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DEPARTMENT OF THE NAVY

CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
300 HIGHWAY 361
CRANE, INDIANA 47522-5000

IN REPLY REFER TO

5090
Ser 095/8189
23 SIP 1998
7-1-1998

U.S. Environmental Protection Agency, Region V
Waste, Pesticides, & Toxics Division
Waste Management Branch
Illinois, Indiana, and Michigan Section
ATTN: Ms. Carol Witt-Smith (DRP-8J)
77 West Jackson Blvd.
Chicago, IL 60604

Dear Ms. Witt-Smith:

Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV Crane) submits the final report for the Phase III Groundwater Release Characterization at the Dye Burial Grounds, Solid Waste Management Unit 02/11, as enclosure (1). Enclosure (2) is the required Certification Statement.

NAVSURFWARCENDIV Crane point of contact is Mr. Thomas J. Brent, Code 09510, telephone 812-854-6160.

Sincerely,

Thomas J. Brent
W. BOWSHER
Environmental Protection Department
Division of
The Commander

Encl:
(1) Phase III Groundwater Release Characterization
(2) Certification Statement

copy to:
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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Thomas J. Brent, Acting

SIGNATURE

for JAMES HUNSICKER,
DIRECTOR, ENVIRONMENTAL PROTECTION DEPARTMENT

TITLE

23 SEP 1988

DATE

Enclosure (2)

Technical Report GL-98-15
July 1998

US Army Corps of Engineers
Waterways Experiment Station

Final Report: RCRA Facility Investigation, Phase III Groundwater Release Characterization, SWMU 02/11 Dye Burial Grounds, Naval Surface Warfare Center Crane, Indiana

Volume I: Main Text and Appendixes A and B

by William L. Murphy, Roy Wade

Further dissemination of this document only as directed by Department of the Navy, Southern Division, Naval Facilities Engineering Command, Charleston, South Carolina 29411-0068; July 1998; or higher DoD authority.

Prepared for Department of the Navy, Southern Division

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Technical Report GL-98-15
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Final Report: RCRA Facility Investigation, Phase III Groundwater Release Characterization, SWMU 02/11 Dye Burial Grounds, Naval Surface Warfare Center Crane, Indiana

Volume I: Main Text and Appendixes A and B

by William L. Murphy, Roy Wade

U.S. Army Corps of Engineers
Waterways Experiment Station
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Final report

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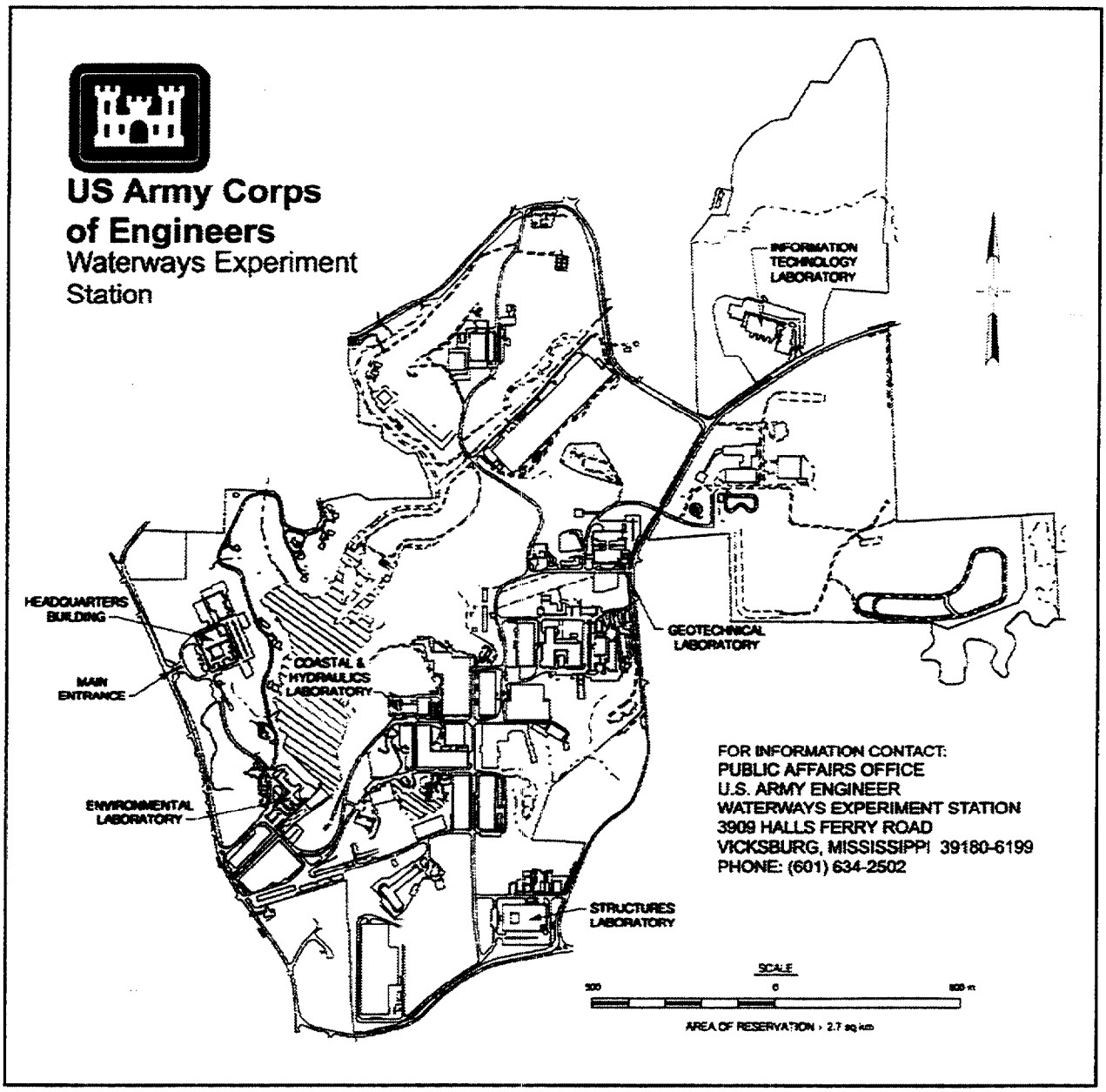
Prepared for Department of the Navy, Southern Division
Naval Facilities Engineering Command
Charleston, SC 29411-0068



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Contents

Preface vi

Executive Summary viii

Conversion Factors, Non-SI to SI Units of Measurement x

Acronyms and Abbreviations xi

1—Introduction 1

Purpose 1
Background 1
Scope 4
Operational History and Description of the Dye Burial Grounds 4

2—Action Levels 6

Background 6
Use of Action Levels 6
Criteria for Determining Action Levels 7
Action Levels in Groundwater 8

3—Field Investigation Methods 9

Exploratory Drilling and Well Installation Methods 9
Monitoring well emplacement 9
Drilling and sampling of rock and soil 10
Monitoring well installation procedures 11
Well development 12
Water level measurements 12
Groundwater Sampling 13
Selection of background wells 13
Selection of groundwater contamination parameters 13
Sampling procedures 13
Equipment decontamination 16
Sample preservation 16
Quality control procedures 17

4—Hydrogeology of the Dye Burial Grounds 20

Technical Approach 20
Regional Geology and Hydrogeology 21
Physiography 21
Regional geologic structure 21

Stratigraphy 23
Hydrogeology of the Study Area 23
Physiography of the DBG study area 23
Local stratigraphy 24
Surface and near-surface geology 26
Subsurface geology 27
Surface and groundwater hydrology of the DBG 29

5—Validation of Analytical Data 34

Background 34
Organic Analytes 35
Holding times 35
GC/MS tuning 36
Pesticides instrument performance 36
Calibration 36
Blanks 37
Surrogate recovery 37
Matrix spke/Matrix spike duplicate 38
Internal standards performance 38
TCL compound identification 39
Tentatively identified compounds 39
Inorganic Analytes 40
Holding times 40
Calibration 40
Blanks 41
Duplicate sample analysis 41
Matrix spike sample analysis 42
Furnace atomic absorption QC 42
ICP serial dilution 42
Data Validation Results 43
First round data 43
Second round data 44
Third round data 45
Fourth round data 45
Summary of Analytical results 46

6—Nature and Distribution of Groundwater Contamination 47

Detected Compounds 47
Statistical and Qualitative Data Evaluation 47
Selection of methods 47
Statistical procedures 48
Results of statistical analyses for metals 50
Evaluation of other parameters 53
Distribution of Contaminants 54

7—Conclusions and Recommendations 56

Conclusions 56
Hydrogeology 56
Groundwater quality 57
Recommendations 57

References 58

Tables 1-29

Figures 1-30

Plates 1-8

Appendix A: Text, Boring Logs, and Well Installation Diagrams, Dunbar (1982) Dye Burial Grounds Investigation Report A1

Appendix B: Copy of Cover Letter, EPA Permit for NSWC Crane B1

Appendix C: Logs and Well Installation Diagrams of RFI Borings C1

Appendix D: Field Measurements from Groundwater Sampling, DBG . . D1

Appendix E: Data Validation Results for Rounds 1 Through 4 . . . . . E1

Appendix F: Levels of Metals in Groundwater Samples and in Blanks . . F1

Appendix G: Excerpt from "USEPA Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities" G1

Appendix H: Examples of Statistical Analysis Results H1

SF 298

Preface

This investigation was begun in December 1987 by the U.S. Army Engineer Waterways Experiment Station (WES), Vicksburg, MS. The Northern Division, Naval Facilities Engineering Command (NAVFAC), Philadelphia, PA, presently the Southern Division, NAVFAC, Charleston, SC, provided oversight and management for the Department of the Navy. The work was performed under authority provided by several NAVCOMPT documents, with funding made available through the Navy's Installation Restoration Program, Defense Environmental Restoration Account (DERA).

Much of the geologic field work, including mapping and subsurface exploration by core logging, was performed by Mr. Richard W. Hunt, geologist, Geotechnical Laboratory (GL), Engineering Geology Branch (EGB), WES. Drilling crews were under the supervision of Mr. Mark Vispi, Chief, In Situ Evaluation Branch, GL. Mr. William Murphy, EGB, provided project management and much of the data analysis. Mr. Joe Gatz was Chief, EGB. Geophysical surveying of the Dye Burial Grounds was performed by Mr. José Llopis and Mr. Michael Sharp under the supervision of Mr. Joseph Curro, Engineering Geophysics Branch, GL. Mr. Mark Barnhill, Indiana Geological Survey, Bloomington, provided additional interpretation of core samples, identification of stratigraphic units, and interpretation of facies relationships. Dr. James May, EGB, assisted in field reconnaissance. Groundwater quality sampling was performed by Mr. Roy Wade and Mr. Buddy Ragsdale under the supervision of Mr. Norman Francingues, Chief, Environmental Restoration Branch, Environmental Laboratory (EL), WES. Chemical analysis was performed by the Environmental Chemistry Branch, EL, under the direction of Ms. Ann Strong. Mr. Thomas Brent, Naval Surface Warfare Center Crane, provided oversight of the sampling and analysis. The report was written by Messrs. Murphy and Wade. Dr. William F. Marcuson III was Director, GL, and Dr. John Harrison was Director, EL.

Mr. James Hunsicker was Manager, Environmental Protection Department, Crane. Messrs. Jeffrey Ciocco, Byron Brant, Bill Schrock, and Ms. Adrienne Townsel-Wilson, Northern Division, NAVFAC, provided oversight of all Corrective Action work for the Navy. This report is submitted in accordance with the RFI Phase III Release Characterization Work Plan for Groundwater, Dye Burial Grounds. The report complies with USEPA portion of the RCRA Permit for Corrective Action.

IN5 170 023 498

At the time of publication of this report, Director of WES was Dr. Robert W. Whalin. Commander was COL Robin R. Cababa, EN.

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Executive Summary

This report documents the RCRA Facility Investigation (RFI), Phase III Release Characterization for Groundwater, SWMU 02/11 Dye Burial Grounds, at the Crane Division, Naval Surface Warfare Center (NSWC Crane), Indiana. The RFI was conducted in the period January 1987 to September, 1993. Data from earlier investigations was incorporated.

The purpose of the RFI was to determine the presence or absence, the nature, the rate and extent of migration, and the concentrations of hazardous constituents that may have been released into the groundwater from activities at the Dye Burial Grounds. The RFI fulfills Corrective Action requirements for the SWMU established in the RCRA hazardous waste management permit issued to the NSWC Crane by Region V of the U.S. Environmental Protection Agency in December, 1989.

The NSWC Crane provides materiel, technical and logistic support to the Navy for equipment, weapons systems and ordnance. NSWC Crane is located in southwest Indiana approximately 75 miles southwest of Indianapolis and occupies approximately 100 square miles. It has been in operation since 1941. Certain facility activities, including the Dye Burial Grounds, have the potential, primarily from past operations, for releasing contaminants to the groundwater.

The Dye Burial Grounds is located in the eastern portion of the NSWC Crane, adjacent to the Ammunition Burning Ground. Buried dyes and dye contaminated material are contained in three covered trenches each 50 ft long by 10 ft wide by 6 ft deep, atop a ridge.

Monitoring of the groundwater for chemical constituents began in November, 1981 with the installation of monitoring wells at the sites. Eight wells were installed between 1981 and 1983 for a confirmation study, and an additional 37 wells were installed beginning in 1987. Subsurface geological information extracted from logs of the core and other boring samples was used to develop the hydrogeology of the site. Monitoring wells consisted of PVC slotted screens set at depths varying from 19 to 189 ft. Wells were sampled by NSWC Crane contractor for selected contaminants prior to 1988 and by WES beginning in 1988 for most Appendix IX constituents and explosives.

Several aquifers or water-bearing zones were monitored in the Dye Burial Grounds study area. The Big Clifty sandstone/Beech Creek limestone,

Mississippian formations dipping gently to the southwest and which occur consistently beneath much of NSWC Crane, were monitored as the deepest aquifer. The Golconda/Haney formation, a Mississippian limestone above the deeper aquifer, was also monitored. The uppermost aquifers were in the Pennsylvanian series and consisted of two sandstones, designated an upper and a lower.

Groundwater flow in all of the aquifers is generally to the south and southwest toward the valley of Little Sulphur Creek. Surface flow off of the site is to the southwest. Groundwater flow is believed to be through joints in the limestones and sandstones and through intergranular pore space in the sandstones.

Groundwater quality sampling was conducted for volatile and semivolatile organics, pesticides, explosives (TCL organics), and inorganic constituents including TAL metals, cyanide/sulfide, and nitrite/nitrate. Only inorganic compounds, particularly metals, were present in significant and verifiable amounts in wells at the Dye Burial Grounds. Organic compounds indicative of dyes were not detected. Metals occurred most frequently and at higher levels in the lower Pennsylvanian sandstone. Significant primary MCL metals occurring in the lower Pennsylvanian sandstone were nickel, beryllium, cadmium, lead, and manganese. Nickel was consistently above MCL. The deepest aquifer was not contaminated.

The presence of metals in the groundwater of Dye Burial Grounds monitoring wells cannot be linked with certainty to materials buried there. Naturally high acidity in the Pennsylvanian sandstone may be enhancing the presence of some metals.

Conversion Factors, Non-SI to SI Units of Measurement

Non-SI units of measurement used in this report can be converted to SI units as follows:

Multiply	By	To Obtain
acres	4046.873	square meters
feet	0.3048	meters
feet per mile	0.1893935	meters per kilometer
inches	2.54	centimeters
miles (U.S. statute)	1.609347	kilometers

Acronyms and Abbreviations

Percent D	percent difference
2,4-DNT	2,4-dinitrotoluene
2,6-DNT	2,6-dinitrotoluene
ANOVA	analysis of variance
BNA	base/neutral acid extractable compounds
BFB	bromofluorobenzene
CAP	Corrective Action Program
CCV	continuing calibration verification
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CL	clay
CLP	Contract Lab Program
CMS	Corrective Measures Study
CRDL	contract required detection limit
DL	detection limit
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDI	double distilled deionized water
DDT	dichlorodiphenyltrichloroethane
DFTPP	decafluorotriphenylphosphine
DOD	Department of Defense
EL	Environmental Laboratory
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
GC/MS	gas chromatography/mass spectrometer
GL	Geotechnical Laboratory
GPS	Global Positioning System
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
HSWA	Hazardous and Solid Waste Amendments
IAS	Initial Assessment Study
ICP	inductively coupled plasma
ICV	initial calibration verification
IDL	instrumental detection limit
IRP	Installation Restoration Program
LNAPL	light nonaqueous phase liquid
MCL	maximum contaminant limit
MS/MSD	matrix spike/matrix spike duplicate

NACIP . . . . . Navy Assessment and Control of Installation Pollutants
NAD . . . . . North American Datum
NAVCOMPT . . . . . Navy Comptroller
NBS . . . . . National Bureau of Standards
NCP . . . . . National Oil and Hazardous Substances Contingency Plan
NEESA . . . . . Naval Energy and Environmental Support Activity
NIST . . . . . National Institute of Standards and Technology
NGVD . . . . . National Geodetic Vertical Datum
NSWCC . . . . . Naval Surface Warfare Center Crane
PCB . . . . . polychlorinated biphenyl
PEP . . . . . propellants
PVC . . . . . polyvinyl chloride
QA/QC . . . . . quality assurance/quality control
RCRA . . . . . Resource Conservation and Recovery Act
RD/RA . . . . . Remedial Design/Remedial Action
RDX hexahydro-1,3,5-trinitro-1,3,5-triazine
RFA . . . . . RCRA Facility Assessment
RFI . . . . . RCRA Facility Investigation
RI/FS . . . . . Remedial Investigation/Feasibility Study
RRF . . . . . relative response factors
RRT . . . . . relative response time
RSD . . . . . relative standard deviations
SARA . . . . . Superfund Amendments and Reauthorization Act
SM . . . . . silt
SWMU . . . . . Solid Waste Management Unit
TAL . . . . . target analyte list
TCL . . . . . target compound list
TIC . . . . . tentatively identified compounds
TOC . . . . . top of casing
TNB 1,3,5-trinitrobenzene
TNT 2,4,6-trinitrotoluene
TSD . . . . . treatment, storage, or disposal
USAEWES . . . . . U.S. Army Engineer Waterways Experiment Station
USDA . . . . . United States Department of Agriculture
USEPA . . . . . United States Environmental Protection Agency
UXO . . . . . unexploded ordnance
VOA . . . . . volatile organic analytes
WES . . . . . Waterways Experiment Station

1 Introduction

Purpose

This report documents field and laboratory work conducted for the Resource Conservation and Recovery Act (RCA) Facility Investigation (RFI), Phase III Release Characterization for Groundwater, Dye Burial Grounds (DBG) (SWMU 02/11), Crane Division, Naval Surface Warfare Center (NSWC Crane) Indiana. The purpose of the RFI was to determine the presence or absence, the nature, the rate and extent of migration, and the concentrations of hazardous wastes or hazardous constituents released into the groundwater. Objectives were also to determine regional and site hydrogeology, including distribution of aquifers, characteristics of groundwater flow, and the influence of stratigraphy and geologic structure on groundwater and contaminant migration.

Background

The NSWC Crane is located in southwest Indiana approximately 75 miles southwest of Indianapolis and 71 miles northwest of Louisville, Kentucky (Figure 1). The NSWC Crane occupies 62,463 acres (approximately 100 square miles) of the northern portion of Martin County and small portions of neighboring Greene, Davies, and Lawrence Counties. NSWC Crane provides materiel, technical, and logistic support to the Navy for equipment, weapons systems and expendable and nonexpendable ordnance items. The facility was opened in 1941 as the Naval Ammunition Depot, Burns City to serve as an inland munitions production and storage center. The name became Naval Weapons Support Center in 1975 and was changed to Naval Surface Warfare Center Crane in 1992. The Department of Defense (DOD) ammunition procurement responsibility was transferred to the Army in 1977. The Army has assumed ordnance production, storage, and related responsibilities under the single service management directive. All environmental activities on the installation, including permitting activities, remained the responsibility of the Navy.

A sequence of remedial investigations and remedial actions has been performed at the NSWC Crane. Investigations began after the initial discovery in early 1981 of a potential hazardous substance release from the Center. The

investigations have proceeded since 1981 and continue at the time of this writing. In April 1981 the U.S. Navy implemented the Navy Assessment and Control of Installation Pollutants (NACIP), now known as the Installation Restoration Program (IRP), to identify and control environmental contamination from past use and treatment of hazardous substances at the NSWC Crane and other Naval facilities. The IRP program is designed to conform to the scope and purposes of the National Oil and Hazardous Substances Contingency Plan (NCP) established by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, and amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

An Initial Assessment Study (IAS) for the NSWC Crane began in April 1981 and was completed in May 1983 by the Naval Energy and Environmental Support Agency (NEESA). Assistance was provided by the Ordnance and Environmental Support Agency and the U.S. Army Corps of Engineers Waterways Experiment Station (WES). The IAS recommended site inspections be performed at 14 sites: 9 ordnance sites and 5 non-ordnance sites. The IAS identified the DBG as a site requiring investigation because of the potential for release of hazardous constituents to the soil and groundwater from buried dye-contaminated materials.

On 19 May 1980, the United States Environmental Protection Agency (USEPA) finalized Phase I of the RCA hazardous waste regulatory program, which became effective 19 November 1980. By this date the NSWC Crane had to comply with the codified regulatory sections of the RCA. In October 1980 the NSWC Crane filed a RCA Section 3010 notification and a Part A permit application to operate as a treatment, storage or disposal (TSD) facility. The NSWC Crane was qualified for and obtained Part A "interim status," which allowed the facility to legally operate as though it had a permit. The DBG then became subject to 40 CFR Part 265 (interim status standards). Part 265 and Parts 260 through 280 are divided into Subparts which address the general operating requirements for hazardous waste management facilities and the technical standards applicable to specific units. A groundwater monitoring program (confirmation study) began at the NSWC Crane in 1981. Through a Military Interservice Procurement Request, the Navy contracted the WES to conduct hydrogeologic investigations at ten sites, eight identified in the IAS and two new sites. The work was performed under authority provided by NAVCOMPT Document Number N00164-IMP-04575, dated June 1981 and amended October 1981.

The WES installed monitoring wells in August and September 1981 at the DBG and provided a report in April 1982 (Dunbar 1982). The Dunbar report was not published, but the text of the report pertaining to the DBG, the accompanying well logs, and the well installation diagrams are included as Appendix A of this report. NSWC Crane sampled the eight DBG wells periodically between 1982 and 1986. Results of the monitoring program suggested the presence of groundwater contaminants at the DBG, specifically metals and

other inorganics, total organic carbon, and phenols. Concentrations of barium, cadmium, and selenium were above drinking water standards in some wells.

The Hazardous and Solid Waste Amendments (HSWA) of RCA (Section 3004) established corrective actions programs (CAP) at TSD facilities. The provision required the NSWC Crane to address past releases of hazardous waste or hazardous constituents at solid waste management units (SWMUs) and regulated units. On 22 June 1987 the USEPA promulgated amendments to allow the information related to detailed corrective action planning to be developed by USEPA Regional Administrators after the issuance of a RCA permit through the use of compliance schedules included in the permit (see paragraph 10 for a description of the NSWC Crane permit). A joint RCA hazardous waste management permit was issued to the U.S. Navy by the USEPA and the State of Indiana on 20 December 1989. The Federal portion of the RCA Permit established the HSWA Corrective Action Requirements and Compliance Schedules (RCA Section 3004). A copy of the Permit cover letter is included as Appendix B. The compliance schedules obligated the NSWC Crane to perform RCA Facility Investigations (RFI) at 30 SWMUs, and if contamination were found, to conduct Corrective Measures Studies (CMS) and implement Corrective Measures if needed. The RCA Section 3004 Corrective Action Requirements of the Permit have incorporated the IRP. RCA will be the primary vehicle to further investigate and provide remediation of the IRP sites.

The WES began RFI Phase II groundwater assessment at the DBG in January 1987 by installing additional monitoring well clusters (33 wells). The WES Environmental Laboratory (EL) sampled 26 of the 33 wells, and a seep near the DBG, for priority pollutants in June 1988. The WES Geotechnical Laboratory (GL) prepared a Draft Report of the Phase II Groundwater Assessment of the Dye Burial Grounds and submitted it to NSWC Crane on 16 January 1991. NSWC Crane submitted the Draft Report to the USEPA on 4 March 1991.

The WES began an RFI Phase III groundwater release characterization in October 1990 with the addition of three monitoring wells near the DBG. The WES EL conducted four rounds of groundwater sampling and analysis for Appendix IX compounds in 44 DBG wells from March 1991 to March 1992. The WES EL provided groundwater sampling, laboratory analysis and data validation for the Appendix IX work.

The WES GL conducted an RFI Interim Measures Geophysical Investigation at the DBG in January 1991 to delineate the boundaries of the burial trenches and identify buried anomalies. A Draft report was prepared and submitted to NSWC Crane on 31 May 1991 and to USEPA on 14 June 1991 (U.S. Army Corps of Engineers, 1991).

The WES recommended remedial measures at the DBG through a Technical Paper (Glynn and Stark, 1995) in partial fulfillment of the Draft Work Plan for Remedial Actions, NSWCC, dated 31 July 1994. Recommendations included

design and construction of a "RCRA equivalent" cover as an interim remediation measure at the DBG. Follow-up reconnaissance of the DBG trench area by WES in October 1994 included physical probing and sampling of the near surface soils and more precise definition of trench boundaries. Subsequent actions by NSWCC include award of a contract for construction of a RCRA equivalent cover for the burial grounds, in progress.

Scope

The information and discussion in this report pertain to the facility known as the Dye Burial Grounds, SWMU 02/11, of the Naval Surface Warfare Center Crane, Indiana. Field data acquisition methods discussed are applicable to other military facilities requiring similar evaluation and assessment, with modifications to meet specific site and regulatory requirements. Laboratory chemical analysis methods discussed generally followed USEPA protocol for RFIs and are applicable to other RFIs with modification for site-specific requirements.

