEL 9 ON 9-8 CONCRE SLAB C SN ELE RRL LI USING LASING CASING 20 - 25 - 30 - 35 - 35 - 35 - 35 - 35 - 36 - 37 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 38 - 39 - 30 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 -	SCRETION AND SERVATION BY ALL
SS-SPLIT SPOON; ST-SHELBY TUBE; D=OENESSON: P=PITCHER; O=OTHER MAYMOOD INTERIM STORAGE SITE	



_									_			_		
	G	EOL	OGIC	DRI	LL L	.00		PROJEC	T			FU		F 1 NISS-426C
आर	MAYM) 1	NTERIM	STORA	E 511	E	COGREGMATI	25				N	9000,E10506 AMELE FROM N 9000,E10506	
8/22		4	PLETED /22/86	DARL	-	MORET	RENCH AL SERVI	CES	1				TRIC CATHEAD 4.5" 10.5' ROCK &	TJ TOTAL DEPTH
COPE		HITT.	70		VA	SAPL	ES EL. TO	P OF CA N/A	Ś	•	POL.		EL DEPTIMEL STOLING WATER DEPTIME O' DRY	EL. TOP OF ROCK N/A
SAMPL.	E IUMA N		BIT/FALL		CAS	इ. ध्वा	N HOLE DA.	A.DETI	4				LOGGED BY: P. YEN	
	ME.	EL			BATER			Т	٦		Т	T		
E TYPE LIETER	ADVAN		7 20 PE		TESTS		ELEVATION	11.63		pulmec 10c	3043	!	DESCRIPTION AND CLASSFICATIONS	MOTES CIN MATER LEVELS, MATER RETURN,
SAMPLE TYPE AND DIAMETER			SAMPLE BLOWS "W" PETICENT COME RECOVERT	77473 G N 1807 E	IT d	\$315 9 8 2	53.0	0	-	4	7			CHARACTER OF DIELLISM, ETC.
SS	-	2085	E'					0.5	į		+	7	0.0-0.5': CONDERTE FLOOR SLAB. 0.5-10.5': SAND (SC-SND; FINE GRAINED,	SITE CHECKED FOR RADIOACTIVE CONTAMINATION BY
15.	24	NA	N/A						3		#	-	O.S-IO.S': SAND ISS-SND: FINE GRANED, SLITY, MOST TO 6.8 FT, SATURATED 6.8-10.5 FT WITH SLIGHTLY PLASTIC SLUDGE.	EBERLINE ANALYTICAL
IN DIA.									=		1		0.5-1.5': PALE BROWN (5YR2/2), 1.5-5.0': NEDIUN (SRAY (NS),	CORPORATION. EBERLINE
4.5 IN								5	4		}		5.0-6.4'1 LIGHT GRAY DV7). 6.4-6.6': BLACK DVD.	ANALYTICAL CORPORATION PERFORMED GAMMA
CASING, 4									1				6.6-6.8": PALE YELLOWISH BROWN 00YR6/21, 6.8-10.5": MEDILIN GRAY 0151,	LOGGING.
E CAS									=		1		on un annual cont and	GROUND WATER LEVEL MEASURED
DROVE							42.5	10.	占		•			ON 9-8-86.
							42.5	1,0.	7	بابابا	+	†	BUTTOM OF HOLE AT 10.5 FT. HOLE BACKFILLED WITH CEMENT-BENTONITE	CONCRETE FLOOR
									4				GROUT, 9/8/86.	SLAB CORED WITH AN ELECTRIC CORE DRLL AND A 6'
									=					DIA BIT.
								15	4					HOLE ADVANCED
									4					USING A 300 B Casing Hammer Driving 4.5' DIA
									7					CASING.
								20	4					
									7					
									=					
									1					
			!					25	4					
									1					
									=					
								30	4					
	'					İ			7					
									4					DESCRIPTION AND CLASSIFICATION BY VISUAL
								35	1					EXAMPLATION OF CUTTINGS.
			CON ST-SI			•	ME.			000 1	INT	ER	IN STORAGE SITE	HOLE HA. MISS-426C