Operational History and Description of the Dye Burial Grounds

The DBG is located in the eastern section of the NSWC Crane, adjacent to the Ammunition Burning Ground, as shown in Figure 2. The operational history of the DBG is poorly documented. The IAS study team reported in 1984 that an estimated 50,000 lbs of dyes and dye-contaminated materials were deposited in open trenches at the DBG between 1952 and 1964. Materials reportedly included magnesium, boxes, and rags contaminated with dyes, and about 60 open drums of dye. The three open trenches were each 10 ft wide, 6 ft deep, and 50 ft long, apparently aligned end to end, and situated atop a ridge. The trenches reportedly were backfilled to the ground surface with soil in 1972, but were not permanently capped. The NSWC Crane placed crushed rock along a roadway immediately north of the trench area in 1987 to facilitate access by well drilling vehicles.

The specific contents of the dye burial trenches are not known. The Initial Assessment report (NEESA, 1983) for NSWC Crane included general information on dyes that have been used in colored smoke munitions, some of which presumably would have been interred at the Dye Burial Grounds. The report listed dyes for red smoke (including 9-diethylamino-phenyl-5-benzo (a)phenazinone, 1-methylaminoanthraquinone, 1-(2-methoxyphenylazo)-2-naphthol, Rhodamine B, and others); green smoke (including 1,8- and 1,4-di-p-toluidinoanthraquinone, 1-methylamino-4-p-toluidinoanthraquinone, and others); orange smoke (including 1-aminoanthroquinone and others);

yellow-smoke (including auramine hydrochloride, 1-(4-dimethylamino-phenylazo)-2-naphthol, quinoline yellow, and others); blue smoke (including indigo, 1-hydroxy-4-p-toluidinoanthraquinone, Alizarin sapphire, and others); and violet smoke (including 1,4-diaminoanthraquinone, Rhodamine B, and others).

2 Action Levels

Background

The USEPA's goal in RCA corrective action is to eliminate significant releases from SWMUs that pose threats to human health and the environment, and to clean up contaminated media to a level consistent with reasonably expected and current uses. Section 264.521 of the Code of Federal Regulations, Title 40 was proposed in the Federal Register, July 27, 1990 to establish the general principles by which action levels would be determined for each medium (Federal Register, 1990). Where contamination is identified during the facility investigation, EPA or an authorized State will have to make a decision on whether further analysis is appropriate or whether the contamination is at an insignificant level. The proposed rule incorporates the concept of "action levels" - levels of contamination that will typically trigger a CMS. The discussion in Part II of this report is an excerpt from the proposed Section 264.521 with particular emphasis on its application to groundwater.

Use of Action Levels

Action levels are health and environmental-based levels of contamination determined by the USEPA to be indicators for protection of human health and the environment. The EPA proposes action levels for hazardous constituents, a subset of hazardous wastes. Where appropriate, action levels are based on promulgated (published) standards (e.g. maximum contaminant level [MCL] established under the Safe Drinking Water Act). In other cases, action levels are established by the Regional Administrator on the basis of general criteria. Table 1 provides examples of concentrations derived by EPA according to these criteria for some Appendix VIII and IX constituents. Table 2 presents current and proposed MCLs as of April, 1992.

The USEPA is proposing the use of action levels because active remediation may not be necessary at all facilities required to perform a remedial investigation. For instance, a remedial investigation may indicate that a suspected release identified in the RFA had, in fact, not occurred, or may indicate that levels of contamination from a past release are unlikely to present a threat to human health and the environment. Therefore, the USEPA believes it should

establish a trigger that will indicate the need for a CMS and below which a CMS would not ordinarily be required.

A determination that action levels have been exceeded may occur at any point during the RFI, or may not become evident until the RFI is completed. In either case, when such data become available, the permit schedule of compliance will provide for notification of the permittee that the action levels specified in the schedule have been exceeded. The notification would specify which hazardous constituents exceed action levels, for which media, and when initiation of a CMS is required. It is the USEPA's intention that the action level "trigger" approach serve to identify the need for initiating a CMS early in the process. Such studies should typically not be delayed until the completion of the remedial investigation. In many instances, it will be appropriate to conduct the facility RFI and CMS simultaneously.

Action levels should be distinguished from cleanup standards, which are determined later in the corrective action process. Contamination exceeding action levels indicates a potential threat to human health or the environment which may require further study. Action levels also inform the permittee of the levels below which the USEPA is unlikely to require active remediation of releases, and provide a point of reference for suggesting and supporting alternative remedial levels. In some cases, the permittee may rebut the presumption that a CMS is required when action levels are exceeded. For example, the permittee may establish that the contamination is not due to releases from SWMUs at the facility. In other instances, the permittee may demonstrate that a CMS is not required if the release is confined to a Class III aquifer (an aquifer not considered a potential source of drinking water) or to groundwater other than Class III for which the uses do not merit further action. The "rebuttal" of the need for a CMS would generally be made through the process for determination of no further action. Conversely, the fact that no contaminants are found to exceed action levels does not preclude the Regional Administrator from requiring a CMS. A CMS could be required if concentrations below action levels may pose a threat to human health or the environment due to site-specific exposure conditions.

Criteria for Determining Action Levels

In several cases, the USEPA has promulgated health-based standards appropriate for action levels for specific media. Where these standards are available, the USEPA intends to use them as action levels. The most obvious of these are MCLs. The USEPA will use these standards to set action levels for groundwater, and, in some cases, for surface water. Usually, however, promulgated standards will not be available. Nevertheless, health-based levels that have undergone extensive scientific review, but which have not been formally promulgated, are available for many chemicals. Section 264.521 proposes

criteria which enable the Regional Administrator to use such non-promulgated health-based levels to derive action levels.

Guidance levels based on carcinogenicity and systemic toxicity are available for many chemicals as presented in Table 1. Classes A, B, and C of Table 1 represent carcinogens (cancer-causing substances); Class D represents systemic toxicants (toxic chemicals that cause effects other than cancer or mutations). EPA established these concentrations by an assessment process which evaluated the quality and weight-of-evidence of supporting toxicological, epidemiological, and clinical studies.

Action Levels in Groundwater

Section 264.521 establishes action levels for groundwater in aquifers. By specifying the term "aquifer" in this context, the USEPA intends to broadly define the type of groundwater contamination situations that may require a CMS. However, the intention is to "trigger" such studies only in situations where actual groundwater cleanup is a reasonable remedial approach. The USEPA considered using the term "uppermost aquifer" but decided that the use of the term would limit its flexibility in addressing contamination in lower aquifers that are not hydraulically connected with the uppermost aquifer. Therefore, the wording of the proposed rule will also allow the USEPA to address any instances where SWMUs have contaminated groundwater that is not in an "uppermost" aquifer.

The MCLs are among the most important of the standards and criteria promulgated by the USEPA for protection of environmental media (Table 2). Where an MCL is available for a particular constituent found in groundwater not currently being used for a drinking water supply, and unlikely to be used as a drinking water supply in the future, the MCL will still ordinarily be used as an action level. However, cleanup to the MCL might not be required. In cases where groundwater is contaminated at a level above the action level, further study is necessary to make sure that sources of releases are controlled.

Where MCLs have not been promulgated for hazardous constituents, the USEPA would develop levels according to criteria described above (Table 1). The USEPA would use the standard exposure assumptions of two liters per day for a 70 kilogram (154 lb) adult over a 70 year lifetime, assumptions that are used extensively throughout the USEPA and other agencies.

3 Field Investigation Methods

Exploratory Drilling and Well Installation Methods

Monitoring well emplacement

The confirmation work performed in 1981 through 1984 emplaced relatively shallow borings and wells around the approximate position of the burial trenches. Seven of the eight borings were made with auger and rock bits that produced cuttings from which the site geologist logged the boring. The confirmation borings were 33 to 68 ft deep. The RFI expanded on the earlier effort by installing exploratory borings and wells in deeper aquifers and at greater distances from the burial trenches. Previous work at the adjacent Ammunition Burning Ground (Hunt, 1988) indicated the need to screen two other aquifers below the upper zone, and to retrieve continuous rock core to produce a more accurate and detailed geologic log of the subsurface. An additional 13 well sites were selected and 37 additional wells installed. Wells were installed in the Beech Creek Limestone, the Golconda/Haney Limestone (both of Mississippian age), the lower part of the Mansfield Formation sandstone and in the upper part of the Mansfield where the formation is divided by a wedge of shale and siltstone. The deepest (first) well of each well cluster was continuously cored and the core stored in wooden boxes. Other wells of the cluster were drilled with auger and rock bit using the detailed log obtained from the deep boring as a guide for emplacement of well screens. Boring 02C21 was cored and logged to a depth of 168 ft but no well was installed in the boring, which was subsequently plugged (grouted to the ground surface).

The deepest borings bottomed in the Elwren shale, which immediately underlies the Beech Creek limestone, the deepest aquifer monitored at the DBG. RFI borings were as deep as 189 ft. The Elwren shale had been shown to be a persistent, thick shale aquiclude at other SWMUs at NSWC Crane. Borings at the DBG were driven far enough into the Elwren to confirm its presence and thickness. Confirmation of the integrity of the Elwren permitted selecting the Beech Creek limestone, overlying the Elwren, as the deepest aquifer to be monitored at the SWMUs.

Table 3 presents data for all monitoring wells installed at the DBG. The RFI well numbers are designated by "02" followed by "C" to distinguish them from the confirmation wells installed prior to 1988 (the eight confirmation wells are designated by a "02-" followed by a number). The deepest well

(deepest intake screen placement) of a cluster is designated with a "C" followed by the cluster number (for example "02C10)." Progressively shallower wells of each cluster are designated by a "02C" followed by the well number "P2" or "P3." The higher digit after the "P" is the uppermost (shallow) well of each cluster (for example "02C10P3)."

Figure 3 shows the locations of all borings and well clusters emplaced for the DBG study. Because of the proximity of wells in a cluster, only the deep well of the cluster is shown on the location map. Confirmation well 02-05 was located close enough to well cluster 02C12 to serve as the uppermost aquifer well for the cluster.

The well locations were surveyed via Global Positioning System (GPS) and transit operated by the Survey Branch of the U.S. Army Engineer District, Louisville. The X, Y (Easting, Northing, resp.) coordinates, in feet, were reported in Indiana State Plane West Zone Coordinates, North American Datum (NAD) 1927 and 1983, which allowed plotting the locations on standard USGS topographic quadrangle maps. Elevations of the top of casing (TOC) of each well, including all wells of a cluster, were surveyed to hundredths of a foot NGVD (National Geodetic Vertical Datum). Table 4 presents the survey data for all DBG wells.

Drilling and sampling of rock and soil

All well borings were drilled with a Failing 1,500 rotary drilling rig. In the first and deepest boring of each RFI well cluster, and at other individual monitoring wells/borings, soil overburden was penetrated and sampled to refusal depth (top of rock) using a 10-in. flight auger. Rock was then drilled and sampled using an HQ wireline core barrel. If the depth to auger refusal was less than 10.5 ft (the depth needed to insert the HQ barrel), a roller-rock bit was used to advance the boring to the required 10.5-ft depth as the geologist logged the subsurface materials encountered. The HQ wireline core barrel retrieves a 2.5 in. diameter core and produces a 3-25/32-in. diameter borehole. Subsequent well borings of a monitoring well cluster were drilled with a 4-in. O.D. roller rock bit with no samples retrieved (i.e. they were unlogged). The core samples were placed, in order of removal, into plywood boxes for future reference, and detailed geologic logs were prepared. Copies of the field boring logs of the RFI wells are presented in Appendix C.

Prior to the start of drilling and between set-ups at each of the boring sites thereafter, the drill rig and drilling tools were steam-cleaned to prevent cross-contamination of monitoring wells. Drilling was conducted with clean water obtained from the water treatment plant at NSWC Crane. No other drilling fluids or additives were introduced into the borings. The drill cuttings were removed by circulating clean water in a steel mud pan sealed around the boring top. During drilling operations the mud pan was cleaned and refilled with new

water when necessary. In most borings, the drilling water was lost in the more porous and jointed aquifer zones. When water loss occurred, the mud pan was replenished with a continuous flow of clean water from the water supply tanker.

Where more than one aquifer zone was penetrated in a particular boring, the upper zone or zones were sealed off from lower zones to prevent potential cross-contamination of the separate aquifers. When this occurred, PVC casing was grouted a distance of 2 to 5 ft into a relatively impervious bed that underlay each aquifer, and the grout was allowed to set overnight. When drilling into a lower aquifer, the procedure used to "seal off" the higher aquifer was to set a 6 in. or 4 in. diameter PVC casing through the 8 in. PVC surface casing (used to seal off surface soils) into the relatively impervious stratum just beneath the upper aquifer zone. The casing isolated the upper aquifer from any lower aquifers encountered. If more than one additional aquifer was encountered beneath the upper aquifer, a 4 in. diameter PVC casing was set through the 6 in. diameter casing into the relatively impervious bed just beneath the middle aquifer zone. The lower aquifer was then screened within the open borehole, isolated from the other two aquifers by the 6 in. and 4 in. diameter casings. Each casing was grouted up through the higher, previously set casing. In all borings where drilling water had been lost in the aquifer zones, the water circulation returned after the casing was set. In most of the borings the circulation was again lost in the next lower aquifer zone. Figure 4 illustrates the typical procedures used to case and seal borings.

After the completion of each boring, a bailer was attached to the drill cable hoist and the drilling fluids were bailed out until the water became relatively clear. The bailing operation usually lasted 1 to 2 hrs using a 2.5-in. diameter, 10 ft long stainless steel bailer. In most borings the water flow into the boring was adequate to maintain a regulated steady pace of bailing. In a few borings, the aquifer was tighter and there were slight delays in bailing operations to allow the inflow of additional water. After the bailing operations, monitoring well screens and riser pipes were installed in each boring.

Monitoring well installation procedures

Two-inch diameter PVC pipe was used for the screens and risers of the monitoring wells. The PVC screens have three vertical columns of horizontal slots .020-in. wide and spaced approximately a quarter of an inch apart. The riser pipe extends upward to approximately 2.5 ft above the ground surface. The bottoms of the well screens were terminated with a threaded PVC plug. The top of each well has a vented PVC cap. The riser pipe is protected at the surface by 3 in. diameter steel pipes fitted with locking caps and grouted 3.5 ft inside the 4-in. 6-in. and 8-in. diameter PVC surface casings. Figure 4 illustrates typical well installations for the four zones monitored at the DBG.

Once the pipe system was installed in the boring, the screened section and the entire aquifer zone were packed with a siliceous sand filter material purchased in prepackaged bags. The filter material was poured in from the top slowly by hand and checked for depth periodically with a tape measure. The filter pack was brought up to the next higher shale zone in order to obtain a good seal above the aquifer and to prevent clogging of the aquifer by annular grout. A 3 to 5 ft thickness of bentonite pellets was poured in from the top to secure a seal above the filter pack in each well. The bentonite was allowed to set 30 min to 1 hr for swelling time, and the well was grouted to the surface above the bentonite. The grout consisted of a cement-bentonite mixture and was pumped in from the bottom through a 3/4-in. diameter pipe. Well-installation diagrams are included at the back of each well log in Appendix C.

Well development

The procedure for developing the wells consisted of bailing well water, alternating with periods of surging. The surge tool consisted of an 18-in.-long, 1-1/4-in.-diam stainless steel rod with rubber washers attached at each end. The washers were cut slightly smaller than the inside diameter of the well pipe. The surge tool was lowered into the well with 1/8-in.-diam stainless steel cable and pulled briskly up and down in the slotted zone to create a pumping/pushing action. The process was repeated for several hours in each well or until the water forced out at the top became relatively clear. The same stainless steel cable used for surging was used to lower and raise a 1-1/8-in. diameter, 5 ft long stainless steel bailer. To increase speed and efficiency of the bailing operation, a frame was constructed on a small trailer in conjunction with a portable wireline winch to run the tools in and out of the wells. The wells were bailed until the water became clear. The developing tools were flushed with clean water between each well setup.

Water level measurements

The depth to groundwater in all monitored wells was measured by the sampling crew during each sampling event. Measurement of depth was made by lowering a stainless steel electrical probe attached to a plastic cable marked in increments of feet, tenths and two-hundredths of a foot. Measurements were made from the lip of the PVC well casing, from the same position on the lip at each measurement period. Water surface elevations were then computed by subtracting the depth to water from the surveyed top-of-casing (TOC) elevation. The water level in the well casing represented the piezometric surface of the water in the aquifer.

Water levels in the DBG wells were recorded during August 1988, March 1991, June 1991, November 1991, and March 1992. All the acquired water level data for these wells is presented in Table 5. Water level measurements

for March 1992 were used to construct groundwater surface contour maps, which are discussed later in this report.

Groundwater Sampling

Selection of background wells

Monitoring well cluster 02C10, which includes 02C10P2 and 02C10P3, was designated the background well for statistical comparisons of detected levels of groundwater contamination. The well cluster is located approximately 650 ft to the northwest of the dye burial grounds on a ridge separated from the DBG by a drainage gully (see Figure 3). Well 02C10 is screened in the Beech Creek limestone at an elevation of 572 to 562 ft NGVD. Well 02C10P2 is screened in the Golconda/Haney limestone at an elevation of 652 to 642 ft NGVD. Well 02C10P3 is screened in the "lower" Penn sandstone at an elevation of 682 to 677 ft NGVD. The uppermost well, 02C10P3, served as the background well for all wells screened in the Pennsylvanian sandstone. Well cluster 02C10 is adequate for background because all of its wells are upgradient of the DBG and because the levels of monitored contaminants in the wells were nominal, i.e., below or no higher than levels in other monitored wells.

Selection of groundwater contamination parameters

An extensive list of contamination parameters was developed for the RFI work at the DBG from the Appendix IX groundwater monitoring list suggested for RFI Corrective Action under Section 40 Code of Federal Regulations (CFR), Part 264, Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities (Federal Register, 1990). The parameter list was amended to include explosives compounds. Five rounds of sampling were originally scheduled. After three rounds it was apparent that certain groups of parameters were not present at quantifiable levels. Round four was subsequently reduced in scope through a letter request from Northern Division, NAVFAC to RCA Permitting Branch, EPA Region V Chicago dated 12 March, 1992 and letter reply dated 27 March, 1992. The fourth round of sampling was limited to metals and nitrite/nitrate nitrogen compounds.

A list of the modified Appendix IX groundwater quality parameters monitored at DBG and detection limits is provided in Table 6.

Sampling procedures

Overview. The goal of the groundwater sampling program was to obtain samples representative of the sample matrix. The locations and number of samples were selected to optimize the identification of sources of contaminants

and pathways of contaminant migration. The possibility of external sources of contamination to the samples was eliminated through the use of good sampling techniques.

The following sections describe the field sampling procedures followed for groundwater sampling at the DBG.

Groundwater sampling. All groundwater sampling occurred no earlier than 14 days after newly constructed wells were developed. This procedure allowed the natural groundwater system to return to its pre-drilling condition.

Field measurements prior to purging. Prior to purging a well, organic vapor measurement of the well head space was checked using an HNU brand photoionization organic vapor meter. The well head space was checked to ensure the safety of the sampling personnel and to indicate the presence of light nonaqueous phase liquid (LNAPL) within the well casing. The well was unlocked and the well cap was lifted high enough for the meter's probe to be inserted into the well casing. Upon indication that organic vapor levels were in the permissible range, the well cap was removed.

The water level and the well depth of each well were taken using an M-Scope brand water level indicator incremented in hundredths of a foot (see Appendix D for field measurements of well parameters). The water level measurements were taken by lowering the stainless-steel probe until the unit indicated contact with the water surface. The well depth measurements were taken by lowering the probe to the bottom of the well, measuring from the well bottom to the top of well casing. The difference between the well total depth and water level depth was used to determine the volume of water purged. All depth measurements were made from the top of the well casing, not the protective casing. Depth data were recorded in a field sampling log book.

Purging of monitoring wells. A primary consideration in obtaining a representative groundwater sample was to avoid introducing stagnant water from the well casing into the sample. Since there is little or no mixing of the volume of water above the screened interval, stratification can occur. To ensure representative sampling of the aquifer, parameters such as electrical conductivity, pH, and temperature must be stable. However, stable measurements of these parameters may be difficult and time demanding due to the variety of contaminants present. Therefore, purging of three well volumes was recommended. The purged volume of water was determined by calculating three volumes of water in the well (see Appendix D). The equations used for calculating purged volumes of water in a 2-in. diameter well are as follows:

$$A \text{ (cu ft)} = 0.8 \cdot d^2 \cdot h$$
$$B \text{ (gals)} = A \cdot 7.48 \text{ gal/ft}^3$$
$$3 \text{ volumes (gals)} = 3 \cdot B$$

where

A = volume of water in well, cu ft

B = volume of water in well, gals

d = diam. of the well, ft

h = height of water in well, ft

After the volume of water to be purged was determined, the water was removed by pumping or bailing. If the well recharged rapidly and/or had 20 gals or more of water to be purged, the well water was purged with a pump. If the well had a slow recharge and/or had less than 20 gals of water to be purged, the well water was bailed with a PVC bailer.

If the well went dry during pumping or bailing, removal of all water that had prolonged contact with the well casing or air was assured. If the well recovery rate was rapid, the well was allowed to recover to its original level and purged a second time before sampling. If the recovery rate was slow (e.g., more than 2 hrs), samples were obtained as soon as sufficient water became available.

Sampling of monitoring wells. The sample was obtained immediately after the well was purged. For a slow-recovering well, the sample was collected immediately after a sufficient volume became available. Sampling was accomplished by filling a Teflon bailer, which was lowered into the well with a spool of Teflon coated cable, or by immersing a 2-in. submersible pump with flow adjustment. The pump had effectively obtained samples from wells at other NSWC Crane SWMUs. The 2-in. submersible pump exterior was made of stainless steel with interior components of Teflon and stainless steel.

Clean plastic sheeting spread around each well helped prevent ground-surface contamination of the sample. Sampling equipment was never placed on the bare ground or any object that might contribute to ground-surface contamination.

Before sampling of groundwater wells began, equipment rinsates were collected to be analyzed for the monitored contaminants. Rinsates permitted the correction of analytical results for changes that might occur after sample collection. A minimum of one rinsate was collected for each parameter of interest in the field on each day of sampling. The equipment rinsate was obtained by pouring double distilled deionized (DDI) water through the Teflon bailer. For metals analysis, which required filtering, the rinsate was poured into the filtering apparatus from the Teflon bailer.

Volatile samples were collected first. Extra care was exercised to prevent analyte loss by volatilization. Precautionary measures included avoiding

aeration or agitation of the sample, taking care that no air bubbles were trapped in the vial by tapping the vial lightly in the palm of the hand, and never allowing the volatile sample to freeze. If the submersible pump was used, volatile samples were collected at a flow rate of 100 ml/min. Extra care was exercised when pumping to prevent analyte loss by volatilization.

Samples for metals analysis were filtered in the field using a 0.45 micron filter under positive pressure. The metal sample was poured into the filtering apparatus from the Teflon bailer. Samples for organics analysis were not filtered.

After obtaining samples for analysis, a sample was collected for immediate temperature, conductivity, and pH measurements. These measurements were measured and recorded in the field (Appendix D).

The appropriate preservative was added to the collected sample and the container cap was securely fastened. Samples were labeled by facility (SWMU), well number and date of sampling. The sample bottles were placed in an ice chest immediately after sampling and delivered to the laboratory as soon as possible so that specified holding times were not exceeded.

Equipment decontamination

All equipment used to measure, purge, filter, and sample groundwater wells (e.g., bailers, submersible pump, and water level indicator) were cleaned to prevent cross-contamination between wells. The water level indicator was rinsed thoroughly with distilled water. Equipment used for purging and sampling wells (e.g., the Teflon bailer and/or submersible pump) was decontaminated by rinsing thoroughly with distilled water. Sampling and measuring equipment was scrubbed, if necessary, to remove sediment adhering to it after withdrawal from the well. Filtering equipment was decontaminated and 0.45 micron filters were cleaned with a nitric acid solution and rinsed thoroughly several times with copious amounts of distilled water.

Water used for rinsing field equipment was distilled water obtained from NSWC Crane or retail merchants. At least one field blank, a sample of the water used for decon, was submitted to the laboratory and analyzed for all analytes of interest per sampling event.

Sample preservation

The purpose of sample preservation was to prevent or retard the degradation/modification of chemicals in samples during transit and storage. Efforts to preserve the integrity of the samples were initiated at the time of

sampling and continued until analyses were performed. Preservatives and holding times for the monitored parameters are presented in Table 7a.

All water samples were kept cool at 4°C.

Quality control procedures

Field chain-of-custody. A chain-of-custody procedure was used to maintain the integrity of the sample after collection. The samples were locked up when unattended. When the samples were being shipped by parcel delivery (Federal Express), a signed chain-of-custody sheet and seal were placed inside and on the shipping container, respectively. Once the samples reached the analytical laboratory, the samples were signed over to the lab recipient for analysis.

A sample was considered to be in someone's custody if:

a. It was in the person's actual possession.

b. It was in the person's view, immediately after being in the person's possession.

c. It was placed in an ice chest that remained in view, after being in someone's possession.

d. It was placed in a secured area, restricted to authorized personnel only.

Examples of chain-of-custody forms and tags are shown in Figures 5 and 6, respectively.

Sample containers. The sample containers were compatible with the analyte(s) of interest. The following containers were used for all sample matrixes except where noted:

a. Septum-sealed glass vials for volatiles.

b. Amber glass bottles with Teflon-lined lids for Target Compound List (TCL) organics other than volatiles.

c. Polyethylene bottles for Target Analyte List (TAL) metals and other inorganics.

To ensure the integrity of the samples, steps were taken to minimize contamination from the containers in which they were stored. If the analyte(s) were organic, the container was an amber glass bottle. If the analyte(s) were inorganic, the container was a polyethylene bottle. Since organic and inorganic substances were expected to be present, separate samples were taken. Reuse of

sample containers was prohibited. Commercially certified cleaned containers were used. Documentation from the container manufacturer consisted of the results of bottle blank analysis. Quality Control results from the supplier of commercially cleaned containers demonstrated that the bottles were "clean." Validation was provided for each batch or "lot" of bottles cleaned.

Field quality control samples. Although the number of Quality Control (QC) samples varied for each sampling event, the types of field QC (e.g., trip blank, equipment rinsate, field blank, field duplicates, and referee duplicates) remained the same.

Trip blanks were samples that originated from analyte-free water taken from the laboratory to the sampling site and returned to the laboratory with the volatile organic analytes (VOA) samples. One set of trip blanks accompanied each cooler containing VOAs. Trip blanks were analyzed only for VOAs.

Equipment rinsates were the water rinses from equipment cleaning collected daily during a sampling event. A sampling event was considered to be from the time the sampling personnel arrived at the site until they left for more than one day. The results from the blanks were used to flag or assess the levels of analytes in the samples. The comparison of levels in blanks to levels in samples was made during data validation. The rinsates were analyzed for the same parameters as the samples collected from the wells.

Field blanks consisted of the source water used in decontamination. At a minimum, one field blank from each event and each source of water was collected and analyzed for the same parameters as the well samples.

Field duplicates were collected simultaneously with the water samples at a frequency of one duplicate per 10 samples per matrix[1]. All the duplicates were sent to the primary laboratory responsible for analysis. The same samples used for field duplicates was split by the laboratory and used as the laboratory duplicate or matrix spike. This means that for the duplicate sample, there were analyses of the normal sample, the field duplicate, and the laboratory matrix spike/duplicate.

Blind samples were collected simultaneously with the water sample at a frequency of 1 blind sample per 10 samples per matrix, as appropriate. The blind samples were used to check the analytical laboratory accuracy. The analytical laboratory had no knowledge of the identity of the blind samples. Table 7b lists well numbers from which blind samples were collected for the four sampling rounds. Well numbers assigned to blind samples were fictitious (e.g., well number 10C28P4 of Round 1, Table 7b, did not exist).

[1] The matrix is the suite of all analytes being sampled (metals, VOAs, etc).

Sample coordination. Prior to and during sampling activities, there was coordination between the sampler and the analytical laboratory. The laboratory provided the sampler information on the quantity of sample to collect, preservatives to be used, chain-of-custody sheets and seals, sample containers, and ice chests. The laboratory informed the sampler whether any sample containers containing samples were broken in transit. The sampler informed the laboratory when to expect a shipment, whether any empty glass containers were broken in transit, and any other irregular events that occurred (e.g., limited sample collection, etc.).

4 Hydrogeology of the Dye Burial Grounds

Technical Approach

The evaluation of the hydrogeology (the surface and subsurface geology and its associated groundwater hydrology) was accomplished primarily by analyzing data from the 37 RFI and the eight confirmation borings and wells emplaced in the Dye Burial Grounds study area. The evaluation also incorporated the data from a few borings emplaced for the adjacent Ammunition Burning Ground. The lithology, stratigraphy and geologic structure of the study area were defined from the extensive continuous rock core recovered in the deep well of each RFI well cluster and from well logs of cuttings where core was not taken. Geologic cross sections and contour maps of selected geologic surfaces (structure maps) were constructed from boring data. Groundwater piezometric surface contour maps were constructed from water level measurements taken in the monitoring wells. Additional geologic data, particularly concerning the stratigraphy and environments of deposition, was provided by the Indiana State Geological Survey in a study of the Pennsylvanian section of the rock core from the DBG and other areas at NSWC Crane.

Well clusters were positioned to provide sufficient areal information to describe the subsurface geology and to monitor potential groundwater flow paths. Well screens were placed in the upper and lower portions of the aquifer to discern segregation or preferential migration routes of groundwater contaminants and to evaluate hydraulic connectivity of the upper rock groundwater to the deeper groundwater.

Surface reconnaissance on the surrounding slopes and in the drainages provided some information on formation outcrops and the positions and condition of springs and seeps. Groundwater and geologic data from adjacent Ammunition Burning Ground borings and wells were incorporated into the geologic profiles developed for the Dye Burial Grounds investigation.

Regional Geology and Hydrogeology

Physiography

The physiographic divisions of the state of Indiana, the limits of Pleistocene glaciation and the location of the NSWC Crane are shown in Figure 7. The NSWC Crane lies in an unglaciated area of the Crawford Upland, a rugged, dissected plateau bounded on the east by the Mitchell Plain and on the west by the Wabash Lowland. The Mitchell Plain is a low, dissected limestone plateau characterized by sinkhole topography and other karst features. The boundary between the Crawford Upland and the Mitchell Plain is called the Chester Escarpment, a highly irregular east-facing cuesta. The escarpment trends northwest-southeast and passes just east of the NSWC Crane. Numerous springs, cavern passages and caves occur along the Chester Escarpment and in the eastern part of the Crawford Upland. Some of these solution features are found in the eastern portion of the NSWC Crane. The Crawford Upland grades into the Wabash Lowland near the western NSWC Crane boundary. Elevations on the Crawford Upland at the NSWC Crane range from less than 500 ft NGVD to greater than 850 ft NGVD. Relief on the upland varies from about 100 ft to 350 ft, with higher elevations and greater relief occurring generally in the eastern part of the NSWC Crane. Surface drainage in the upland is to the south and southwest.

The surface drainage along major streams in Indiana is shown in Figure 8. With the exception of the extreme northeast corner of Indiana, all of the surface drainage is to the southwest and south. Approximately two-thirds of the state drains into the Wabash River which in turn empties into the Ohio River. Surface drainage at the NSWC Crane eventually flows into the White River and thence to the Wabash to the southwest. The major drainage at the NSWC Crane is divided into five basins as shown in Figure 9. The Dye Burial Grounds are located in Basin III on a ridge immediately west of the divide separating Little Sulphur and Sulphur Creeks.

Groundwater in the unglaciated southwest portion of Indiana in general is contained in joint openings of limestone and sandstone aquifers. In the area of the Crawford Upland (Figure 7), aquifers are essentially isolated from each other vertically by shales, which act as aquicludes. Groundwater enters the aquifers through outcrops and flows by gravity down the dip of the strata or locally in directions controlled by the piezometric gradient.

Regional geologic structure

The state of Indiana and NSWC Crane lie in the midwestern region of the United States where stresses within the earth's crust have been relatively mild throughout geologic time. The crustal deformation that has occurred has produced structural arches and basins of regional proportions where the

sedimentary rocks are gently tilted and faulting has been minimal. The major structural provinces of the region are shown in relation to the state of Indiana in Figure 10. The Kankakee and Cincinnati Arches join and extend diagonally across Indiana from the southeast to the northwest. The combined arches form a structural divide from which sedimentary rocks dip northeast into the Michigan Basin and southwest into the Illinois Basin. The sedimentary rocks were deposited in cyclic seas and coastal plains that fluctuated across the region between 280 and 500 million years ago.

Geologic time periods extending from the Pennsylvanian through the Cambrian (nearly all of the Paleozoic Era) are represented in the sedimentary sequence underlying the region. Total accumulations of the sedimentary rocks range from 3,500 ft thick across the Kankakee and Cincinnati Arches to over 13,000 ft thick near the center of the Illinois Basin. Surface rocks are older and thinner across the arches and become progressively thicker and deeper in the subsurface as the strata dip into the basins. Consequently, the surface rocks become progressively younger in a direction outward from the arches toward the basins. In Indiana, the youngest sedimentary rocks associated with the regional geologic structural features are Pennsylvanian in age. The NSWC Crane is on the eastern flank of the Illinois Basin where the underlying sedimentary rocks dip to the west-southwest.

Hunt (1988) described the structure of the geologic formations underlying the NSWC Crane as gently sloping units dipping approximately 50 ft per mile to the west-southwest (striking north-northwest). Recent mapping of the base of the Beech Creek limestone in Martin County by the Indiana Geological Survey (IGS) (1980, revised 1991) indicates the dip is approximately 30 ft per mile. Figure 11 is a rendition of the northern half of the IGS map, which includes the NSWC Crane. The structure contours are on the base of the Beech Creek limestone. Local structural anomalies such as small scale flexures and folds exist.

Two faults or proposed faults have been mapped in the NSWC Crane general area. The closest mapped major fault, known as the Mt. Carmel fault, trends NW-SE and passes approximately 20 miles east of the NSWC Crane. Ault et al. (1985) mapped a possible fault trending approximately N-S in a railroad cut on NSWC Crane property in Sec 31, T5N, R3W. The NSWC Crane fault is inferred from an apparent 30 ft displacement of Mississippian Glen Dean Limestone above strata of the stratigraphically higher Pennsylvanian Mansfield Formation. The inferred fault is approximately 2-3/4 miles southwest of the Dye Burial Grounds. The Indiana State Geological Survey recently investigated the reported presence of the fault during geologic mapping at NSWC Crane (Kvale 1992). Kvale reported that the area of the fault has been covered by mass wasting. Geologic units projected toward the reported position of the fault conceivably could have been displaced at least 10 ft by faulting. No other evidence of the fault was found.

Stratigraphy

The surface rocks underlying the NSWC Crane are in the Lower Pennsylvanian and Upper Mississippian geologic time periods (about 300 to 330 million years old). A generalized stratigraphic column at the NSWC Crane is presented in Figure 12. Mississippian rocks of the Chester Series are extensively exposed in the valley walls and hollows along the eastern portions of the NSWC Crane and in the lower zones of deeper valleys toward the west. Pennsylvanian rocks of the Pottsville series cap most of the hills and ridges along the eastern side of the NSWC Crane and become the predominant surface rocks toward the west boundary of the NSWC Crane. The stratigraphic units in the Pottsville series consist of interfingered sandstones, shales, claystones and clastic siltstones with occasional, relatively thin interbeds of coal that were deposited in cyclic seas and swamps. The stratigraphic units in the Chester Series consist of alternating and repetitive sequences of limestones, shales, and sandstones that were deposited in shallow seas. Several hundred feet of continuous limestone, Middle Mississippian in age, underlie the Chester rocks but remain in the subsurface at the NSWC Crane. The contact between the Mississippian and the Pennsylvanian rocks is an unconformity where erosional processes operating over a long period of time removed upper portions of the Chester Series prior to Pottsville deposition. Local relief along the unconformity may be as much as 150 ft in some areas.

Hydrogeology of the Study Area

Physiography of the DBG study area

A topographic map of the DBG study area is presented in Plate 1. The map was prepared by combining parts of the Indian Springs and Williams, USGS 7.5 min quadrangles. Plate 1 encompasses about 20 square miles of the east central portion of the NSWC Crane and delineates the DBG, the adjacent Ammunition Burning Ground, and part of the NSWC Crane reservation boundary. The topography of the study area is relatively rugged, consisting of a series of steep sided, narrow ridges and valleys. The topography is a product of erosional incision into gently dipping strata of varying resistance. The overall drainage pattern is presumably a result of preferential erosion along joints in the rock. Joints having strikes similar to the drainage trends were measured at a number of outcrops. Elevations across the area range from about 480 ft MSL in the lower drainage valleys to a maximum of 845 ft MSL along the drainage divide coincident with Road 161 in the western half of the map.

The DBG lies 500 to 1,000 ft SW of the crest of a NNW-trending ridge separating Sulphur Creek from Little Sulphur Creek. Principle surface drainage from the site is to the south and southwest into Little Sulphur Creek, which is the primary drainage way for the adjacent ABG. Maximum elevation near the DBG is approximately 775 ft at the ridge crest NE of the site. The

catchment area for surface drainage into the DBG is small because of the site's position near the crest of the drainage divide. The positions of the drainage divide and the principle drainage ways in the immediate vicinity of the DBG are shown in Figure 13. The double-dashed line is the divide; the bold solid lines with arrows locate the drainage ways. To the west of the DBG, Little Sulphur Creek continues south and crosses the NSWC Crane boundary about 1-3/4 miles south of the site. Little Sulphur Creek enters Sulphur Creek about 3-1/2 miles south of the ABG (see Figure 9). Sulphur Creek is tributary to Indian Creek, which flows southwest into the White River some eight miles below ABG.

The overburden materials encountered in well borings in the DBG study area were 2 to 10 ft of residual clay or silt soil. Additional sampling of the soil section in the immediate vicinity of the dye burial trenches in 1994 described the soils surrounding the trenches as medium to stiff to hard, moist to almost dry, silt and silty clay (Glynn and Stark 1995). The depth to weathered rock in the borings was 6.5 to 8.0 ft.

Local stratigraphy

The geologic formations encountered by borings in the study area are described in the following paragraphs, in descending order of geologic age (youngest units first). Refer to Figure 12 to review the stratigraphic column in the NSWC Crane area.

a. Raccoon Creek Group (Pennsylvanian).

Mansfield formation. The Mansfield Formation caps the hills and ridges in the study area and varies from 0 to 65 ft thick in the core borings. The dye burial trenches are situated entirely within the Mansfield. The formation consists of fine to medium grained, cross-bedded to ripple-bedded, friable sandstones; interbedded shale and sandstone; dark gray, carbonaceous shale; massive claystone; siltstone; and occasional thin seams of coal. Individual beds tend to "lens out" laterally. A two to three foot thick conglomeratic sandstone was also logged in the core borings of the DBG study. The IGS examined the DBG Pennsylvanian core for a study of the sedimentology and stratigraphy of the Pennsylvanian sequence underlying the NSWC Crane (Barnhill 1992). The IGS concluded that the Pennsylvanian age rocks underlying the DBG are dominated by ripple-bedded sandstone, dark gray shale, and lenticular bedded shale facies. Ripple-bedded sandstone commonly encases thin, coarser grained cross-bedded sandstone. The sandstones at the DBG were probably formed as intertidal to subtidal sand flats. The lenticular shale consists of dark gray, silty, carbonaceous shale with lenses of silty, very fine grained sandstone.

The dark gray shale and lenticular shales separate two distinct sandstone units at the DBG. The sandstone units form the upper two aquifers for the DBG study. The sandstone units are discussed further in a later section. The Mansfield is covered by 5 to 15 ft of silty clay soil throughout the DBG area. The sandstone of the Mansfield contained numerous bedding plane joints as noted in the core logs at the DBG.

b. Stephensport Group (Mississippian).

(1) **Hardinsburg formation**. The Hardinsburg occurs immediately below the Mississippian-Pennsylvanian unconformity in all of the DBG borings and is relatively uniform in thickness. The greatest thickness of 28.6 ft was encountered in boring 02C18. The formation consists of thick, laterally varying beds of fine-grained, friable sandstone, thinly laminated sandstone and shale, dark-gray, thinly bedded carbonaceous shale and green shale containing dark red-brown mottling. The green shale zones are similar in appearance to the Elwren Formation. The Hardinsburg Formation is an aquiclude between the Mansfield sandstone and the underlying Golconda/ Haney Limestone.

(2) **Golconda/Haney formation**. Several years ago the name for this formation was changed from the Golconda to the Haney. However, to facilitate cross reference to earlier reports both names are used in this report. The thickness in borings emplaced for the DBG study varies from 2.9 ft in well 02C09 to 18.4 ft in well 02C14. The formation consists of gray-brown, medium to coarsely crystalline, fossiliferous, very hard and dense limestone in beds ranging from 2 to 14 ft thick, with interbeds or zones of dark gray shaley limestone. A 0.5 to 2 ft thick shale bed occurs near the middle of the formation in many borings. The Golconda/Haney forms the middle aquifer of the study area. Core logs for DBG wells penetrating the Golconda/ Haney recorded the presence of joints, many of which were open.

(3) **Big Clifty formation**. The Big Clifty Formation is divided into two distinctly different lithologic members. The upper member is known as the Indian Springs shale and consists of a 20- to 24-ft thick bed of dark gray, thinly bedded, platy to fissile, carbonaceous, locally fossiliferous shale. The lower 3 to 4 ft of shale is generally massive, olive to olive gray and tan, and oxidized in contact with the underlying sandstone. The Indian Springs serves as an aquiclude at the base of the Golconda/Haney aquifer.

The lower member of the Big Clifty Formation consists of approximately 40 ft of yellow to olive tan, massive, rippled, very fine, well sorted, friable and permeable sandstone that is cut by numerous intersecting joints. The lower portion of the Big Clifty sandstone and the underlying Beech Creek Limestone form the lower (deepest)

aquifer for the DBG study. Numerous joints were identified in some of the cores taken from the Big Clifty Formation.

(4) **Beech Creek formation**. The Beech Creek consists of fossiliferous, very hard and dense limestone that ranges from 19 to 23 ft thick in DBG wells. Six wells were screened in the Beech Creek at the DBG. In the upper one third to one half of the formation the limestone is light to medium gray brown, medium to coarsely crystalline and has occasional stylolites. In the lower zone the limestone is dark gray, fine to medium crystalline and contains occasional to numerous wavy shale partings. Generally, the lower few inches of limestone contain rounded shale inclusions from the underlying Elwren Shale. The limestone has numerous low-angle (bedding?) joints throughout and occasional intersecting high-angle joints near the base of the formation. The Beech Creek Limestone and the overlying sandstone of the Big Clifty Formation together represent the lower aquifer of the DBG site. The Beech Creek encountered in many of the borings emplaced in the adjacent Ammunition Burning Ground was cavernous as a result of solution-forming activities of groundwater flowing through wide joints, particularly in areas where the formation was incised by valley cutting. No major solution or collapse features were reported from drilling action or core loss in the Beech Creek at the DBG (there were indications of solution-widened joints and bedding planes, however). Presumably the DBG's position atop a ridge has prevented formation of solution/collapse cavities in the underlying Beech Creek limestone.

c. West Baden Group (Mississippian).

Elwren formation. The Elwren averages 20 ft thick and consists of massive to thinly bedded, dark gray-green relatively impervious shale with interzones of red-brown claystone. Field observations indicate that the Elwren serves as an effective aquiclude at the base of the Beech Creek Limestone. The base of the Beech Creek (top of the Elwren) is exposed in several places in the valleys surrounding the DBG. Groundwater can be seen flowing freely along the top of the Elwren and forms springs at some locations. Spring C in the valley of Little Sulphur Creek south of the DBG (Plate 1) emanates from the Beech Creek-Elwren contact zone. The Elwren was the deepest formation penetrated in DBG borings. Eight borings bottomed in the Elwren.

Surface and near-surface geology

Plate 2 is a geologic map showing the general distribution of surface rocks within the east-central portion of the NSWC Crane. Plate 2 is at the same scale as the topographic map of Plate 1. Data to construct the geologic map were

from Hutchinson (1967). The approximate location of the DBG is shown by a box. The map shows the positions of group, not formation, contacts. Structure contours on the top of the Beech Creek limestone, the lower formation of the Stephensport Group, indicate the general strike and dip of the Mississippian units. WES prepared a more detailed geologic map of the immediate DBG study area from field reconnaissance of a few outcrops of formation contacts and by projection of contacts in geologic cross sections constructed for the DBG study from borings. The local area map is presented as Plate 3. Contacts that were mappable at outcrops are indicated on the map (for example, the "top of Beech Creek Ls..." at the east end of section BB). Plate 3 also shows locations of geologic cross sections presented later in this report. A layer of residual and other soil up to 10 ft thick covers the uppermost geologic unit on the ridge crests and is somewhat thinner or absent on steep slopes. The outcrop pattern on the geologic map reflects headward erosion of drainage in the area, and is representative of the surface geomorphology. The geologic contacts between units are subparallel to the topographic contours and are indicative of relatively flat-lying bedding planes.

Pennsylvanian sandstones and shales of the Mansfield Formation cap the ridge on which the DBG is sited, and progressively older Mississippian sediments of the Stephensport and West Baden Groups are exposed along valley slopes (see Figure 12). The contact between the Pennsylvanian and Mississippian sediments is an unconformity, marked by evidence of an extended period of surface erosion prior to the deposition of Mansfield Formation sediments. A prominent seep south of the DBG (Plate 3) is at or near the unconformity and forms an outlet for groundwater in the Pennsylvanian sandstone aquifer. Springs C (Plate 1) and E (Plates 1 and 3) are flowing springs draining the Beech Creek Formation. Spring C was sampled for the DBG RFI.

Subsurface geology

A series of geologic cross sections AA through EE (Plates 4 through 8) illustrate the subsurface geology of the DBG. The locations of the cross sections are shown on Plate 3. The cross sections were constructed from data obtained in the core and auger borings emplaced for the DBG and Ammunition Burning Ground studies, augmented by data from outcrops on the valley slopes. The cross sections graphically portray the stratigraphic and hydrogeologic factors that influence groundwater conditions beneath the DBG. Sections AA through EE are at scales of 1 in. = 40 ft vertically, 1 in. = 500 ft horizontally. The Mississippian strata are relatively uniform in thickness and persistent throughout the region, and are readily correlated between borings. The lithology and thickness of the Pennsylvanian strata vary considerably from boring to boring because of the rapidly changing near-shore environment in which they were deposited. The interpolation of Pennsylvanian contacts between borings is therefore less certain and implies great lateral variation and discontinuity in the strata.

The cross sections include groundwater profiles for the several aquifers and the positions of well screens. All of the screens of a given well cluster are shown in their actual positions beside each deep boring of the cluster. For example, boring 02C14, Section AA, Plate 4, displays three screens: P1 for well 02C14, P2 for well 02C14P2, and P3 for well 02C14P3. Cross section AA (Plate 4) transects the DBG from SW to NE, from well 03C05 beyond well 02C20 to an outcrop of the Beaver Bend[1] limestone in Sulphur Creek (see Plate 3 for locations of cross sections). The section trends approximately updip of the Mississippian units. Figure 14, a structural contour map for the top of the Elwren shale (base of the Beech Creek Limestone) beneath the DBG, confirms that the regional SW dip of the Mississippian units is preserved locally. The relative uniformity in lithology and thickness of the Mississippian sediments contrasts with the variable lithology and non-uniform thicknesses of sandstone and shale units in the Pennsylvanian Mansfield Formation. Solution and collapse cavities in the Big Clifty-Beech Creek are illustrated on the west end of the section in well 03C05 (an ABG well). Solution/collapse features are generally absent in wells drilled at the DBG because incision by creek cutting has not occurred as it has in Little Sulphur Creek west of the site.

The IGS study of the Pennsylvanian sequence at the DBG (Barnhill 1992) identified two distinct sandstone bodies, which they designated "A" and "B," within the Pennsylvanian. Both units are dominated by the ripple-bedded sandstone described earlier. The lower sandstone unit, "A," can be correlated over the entire area investigated by DBG borings. It ranges from 9 to 31 ft thick and contains 2 to 4 ft thick units of cross-bedded sandstone. The upper sandstone unit, "B," is separated from "A" by 5 to 15 ft of primarily dark gray and lenticular shale and is somewhat more shaley than "A." Sandstone "B" is thinner than "A," laterally discontinuous, and apparently confined within the immediate DBG area. The IGS study showed that Sandstone units "A" and "B" had good reservoir characteristics (interconnected porosity) and should be good aquifers. Figure 15 is a pair of isochore (drilled thickness) maps of the two sandstone bodies showing the extent and thickness of each unit. The shales separating the two units thicken to the east.

Cross section BB (Plate 5) transects the DBG study area from the NW to the SE from well 03C17 through 02C09 to an outcrop of the Beech Creek Limestone in the valley of Sulphur Creek. The section illustrates the predominance of fine grained sediments (siltstones and shale) in the Mansfield Formation toward the eastern side of the DBG study area, particularly in boring 02C09. The fine grained sediments thin to the west toward 02C13. There is greater likelihood of hydraulic connection between groundwater in the upper aquifer ("B") and groundwater in the lower aquifer ("C") to the western end of the DBG. Section BB displays a slight flexure in the Mississippian units and a thinning of the Golconda/Haney Limestone in well 02C09. The flexure is also apparent in the structural contour map of Figure 14 (borings 02C12 and

[1] The Beaver Bend comprises a lower aquifer that was not penetrated in DBG borings.

02C11). The local flexure and general dip of the beds probably influences groundwater flow in the aquifers beneath the DBG, as discussed below under the section entitled "Hydrogeology."

Cross section CC (Plate 6) transects the site from SSW to N from the valley of Little Sulphur Creek just west of the burial trenches through 02C10 to Spring E and an outcrop of Beech Creek limestone north of the site. Notable features on this section are the solution/collapse zone in the valley of Little Sulphur Creek and the preponderance of sandstone "A" and corresponding scarcity of shale in the Pennsylvanian Mansfield Formation, which is typical of the Mansfield on the west side of the DBG. Note in sections AA and CC and on the geologic map of Plate 3 that the Mansfield Formation and the Golconda/Haney Limestone are "daylighted" by valley incision around the flanks of the DBG. The Beech Creek is daylighted on the east and northeast and to the southwest in Little Sulphur Creek farther south. Daylighting of these aquifers is significant because free drainage of the aquifers is provided.

Cross section DD (Plate 7) runs roughly EW just south of the DBG site along a line of wells from 03C04 to 02C09. It further illustrates the thinning of the Mansfield shales to the west.

Cross section EE (Plate 8) runs NW to SE through borings 02C20, 02C09, 02C21, and 02C22, east of the DBG. The section shows a general thinning of the Golconda/Haney limestone to the south and east and the lack of Pennsylvanian aquifer sandstones near 02C09.

Surface and groundwater hydrology of the DBG

Surface runoff from the DBG is rapid, leaving the site in drainage channels that head at the edge of the ridge as shown on Plate 1. Field reconnaissance in the DBG study area revealed one area of groundwater seepage other than the major springs that were mapped in the valleys below the DBG. The DBG "seep" is at the elevation of the projected Pennsylvanian-Mississippian unconformity, the base of the Mansfield Formation. The position of the seep is shown on Plate 3 and on the geologic cross section CC, Plate 6. The seep is presumed to drain the Mansfield Formation and was used as a water quality monitoring station for the "lower" Pennsylvanian aquifer.

Four groundwater zones in three distinct aquifers were identified in borings at the DBG. In descending order the aquifers are the Pennsylvanian sandstone, the Golconda/Haney Limestone and the Beech Creek Limestone (including the lower part of the Big Clifty sandstone). The Pennsylvanian sandstone (the Mansfield Formation) is divided into upper and lower aquifers by an eastward thickening sequence of shale as described above and as illustrated in several of the geologic cross sections. The two Mansfield Formation aquifers are designated "lower" Pennsylvanian and "upper" Pennsylvanian and correspond closely to the sandstones "A" and "B," respectively, described by the IGS.

The analysis of geologic and hydrologic data from borings, wells and outcrops at and near the DBG indicates that groundwater in the Mississippian rock aquifers is contained in and flows primarily in interconnected joints. The hydraulic conductivity or transmissivity of the jointed rock is primarily a result of secondary, or fracture, porosity rather than intergranular porosity characteristic of granular soil or rock. Joints and other discontinuities such as bedding planes logged in cores at the DBG were tight to as much as 0.35 ft (0.1 m or 10 cm) in width. The Pennsylvanian sandstone aquifer at the DBG revealed numerous bedding plane joints that probably provide conduits for groundwater flow. But the Pennsylvanian aquifer also has respectable intergranular, or Darcian, permeabilities, that contribute to groundwater movement, as discussed below. Table 5 lists water levels for DBG wells measured on five dates between August 1988 and March 1992. Water table (piezometric surface) profiles for the March 1992 measurements are included on the geologic cross sections in Plates 4 through 8. The groundwater hydrology of the aquifers is discussed in the following paragraphs.

Beech Creek aquifer. The Big Clifty-Beech Creek aquifer (referred to as the Beech Creek aquifer in this report) was the deepest aquifer monitored for the DBG study. The Big Clifty and Beech Creek are separated from the higher Golconda/Haney aquifer by the Indian Springs shale, which is approximately 22 ft thick at the DBG (see Plates 5, 6, and 7). The Indian Springs is considered an aquiclude. The piezometric surface in the Beech Creek aquifer is 70 to 110 ft lower in elevation than that in the Golconda/Haney (for example, see Section CC, Plate 6). The two aquifers are considered not to be hydraulically connected at the DBG.

The top of the zone of potential saturation (the top of the aquifer) in the Beech Creek aquifer is considered to be in the Big Clifty sandstone. The cross sections (Plates 4 through 8) show that the piezometric surface is generally within the Beech Creek Limestone and is therefore unconfined at the DBG for the period of water level measurement. The piezometric surface in the Beech Creek was between 565 and 575 ft at the DBG in March 1992. Water levels in most Beech Creek wells varied by less than a foot over the five measurement periods (readings were not continuous). Investigations at the ABG (Hunt 1988 and Murphy and Ciocco 1990) showed that the Elwren Shale forms a barrier at the base of the aquifer and causes groundwater to move laterally through the Beech Creek. Local base level for the Beech Creek aquifer near the DBG is probably the level of the groundwater in solution channel conduits in the valley of Little Sulphur Creek, as shown on the left sides of Sections AA and CC, Plates 4 and 6. Spring "E" to the north (right side of Plate 6) taps the Beech Creek aquifer but the extent of influence of its drawdown of the piezometric surface cannot be determined without placing additional wells north of 03C10 (see Plate 1).

Permeability of the Beech Creek formation is believed to be a result of flow through solution widened joints. Joints were numerous in the core of many Beech Creek borings. The overlying Big Clifty sandstone is also jointed.

Groundwater elevation contour maps were constructed for the DBG Beech Creek wells for the March 28-30, 1992 readings. Figure 16 is the contour map for the six wells in the Beech Creek aquifer. The contour interval is one foot. Groundwater flow is to the southwest toward Little Sulphur Creek. The southwest flow direction is also generally downdip (see Figure 16). The piezometric gradient in the Beech Creek at the DBG is about 0.0063 ft/ft from well 02C20 to 02C11.

The Beech Creek is considered to be protected from direct vertical infiltration of waters from the DBG burial site by the shale units above the Big Clifty sandstone. The Big Clifty sandstone and Beech Creek limestone are exposed, except for a veneer of surface soils, on the slopes of the valleys surrounding the DBG, as illustrated in Plates 4, 5 and 6. The higher aquifers (the Pennsylvanian and Golconda/Haney) are daylighted around the DBG and potentially can reintroduce to the valley slopes water that has infiltrated and contacted the dye burial trenches. The seep mentioned earlier and shown on Plate 3 and in Plate 6 is an example of groundwater from higher aquifers being reintroduced to a lower ground surface elevation. Potentially, such water could reenter the Beech Creek aquifer at its outcrop on the slopes below the DBG. Other sources of infiltration of water into the Beech Creek aquifer are in recharge areas generally north (upgradient) of the DBG elsewhere on the NSWC Crane reservation.

Golconda/Haney aquifer. Measured water levels in the Golconda/Haney Limestone at the DBG differed considerably from well to well. The variability is evident in groundwater profiles in the cross sections of Plates 4 through 8. A pattern emerges when the groundwater levels are plotted as contours as shown in Figure 17. The contour interval is 5 ft. Contour troughs, or preferred groundwater flow paths, trend WNW and NE from a low near well 03C16. Groundwater flow is from highs at wells 03C10P2 and 03C14P2, toward the center of the DBG, and thence to the west with a minor component to the southeast toward well 02C22P2. Preferential flow within the Golconda/Haney is believed to be in zones of increased joint frequency or zones of solution-widened joints and bedding planes. Joints were numerous, and many were stained and oxidized, in many of the Golconda/Haney borings. The core log for boring 02C15 noted a 0.35 ft void within the limestone through which drilling water was lost. Both horizontal and high-angle (70°-80°) joints were noted.

Figure 18 is a structure contour map of the base of the Golconda-Haney. A structural trough is evident in the Golconda/Haney near the center of the DBG, particularly boring 02C12. The trough is manifested throughout the Mississippian section in the vicinity of boring 02C12, at least as deep as the Elwren shale, as shown in the structure contour map of the Elwren in Figure 14 and in

cross section on Plate 5. The position of the trough roughly coincides with the Golconda/Haney groundwater piezometric trough depicted in Figure 17. The structural flexure in the Golconda/Haney limestone possibly increased the number of joints or widened existing joints within the zone.

Groundwater levels for the Golconda/Haney Limestone were artesian (confined) in March 1992 except in some of the wells defining the troughs, in which the water level was below the top of the limestone (for example, well 02C19 in Plate 4, wells 02C11 and 02C15 in Plate 6, and wells 02C16 and 02C17 in Plate 7). The aquifer was dry (no water above the base of the well screen) in wells 02C15 and 02C09. Piezometric levels in the Golconda/Haney were between 639 and 676 ft elevation in March 1992. The piezometric gradient is highly variable, but from well 02C10P2 to 02C15, Figure 17, is about 0.067 ft/ft.

The Golconda-Haney is separated from the Pennsylvanian aquifers above by the Hardinsburg shale, which is up to 28 ft thick in the DBG study area. Piezometric levels in the Golconda/Haney respond independently of levels in the Pennsylvanian aquifers, indicating the Hardinsburg serves as an aquiclude to vertical infiltration. However, contaminant levels in sampled Golconda/Haney wells at the DBG suggest some contaminants from the DBG may be accessible to the Golconda/Haney either through vertical infiltration or by reentry on exposed slopes.

"Lower" Pennsylvanian aquifer. The "lower" Pennsylvanian aquifer at the DBG is in the Mansfield sandstone. The level of the water table in wells screened in the "lower" Pennsylvanian was between 679 and 696 ft elevation in March 1992. Figure 19 is a contour map of the piezometric surface in the sandstone in March of 1992. The general direction of groundwater flow is to the south/southwest. The piezometric level in well 02C20 was high, and artesian, relative to the level in other wells (see the profile in Plate 4). In all other wells, the piezometric surface is within the sandstone and unconfined. The gradient from well 02C20 to well 02C13P2 is approximately .022 ft/ft. The gradient below 02C13P2 is about 0.007 ft/ft.

The "lower" Pennsylvanian aquifer corresponds to the sand "A" described by the IGS. The ripple-bedded sandstone that dominates sand "A" exhibited moderate intergranular permeabilities in tests for gas permeability conducted for the IGS by a private laboratory. The IGS converted the gas permeabilities to hydraulic conductivities to estimate the permeability to water. Laboratory tests of sand "A" cores from borings 02C13, 02C15, and 02C18 yielded hydraulic conductivity values of 2.21×10^{-4} cm/sec, 1.01×10^{-4} cm/sec, and 4.63×10^{-5} cm/sec, respectively (see Table 8). These values suggest that sand "A" has low to moderate intergranular permeability to groundwater.

The "lower" Pennsylvanians aquifer is overlain by unsaturated sandstone and siltstone in the western portion of the DBG (Plates 4, 5, 6, and 7) and is

more susceptible to infiltration from surface waters there. Over much of the area, however, a wedge of shale which thickens considerably eastward overlies the lower sandstone aquifer. The cross sections of Plates 4 through 8 show the distribution and variable thickness of the shale beneath the DBG. The thick shale wedge on the east end of the site isolates the upper sandstone of the Mansfield from the lower sandstone and allows the "upper" Pennsylvanian aquifer to exist "perched" above the lower. Infiltrating water from the dye burial trenches has access to both the "upper" and the "lower" Pennsylvanian aquifers after penetrating the soil overburden beneath the trenches.

"Upper" Pennsylvanian aquifer. The "upper" Pennsylvanian aquifer occupies the Mansfield Formation, sand "B," described by the IGS. Data from wells emplaced at the DBG indicate that the aquifer is perched and limited in extent. Figure 20 is a contour map of the water levels measured in March 1992. The estimated extent of saturation within the aquifer in March 1992 is shown as a dashed line on Figure 20. The eastern boundary of the aquifer (east of well 02C12) is not well defined because there are no wells there. Water levels in March 1992 ranged from 712 ft to 718 ft elevation. Three of the six wells screening the aquifer (02C17P3, 02C18P3, and 02C19P3) were dry. Sand "B" and the upper Pennsylvanian aquifer are shown in cross sections AA (Plate 4), BB (Plate 5), and DD (Plate 7). Thin lenses of sand "B" occurred in boring 02C21 (section EE, Plate 8), but no wells were installed in the boring. The dotted outline of Figure 20 is the approximate physical limit of sand "B" defined by the "0" thickness contour of the plot in Figure 15.

The dye burial trenches, located approximately as shown by the irregular rectangle in Figure 3, are reportedly 6 ft deep. The base of the trenches probably contacts or is very near the top of sand "B." Only the northeastern one-third of the trenches, however, is sited in the saturated part of sand "B" as delineated in Figure 20. Any leachates from the northeastern trench area potentially would have access to the uppermost aquifer. Groundwater contours of Figure 20 imply that the "upper" Pennsylvanian aquifer has potential to carry water to the north-northwest, in contrast to the general south-southwest flow in the deeper aquifers at the DBG. However, the small area of saturation of the sand limits the distance to which groundwater and contaminants can be transported within the aquifer. The water table gradient is approximately 0.02 ft/ft to the northwest. The sediments that separate the lower sand from the upper sand are coarser to the west, and there is a correspondingly better opportunity for groundwater to percolate from sand "B" to sand "A," for example through the siltstone depicted in borings 02C14 and 02C19 in cross section AA, Plate 4. Migration would be much slower than through the sandstone aquifers.

5 Validation of Analytical Data

Background

USEPA Type II data validation was performed on all of the laboratory analytical results and raw data. Data validation included a thorough review of chemical data from the laboratory using a set of standard criteria in a systematic manner. The primary objective of data validation was to assess data quality with respect to pre-determined criteria. Type II data validation applied specifically to Contract Lab Program (CLP) data. Type II validation was conducted under the following protocol:

a. CLP data were reviewed according to the criteria in the latest versions of the following USEPA CLP documents: "Laboratory Data Validation: Functional Guidelines for Evaluating Organic Analyses," February 1988; "Laboratory Data Validation: Functional Guidelines for Evaluating Inorganic Analyses," July 1988; and "National Functional Guidelines for Organic Data Review: Multi-Media Concentration (OLM01.0) and Low Concentration Water (OLC01.0)," June 1991 revision.

b. Summary tables of data that underwent independent quality assurance review were generated. Data points are "flagged" to convey qualitative and quantitative quality assessments.

c. The data validator initially screened data packages for completeness (e.g., frequency of quality control samples).

The validation findings for each analytical method are discussed in the following subsections. The findings offered in this report are based upon a general review of all available data including the following:

a. Holding times.

b. GC/MS tuning and calibration data.

c. ICP interference check sample.

d. Furnace atomic absorption QC.

e. Laboratory and field blank results.

f. ICP serial dilution.

g. Surrogate spike recoveries.

h. Matrix spike/matrix spike duplicate results.

i. Internal standards performance.

j. Field duplicate precision.

k. Compound identification and quantization.

l. Tentatively Identified Compound (TIC) evaluation.

Laboratory QA/QC data sheets for CLP validation were completed by the analytical laboratory but are not included in this report.

A summary of analytical procedures used in the groundwater analyses is presented in Table 9.

The data qualifiers ("J," "R," etc.) described in the following sections apply to the data validation procedures and the accompanying data validation tables presented in Appendix E.

Organic Analytes

Holding times

The holding time validation was based on the holding time of the sample from time of collection to time of analysis or sample preparation, as appropriate. The unpreserved aromatic and non-aromatic volatiles must be analyzed within 14 days. Pesticides/ PCBs, explosives, herbicides, and BNA samples must be extracted within 7 days and the extract must be analyzed within 40 days (see Table 7a for holding times). If holding times were exceeded, all positive results were flagged as estimated (J). If holding times were grossly exceeded, professional judgement was used to determine the reliability of the data and the effects of additional storage on the sample results. The non-detect data may be determined unusable (R).

GC/MS tuning

Tuning and performance criteria were established to ensure mass resolution, identification, and sensitivity. The ion abundance criteria of decafluorotriphenylphosphine (DFTPP) and bromofluorobenzene (BFB) were used to evaluate the results. The ion abundance criteria were met. The mass calibration was performed correctly. The samples were analyzed each 12-hr period. Neither transcription errors nor calculation errors were made by the laboratory.

Pesticides instrument performance

The pesticides instrument performance criteria were established to ensure that adequate chromatographic resolution and instrument sensitivity were achieved by the chromatographic system.

The raw data were evaluated by verifying that DDT retention time was greater than 12 min on the standard chromatogram and that there was adequate resolution between peaks. If the retention time was less than 12 min, the chromatography was examined closer for adequate separation of individual components. If adequate separation was not achieved, the compound data were flagged unusable (R). The raw data were also checked to verify that the percent breakdown for endrin and 4,4-DDT or the combined percent breakdown did not exceed 20 percent. If DDT breakdown was greater than 20 percent, all quantitative results for DDT were flagged as estimated (J). If DDT was not detected, but DDD and DDE were positive, the quantization limit was flagged for DDT as unusable (R). DDD and DDE results were flagged as presumptively present at an estimated quantity (NJ).

If endrin breakdown was greater than 20 percent, all quantitative results were flagged as estimated (J). If endrin was not detected, but endrin aldehyde and endrin ketone were detected, the quantization limit was flagged as unusable (R). The endrin ketone results were flagged as presumptively present at an estimated quantity (NJ).

Calibration

Instrument calibration ensures that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning. Continuing calibration checks document satisfactory maintenance and adjustment of the instrument on a day-to-day basis. All average relative response factors (RRF) for Target Compound List (TCL) compounds must be greater than or equal to 0.05. All percent relative standard deviations (percent RSD) must be less than or equal to 30 percent for initial calibration and less than or equal to 25 percent for continuing calibration. Pesticide percent RSD must be less than or equal to

10 percent for each 72-hr period for initial calibration and percent difference less than 15 percent for continuing calibration.

All Target Compound List (TCL) organic compounds were checked and properly calculated. Since no calculation errors were detected, a more comprehensive recalculation was not warranted.

For TCL organic compounds with RRF less than or equal to 0.05 or percent RSD greater than or equal to 30 percent or 25 percent for initial calibration and continuing calibration, respectively, positive results were flagged as estimated (J). Non-detects were flagged as unusable (R).

For pesticide compounds with percent RSD greater than or equal to 10 percent for initial calibration and percent difference greater than or equal to 15 percent for continuing calibration, positive results were flagged as estimated (J).

Blanks

Results of blank analysis determined the existence and magnitude of possible contamination problems. The criteria for evaluation of blanks applied to any blank associated with the samples. If problems with any blank existed, all associated data were carefully evaluated to determine whether or not there was an inherent variability in the data, or if the problem was an isolated occurrence not affecting other data. No contamination should be present in the blank(s). The results were not corrected by subtracting possible blank value.

Contaminants such as methylene chloride, acetone, toluene, 2-butanone, and common phthalate esters are common lab contaminants. If concentration of any of the five compounds detected in the sample was greater than 10 times the blank concentration, which was also detected in any associated blank, the result was reported as submitted. If concentration of other TCL organic and pesticide compounds detected in the sample was greater than 5 times the blank concentration, which was also detected in any associated blank, the result was reported as submitted. If gross contamination was determined, all compounds affected were flagged as unusable (R) due to interference, in all appropriate samples.

Surrogate recovery

Laboratory performance on individual samples was established by spiking the samples. All samples were spiked with surrogate compounds prior to sample preparation. The evaluation of the results of these surrogate spikes was not necessarily straightforward. The sample may produce effects from such factors as interferences and high concentrations of analytes.

If at least two surrogates in a base/neutral or acid fraction or one surrogate in the volatile fraction were out of specification, but had recoveries greater than 10 percent, detects for that fraction were flagged as estimated (J). Non-detects for that fraction were flagged with the sample quantization limit as estimated (UJ). If any surrogate in a fraction was less than 10 percent, the detects were flagged as estimated (J). The non-detects were flagged as unusable (R). No qualification with respect to surrogate recovery was placed on data unless at least two surrogates were out of specification in the base/neutral or acid fraction, or one in the volatile fraction, or unless any surrogate had a less than 10 percent recovery.

If pesticide surrogate recoveries were outside of advisory windows, low recoveries of positive results and quantization limits were flagged as estimated (J). If the surrogate was not present, all negative results were flagged unusable (R).

Matrix spike/matrix spike duplicate

Matrix spike and matrix spike duplicate (MS/MSD) were generated to determine accuracy of the analytical methods on various matrices and long-term precision. MS/MSD data alone were not used to evaluate the precision and accuracy of individual samples. However, under professional judgement the MS/MSD data in conjunction with other quality control criteria were used.

The MS/MSD results were inspected for recovery outside quality control limits. If MS/MSD results affected only the sample spiked, qualification was limited to that sample. The MS/MSD results were used to determine if a lab was having a systematic problem in the analysis of one or more analytes, which affects all associated samples.

Internal standards performance

Internal standards performance criteria ensured that GC/MS sensitivity and response were stable during every run. Internal standard area counts must not vary by more than a factor of two (-50 percent to 100 percent) from the associated calibration standard. The retention time of the internal standard must not vary more than ± 30 sec from the associated calibration standard.

The raw data were checked to verify the recoveries reported on the Internal Standard Area Summary. The retention times and Internal Standards areas were verifiable. If two analyses for a particular fraction were run, the best data were reported.

During the evaluation, positive results for compounds with internal standard outside the -50 percent or $+100$ percent limits were flagged as estimated

(J) for that sample fraction. Non-detects for compounds with internal standards outside the above limits were flagged with the sample quantization limit classified as estimated (UJ) for that sample fraction. If an internal standard retention time varied by more than 30 seconds, the chromatographic profile for that sample was examined to determine if any false positives or negatives existed. If extremely low area counts were reported, or if performance exhibited a major abrupt drop-off, then a severe loss of sensitivity was indicated. Non-detects were flagged as unusable (R).

TCL compound identification

The number of erroneous identifications of compounds were minimized by the GC/MS qualitative analysis. An erroneous identification may either be a false positive (reporting a compound present when it is not) or a false negative (not reporting a compound that is present). False positives are much easier to detect than false negatives because more information is available due to the requirement of supporting data submittals. Negatives or non-detected compounds represent an absence of data and are, therefore, much more difficult to assess.

The relative response time (RRT) of reported compounds was within 0.06 RRT units of the reference standard. The laboratory standard spectra were compared to the sample compound spectra for a match. If incorrect identifications were made, all appropriate data were flagged as non-detected (U) or unusable (R).

For pesticides compounds, positive detects were confirmed using appropriate retention times and retention time windows. The non-detected compounds were verified as correct. Pesticide/PCB concentrations in the final sample extract which exceeded 10 ng/uL (nanogram per microliter) were confirmed by GC/MS. If incorrect identifications were made because of interference, all appropriate data were flagged as the estimated quantization limit (UJ).

Tentatively identified compounds

Chromatographic peaks in volatile and semivolatile fraction analyses that were not TCL analytes, surrogates, or internal standards were potential tentatively identified compounds (TIC). TICs were qualitatively identified by GC/MS library search.

TIC identifications were conducted by the laboratory for each sample by using a mass spectral search of the National Bureau of Standards (NBS, now the National Institute of Standards and Technology, or NIST) library and reporting the possible identity for the 10 largest VOA fraction peaks and the 20 largest BNA fraction peaks. These fraction peaks were not surrogate,

internal standard, or TCL compounds, but had area/height greater than 10 percent of the size of the nearest internal standard.

All TIC results were flagged as tentatively identified with estimated concentrations (JN). The tentative identification of a non-TCL compound is not acceptable. Major ions in the reference spectrum should be presented in the sample spectrum. The relative intensities of the major ions should agree within 20 percent between the sample and the reference spectra. Molecular ions present in the reference spectrum should be present in the sample spectrum. Ions present in the sample spectra but not in the reference spectrum was reviewed for possible background contamination, interference, or additional TIC compounds. Any uncertain TIC identification was reported as unknown. Identifiable TICs are in Table 10.

Inorganic Analytes

Holding times

The holding time validation was based on the holding time of the sample from time of collection to time of analysis or sample preparation, as appropriate. All metals except mercury must be analyzed within 180 days and mercury must be analyzed within 28 days. Cyanide samples must be analyzed within 14 days. Table 7a shows the holding time for each analyte. If holding times were exceeded, all positive results were flagged as estimated (J) for results > IDL and as estimated (UJ) for results < IDL. If holding times were grossly exceeded, professional judgement was used to determine the reliability of the data and the effects of additional storage on the sample results. The non-detect data could be determined unusable (R) for results less than IDL.

Calibration

Instrument calibration ensures that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning. Continuing calibration checks document satisfactory maintenance and adjustment of the instrument on a day-to-day basis.

The initial calibration for an inductively coupled plasma (ICP) analysis requires a blank and at least one standard to establish an analytical curve. The atomic absorption analysis requires a blank and at least three standards, one of which must be at the contract required detection limit (CRDL), to establish an analytical curve. The correlation coefficient must be greater than or equal to 0.995. The mercury analysis requires a blank and at least four standards to establish an analytical curve. The correlation coefficient must be greater than or equal to 0.995. The initial calibration requirement for cyanide analysis are a

blank and at least three standards to establish an analytical curve. The midrange standard must be distilled. The correlation coefficient must be greater than or equal to 0.995 for photometric determination.

If the minimum number of standards were not used for the above initial calibration, or if the instrument was not calibrated daily and each time the instrument was set up, the data were qualified as unusable (R). For a correlation coefficient less than 0.995, the results greater than IDL were as estimated (J) and less than IDL as estimated (UJ). The results were also as estimated (J) for midrange cyanide standards that were not distilled.

For the initial and continuing calibration verification (ICV, CCV), analysis results for metals (other than mercury), mercury, and cyanide must fall within the control limits of 90-110, 80-120, and 85-115 percent R, respectively. Positive results were qualified as unusable (R) if ICV or CCV percent R was less than 75 percent, 70 percent, and 65 percent for metals (except mercury), cyanide, and mercury, respectively. If the ICV or CCV percent R was greater than 125 percent for metals except mercury, 130 percent for cyanide, and 135 percent for mercury, results greater than IDL were unusable (R) but acceptable for results less than IDL.

Blanks

Blank analysis results were to determine the existence and magnitude of possible contamination problems. The criteria for evaluation of blanks applied to any blank associated with the samples. If problems with any blank existed, all associated data were carefully evaluated to determine whether or not there was an inherent variability in the data, or if the problem was an isolated occurrence not affecting other data. No contamination should be present in the blank(s). The analytical results were not corrected by subtracting possible blank value.

Duplicate sample analysis

Duplicate samples were used as indicators of laboratory precision based on each sample matrix.

The analyte data were evaluated by verifying that the results fell within the control limits of ± 20 percent for Relative Percent Difference (RPD) which should be used for sample values greater than five times CRDL. The control limit of ± CRDL for RPD was used for sample values less than five times CRDL, including the case where only one duplicate sample value was less than five times CRDL. If duplicate analysis results for a particular analyte fall outside the appropriate control limits, the results for that analyte in all associated samples of the same matrix were qualified as estimated (J). The analyte data also verified that the field blank was not used for duplicate analysis. If the field

blank was used for a duplicate analysis, all appropriate QC data were checked and professional judgement was exercised when evaluating the data.

Matrix spike sample analysis

The matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology.

The results were verified by determining that they fell within the limits of 75-125 percent recovery. These limits do not apply when sample concentration exceeds the spike concentration by a factor of 4 or more. Samples used for spike recovery analysis were not identified as field blanks.

The data were acceptable for use when the spike recovery was greater than 125 percent and the reported sample results were less than IDL. The data were qualified as estimated (J) whenever the spike recovery was outside the limits of 75-125 percent and the sample results were greater than IDL. For spike recovery within the range of 30-74 percent or less than 30 percent and sample results were less than IDL, the data were qualified as estimated (UJ) and as unusable (R), respectively.

Furnace atomic absorption QC

The objectives of the furnace atomic absorption QC were to duplicate injections and furnace post digestion spikes establishing the precision and accuracy of the individual analytical determinations. The Furnace AA raw data verified that the Furnace Atomic Absorption Scheme described in the July 1987 Statement of Work of the Functional Guidelines was followed. The raw data were also checked to verify that duplicate injections agreed within ± 20 percent RSD for sample concentration greater than CRDL. If duplicate injections were outside the ± 20 percent RSD, the sample was rerun. If the sample was not rerun, the data were qualified as estimated (J). If the rerun sample results remained outside the ± 20 percent RSD, the data were qualified as estimated (J). If the post digestion spike recovery was less than 40 percent and greater than IDL, the data were qualified as estimated (J). However, the data results less than IDL were qualified as estimated (UJ) for post digestion spike recovery greater than or equal to 10 percent but less than 40 percent. The post digestion spike recovery less than 10 percent and concentration results less than IDL were qualified as unusable (R).

ICP serial dilution

The objective of the serial dilution was to determine whether significant physical or chemical interferences existed due to sample matrix.

The criterion of the serial dilution was the determination of whether the analyte concentration was sufficiently high (concentration in the original sample greater than a factor of 50 above the IDL). If the analyte concentration is high, an analysis of a 5-fold dilution must agree within 10 percent difference (D) of the original results.

The raw data were checked and the percent D was periodically recalculated to verify that the dilution analysis results agreed with the above criteria. When criteria were not met, the associated data were estimated (J). The raw data were checked for negative interference (results of the diluted sample significantly higher than the original sample). Professional judgment was used to qualify this data.

Data Validation Results

The groundwater analytical data were reviewed and were found to be acceptable, with the exception of those results qualified as unreliable (R). Tabulations of qualified (validated) data and actual holding times for Rounds 1 through 4 are presented in Appendix E (Volume 2 of this report). Unqualified data are presented first for a given round, qualified data second, and holding times last. Unqualified non-detected analyte data are indicated by a "<__U." Qualified non-detected analyte data are indicated only by a "__U."

Some metals occurred frequently in rinsate and/or field blanks. Metals detected in groundwater samples at levels less than 5 times the level detected in the blank were suspected of being artifacts (not a result of site contamination). Appendix F compares the amounts detected in each sample with the amount detected in the associated blanks. A "Yes" in the "Artifact?" column of Appendix F means that the detected metal is suspect for that sample in that sampling round.

First round data

Samples collected from wells 02C10 and 02C12P2 for VOAs had low toluene D8 surrogate recoveries. These samples were rerun repeating the original results, which indicated a matrix effect affecting the toluene D8 surrogate recoveries. The data were qualified as non-detectables.

Acetone, methylene chloride, and bis(2-ethylhexyl)phthalate were found in concentrations less than the detection limits in several wells and/or associated blanks from the DBG. The data were qualified as BJ for an estimate found in the blank and the sample.

Samples collected from wells 02-08, 02C10, 02C11P3, 02C12P3, 02C14P3, 02C18P2, and 02C19P2 for BNAs had low chrysene d12 and/or

perylene d12 internal standard areas. The samples were rerun yielding the same results. The data were accepted.

Chemical analysis for several well samples resulted in values less than the CRDL but greater than the IDL and/or post-digestion spike for the Furnace AA analysis outside the control limits, while sample absorbance was less than 50 percent of spike absorbance. The samples were rerun, yielding the same results. The data were qualified as B for detectables and UB for non-detectables, with values less than the CRDL but greater than the IDL as W for detectables and UW for non-detectables, with post-digestion spike for the Furnace AA analysis outside the control limits, while sample absorbance was less than 50 percent of spike absorbance.

The first round chemical results at the DBG indicated that volatile organics, pesticides/PCBs, BNAs, cyanide, and herbicides were not present in verifiable amounts. Inorganic compounds were detected in verifiable amounts at the DBG.

Second round data

Acetone and methylene chloride were found in concentrations less than the detection limits in several wells and/or associated blanks from the DBG. The data were qualified as BJ for an estimate found in the blank and the sample.

Samples collected from wells 02-02, 02-06, 02C11P2, 02C12P2, 02C12P3, 02C14, 02C14P3, 02C16P2, 02C17, 02C19P2, and 02C22P3 for BNAs had low chrysene d12 and/or perylene-d12 internal standard areas. An attempt to clean-up the extract was made but was not possible. However, the extract for other QC samples was verified.

The matrix spike and matrix spike duplicate BNA samples for well 02C20P3 had high recovery of 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and acenaphthene. The recoveries were remade and monitored to see if a problem existed. The associated data were qualified as an estimate, J for detectables and UJ for non-detectables.

Wells 02C10P3, 02C13, and 02C13P3 had a low 2-fluorobiphenyl recovery for BNA analysis. The recovery was monitored for any problem as the surrogate solution was remade. The surrogate was rerun yielding no detectable problem. The associated data were qualified as an estimate, J for detectables and UJ for non-detectables.

Chemical analysis for several well samples resulted in values less than the CRDL but greater than the IDL and/or post-digestion spike for the Furnace AA analysis outside the control limits, while sample absorbance was less than 50 percent of spike absorbance. The samples were rerun, yielding the same

results. The data were qualified as B for detectables and UB for non-detectables, with values less than the CRDL but greater than the IDL as W for detectables and UW for non-detectables, with post-digestion spike for the Furnace AA analysis outside the control limits, while sample absorbance was less than 50 percent of spike absorbance.

The second round chemical results at the DBG indicated that volatile organics, pesticides/PCBs, BNAs, cyanide, and herbicides were not present in verifiable amounts. Inorganic compounds were detected in verifiable amounts at the DBG.

Third round data

Samples collected from wells 02-01, 02-03, 02-07, 02C11, 02C12P2, 02C14, 02C14P2, 02C14P3, 02C20P2, and 02C20P3 and equipment rinsates R4F and R6F for BNAs had low perylene d12 internal standard areas. The samples were monitored for any problems, yielding none. The associated data were qualified as an estimate, J for detectables and UJ for non-detectables.

The surrogate recovery for well 02C12 was outside the QC limits for 2-luorophenol and/or phenol-d6. The surrogate solution and the matrix spike solution were remade checking for any problem, yielding none. The data were qualified as an estimate, J for detectables and UJ for non-detectables.

Acetone and methylene chloride were found in concentrations less than the detection limits in several wells and/or associated blanks from the DBG. The data were qualified as BJ for an estimate found in the blank and the sample.

The herbicide holding times for the DBG samples were exceeded by 1 to 2 days. Therefore, the data were qualified as an estimate, J for detects and UJ for nondetects.

The third round chemical results at the DBG indicated that volatile organics, pesticides/PCBs, BNAs, cyanide, and herbicides were not present in verifiable amounts. Inorganic compounds were detected in verifiable amounts at the DBG.

Fourth round data

The groundwater analytical data were reviewed and were found to be acceptable. Because organics other than explosives were not detected in significant or verifiable amounts in the first three sampling rounds, they were not monitored in the fourth round (see Part III). Inorganic compounds were detected in verifiable amounts at the DBG.

Summary of Analytical results

All compounds were successfully analyzed, with the exception of those results qualified as unreliable, (R). Some minor quality control deficiencies were observed during the validation process, but they did not affect the overall quality of the data (Appendix E).

The findings offered in this data validation section were based upon all available data including holding times, GC/MS tuning and calibration data, ICP interference check sample, furnace atomic absorption QC, laboratory and field blank results, ICP serial dilution, surrogate spike recoveries, matrix spike/ matrix spike duplicate results, internal standards performance, field duplicate precision, compound identification and quantization, and TIC evaluation.

The quality of this data was assured, first through sample collection verified by nondetects in the field blanks, trip blanks, and equipment blanks, secondly through the comparison of three or four rounds of chemical data, and finally through comparable results of quality assurance and quality control samples and blind sample results.

Analysis of groundwater from three rounds of monitoring wells indicated no significant or verifiable amounts of organic analytes other than explosives. Sulfide and metals were detected at significant levels in a few wells at the DBG in four sampling rounds. Nitrates and nitrites were detected in several DBG wells in the fourth round.

6 Nature and Distribution of Groundwater Contamination

Detected Compounds

Analytical data for the four rounds of sampling of DBG monitoring wells are tabulated in Appendix E. MCL's are listed for each parameter where available (second column). Amounts detected are listed in the other columns. A value preceded by a "<" and succeeded by a "U" was not detected. Other qualifiers following the amount detected are explained in the footnotes of Appendix E. Only inorganic compounds were detected in significant and verifiable amounts at the DBG. Organics including volatiles, semivolatiles (BNAs), explosives, pesticides, herbicides and PCBs were not detected in significant and verifiable quantities.

The presence of metals in groundwater of some of the DBG wells cannot be directly attributed to the dyes and other materials buried at the DBG because the composition of the buried wastes is not sufficiently known. Metals persist in the groundwater of many monitoring wells throughout NSWCC. Certain metals are likely contaminants from the operations or disposal practices within the SWMUs, but may be present in the natural rock and soil as well. Additional background evaluation for metals base-wide is needed.

Statistical and Qualitative Data Evaluation

Selection of methods

Statistical analysis of metals concentrations reported for four rounds of sampling in DBG wells was conducted using the analysis of variance (ANOVA) statistical method suggested by USEPA. Guidance for selecting and applying the statistical analysis was provided in "Statistical Analysis of Groundwater Monitoring Data at RCA Facilities, Interim Final Guidance," April, 1989 (USEPA, 1989). The actual analysis and reporting of results were performed on a personal computer using the Groundwater Information Tracking System/ Statistics (GRITS/STAT) software and manual developed for USEPA by Alliance Technologies Corporation (June, 1992 version) and provided to the author by USEPA Region V (Chicago).

The USEPA recommends the one-way parametric ANOVA statistical analysis method for detection and compliance monitoring data for which more than 50 percent of the values are above the detection limit (DL). The method compares data from detection or compliance (downgradient) wells to data from background (upgradient) wells. Compounds that commonly are present in background wells, for example naturally occurring metals, are most appropriately evaluated using ANOVA. If contamination of the groundwater occurs from facility activities and if the monitoring wells are hydraulically upgradient and downgradient from the activity, then contamination is unlikely to change the levels of a constituent in all wells by the same amount. Contamination from an activity can be seen as differences in average concentration among wells, and such differences can be detected by analysis of variance.

The ANOVA method checks the distribution of the observed data for certain statistical characteristics (normality and equal variance). If the checks fail, an analysis of the log-transformed[1] data is performed and checked. If the tests fail again, a non-parametric analysis of variance is performed to determine the likelihood of contamination of the wells.

Statistical procedures

ANOVA calculates the differences between the average (mean) concentrations in each well (X_i) and the mean concentrations in the background well (X_b), the means having been computed over the N number of sampling periods (in this case, N = 4). It then compares the differences to a statistical, tabulated value, D_i. If the difference (X_i - X_b) is greater than D_i, the method concludes that the "I" th well has significantly higher concentrations than the average background well, and that therefore it is contaminated. The software GRITS/STAT performs all statistical analyses and data normality checks for each selected parameter and prints a report of the analysis. A non-detect reported for a parameter for a sampling round is assigned a value of one-half the detection limit (not zero) by the software for statistical calculations.

Appendix G is a reproduction of selected portions of the Guidance Manual explaining the method selection and analytical techniques for compliance monitoring data. Appendix G also provides a step-by-step example of statistical analysis of a hypothetical group of wells monitored for lead contamination. A typical computer-generated statistical analysis for monitoring wells for metals contamination at the DBG proceeded as follows:

a. A list of all wells of a selected aquifer, the concentrations of all metals reported for the wells in four rounds of sampling, and the sampling dates were first entered into the software's database.

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[1] For log-transformed data, the logarithms of the values, rather than the actual values of the data, are plotted.

b. Background wells were selected for the aquifer. Compliance wells (the remaining sampled wells in the aquifer) were selected.

c. A normality test of the original data was run for each metal to determine that parametric analysis was appropriate. A parametric analysis of variance determines whether differences in mean concentrations among wells are statistically significant. The software performed two tests on the data to determine whether the method was acceptable. The first test was the Shapiro-Francia or the Shapiro-Wilks[2] test on the pooled residuals (the residual was the difference between the actual observation and its predicted value, which was the mean for four rounds). The first test determined whether the values were normally distributed. The second test was Levene's test for variance. If either test failed, the one-way parametric ANOVA test for original data was concluded to be inappropriate for the data. If both tests passed, a parametric ANOVA was conducted and a list of wells with significant evidence of contamination with the selected metal was produced.

d. If either of the original data tests failed, a normality test of the log-transformed data was performed and the tests for normality and variance were run again. Log-transformed data sometimes conform to a normal distribution when the original data do not. If both tests passed, a parametric ANOVA was conducted and a list of probably contaminated wells was produced. If either test failed, the one-way parametric ANOVA for log-transformed data was concluded to be inappropriate, and a non-parametric ANOVA was performed to estimate probability of contamination in the wells.

e. The non-parametric ANOVA test procedure is also called the Kruskal-Wallis test. The non-parametric ANOVA test is appropriate when the data or residuals from a parametric ANOVA are significantly different from normal and a log transformation of the data fails to normalize the data. The procedure tests the hypothesis that all wells or groups of wells around a source area have the same median concentration of a given constituent. If the wells are found to differ, additional comparisons are made to determine if contamination is likely to exist. Observations in each well were ranked to compute the well's Kruskal-Wallis statistic, H, which then was compared to another tabulated value from the Chi-squared (χ^2) distribution. If $H > \chi^2$, the data were not normally distributed, the hypothesis that the wells have the same median concentration of the constituent was rejected, and another test was conducted. The difference between the rank average of each well and the rank average of the background well was computed. If the computed difference was

[2] The Shapiro-Francia test is performed for data with > 50 observations. The Shapiro-Wilks test is performed for data with < 50 observations.

greater than a critical difference calculated for the wells, there was considered to be evidence of contamination in the tested well.

Results of statistical analyses for metals

WES conducted statistical analyses for four DBG aquifers: the Beech Creek limestone, the Golconda\Haney limestone, the lower Pennsylvanian sandstone, and the upper Pennsylvanian sandstone. Analyses were performed on 20 of the 24 metals monitored. Four metals, mercury, silver, thallium, and selenium, were not detected in any samples and were not included in the statistical analyses. Beryllium was not detected in the Beech Creek aquifer wells nor in the upper Pennsylvanian wells, and was not included in the statistical analyses of those aquifers only.

Well cluster 02C10 was selected for background comparison as explained in Part 3 of this report. The 44 wells emplaced for the DBG study were assigned to specific aquifers for the statistical analyses. The resulting populations of wells for the four aquifers were relatively small, especially for the Beech Creek limestone, with six wells, and the upper Pennsylvanian sandstone, with three (non-dry) wells. Well assignments for each aquifer are listed in Table 11.

Because there was a potential for bias in the statistical tests of the small populations, a fifth analysis was run for a population consisting of all of the wells, using the mean of the three wells in cluster 02C10 as background (see page 5-6 of Appendix G). The analysis for all wells was consulted to help compile a list of probable contaminated wells in each aquifer. Table 12 summarizes the statistical results of the five population groups. The shaded cells in the second column of Table 12 indicate that there was a similarity in the analysis for all wells to the analyses for individual aquifers, and that the particular metal probably is a contaminant. Appendix H presents three data printouts from the statistical analyses of three metals in wells of the upper Pennsylvanian aquifer at the DBG (wells 02-01, 02C12P3, and 02C13P3). The three printouts are examples of the ANOVA analysis process used for all of the wells and metals at the DBG. The first analysis illustrates a non-parametric evaluation with no evidence of contamination by antimony. The second represents a parametric evaluation with no evidence of contamination by barium. The third represents a parameteric evaluation with evidence of contamination by potassium in well 02C12P3.

Two classes of metal contaminants are represented in Table 12: metals listed by USEPA for primary maximum contaminant levels (MCL) and metals listed for secondary MCL's (see Table 2 and Part 2. Action Levels). Ten of the 20 detected metals have primary MCL standards. They are antimony, arsenic, barium, beryllium, cadmium, chromium, lead, manganese, nickel, and selenium. The other ten metals have no assigned primary MCL's or have only secondary MCL's. Table 13 lists the metals detected at levels above primary

MCL's in DBG wells. Four metals, antimony, arsenic, copper, and vanadium, were not statistically significant in any of the wells. Copper and antimony were present in quality control blanks at levels comparable to levels in wells, and are suspected to be artifacts (see Appendix F).

Refer to Table 11 for well assignments for each aquifer for the following discussion of the results for specific aquifers.

Lower Pennsylvanian sandstone. The Lower Pennsylvanian sandstone comprises the aquifer most likely to receive contaminants from the dye burial trenches because of its shallow depth and its lateral extent. A brief inspection of Table 12 readily shows that most of the wells with statistically significant levels of metals are in the lower Pennsylvanian aquifer (fifth column of the table). Probable contaminants within the lower Pennsylvanian aquifer include the primary MCL metals beryllium, cadmium, lead, manganese, and nickel. The predominant primary MCL metal occurring in the aquifer was nickel, which was statistically significant in as few as five and as many as nine wells (fifth and second columns of Table 12, respectively). The lower Pennsylvanian aquifer also had several wells with statistically significant levels of the secondary MCL or unlisted primary MCL metals aluminum, calcium, cobalt, and magnesium. Several wells were indicated for barium, potassium, and sodium, but the disagreement between the analysis for all wells and the analysis for individual aquifers for those metals makes their significance suspect. Potassium was also prevalent in blanks in rounds 1 and 4 (Appendix F). Wells 02C11P3 and 02C22P3 had the greatest number of detected metals.

Four primary MCL metals, beryllium, cadmium, nickel, and lead, were detected in the lower Pennsylvanian aquifer at levels above MCL (see Table 13). Nickel was detected above the MCL of 0.1 mg/l in ten of the 17 wells in the aquifer. Nickel was 10 to 18 times the MCL in wells 02-04, 02-06, and 02C11P3. Nickel was detected in all four sampling rounds in six of the ten wells that were above MCL. The other metals above MCL were only slightly above MCL and occurred much less frequently than nickel, with the exception of cadmium, which was as much as twice the MCL on three occasions. Lead was detected at a level slightly above MCL only once.

Beech Creek limestone. The lowermost aquifer monitored, the Beech Creek limestone, had potentially significant levels of the primary MCL metal chromium, perhaps barium, and the secondary MCL metal potassium. There were only two metals sampling events for well 02C12, however, and at least three events are required for statistical analysis. Also, chromium was detected in the rinsate of one of the sampling events. The presence of chromium and its statistical significance in well 02C12 is, therefore, suspect. Well 02C12 in the Beech Creek was the only DBG well indicating (potentially) significant presence of chromium. Chromium was detected twice in the well, at levels of 0.013 and 0.011 mg/l, with a DL=0.005 mg/l. Three Beech Creek wells indicated the presence of barium, but none agreed with the statistical analysis for all wells (see Table 12) and the significance of barium is suspect. All of the

detected levels of barium were less than 0.06 mg/l, with a DL of 0.01 mg/l and an MCL of 2 mg/l.

Golconda/Haney limestone. Two wells in the Golconda/Haney limestone showed statistically significant evidence of primary MCL metals: 02C11P2 for nickel and 02C13 for selenium. Nickel was slightly above the MCL of 0.1 mg/l on all four sampling events in well 02C11P2. Selenium was slightly above the MCL of 0.05 mg/l twice in well 02C13, the only well at the DBG with significant levels of selenium. The Golconda/Haney also showed statistical evidence for the presence of the secondary MCL metals cobalt (one well), potassium (two wells), and sodium (three wells). The sodium data for the aquifer did not agree with the analysis for all wells and is suspect.

Upper Pennsylvanian sandstone. The upper Pennsylvanian aquifer consisted of only six wells, three of which were dry when sampled, and represented a very small well population. The aquifer showed only inconclusive statistical evidence of the presence of the secondary metals potassium and sodium (Table 12). Cadmium was detected once in well 02C12P3 at a level slightly above MCL (Table 13), but was not detected again in the well, and was not statistically significant.

Consensus of statistical evaluations. Seven primary MCL and seven secondary MCL metals, of 24 metals monitored, are present in statistically significant quantities in aquifers at the DBG. Table 14 summarizes the occurrences of the metals in the four monitored aquifers. Metals, particularly the primary MCL metals, occurred as groundwater contaminants predominantly within the lower Pennsylvanian sandstone aquifer. Nickel occurred regularly in the lower Pennsylvanian aquifer at levels above to substantially above the MCL. The deepest aquifer monitored, the Beech Creek limestone, had significant evidence of contamination by chromium in one well, but the evidence is suspect because of the limited number of samples and the presence of chromium in some of the blanks. Forty-five of the 53 occurrences of metals contaminants greater than MCL at the DBG occurred in the lower Pennsylvanian aquifer.

Other metals that were detected in DBG wells but that were not statistically significant are interpreted to be naturally occurring or were detected in quality control blanks or rinsates and are suspected to be artifacts. These metals include antimony, arsenic, perhaps barium, copper, and vanadium.

Tables 15 through 27 list the statistically significant metals by the level detected in each well, with the highest detected levels at the bottom.

The seep. The seep at approximate elevation 663 ft (see Plates 3 and 6) was sampled once in June 1988. Several metals were detected in the sediment and water of the seep. Results of the analyses are not directly comparable to the RFI sampling results because the 1988 samples were for total (unfiltered)

metals and the RFI samples were for filtered metals. The results of the 1988 analyses are summarized in 28 for reference.

Evaluation of other parameters

Other inorganics. Nitrates and nitrites (as nitrogen) were sampled in the fourth round at the DBG. Nitrates, with a DL of 0.02 mg/l, were detected in 23 of the 38 wells sampled. There was no field blank available for nitrates/ nitrites, but a rinsate was collected. No nitrates were detected in the rinsate. Five wells had detected levels of nitrates higher than 1.0 mg/l, and well 02C18 had a level of 10.6 mg/l, which is above the MCL of 10.0 mg/l.

Nitrites were detected in 33 of the 38 wells but were also detected in the rinsate. All detected levels of nitrite except that in well 02C20P2 were less than 5 times the level in the rinsate and are suspect. The level in 02C20P2 was 0.106 mg/l, well below the MCL of 1.0 mg/l.

Cyanides and sulfides were monitored in rounds 1 through 3. Cyanides were not detected. Sulfides were detected in 14 wells, but more than once in only two wells, 02C18 (Golconda/Haney limestone) and 02C13P2 (lower Pennsylvanian sandstone). The highest detected concentration was 0.249 mg/l in well 02-07 in Round 3. Most detected amounts were less than 0.10 mg/l. There is no MCL for sulfide.

Groundwater pH. The sampling crew measured and recorded the pH of the groundwater prior to sampling each well during the four rounds of sampling. The field-measured values of pH are listed in the sixth column of the table in Appendix D. There was a marked difference in average pH in wells of the sandstone and the limestone aquifers. Table 29 presents the mean pH of all sampling rounds for each well by aquifer, and the mean pH for each aquifer. The two limestone aquifers recorded average pH's of over 8 (basic). Mean values of pH as high as 12.27 were recorded for individual wells. The two sandstone aquifers recorded average pH's of less than 7 (acidic), with the lower average in the lower Pennsylvanian sandstone. Values of mean pH as low as 4.28 were recorded for individual wells.

Groundwater investigations at the Rockeye SWMU, at which Pennsylvanian sandstones also form the uppermost aquifers, indicated a direct correspondence between pH in a well and the level of metals within the well (low, or acidic, pH was accompanied by relatively high levels of many metals) (Murphy and Wade, 1993). The Rockeye investigation concluded that the low pH condition of the groundwater in some Rockeye wells might be caused by the production of acids by oxidation of sulfide minerals within the Pennsylvanian sandstones. The well population at the DBG is considerably smaller than that at the Rockeye Facility, but a similar relationship may exist at the DBG. Wells 02C11P3 and 02C22P3 of the lower Pennsylvanian sandstone aquifer had the highest number and many of the highest detected levels of statistically significant metals at DBG wells

(see Table 12 and Tables 15-27). The two wells also had the lowest mean pH levels of all wells (4.28 for well 02C11P3 and 5.49 for well 02C22P3, Table 29). However, lower Pennsylvanian sandstone wells 02-04 and 02-06 also had frequent high levels of some metals, but had somewhat higher mean pH's than 02C11P3 and 02C22P3. The background well 02C10P3 had a mean pH below 6, but did not have particularly high levels of metals. Lower Pennsylvanian wells in general, including 02-06 with a mean pH of 6.50, had the higher detected levels of metals within the entire DBG well population. The population of wells at the DBG is perhaps too small, and the relationship between pH and detected levels of metals too inconsistent, to conclude that high levels of metals are a result of low pH in the groundwater, or that the metals are natural, not site-produced, contaminants. The lower average pH of the lower Pennsylvanian groundwater, however, is considered to have intensified the levels of some metals contaminants detected there.

Distribution of Contaminants

Analysis of four rounds of groundwater sampling in DBG monitoring wells indicated that only inorganic compounds, particularly metals, were present in significant and verifiable amounts. The inorganics were detected in all four aquifers monitored in the DBG study area.

Metals occurred most frequently and at generally higher levels in the lower Pennsylvanian sandstone aquifer. Significant primary MCL metals in the aquifer were nickel, beryllium, cadmium, lead, and manganese, with nickel consistently above MCL. Secondary metals included aluminum, calcium, cobalt, and magnesium. The greater frequency and levels of detection of metals occurred in wells 02C11P3 and 02-04 on the southwest end of the DBG and in well 02-06 on the northeast end, but also in well 02C22P3, which is located more than a thousand feet to the southeast of the DBG near an access road (see Figure 3).

Figures 21 through 30 are a series of maps depicting the distribution of the significant metals in wells of the lower Pennsylvanian aquifer. The maps show contours of the mean concentration of each metal computed over the four sampling periods for each well. The contours were computer-drawn using an inverse-distance-squared algorithm, wherein the influence of a well value decreases as the inverse of the square of the distance from the well to the contour grid node. Figure 21 is a key map showing well designations for the contour maps. The maps emphasize the preference of higher concentrations of most metals in wells 02C11P3, 02-04, 02-06, and 02C22P3 (closed contours with hachures indicate comparatively low concentrations). The first three of these wells are located near the burial trenches and are potentially susceptible to infiltration of leachate from the trenches. Well 02C22P3 is separated from the burial grounds by a considerable distance, as stated above. Figure 19, the piezometric surface contour map for the lower Pennsylvanian aquifer, indicates

that well 02C22P3 is not downgradient of the burial trenches. If the dye burial trenches are the source of metals contaminants within the lower Pennsylvanian aquifer, it is difficult to explain the relatively high levels in well 02C22P3 unless there exists a condition of anisotropy in the rock that would allow groundwater to flow locally counter to the average gradient. Such an anisotropy might take the form of natural fractures within the rock.

It is also difficult to explain the presence of metals contaminants, particularly the high levels of nickel, for example, in the dye burial trenches because the detected metals are not known to be components of the materials buried. The dyes buried in the trenches are probably complex mixtures of organic compounds (see the abbreviated list in Part 1 of this report, the section describing the operational history of the DBG). Some metals comprise portions of the smoke materials used in munitions, but it is not known that the smoke materials were buried at the DBG. The geophysical survey conducted at the Dye Burial Grounds in 1991 identified several anomalies attributable to metallic objects, suspected to consist in part of steel drums, below ground in the vicinity of the burial grounds. The presumed metallic anomalies may be contributing to the presence of elevated metals in the groundwater.

The second most frequent significant occurrences of metals occurred in the Golconda/Haney limestone aquifer, which underlies the lower Pennsylvanian sandstone (see Tables 13 and 14). Nickel occurred at levels slightly above MCL in all four sampling periods in well 02C11P2, which is vertically beneath well 02C11P3 of the lower Pennsylvanian sandstone and which was well above MCL for nickel on four occasions. The only other primary MCL metal occurring in the Golconda/Haney was selenium in well 02C13, which is located north and upgradient of the DBG (see Figure 17).

Metals contamination probably does not extend as deep as the Beech Creek limestone beneath the DBG. The presence of chromium in well 02C12 of the aquifer was suspect for reasons stated earlier. The consensus is that groundwater contamination at the DBG consists only of metals and is most pronounced in the shallow lower Pennsylvanian water table (unconfined) aquifer. Groundwater contours within the lower Pennsylvanian aquifer indicate that flow is to the southwest, toward Little Sulphur Creek. The presence of elevated metals in well 02C22P3, however, suggests that there may be a component of flow to the southeast, at least locally.

There is some uncertainty in linking the presence of metals in the groundwater to activities at the Dye Burial Grounds. Acidic pH in some wells that were also high in certain metals may have exacerbated the presence of metals. Acidic pH in the sandstones is probably a natural phenomenon, but some of the metals, like nickel, are not known to be naturally occurring in the rock beneath the NSWC Crane. Finally, the distribution of metals within the aquifers is not necessarily coincident with the proximity of the wells to the dye burial trenches.

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7 Conclusions and Recommendations

Conclusions

Hydrogeology

a. Groundwater flow is primarily to south and southwest in the vicinity of the Dye Burial Grounds. The Mississippian Big Clifty/Beech Creek aquifer was the deepest aquifer monitored for the Dye Burial Grounds investigation. In ascending order, other aquifers monitored were the Mississippian Golconda/Haney limestone and two aquifers in the Pennsylvanian Mansfield sandstone.

b. The lower three aquifers are hydraulically separated by shales. The upper aquifer is a perched zone of limited areal extent separated only locally from the next lower aquifer by a discontinuous wedge of fine-grained sediments.

c. The lower of the two Mansfield sandstone aquifers was the aquifer most susceptible to infiltration of contaminants at the Dye Burial Grounds. Flow in the lower sandstone aquifer is unconfined and is to the south and southwest, generally toward the valley of Little Sulphur Creek.

d. Groundwater flow is through joints in the rock aquifers and also through connected intergranular pore spaces in some of the sandstones, particularly in the lower Pennsylvanian sandstone aquifer.

e. Surface runoff from the Dye Burial Grounds is to the southwest, ultimately into Little Sulphur Creek. A seep of groundwater issuing from the slope southwest of the Dye Burial Grounds at the elevation of the base of the lower Pennsylvanian sandstone flows intermittently during the year.

Groundwater quality

a. Groundwater was sampled in four rounds from 38 of 43 wells installed in the Dye Burial Grounds vicinity. Laboratory analysis was conducted for organic compounds, including explosives, in the first three rounds, and for inorganics in all four rounds.

b. Only inorganic compounds, particularly metals, were present in significant and verifiable amounts in the water samples. Organic compounds indicative of dyes were not detected. Metals occurred most frequently and at higher levels in the lower Pennsylvanian sandstone aquifer.

c. Significant primary MCL metals in the lower Pennsylvanian sandstone aquifer were nickel, beryllium, cadmium, lead, and manganese. Nickel was consistently above MCL.

d. The deepest aquifer, the Big Clifty/Beech Creek, is probably not contaminated. The presence of chromium in one deep aquifer well is suspect. The Golconda/Haney limestone and the upper Pennsylvanian sandstone showed evidence for contamination by fewer metals and generally at lower levels than that of the lower Pennsylvanian sandstone.

e. There is some uncertainty in linking the presence of metals in the groundwater to activities at the Dye Burial Grounds. Anomalously low (acidic) pH in some wells that were also high in certain metals may have exacerbated the presence of metals. Acidic pH in the sandstones is probably a natural phenomenon, but some of the metals, like nickel, are not known to be naturally occurring in the rock beneath the NSWC Crane. Finally, the distribution of metals within the aquifers is not necessarily coincident with the proximity of the wells to the dye burial trenches.

Recommendations

a. Groundwater monitoring of Dye Burial Grounds wells should continue for metals only. Monitoring should include water obtained from the seep southwest of the Dye Burial Grounds, if the seep is flowing at the time of sampling.

b. A remedial action for the Dye Burial Grounds is in progress. It consists of design and installation of a permanent RCA cap to cover the burial trenches. NSWC Crane should proceed with that remedial action.

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Table 1
Examples of Concentrations Meeting Criteria for Action Levels (Federal Register, 1990)

Constituent Name	Class	Air(ug/m^3)	Water (mg/L)	Soils (mg/kg)
Acetone	D		4E-00	8E+03
Acetonitrile	D		2E-01	5E+02
Acetophenone	D	2E-01	4E-00	8E+03
Acrylamide	B2	8E-04	8E-06	2E-01
Acrylonitrile	B1	1E-02	6E-05	1E-00
Aldicarb	D		5E-02	1E+02
Aldrin	B2	2E-04	2E-06	4E-02
Allyl alcohol	D		2E-01	4E+02
Aluminum phosphide	D		1E-02	3E+01
Aniline	B2		6E-03	1E+02
Antimony	D		1E-02	3E+01
Arsenic	A	7E-05	(1)	8E+01
Asbestos(2)	A	2E-02		
Barium cyanide	D		2E-00	6E+03
Barium, ionic	D	4E-01	(1)	4E+03
Benzidine	A	2E-05	2E-07	3E-03
Beryllium	B2	4E-04	8E-06	2E-01
Bis(2-ethylhexyl)phthlate	B2		3E-03	5E+01
Bis(chloroethyl)ether	B2	3E-03	3E-05	6E-01
Bromodichloromethane(3)	B2		3E-05	5E-01
Bromoform(3)	D		7E-01	2E+03
Bromomethane	D	3E+01	5E-02	1E+02
Butyl benzyl phthalate	C		7E-00	2E+04
Cadmium	B1	6E-04	(1)	4E+01
Calcium cyanide	D		1E-00	3E+03
Carbon disulfide	D		4E-00	8E+03
Carbon tetrachloride	B2	3E-02	3E-04	5E-00
Chloral	D		7E-02	2E+02
Chlordane	B2	3E-03	3E-05	5E-01
Chlorine cyanide	D		2E-00	4E+03

(Sheet 1 of 5)

1 MCL available; see Appendix B.
2 The air action level for asbestos is measured in units of fibers/mililiters.
3 There is an MCL for total trihalomethanes, which includes four constituents: bromoform, bromodichloromethane, chloroform, and dibromochloromethane. Concentration derived using exposure assumptions in Appendix D and reference doses for systemic toxicants and verified risk-specific doses at 10-6 for Class A and B carcinogens and 10-5 for Class C carcinogens (see section VI.F.2.6 for further discussion). A, B and C represents Class A, B and C carcinogens, respectively, D represents a systemic toxicant.

Table 1 (Continued)

Constituent Name	Class	Air(ug/m^3)	Water (mg/L)	Soils (mg/kg)
Chlorobenzene	D	2E+01	7E-01	2E+03
Chloroform[3]	B2	4E-02	6E-03	1E+02
2-Chlorophenol	D		2E-01	4E+02
Chromium (VI)	A	9E-05	[1]	4E+02
Copper cyanide	D		2E-01	4E+02
m-Cresol	D		2E-00	4E+03
o-Cresol	D		2E-00	4E+03
p-Cresol	D		2E-00	40+03
Cyanide	D		7E-01	2E+03
Cyanogen	D		1E-00	3E+03
Cyanogen bromide	D		3E-00	7E+03
DDD	B2		1E-04	3E-00
DDE	B2		1E-04	2E-00
DDT	B2	1E-02	1E-04	2E-00
Dibutyl phthalate	D		4E-00	8E+03
Dibutylnitrosamine	B2	6E-04	6E-06	1E-01
3,3'-Dichlorobenzidine	B2		8E-05	2E-00
Dichlorodiffluoromethane	D	2E+02	7E-00	2E+04
1,2-Dichloroethane	B2	4E-02	[1]	8E-00
1,1-Dichtoroethylene	C	3E-02	[1]	1E+01
2,4-Dichlorophenol	D		1E-01	2E+02
2,4-Dichorophenoxyacetic acid	D		4E-01	8E+02
1,3-Dichloropropene	B2		1E-02	2E+01
Dieldrin	B2	2E-04	2E-06	4E-02
Diethyl phthalate	D		3E+01	6E+04
Diethylnitrosamine	B2	2E-05	2E-07	5E-03
Dimethoate	D		7E-01	2E+03
Dimethylnitrosamine	B2	7E-05	7E-07	1E-02
m-Dinitrobenzene	D		4E-03	8E-00
2,4 Dinitrophenol	D		7E-02	2E+02
2,3-Dinitrotoluene (and 2,6-,mixture)	B2		5E-05	1E-00
1,4-Dioxane	B2		3E-03	6E+01
Diphenylamine	D		9E-01	2E+03
1,2-Diphenylhydrazine	B2	4E-03	4E-05	9E-01
Disulfoton	D		1E-03	3E-00
Endosulfan	D		2E-03	4E-00
Endothall	D		7E-01	2E+03

Table 1 (Continued)

Constituent Name	Class	Air(ug/m^3)	Water (mg/L)	Soils (mg/kg)
Endrin	D		(1)	2E+01
Epichlorohydrin	B2	8E-01	4E-03	7E+01
Ethylbenzene	D		4E-00	8E+03
Ethylene dibromide	B2	5E-03	4E-07	8E-03
Formaldehyde	B1	8E-02		
Formic acid	D		7E+01	2E+05
Glycidyaldehyde	D		1E-02	3E+01
Heptachlor	B2	8E-04	8E-06	2E-01
Heptachlor epoxide	B2	4E-04	4E-06	8E-02
Hexachlordibenzo-p-dioxin	B2	6E-07	1E-08	1E-04
Hexachlorobutadiene	C	4E-01	4E-03	9E+01
alpha-Hexachlorocyclohexane	B2	6E-04	6E-06	1E-01
beta-Hexachlorocyclohexane	C	2E-02	2E-04	4E-00
Hexachlorocyclopentadiene	D	7E-02	2E-01	6E+02
Hexachloroethane	C	3E-00	3E-02	8E+01
Hexachlorophene	D		1E-02	2E+01
Hydrazine	B2	2E-04	1E-05	2E-01
Hydrogen cyanide	D		7E-01	2E+03
Hydrogen sulfite	D		1E-01	2E+02
Isobutyl alcohol	D		1E+01	2E+04
Isophorone	C		9E-02	2E+03
Lead	B2		(1)	
Lindane (gamma-hexachlorocyclohexane)	B2/C		(1)	5E-01
m-Phenylenediamine	D		2E-01	5E+02
Maleic anhydride	D		4E-00	8E+03
Maleic hydrazide	D		2E+01	4E+04
Mercury (inorganic)	D		(1)	2E+01
Methacrylonitrile	D	7E-01	4E-03	8E-00
Methomyl	D		9E-01	2E+03
Methyl chlorocarbonate	D			
Methyl ethyl ketone	D	3E+02	2E-00	4E+03
Methyl isobutyl ketone	D	7E+01	2E-00	4E+03
Methyl parathion	D		9E-03	2E+01
Methylene chloride	B	3E-01	5E-03	9E+01
n-Nitroso-di-n-butylamine	B2	6E-04	6E-06	1E-01
n-Nitroso-n-ethylurea	B			
n-Nitroso-n-methylethylamine	B2		2E-06	3E-02

(Sheet 3 of 5)

Table 1 (Continued)

Constituent Name	Class	Air(ug/m^3)	Water (mg/L)	Soils (mg/kg)
n-Nitrosodi-n-propylamine	B2		5E-06	1E-01
n-Nitrosodiethanolamine	B2		1E-05	3E-01
n-Nitrosodiphenylamine	B2		7E-03	1E+02
n-Nitrosopyrrolidine	B2	2E-03	2E-05	3E-01
Nickel	D		7E-01	2E+03
Nickel refinery dust	A	4E-03		
Nitric oxide	D		4E-00	8E+03
Nitrobenzene	D	2E-00	2E-02	4E+01
Nitrogen dioxide	D		4E+01	8E+04
Osmium tetroxide	D		4E-04	8E-01
Parathion	C		2E-01	5E+02
Pentachlorobenzene	D		3E-02	6E+01
Pentachloronitrobenzene	C	1E-01	1E-01	2E+02
Pentachlorophenol	D		1E-00	2E+03
Phenol	D		2E+01	5E+04
Phenyl mercuric acetate	D		3E-03	6E-00
Phosphine	D		1E-02	2E+01
Phthalic anhydride	D		7E+01	2E+05
Polychlorinated biphenyls	B2		5E-06	9E-02
Potassium cyanide	D		2E-00	4E+03
Potassium silver cyanide	D		7E-00	2E+04
Pronamide	D		3E-00	6E+03
Pyridine	D		4E-02	8E+01
Selenious acid	D		1E-01	2E+02
Selenourea	D		2E-01	4E+02
Silver	D		(1)	2E+02
Silver cyanide	D		4E-00	8E+03
Sodium cyanide	D		1E-00	3E+03
Strychnine	D		1E-02	2E+01
Styrene	C		7E-00	2E+04
1,1,1,2-Tetrachlorethane	C	1E-00	1E-02	3E+02
1,2,4,5-Tetrachlorobenzene	D		1E-02	2E+01
1,1,1,2-Tetrachloroethane	C	1E-00	1E-02	3E+02
1,1,2,2-Tetrachloroethane	C	2E-01	2E-03	4E+01
Tetrachloroethylene	B2	1E-00	7E-04	1E+01
2,3,4,6-Tetrachlorophenol	D		1E-00	2E+03
Tetraethyl lead	D		4E-06	8E-03

(Sheet 4 of 5)

Table 1 (Concluded)

Constituent Name	Class	Air(ug/m^3)	Water (mg/L)	Soils (mg/kg)
Tetraethyldithiopyrophosphate	D		2E-02	4E+01
Thallic oxide	D		2E-03	6E-00
Thallium acetate	D		3E-03	7E-00
Thallium carbonate	D		3E-03	6E-00
Thallium chloride	D		3E-03	6E-00
Thallium nitrate	D		3E-03	7E-00
Thallium sulfate	D		3E-03	6E-00
Thiosemicarbazide	D		2E-01	5E+02
Tairam	D		2E-01	4E+02
Toluene	D	7E+03	1E+01	2E+04
Toxaphene	B2	3E-03	(1)	6E-01
1,2,4-Trichlorobenzene	D	1E+01	7E-01	2E+03
1,1,1-Trichloroethane	D	1E+03	3E-00	7E+03
1,1,2-Trichloroethane	C	6E-01	6E-03	1E+02
Trichloroethylene	B2		(1)	6E+01
Trichloromonofluoromethane	D	7E+02	1E+01	2E+04
2,4,5-Trichlorophenol	D		4E-00	8E+03
2,4,6-Trichlorophenol	B2	2E-01	2E-03	4E+01
2,4,5-Trichlorophenoxyacetic acid	D		(1)	8E+02
1,2,3-Trichloropropane	D		2E-01	5E+02
Vanadium pentoxide	D		3E-01	7E+02
Xylenes	D	1E+03	7E+01	2E+05
Zinc cyanide	D		2E-00	4E+03
Zinc phosphide	D		1E-02	2E+01

(Sheet 5 of 5)

Table 2
Maximum Contaminant Levels (MCL) for Drinking Water (April, 1992)

Chemicals	Status[1] Reg.	MCLG (mg/l)	MCL (mg/l)	Sampled, SWMU 03
Organics				
Acrylamide	F	zero	TT[2]	
Acrylonitrile	L			X
Adipates (diethylhexyl)	P	.5	.5	
Alachlor	F	zero	0.002	
Aldicarb	F	0.001	0.003	
Aldicarb sulfone	F	0.001	0.002	
Aldicarb sulfoxide	F	0.001	0.004	
Atrazine	F	0.003	0.003	
Bentazon	L			
Benzo(a)anthracene (PAH)	P	zero	0.0001	
Benzene	F	zero	0.005	X
Benzo(a)pyrene (PAH)	P	zero	0.0002	
Benzo(b)fluoranthene (PAH)	P	zero	0.0002	
Benzo(k)fluoranthene (PAH)	P	zero	0.0002	
Bromacil	L			
Bromobenzene	L			
Bromochloroacetonitrile	L			
Bromodichloromethane (THM)	L		0.1	X
Bromoform (THM)	L		0.1	X
Bromomethane	L			X
Butyl benzyl phthalate (PAE)	P	zero	0.1	
Carbofuran	F	0.04	0.04	
Carbon Tetrachloride	F	zero	0.005	X
Chloral hydrate	L			
Chlordane	F	zero	0.002	
Cholorodibromomethane (THM)	L		0.1	
Chloroethane	L			X
Chloroform (THM)	L		0.1	X
Chloromethane	L			X
Chloropicrin	L			
Chlorotoluene o-	L			
Chlorotoluene p-	L			

(Sheet 1 of 5)

[1] F = Final, L = Listed for regulation, and P = Proposed.
[2] TT = Treatment technique.

Table 2 (Continued)

Chemicals	Status[1] Reg.	MCLG (mg/l)	MCL (mg/l)	Sampled, SWMU 03
Organics (Continued)				
Chrysene (PAH)	P	zero	0.0002	
Cyanazine	L			
Cyanogen chloride	L			
2,4-D	F	0.07	0.07	
DCPA (Dacthal)	L			
Dalapon	P	0.2	0.2	
Di[2-ethylhexyl]adipate	P	0.4	0.4	
Dibenzo(a,h)anthracene (PAH)	P	zero	0.0003	
Dibromoacetonitrile	L			
Dibromochloropropane (DBCP)	F	zero	0.0002	
Dibromomethane	L			
Dicamba	L			
Dichloroacetaldehyde	L			
Dichloroacetic acid	L			
Dichloroacetonitrile	L			
Dichlorobenzene p-	F	0.075	0.075	
Dichlorobenzene o-,m-	L	0.6	0.6	
Dichlorodifluoromethane	L			
Dichloroethane (1,1-)	L			X
Dichloroethane (1,2-)	F	zero	0.005	X
Dichloroethylene (1,1-)	F	0.007	0.007	X
Dichloroethylene (cis-1,2-)	F	0.07	0.07	
Dichloroethylene (trans-1,2-)	F	0.1	0.1	X
Dichloromethane (methylene chloride	P	zero	0.005	
Dichloropropane (1,2-)	F	zero	0.005	X
Dichloropropane (1,3-)	L			
Dichloropropane (2,2-)	L			
Dichloropropene (1,1-)	L			
Dichloropropene (1,3-)	L			X
Diethylhexyl phthalate (PAE)	P	zero	0.004	
Dinitrotoluene (2,4-)	L			
Dinitrotoluene (2,6-)	L			
Dinoseb	P	0.007	0.007	
Diquat	P	0.02	0.02	
Endothall	P	0.1	0.1	
Endrin	P	0.002	0.002	
Epichlorohydrin	F	zero	TT	

(Sheet 2 of 5)

Table 2 (Continued)

Chemicals	Status[1] Reg.	MCLG (mg/l)	MCL (mg/l)	Sampled, SWMU 03
Organics (Continued)				
Ethylbenzene	F	0.7	0.7	X
Ethylene dibromide (EDB)	F	zero	0.00005	
ETU	L			
Fluorotrichloromethane	L			
Glyphosate	P	0.7	0.7	
Heptachlor	F	zero	0.0004	
Heptachlor epoxide	F	zero	0.0002	
Hexachlorobenzene	P	zero	0.001	
Hexachlorobutadiene	L			
Hexachlorocyclopentadiene	P	0.05	0.05	
Hexachloroethane	L			
Hypochlorite	L			
Indeno(1,2,3,-c,d)pyrene (PAH)	P	zero	0.0004	
Isophorone	L			
Lindane	F	0.0002	0.0002	
Methomyl	L			
Methoxychlor	F	0.04	0.04	
Methyl ethyl ketone	L			
Methyl tert butyl ether	L			
Metolachlor	L			
Metribuzin	L			
Monochloroacetic acid	L			
Monochlorobenzene	F	0.1	0.1	
Oxamyl (Vydate)	P	0.2	0.2	
Ozone by-products	L			
Pentachlorophenol	F	zero	0.001	
Picloram	P	0.5	0.5	
Polychlorinated biphenyls (PCBs)	F	zero	0.0005	
Prometon	L			
Simazine	P	0.004	0.004	
Styrene	F	0.1	0.1	X
2,4,5-T	L			
2,3,7,8-TCDD (Dioxin)	P	zero	$5X10^{-8}$	
Tetrachloroethane (1,1,1,2-)	L			
Tetrachloroethane (1,1,2,2-)	L			X
Tetrachloroethylene	F	zero	0.005	X
Toluene	F	1	1	X

(Sheet 3 of 5)

Table 2 (Continued)

Chemicals	Status[1] Reg.	MCLG (mg/l)	MCL (mg/l)	Sampled, SWMU 03
Organics (Continued)				
Toxaphene	F	zero	0.003	
2,4,5-TP	F	0.05	0.05	
Trichloroacetic acid	L			
Trichlroacetonitrile	L			
Trichlorobenzene (1,2,4-)	P	0.007	0.007	
Trichloroethane (1,1,1-)	F	0.2	0.2	X
Trichloroethane (1,1,2-)	P	0.003	0.005	X
Trichloroethanol (2,2,2-)	L			
Trichlorethylene	F	zero	0.005	X
Trichlorophenol (2,4,6-)	L			
Trichloropropane (1,2,3-)	L			
Trifluralin	L			
Vinyl chloride	F	zero	0.002	X
Xylenes	F	10	10	X
Inorganics				
Aluminum	L			
Antimony	P	0.003	0.01/0.005	
Arsenic	under rev.		0.05	X
Asbestos (fibers > 10um)	F	7 MFL	7 MFL	
Barium	F	2	2	X
Beryllium	P	zero	0.001	
Boron	L			
Cadmium	F	0.005	0.005	X
Chloramine	L			
Chlorate	L			
Chlorine	L			
Chlorine dioxide	L			
Chlorite	L			
Chromium (total)	F	0.1	0.1	X
Copper	P	1.3	TT action level 1.3	
Cyanide	P	0.2	0.2	
Fluoride (under review)	F	4	4	X
Lead (at tap)	F	zero	TT action level 0.015	X
Mercury	F	0.002	0.002	X
Molybdenum	L			

(Sheet 4 of 5)

Table 2 (Concluded)

Chemicals	Status[1] Reg.	MCLG (mg/l)	MCL (mg/l)	Sampled, SWMU 03
Inorganics (Continued)				
Nickel	P	0.1	0.1	
Nitrate (as N)	F	10	10	X
Nitrite (as N)	F	1	1	
Nitrate + Nitrite (both as N)	F	10	10	
Selenium	F	0.05	0.05	X
Strontium	L			
Sulfate	P	400/500	400/500	X
Thallium	P	0.0005	0.002/0.001	
Vanadium	L			
Zinc	L			

(Sheet 5 of 5)

Table 3
Monitoring Well Data for SWMU 02/11 Dye Burial Grounds

Well Number	Date Installed	Depth from TOC (ft)	Elevation TOC (ft NGVD)	Elevation Screen Top (ft NGVD)	Elevation Screen Bottom (ft NGVD)	Aquifer
02-01	26-Aug-81	33	740.85	722.65	713.05	UPPER PENN.
02-02	02-Sep-81	57.5	727.67	684.97	675.37	LOWER PENN.
02-03	03-Sep-81	68.6	722.38	668.18	659.08	UPPER HARD-INSBURG SH
02-04	04-Sep-81	53.5	719.02	680.12	670.92	LOWER PENN.
02-05	05-Sep-81	68	741.28	688.08	678.58	LOWER PENN.
02-06	23-Sep-81	68	738.67	685.17	675.87	LOWER PENN.
02-07	24-Sep-81	60.3	730.86	685.06	676.86	LOWER PENN.
02-08	25-Sep-81	63.1	732.22	683.32	676.06	LOWER PENN.
02C09	23-Jan-87	180.5	740.36	570.86	560.86	BEECH CREEK
02C09P2	26-Jan-87	100	740.66	646.16	641.16	GOLCONDA
02C10	13-Feb-88	155.5	716.47	571.97	561.97	BEECH CREEK
02C10P2	16-Feb-88	75	716.39	652.39	642.39	GOLCONDA
02C10P3	22-Feb-88	40.2	716.36	682.16	677.16	LOWER PENN.
02C11	29-Feb-88	161.5	715.31	564.81	554.81	BEECH CREEK
02C11P2	02-Mar-88	83.3	715.36	643.06	633.06	GOLCONDA
02C11P3	05-Mar-88	44.8	715.66	676.86	671.86	LOWER PENN.
02C12	14-Mar-88	185.1	741.57	567.47	557.47	BEECH CREEK
02C12P2	21-Mar-88	106.7	741.82	646.12	636.12	GOLCONDA
02C12P3	18-Mar-88	37.5	741.83	710.33	705.33	UPPER PENN.
02C13	28-Mar-88	82.8	725.11	653.31	643.31	GOLCONDA
02C13P2	29-Mar-88	46.5	724.78	688.28	678.28	LOWER PENN.
02C13P3	30-Mar-88	22.5	725.51	708.01	703.01	UPPER PENN.
02C14	13-Apr-88	167.4	716.4	560.00	550.00	BEECH CREEK
02C14P2	15-Apr-88	87.9	716.43	639.53	629.53	GOLCONDA
02C14P3	19-Apr-88	50.6	716.26	676.66	666.66	LOWER PENN.
02C15	10-May-88	79.8	715.88	647.08	637.08	GOLCONDA
02C15P2	11-May-88	42.7	715.77	684.07	674.07	LOWER PENN.
02C16	16-May-88	92.1	725.36	644.26	634.26	GOLCONDA
02C16P2	17-May-88	57	725.18	679.18	669.18	LOWER PENN.
02C17	23-May-88	99.6	732.96	644.36	634.46	GOLCONDA
02C17P2	26-May-88	63.2	732.84	680.64	670.64	LOWER PENN.

(Continued)

Table 3 (Concluded)

Well Number	Date Installed	Depth from TOC (ft)	Elevation TOC (ft NGVD)	Elevation Screen Top (ft NGVD)	Elevation Screen Bottom (ft NGVD)	Aquifer
02C17P3	27-May-88	28.1	733.38	710.28	705.28	UPPER PENN.
02C18	06-Jun-88	101.8	737.31	646.51	636.51	GOLCONDA
02C18P2	07-Jun-88	65.9	737.24	682.34	672.34	LOWER PENN.
02C18P3	07-Jun-88	21	737.45	721.95	716.95	UPPER PENN.
02C19	14-Jun-88	93.7	733.35	650.65	640.65	GOLCONDA
02C19P2	15-Jun-88	59.1	733.28	685.18	675.18	LOWER PENN.
02C19P3	16-Jun-88	19.2	733.63	720.43	715.43	UPPER PENN.
02C20	29-Jun-88	148.2	715.06	580.35	570.36	BEECH CREEK
02C20P2	22-Jun-88	69.5	714.92	656.42	646.42	GOLCONDA
02C20P3	23-Jun-88	41.5	714.78	684.28	674.28	LOWER PENN.
02C22	15-Oct-90	189.2	742.99	563.79	553.79	BEECH CREEK
02C22P2	17-Oct-90	107.5	742.63	640.13	635.13	GOLCONDA
02C22P3	18-Oct-90	71.1	742.5	681.40	671.40	LOWER PENN.

Table 4
Survey Data for Dye Burial Grounds Monitoring Wells

Well Number	Date Installed	East Coordinate (ft State Plane)	North Coordinate (ft State Plane)	Elevation TOC (ft NGVD)
02-01	26-Aug-81	596,550	491,383	740.85
02-02	02-Sep-81	596,074	491,143	727.67
02-03	03-Sep-81	595,916	491,058	722.38
02-04	04-Sep-81	595,915	490,919	719.02
02-05	05-Sep-81	596,645	491,491	741.28
02-06	23-Sep-81	596,385	491,297	738.67
02-07	24-Sep-81	596,233	491,191	730.86
02-08	25-Sep-81	596,224	491,092	732.22
02C09	23-Jan-87	597,056	491,331	740.36
02C09P2	26-Jan-87	597,056	491,331	740.66
02C10	13-Feb-88	596,142	491,789	716.47
02C10P2	16-Feb-88	596,142	491,789	716.39
02C10P3	22-Feb-88	596,142	491,789	716.36
02C11	29-Feb-88	595,829	490,987	715.31
02C11P2	02-Mar-88	595,829	490,987	715.36
02C11P3	05-Mar-88	595,829	490,987	715.66
02C12	14-Mar-88	596,670	491,496	741.57
02C12P2	21-Mar-88	596,670	491,496	741.82
02C12P3	18-Mar-88	596,670	491,496	741.83
02C13	28-Mar-88	596,436	491,692	725.11
02C13P2	29-Mar-88	596,436	491,692	724.78
02C13P3	30-Mar-88	596,436	491,692	725.51
02C14	13-Apr-88	595,964	490,671	716.40
02C14P2	15-Apr-88	595,964	490,671	716.43
02C14P3	19-Apr-88	595,964	490,671	716.26
02C15	10-May-88	595,880	491,186	715.88
02C15P2	11-May-88	595,880	491,186	715.77
02C16	16-May-88	596,177	490,893	725.36
02C16P2	17-May-88	596,177	490,893	725.18

(Continued)

Table 4 (Concluded)

Well Number	Date Installed	East Coordinate (ft State Plane)	North Coordinate (ft State Plane)	Elevation TOC (ft NGVD)
02C17	23-May-88	596,473	491,022	732.96
02C17P2	26-May-88	596,473	491,022	732.84
02C17P3	27-May-88	596,473	491,022	733.38
02C18	06-Jun-88	596,611	491,103	737.31
02C18P2	07-Jun-88	596,611	491,103	737.24
02C18P3	07-Jun-88	596,611	491,103	737.45
02C19	14-Jun-88	596,225	491,338	733.35
02C19P2	15-Jun-88	596,225	491,338	733.28
02C19P3	16-Jun-88	596,225	491,338	733.63
02C20	29-Jun-88	596,769	492,114	715.06
02C20P2	22-Jun-88	596,769	492,114	714.92
02C20P3	23-Jun-88	596,769	492,114	714.78
02C21 (no well)	12-Sep-90	597,187	491,004	726.48 (ground)
02C22	15-Oct-90	597,610	490,129	742.99
02C22P2	17-Oct-90	597,613	490,124	742.63
02C22P3	18-Oct-90	597,617	490,119	742.50

Table 5
Water Level Measurements For Dye Burial Grounds Monitoring Wells

Well Number	Aquifer	Elevation TOC (ft NGVD)	Ground Water Elevation, ft August 1988	Ground Water Elevation, ft March 1991	Ground Water Elevation, ft June 1991	Ground Water Elevation, ft November 1991	Ground Water Elevation, ft March 1992
02-01	Upper Pennsylvanian	740.85	720.52	719.85	715.35	720.20	718.30
02-02	Lower Pennsylvanian	727.67	681.70	682.67	682.07	681.72	679.82
02-03	Hardinsburg Shale	722.38	677.11	678.78	678.08	676.68	677.53
02-04	Lower Pennsylvanian	719.02	680.12	681.32	680.62	681.07	679.97
02-05	Lower Pennsylvanian	741.28	684.11	685.18	684.28	684.38	684.18
02-06	Lower Pennsylvanian	738.67	684.07	684.97	684.87	684.17	684.12
02-07	Lower Pennsylvanian	732.22	685.13	684.81	684.41	683.91	683.86
02-08	Lower Pennsylvanian	732.22	683.34	684.27	683.82	683.37	683.32
02C09	Beech Creek	740.36	570.44	570.33	570.06	570.06	569.96
02C09P2	Golconda	740.66	Dry	Dry	Dry	Dry	Dry
02C10	Beech Creek	716.47	569.88	569.62	569.87	569.97	569.47
02C10P2	Golconda	716.39	651.55	670.99	672.04	674.49	675.89
02C10P3	Lower Pennsylvanian	716.36	686.28	691.88	687.86	686.76	686.66
02C11	Beech Creek	715.31	565.88	565.76	565.84	565.76	565.81
02C11P2	Golconda	715.36	643.76	642.74	642.71	642.06	641.86
02C11P3	Lower Pennsylvanian	715.66	678.43	680.46	679.41	678.26	677.91
02C12	Beech Creek	741.57	570.39	570.07	570.07	570.22	570.02
02C12P2	Golconda	741.82	670.79	658.24	654.82	656.07	654.82
02C12P3	Upper Pennsylvanian	741.83	719.34	719.63	719.43	720.03	718.43
02C13	Golconda	725.11	655.19	666.96	648.31	652.41	653.26
02C13P2	Lower Pennsylvanian	724.78	684.22	685.33	685.28	684.53	684.23

(Continued)

Table 5 (Concluded)

Well Number	Aquifer	Elevation TOC (ft NGVD)	Ground Water Elevation, ft August 1988	Ground Water Elevation, ft March 1991	Ground Water Elevation, ft June 1991	Ground Water Elevation, ft November 1991	Ground Water Elevation, ft March 1992
02C13P3	Upper Pennsylvanian	725.51	712.81	715.11	715.36	712.86	712.96
02C14	Beech Creek	716.40	567.37	567.05	566.80	567.25	567.20
02C14P2	Golconda	716.43	646.31	662.88	665.33	666.98	666.68
02C14P3	Lower Pennsylvanian	716.26	678.81	680.06	678.76	678.81	678.76
02C15	Golconda	715.88	Dry	644.88	673.33	Dry	Dry
02C15P2	Lower Pennsylvanian	715.77	679.42	681.87	681.17	680.32	680.02
02C16	Golconda	725.36	635.38	640.21	638.81	639.86	639.21
02C16P2	Lower Pennsylvanian	725.18	681.96	683.08	682.43	682.03	682.13
02C17	Golconda	732.96	644.36	643.53	644.41	643.61	643.81
02C17P2	Lower Pennsylvanian	732.84	683.69	684.39	684.39	683.79	683.74
02C17P3	Upper Pennsylvanian	733.38	Dry	Dry	Dry	Dry	Dry
02C18	Golconda	737.31	Dry	648.31	647.76	647.66	648.06
02C18P2	Lower Pennsylvanian	737.24	684.05	685.04	684.79	684.19	684.14
02C18P3	Upper Pennsylvanian	737.45	Dry	Dry	Dry	Dry	Dry
02C19	Golconda	733.35	648.82	646.68	643.80	644.50	643.35
02C19P2	Lower Pennsylvanian	733.28	684.23	685.33	684.78	684.18	684.08
02C19P3	Upper Pennsylvanian	733.63	Dry	Dry	Dry	Dry	Dry
02C20	Beech Creek	715.06	574.37	577.56	575.71	575.61	574.31
02C20P2	Golconda	714.92	653.54	656.52	656.37	656.17	656.42
02C20P3	Lower Pennsylvanian	714.78	696.74	698.28	698.43	696.28	695.88
02C22	Beech Creek	742.99	---	Dry	Dry	Dry	Dry
02C22P2	Golconda	742.63	---	654.18	636.28	636.28	645.38
02C22P3	Lower Pennsylvanian	742.50	---	Dry	685.40	684.95	685.00

Table 6
Detection Limits (in mg/l) of Appendix IX Compounds

Parameter	IDL	MDL	CRQL
Metals			
Aluminum	0.01	0.1	0.2
Antimony	0.003	0.005	0.06
Arsenic	0.002	0.005	0.01
Barium	0.01	0.1	0.2
Beryllium	0.001	0.005	0.005
Cadmium	0.004	0.02	0.005
Calcium	0.2	0.2	5
Chromium	0.005	0.02	0.01
Cobalt	0.006	0.05	0.05
Copper	0.005	0.02	0.025
Iron	0.01	0.03	0.1
Lead	0.001	0.001	0.005
Magnesium	0.1	0.03	5
Manganese	0.005	0.01	0.015
Mercury	0.0002	0.0002	0.0002
Nickel	0.005	0.02	0.04
Potassium	1	varies	5
Selenium	0.002	0.005	0.005
Silver	0.001	0.02	0.01
Sodium	0.1	0.1	5
Thallium	0.002	0.01	0.03
Tin	0.035	0.05	not on CLP
Vanadium	0.005	0.02	0.05
Zinc	0.006	0.01	0.02
CN,Sulfide			
Cyanide	0.005	---	---
Sulfide	0.02	---	---

(Sheet 1 of 6)

IDL = Instrument Detection Limit
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
HMX = octahydro-1,3,5,7-tetranito-1,3,5,7-tetrazocine
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
DNB = 1,3-dinitrobenzene
TNB = 1,3,5-trinitrobenzene
TNT = 2,4,6-trinitrotoluene
2,4-DNT = 2,4-dinitrotoluene

Table 6 (Continued)

Parameter	IDL	MDL	CRQL
Nitrates, Nitrites			
Nitrates	0.02	---	---
Nitrites	0.005	---	---
Explosives			
DNB	0.02	0.0024	not on CLP
HMX	0.02	0.013	not on CLP
RDX	0.02	0.012	not on CLP
Tetryl	0.02	0.026	not on CLP
TNB	0.02	0.005	not on CLP
TNT	0.02	0.0026	not on CLP
2,4-DNT	0.02	0.0157	not on CLP
Volatiles			
Acetone	0.10	0.1	0.1
Benzene	0.005	0.005	0.005
Bromodichloromethane	0.005	0.005	0.005
Bromoform	0.005	0.005	0.005
Bromomethane	0.01	0.01	0.01
Carbondisulfide	0.005	0.005	0.005
Carbon Tetrachloride	0.005	0.005	0.005
Chlorobenzene	0.005	0.005	0.005
Chloroethane	0.01	0.01	0.01
Chloroform	0.005	0.005	0.005
Chloromethane	0.01	0.01	0.01
Cis-1,2-Dichloroethene	0.005	0.005	0.005
Cis-1,3-Dichloropropene	0.005	0.005	0.005
Dibromochloromethane	0.005	0.005	0.005
Ethylbenzene	0.005	0.005	0.005
Methylene Chloride	0.005	0.005	0.005
Styrene	0.005	0.005	0.005
Tetrachloroethene	0.005	0.005	0.005
Toluene	0.005	0.005	0.005
Trans-1,2-Dichloroethene	0.005	0.005	0.005
Trans-1,3-Dichloropropene	0.005	0.005	0.005
Trichloroethene	0.005	0.005	0.005

(Sheet 2 of 6)

Table 6 (Continued)

Parameter	IDL	MDL	CRQL
Volatiles (Continued)			
T-Xylene	0.005	0.005	0.005
Vinyl Acetate	0.05	0.05	0.05
Vinyl Chloride	0.01	0.01	0.01
1,1-Dichloroethene	0.005	0.005	0.005
1,1,1-Trichloroethane	0.005	0.005	0.005
1,1,2-Trichloroethane	0.005	0.005	0.005
1,1,2,2-Tetrachloroethane	0.005	0.005	0.005
1,2-Dichloroethane	0.005	0.005	0.005
1,2-Dichloropropane	0.005	0.005	0.005
2-Butanone	0.10	0.10	0.1
2-Hexanone	0.05	0.05	0.01
4-Methyl-2-Pentanone	0.05	0.05	0.05
BNA			
Acenaphthene	0.01	0.01	0.01
Acenaphthylene	0.01	0.01	0.01
Aniline	0.02	---	---
Anthracene	0.01	0.01	0.01
Benzidine	0.05	---	---
Benzo(a)Anthracene	0.01	0.01	0.01
Benzo(a)Pyrene	0.01	0.01	0.01
Benzo(b)Fluoranthene	0.01	0.01	0.01
Benzo(G,H,I)Perylene	0.01	0.01	0.01
Benzo(k)Fluoranthene	0.01	0.01	0.01
Benzoic Acid	0.05	0.05	0.05
Benzyl Alcohol	0.02	0.02	0.01
Bis(2-Chloroethoxy)Methane	0.01	0.01	0.01
Bis(2-Chloroethyl)Ether	0.01	0.01	0.01
Bis(2-chloroisopropyl)Ether	0.01	0.01	0.01
Bis(2-Ethylthexyl)Phthalate	0.01	0.01	0.01
Butylbenzylphthalate	0.01	0.01	0.01
Chrysene	0.01	0.01	0.01
Dibenzo(A,H)Anthracene	0.01	0.01	0.01
Dibenzofuran	0.01	0.01	0.01

(Sheet 3 of 6)

Table 6 (Continued)

Parameter	IDL	MDL	CRQL
BNA (Continued)			
Dibutylphthalate	0.01	0.01	0.01
Diethyl Phthalate	0.01	0.01	0.01
Dimethyl Phthalate	0.01	0.01	0.01
Di-N-Octylphthalate	0.01	0.01	0.01
Fluoranthene	0.01	0.01	0.01
Fluorene	0.01	0.01	0.01
Hexachlorobenzene	0.01	0.01	0.01
Hexachlorobutadiene	0.01	0.01	0.01
Hexachlorocyclopentadiene	0.01	0.01	0.01
Hexachloroethane	0.01	0.01	0.01
Indeno(1,2,3-C,D)Pyrene	0.01	0.01	0.01
Isophorone	0.01	0.01	0.01
Naphthalene	0.01	0.01	0.01
Nitrobenzene	0.01	0.01	0.01
N-Nitrosodiphenyl Amine	0.01	0.01	0.01
N-Nitroso-Di-N-Propylamine	0.01	0.01	0.01
N-Nitrosodimethylamine	0.01	---	---
Pentachlorophenol	0.05	0.05	0.05
Phenanthrene	0.01	0.01	0.01
Phenol	0.01	0.01	0.01
Pyrene	0.01	0.01	0.01
1,2-Dichlorobenzene	0.01	0.01	0.01
1,2-Diphenylhydrazine	0.01	---	---
1,2,4-Trichlorobenzene	0.01	0.01	0.01
1,3-Dichlorobenzene	0.01	0.01	0.01
1,4-Dichlorobenzene	0.01	---	---
2-Chlorophenol	0.01	0.01	0.01
2-Methylnaphthalene	0.01	0.01	0.01
2-Methylphenol	0.01	0.01	0.01
2-Methyl-4,6-Dinitrophenol	0.05	0.05	0.05
2-Nitroaniline	0.05	0.05	0.05
2-Nitrophenol	0.01	0.01	0.01
2,4-Dichlorophenol	0.01	0.01	0.01

Table 6 (Continued)

Parameter	IDL	MDL	CRQL
BNA (Continued)			
2,4-Dimethylphenol	0.01	0.01	0.01
2,4-Dinitrophenol	0.05	0.05	0.05
2,4-Dinitrotoluene	0.01	0.01	0.01
2,4,5-Trichlorophenol	0.01	0.01	0.05
2,4,6-Trichlorophenol	0.01	0.01	0.01
2,6-Dinitrotoluene	0.01	0.01	0.01
3,3-Dichlorobenzidine	0.02	0.02	0.02
3-Nitroaniline	0.05	0.05	0.05
4-Bromophenyl Ether	0.01	0.01	0.01
4-Chloroaniline	0.02	0.02	0.02
4-Chlorophenyl Phenyl Ether	0.01	0.01	0.01
4-Chloro-3-Methylphenol	0.02	0.02	0.02
4-Methylphenol	0.01	0.01	0.01
4-Nitroaniline	0.05	0.05	0.05
4-Nitrophenol	0.05	0.05	0.05
Pesticides, Herbicides and PCBs			
A-BHC	0.000030	0.000003	0.00005
a-Chlordane	0.000050	---	---
A-Endosulfan	0.00014	0.000014	0.000014
Aldrin	0.000040	0.000004	0.00005
B-BHC	0.000090	0.000009	0.00009
B-Endosulfan	0.000040	0.000004	0.00004
D-BHC	0.000090	0.000009	0.00009
Dieldrin	0.000020	0.000002	0.0001
Disulfoton	0.000700	0.0002	0.002
Endosulfan Sulfate	0.00066	0.000066	0.00066
Endrin	0.000060	0.000006	0.0001
Endrin Aldehyde	0.00023	0.000023	0.00023
Ethyl Parathion	0.00060	---	---
Famphur	0.0012	---	---
G-BHC	0.00040	0.000004	0.00005
g-Chlordane	0.000050	---	---
Heptachlor	0.000030	0.000003	0.00005

(Sheet 5 of 6)

Table 6 (Concluded)

Parameter	IDL	MDL	CRQL
Pesticides, Herbicides and PCBs (Continued)			
Heptachlor Epoxide	0.00080	0.000083	0.00005
Kepone	0.0060	---	---
Methoxychlor	0.0017	0.000176	0.0005
Methyl Parathion	0.0012	0.00003	0.0003
PCB-1016	0.006	---	---
PCB-1221	0.006	---	---
PCB-1232	0.006	---	---
PCB-1242	0.0006	0.000065	0.00065
PCB-1248	0.0006	---	---
PCB-1254	0.0013	---	---
PCB-1260	0.0013	---	---
Phorate	0.00040	0.00015	0.0015
PPDDD	0.00011	0.000011	0.00011
PPDDE	0.000040	0.000004	0.0004
PPDDT	0.00012	0.000012	0.00012
Toxaphene	0.0024	0.00024	0.0024
2,4-D	0.012	0.0012	0.012
2,4,5-T	0.0020	0.0002	0.002
2,4,5-TP	0.0020	0.00017	0.0017
Dinoseb	0.0007	0.00007	0.0007

(Sheet 6 of 6)

NOTE: Herbicide, Pesticide IDL varies from batch to batch.

Table 7a
Preservatives and Holding Times for Groundwater Samples

Parameters	Preservation	Holding Time
Metals except Mercury	Nitric acid to pH <2	180 days
Mercury	Nitric acid to pH <2	28 days
Cyanide	Sodium hydroxide to pH >12	14 days
Sulfide	Sodium hydroxide to pH >12	7 days
Nitrate/nitrite	Sulfuric acid to pH <2	28 days
Herbicides	Cooled to 4°C	7/40 days[1]
Pesticides/PCBs	Cooled to 4°C	7/40 days
Volatiles	Cooled to 4°C	14 days
BNA	Cooled to 4°C	7/40 days
Explosives	Cooled to 4°C	7/40 days

[1] Seven days until extraction, 40 days after extraction.

Table 7b
Blind Samples and Associated Well Numbers

Round Number	Well Number	Blind Sample Number
1	10C28	10C28P4
	10C25P3	10C25P4
	10-22	10A1
	10C56	10C56P2
2	None	None
3	02C12P2[2]	02C12P4
	02C14	02C14P4
	02C17P2	02C17P4
4	02C15P2	02C15P3

[2] SWMUs 02 and 10 were sampled as the same event. Blinds from either SWMU were used.

Table 8
Intrinsic Permeabilities and Hydraulic Conductivities of Dye Burial Ground Pennsylvanian Sandstone Samples

Well Number	Depth of Sample (ft)	Porosity (%)	Intrinsic Permeability (m Darcies)	Intrinsic Permeability (m^2)	Hydraulic Conductivity (cm/s, 50°F)
02C13	40.0	26.1	299	2.95×10^{-13}	2.21×10^{-4}
02C15	30.0	13.3	137	1.35×10^{-13}	1.01×10^{-4}
02C18	36.0	23.8	62.5	6.17×10^{-14}	4.63×10^{-5}

[1] Intrinsic permeability was converted to hydraulic conductivity using the following relationship: $K = k_i (\rho g/\mu)$, where K = hydraulic conductivity, k_i = intrinsic permeability, ρ = density, g = gravitational acceleration, and μ = dynamic viscosity. Data are from Andy Fisher, formerly of the Indiana State Geological Survey, Bloomington.

Table 9
Laboratory Analytical Procedures

Parameter	Method	Reference
Volatile Organics (VOA)	GC/MS	USEPA Method 8240
Semivolatile or Base Neutral Acid Extractibles (BNAs)	GC/MS	USEPA Method 8270
Organochlorine Pesticides and PCBs	GC	USEPA Method 8080
Organophosphorus Pesticides	GC	USEPA Method 8140
Chlorinated Herbicides	GC	USEPA Method 8150
Explosives	HPLC	USEPA Method 8330
Metals	ICP and Furnace Methods	USEPA Method 6010 USEPA Series 7000 Methods
Cyanide	Colorimetric	USEPA Method 9012
Sulfides	Acid Soluble/Insoluble	USEPA Method 9030
Nitrates	Cadmium Reduction	USEPA Method 353.2
Nitrites	Colorimetric	USEPA Method 353.2

Notes:
GC/MS = Gas Chromatograph/Mass Spectrometer.
HPLC = High Performance Liquid Chromatography.
ICP = Inductive Coupled Plasma Atomic Emission Spectroscopy.

Table 10
Tentatively Identified Compound (TIC) Summary for Dye Burial Grounds

Well Number	**02C09**	**02C12P2**	**02C13P3**	**02C16P2**	**02C17**		
Lab Number	**10576**	**10580**	**10584**	**10680**	**10681**		
Formic acid							
Hexadecanoic acid		X					
Octadecanoic acid	X	X					
Phthalate				X			
Sulfur,(SB)							
2-(2-butoxyethoxy)ethanol		X	X		X		
Well Number	**02C14P2**	**02C18**	**02C20P2**	**02C20P3**	**02C22P3**		
Lab Number	**16366**	**16712**	**16241**	**16242**	**16710**		
Caprolactam		X			X		
Dodecanamide,N,N-bis(2-hydroxyethyl)				X			
Ethanedioic acid, dimethylester			X				
Hexanedioic acid, mono(2-ethylhexyl)ester	X						
2-Butenoic acid, methylester			X				
Well Number	**0206**	**0207**	**02C09**	**02C11P2**	**02C11P3**	**02C12P2**	**02C13**
Lab Number	**12986**	**12987**	**12813**	**12814**	**12815**	**12816**	**12430**
Caprolactam	X	X	X				
Dodecanoic acid						X	
Hexadecanoic acid						X	
Hexanedioic acid, dioetylester			X	X	X		
Tetradecanoic acid						X	
1-heptene							
2-ethylhexanoic acid							
2-(2-butoxyethoxy)ethanol		X			X		
4,4'-butyldidenebis[2-(1,1-dimethylethyl- 5-methylphenol			X				X
Well Number	**02C14P3**	**02C16P2**	**02C17**	**02C17P2**	**02C18P2**	**02C19P2**	**02C22P3**
Lab Number	**12820**	**12990**	**12991**	**12992**	**12994**	**12995**	**12996**
Caprolactam		X	X	X	X	X	X
Hexanedioic acid, dioetylester	X						
Sulfur,(SB)							
2,6-bis(1,1-dimethylethyl)-2,5-Cyclohexadiene-1,4-dione							X

Table 11
Well Assignments for Aquifers at the Dye Burial Grounds

Beech Creek Limestone	Golconda/Haney Limestone	Lower Penn. Sandstone	Upper Penn. Sandstone
02C09	02C09P2 (dry)	02-02	02-01
02C10[1]	02C10P2[1]	02-04	02C12P3
02C11	02C11P2	02-05	02C13P3
02C12	02C12P2	02-06	02C17P3 (dry)
02C14	02C13	02-07	02C18P3 (dry)
02C20	02C14P2	02-08	02C19P3 (dry)
02C22 (dry)	02C15	02C10P3[1]	
	02C16	02C11P3	
	02C17	02C13P2	
	02C18	02C14P3	
	02C19	02C15P2	
	02C20P2	02C16P2	
	02C22P2	02C17P2	
		02C18P2	
		02C19P2	
		02C20P3	
		02C22P3	

Table 12
Summary of Statistically Significant Metals Contaminants in DBG Wells

Metal	All Wells[1]	Beech Creek Limestone	Golconda/Haney Limestone	Lower Penn. Sandstone	Upper Penn. Sandstone
Al	02-04 02-06 02C11P3 02C16P2 02C22P3	None	None	02-04 02C11P3 02C22P3	None
Sb	None	None	None	None	None
As	None	None	None	None	None
Ba	02-03 02C12P2 02C14P2 02C16	02C11 02C14 02C20	None	02-02 02-03	None
Be	02C11P3 02C22P3	None	None	02C11P3 02C22P3	None
Cd	02C11P3	None	None	02C11P3	None
Ca	02-02 02-04 02-05 02-06 02-07 02-08 02C17P2 02C18P2 02C22P3	None	None	02-02 02-04 02-05 02-06 02-07 02-08 02C17P2 02C18P2 02C22P3	None
Cr	02C12	02C12	None	None	None
Co	02-04 02-06 02C11P2 02C11P3 02C14P3 02C15P2 02C16P2 02C17P2 02C18P2 02C19P2 02C22P3	None	02C11P2	02-04 02-06 02C11P3 02C14P3 02C15P2 02C17P2 02C22P3	None
Cu	None	None	None	None	None
Fe	02C11P3 02C19P2 02C22P3	None	None	None	None
Pb	02C11P3 02C22P3	None	None	02C11P3	None
Mg	02-06 02C17P2 02C22P3	None	None	02-05 02-06 02-08 02C17P2 02C20P3 02C22P3	None

(Continued)

[1] Shaded cells indicate a similarity in the analysis using all wells in the population to the analyses for individual aquifers.

Table 12 (Concluded)

Metal	All Wells[1]	Beech Creek Limestone	Golconda/Haney Limestone	Lower Penn. Sandstone	Upper Penn. Sandstone
Mn	02-06 02C22P3	None	None	02-06 02C22P3	None
Ni	02-04 02-06 02C11P2 02C11P3 02C15P2 02C16P2 02C17P2 02C19P2 02C22P3	None	02C11P2	02-04 02-06 02C11P3 02C16P2 02C22P3	None
K	02C11 02C12P3 02C14 02C16 02C20 02C20P2	02C11	02C16 02C20P2	02-04 02-05 02-06 02C13P2 02C15P2 02C17P2 02C18P2 02C19P2 02C22P3	02C12P3
Se	02C13	None	02C13	02-07	None
Na	02-01 02C11 02C12P3 02C18 02C20P3	None	02C12P2 02C16 02C18	02-06 02C13P2 02C17P2 02C20P3	02-01 02C12P3
Va	None	None	None	None	None
Zn	02-04 02-06 02C11P2 02C11P3 02C17P2 02C22P3	None	None	02C11P3	None

Table 13
Metals Detected at Levels Above Primary MCL, Dye Burial Grounds

Well Number	Date Sampled	Metal	MCL (mg/l)	Amount Detected (mg/l)
2-04	01-Jun-91	CADMIUM	0.005	0.006
02-04	16-Mar-91	NICKEL	0.1	1.150
02-04	01-Jun-91	NICKEL	0.1	0.905
02-04	13-Nov-91	NICKEL	0.1	0.955
02-04	28-Mar-92	NICKEL	0.1	1.000
02-05	01-Jun-91	CADMIUM	0.005	0.008
02-06	01-Jun-91	CADMIUM	0.005	0.013
02-06	16-Mar-91	NICKEL	0.1	1.670
02-06	01-Jun-91	NICKEL	0.1	1.840
02-06	13-Nov-91	NICKEL	0.1	1.850
02-06	28-Mar-92	NICKEL	0.1	1.430
02C11P2	16-Mar-91	NICKEL	0.1	0.139
02C11P2	01-Jun-91	NICKEL	0.1	0.122
02C11P2	13-Nov-91	NICKEL	0.1	0.156
02C11P2	28-Mar-92	NICKEL	0.1	0.299
02C11P3	16-Mar-91	BERYLLIUM	0.004	0.005
02C11P3	01-Jun-91	BERYLLIUM	0.004	0.005
02C11P3	01-Jun-91	CADMIUM	0.005	0.011
02C11P3	13-Nov-91	BERYLLIUM	0.004	0.005
02C11P3	28-Mar-92	BERYLLIUM	0.004	0.006
02C11P3	28-Mar-92	CADMIUM	0.005	0.009
02C11P3	16-Mar-91	LEAD	0.015	0.016
02C11P3	16-Mar-91	NICKEL	0.1	0.944
02C11P3	01-Jun-91	NICKEL	0.1	0.923
02C11P3	13-Nov-91	NICKEL	0.1	0.985
02C11P3	28-Mar-92	NICKEL	0.1	1.020
02C12P3	01-Jun-91	CADMIUM	0.005	0.006
02C13	28-Mar-92	SELENIUM	0.05	0.054
02C13	13-Nov-91	SELENIUM	0.05	0.058
02C14P3	01-Jun-91	NICKEL	0.1	0.514
02C14P3	13-Nov-91	NICKEL	0.1	0.524
02C14P3	28-Mar-92	NICKEL	0.1	0.550

(Continued)

Table 13 (Concluded)

Well Number	Date Sampled	Metal	MCL (mg/l)	Amount Detected (mg/l)
02C15P2	28-Mar-92	NICKEL	0.1	0.211
02C16P2	16-Mar-91	NICKEL	0.1	0.224
02C16P2	01-Jun-91	NICKEL	0.1	0.250
02C16P2	13-Nov-91	NICKEL	0.1	0.233
02C16P2	28-Mar-92	NICKEL	0.1	0.242
02C17P2	01-Jun-91	CADMIUM	0.005	0.006
02C17P2	16-Mar-91	NICKEL	0.1	0.116
02C17P2	01-Jun-91	NICKEL	0.1	0.118
02C17P2	13-Nov-91	NICKEL	0.1	0.177
02C17P2	28-Mar-92	NICKEL	0.1	0.196
02C18P2	28-Mar-92	NICKEL	0.1	0.104
02C19P2	13-Nov-91	NICKEL	0.1	0.144
02C19P2	28-Mar-92	NICKEL	0.1	0.127
02C22P3	16-Mar-91	BERYLLIUM	0.004	0.005
02C22P3	01-Jun-91	BERYLLIUM	0.004	0.007
02C22P3	01-Jun-91	CADMIUM	0.005	0.007
02C22P3	13-Nov-91	BERYLLIUM	0.004	0.006
02C22P3	16-Mar-91	NICKEL	0.1	0.593
02C22P3	01-Jun-91	NICKEL	0.1	0.513
02C22P3	13-Nov-91	NICKEL	0.1	0.615
02C22P3	28-Mar-92	NICKEL	0.1	0.565

Table 14
Metals Present at Statistically Significant Levels in DBG Aquifers

Metal, Primary	Aquifer			
	Beech Creek	Golconda/Haney	Lower Penn.	Upper Penn.
Barium	Possibly	None	Possibly	None
Beryllium	None	None	YES	None
Cadmium	None	None	YES	None
Chromium	YES	None	None	None
Lead	None	None	YES	None
Manganese	None	None	YES	None
Nickel	None	YES	YES	None
Selenium	None	YES	YES	None
Metal, Secondary or Unlisted				
Aluminum	None	None	YES	None
Calcium	None	None	YES	None
Cobalt	None	YES	YES	None
Iron	None	None	Possibly	None
Magnesium	None	None	YES	None
Potassium	Possibly	YES	Possibly	YES
Sodium	Possibly	Possibly	Possibly	YES
Zinc	None	Possibly	Possibly	None

Table 15
Detected Levels of Aluminum at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C11P3	16-Mar-91	29.5
02C11P3	13-Nov-91	25.6
02C11P3	28-Mar-92	23.1
02C11P3	01-Jun-91	21.4
02-04	16-Mar-91	4.63
02C22P3	13-Nov-91	2.14
02C22P3	28-Mar-92	2.04
02-04	28-Mar-92	1.76
02C22P3	01-Jun-91	1.31
02C15P2	28-Mar-92	1.26
02-04	01-Jun-91	1.19
02-04	13-Nov-91	1.14
02C22P3	16-Mar-91	0.963
02C16P2	01-Jun-91	0.883
02C14P3	28-Mar-92	0.843
02C17P2	28-Mar-92	0.833
02C14P3	13-Nov-91	0.768
02C16P2	28-Mar-92	0.727
02-06	01-Jun-91	0.704
02C16P2	16-Mar-91	0.703
02C14P3	01-Jun-91	0.702
02C16P2	13-Nov-91	0.675
02-06	13-Nov-91	0.614
02C17P2	13-Nov-91	0.417
02-06	16-Mar-91	0.356
02C15P2	01-Jun-91	0.32
02C19	01-Jun-91	0.31
02-06	28-Mar-92	0.206
02C10P2	16-Mar-91	0.095

(Continued)

Table 15
Detected Levels of Aluminum at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C12P2	28-Mar-92	0.087
02C15P2	13-Nov-91	0.087
02C17P2	01-Jun-91	0.076
02C20	13-Nov-91	0.064
02C11P2	16-Mar-91	0.039
02C12	13-Nov-91	0.023
02C10P3	13-Nov-91	0.019
02C12P2	16-Mar-91	0.018

Table 16
Detected Levels of Beryllium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C22P3	01-Jun-91	0.007
02C22P3	13-Nov-91	0.006
02C11P3	28-Mar-92	0.006
02C11P3	01-Jun-91	0.005
02C22P3	16-Mar-91	0.005
02C11P3	13-Nov-91	0.005
02C11P3	16-Mar-91	0.005
02C15P2	28-Mar-92	0.003
02-06	13-Nov-91	0.002
02C22P3	28-Mar-92	0.002
02-04	28-Mar-92	0.002
02C11P2	28-Mar-92	0.001
02-06	01-Jun-91	0.001
02C14P3	28-Mar-92	0.001
02C17P2	28-Mar-92	0.001
02-06	28-Mar-92	0.001

Table 17
Detected Levels of Cadmium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02-06	01-Jun-91	0.013
02C11P3	01-Jun-91	0.011
02C11P3	28-Mar-92	0.00933
02-05	01-Jun-91	0.008
02C22P3	01-Jun-91	0.007
02C12P3	01-Jun-91	0.006
02-04	01-Jun-91	0.006
02C17P2	01-Jun-91	0.006
02C11P3	16-Mar-91	0.005
02C11P3	13-Nov-91	0.005
02C17P2	28-Mar-92	0.00484
02-06	28-Mar-92	0.00456
02C18P2	01-Jun-91	0.004
02-08	01-Jun-91	0.004
02C09	28-Mar-92	0.00326
02C15P2	28-Mar-92	0.00308
02C11P2	28-Mar-92	0.00226
02-04	28-Mar-92	0.00222
02C19P2	28-Mar-92	0.00181
02C16P2	28-Mar-92	0.00151
02C22P3	28-Mar-92	0.00134
02C16	28-Mar-92	0.00108
02C17	28-Mar-92	0.00082
02C10P3	28-Mar-92	0.00049
02-08	28-Mar-92	0.00048
02-02	28-Mar-92	0.00038
02C22P2	28-Mar-92	0.00037
02C14P3	28-Mar-92	0.00036
02C11	28-Mar-92	0.00029
02-03	28-Mar-92	0.00028
02C13P3	28-Mar-92	0.00027

Table 18
Detected Levels of Calcium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02-06	28-Mar-92	676
02-05	01-Jun-91	649
02-08	01-Jun-91	622
02-05	13-Nov-91	605
02C17P2	01-Jun-91	580
02-06	16-Mar-91	577
02-06	28-Mar-92	570
02-05	28-Mar-92	569
02C17P2	13-Nov-91	556
02-06	13-Nov-91	549
02-08	13-Nov-91	521
02-08	28-Mar-92	498
02-08	16-Mar-91	496
02C17P2	16-Mar-91	495
02C17P2	28-Mar-92	472
02-04	01-Jun-91	442
02-04	28-Mar-92	418
02-07	13-Nov-91	410
02-02	13-Nov-91	410
02-04	13-Nov-91	407
02C18P2	13-Nov-91	404
02C18P2	01-Jun-91	403
02-07	01-Jun-91	397
02C18P2	16-Mar-91	379
02-07	16-Mar-91	363
02C22P3	01-Jun-91	363
02C18P2	28-Mar-92	360
02C22P3	16-Mar-91	350
02-02	01-Jun-91	346
02C12P3	01-Jun-91	337
02C22P3	13-Nov-91	334
02-04	16-Mar-91	331
02-02	16-Mar-91	314

(Sheet 1 of 5)

Table 18 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C12P3	13-Nov-91	303
02C22P3	28-Mar-92	302
02C14P3	01-Jun-91	298
02C12	28-Mar-92	287
02-02	28-Mar-92	285
02-07	28-Mar-92	284
02C14P3	28-Mar-92	283
02C14P2	13-Nov-91	266
02C13P2	16-Mar-91	263
02C14P3	13-Nov-91	261
02C13P2	28-Mar-92	260
02C12P3	16-Mar-91	251
02C13P2	13-Nov-91	250
02C14P2	01-Jun-91	249
02C13P2	01-Jun-91	245
02-01	13-Nov-91	237
02C14P2	16-Mar-91	236
02C20P3	13-Nov-91	218
02C11P3	13-Nov-91	214
02C20P3	28-Mar-92	213
02C20P3	16-Mar-91	203
02-01	28-Mar-92	199
02C19P2	01-Jun-91	198
02C11P3	01-Jun-91	197
02C19P2	13-Nov-91	192
02-03	28-Mar-92	190
02-03	01-Jun-91	184
02C15P2	16-Mar-91	184
02C11P3	28-Mar-92	183
02C11P2	13-Nov-91	182
02-03	13-Nov-91	179
02C20P3	01-Jun-91	175
02-03	16-Mar-91	172
02C11P2	28-Mar-92	172

(Sheet 2 of 5)

Table 18 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C11P2	01-Jun-91	170
02C11P3	16-Mar-91	166
02C19P2	28-Mar-92	166
02C15P2	01-Jun-91	164
02C11P2	16-Mar-91	163
02C19P2	16-Mar-91	157
02C15P2	13-Nov-91	144
02C12P2	13-Nov-91	142
02C10P2	01-Jun-91	137
02C10P2	13-Nov-91	135
02C10P2	28-Mar-92	132
02C12P2	28-Mar-92	131
02C15P2	28-Mar-92	128
02C12P2	16-Mar-91	127
02C10P2	16-Mar-91	125
02C12P2	01-Jun-91	124
02C17	16-Mar-91	94.4
02C18	28-Mar-92	91.1
02C17	01-Jun-91	88.8
02C10	28-Mar-92	88.7
02C10	01-Jun-91	86
02C10	13-Nov-91	84.5
02C10	16-Mar-91	83.8
02C18	13-Nov-91	82.8
02C17	28-Mar-92	81.9
02C18	01-Jun-91	79.1
02C17	13-Nov-91	76.2
02C18	16-Mar-91	72.2
02C16P2	16-Mar-91	69.9
02C09	01-Jun-91	64.7
02C09	16-Mar-91	63.7
02C16P2	01-Jun-91	62.2
02C09	13-Nov-91	60.5
02C16P2	13-Nov-91	58.6

(Sheet 3 of 5)

Table 18 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C09	28-Mar-92	57.8
02C16P2	28-Mar-92	56.8
02C19	28-Mar-92	50.7
02C14	13-Nov-91	46.9
02C20	28-Mar-92	39.7
02C19	01-Jun-91	38.3
02C14	16-Mar-91	37.7
02C14	28-Mar-92	37.3
02C14	01-Jun-91	36.2
02C15	16-Mar-91	35.6
02C13	28-Mar-92	30.2
02C13	13-Nov-91	29.4
02C10P3	01-Jun-91	29
02C10P3	16-Mar-91	27.7
02C16	28-Mar-92	25.8
02C14P3	16-Mar-91	24.1
02C13	01-Jun-91	22.8
02C22P2	28-Mar-92	22.4
02C19	16-Mar-91	21.9
02C19	13-Nov-91	20.5
02C11	28-Mar-92	19.9
02C13P3	13-Nov-91	19.6
02C20	13-Nov-91	19
02C16	13-Nov-91	17.7
02C16	01-Jun-91	17.1
02C10P3	28-Mar-92	17.1
02C10P3	13-Nov-91	16.9
02C22P2	16-Mar-91	14.3
02C13P3	16-Mar-91	13.9
02C20	16-Mar-91	13.5
02C13P3	01-Jun-91	12.9
02C13P3	28-Mar-92	12.2

(Sheet 4 of 5)

Table 18 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C20P2	16-Mar-91	10.3
02C16	16-Mar-91	9.78
02C11	13-Nov-91	8.67
02C20P2	28-Mar-92	8.36
02C20P2	13-Nov-91	7.6
02C11	16-Mar-91	6.99
02C11	01-Jun-91	5.79
02C12	13-Nov-91	4.32
02C12P3	28-Mar-92	2.26

(Sheet 5 of 5)

Table 19
Detected Levels of Chromium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C12P3	28-Mar-92	0.021
02C12	28-Mar-92	0.013
02C20P3	28-Mar-92	0.011
02C12	13-Nov-91	0.011
02C22P3	13-Nov-91	0.01
02C12P2	28-Mar-92	0.008
02-06	28-Mar-92	0.008
02C20P2	28-Mar-92	0.007
02C20	13-Nov-91	0.007
02C11	01-Jun-91	0.007
02C11P3	01-Jun-91	0.006
02-05	01-Jun-91	0.006
02C10P3	28-Mar-92	0.006
02C09	28-Mar-92	0.006
02C19	28-Mar-92	0.006
02-05	28-Mar-92	0.005
02C20	28-Mar-92	0.005
02C19	13-Nov-91	0.005
02C14P2	01-Jun-91	0.005
02-05	13-Nov-91	0.005
02C13	13-Nov-91	0.005
02C11P2	01-Jun-91	0.005

Table 20
Detected Levels of Cobalt at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02-06	13-Nov-91	0.697
02-06	16-Mar-91	0.638
02-06	01-Jun-91	0.605
02-06	28-Mar-92	0.51
02C11P3	28-Mar-92	0.493
02C11P3	13-Nov-91	0.462
02C11P3	16-Mar-91	0.442
02C11P3	01-Jun-91	0.389
02-04	16-Mar-91	0.327
02-04	28-Mar-92	0.284
02-04	13-Nov-91	0.272
02C22P3	28-Mar-92	0.239
02-04	01-Jun-91	0.226
02C22P3	16-Mar-91	0.224
02C22P3	13-Nov-91	0.224
02C14P3	28-Mar-92	0.201
02C22P3	01-Jun-91	0.186
02C14P3	13-Nov-91	0.167
02C14P3	01-Jun-91	0.162
02C15P2	28-Mar-92	0.16
02C17P2	28-Mar-92	0.115
02C17P2	13-Nov-91	0.101
02C17P2	16-Mar-91	0.085
02C11P2	28-Mar-92	0.075
02C15P2	13-Nov-91	0.072
02C17P2	01-Jun-91	0.069
02C18P2	16-Mar-91	0.067
02C15P2	16-Mar-91	0.066
02C16P2	28-Mar-92	0.066
02C19P2	28-Mar-92	0.064
02C15P2	01-Jun-91	0.057
02C18P2	28-Mar-92	0.054
02C11P2	16-Mar-91	0.051

(Sheet 1 of 4)

Table 20 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C16	28-Mar-92	0.051
02-08	16-Mar-91	0.048
02C19P2	16-Mar-91	0.048
02C16P2	16-Mar-91	0.046
02C11	28-Mar-92	0.046
02C11P2	13-Nov-91	0.046
02C14	28-Mar-92	0.046
02C16P2	13-Nov-91	0.045
02C14P2	28-Mar-92	0.044
02C19P2	13-Nov-91	0.044
02-08	13-Nov-91	0.043
02C13P2	13-Nov-91	0.043
02-07	13-Nov-91	0.042
02C22P2	28-Mar-92	0.041
02-01	13-Nov-91	0.04
02C18	28-Mar-92	0.039
02-07	16-Mar-91	0.039
02-02	16-Mar-91	0.038
02C18P2	13-Nov-91	0.038
02C12P3	13-Nov-91	0.037
02-03	28-Mar-92	0.037
02C18P2	01-Jun-91	0.035
02C12P3	01-Jun-91	0.035
02-02	13-Nov-91	0.034
02C13P2	01-Jun-91	0.034
02C20P3	13-Nov-91	0.034
02-05	13-Nov-91	0.033
02-05	01-Jun-91	0.032
02C19	28-Mar-92	0.032
02C16	13-Nov-91	0.032
02C20	13-Nov-91	0.031
02C10	13-Nov-91	0.031
02C18	16-Mar-91	0.031

(Sheet 2 of 4)

Table 20 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02-02	28-Mar-92	0.03
02C14P2	16-Mar-91	0.029
02C11P2	01-Jun-91	0.029
02C12	13-Nov-91	0.029
02C11	13-Nov-91	0.029
02-07	28-Mar-92	0.028
02-08	28-Mar-92	0.028
02C11	16-Mar-91	0.028
02C17	16-Mar-91	0.028
02-05	28-Mar-92	0.028
02C13P3	13-Nov-91	0.028
02C13P2	16-Mar-91	0.028
02C12P2	13-Nov-91	0.027
02C14	16-Mar-91	0.026
02C17	28-Mar-92	0.025
02-03	16-Mar-91	0.024
02C16	16-Mar-91	0.024
02C16P2	01-Jun-91	0.024
02C12	28-Mar-92	0.024
02C18	13-Nov-91	0.024
02C19	16-Mar-91	0.023
02C09	13-Nov-91	0.022
02C12P2	28-Mar-92	0.021
02C14	13-Nov-91	0.02
02C17	13-Nov-91	0.02
02C14P3	16-Mar-91	0.019
02C10P3	13-Nov-91	0.018
02C15	16-Mar-91	0.018
02C14P2	13-Nov-91	0.018
02C10P3	01-Jun-91	0.018
02C20P3	01-Jun-91	0.017
02C22P2	16-Mar-91	0.016
02C13	13-Nov-91	0.016

(Sheet 3 of 4)

Table 20 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C20P2	13-Nov-91	0.016
02-08	01-Jun-91	0.015
02C19	13-Nov-91	0.014
02C19P2	01-Jun-91	0.014
02-03	13-Nov-91	0.013
02C20P3	16-Mar-91	0.012
02C12P2	16-Mar-91	0.012
02C13P3	01-Jun-91	0.012
02-07	01-Jun-91	0.011
02C10P2	13-Nov-91	0.011
02C14P2	01-Jun-91	0.008
02-02	01-Jun-91	0.007
02C13	01-Jun-91	0.007
02C10	01-Jun-91	0.006
02C12P3	16-Mar-91	0.006

(Sheet 4 of 4)

Table 21
Detected Levels of Lead at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C11P3	16-Mar-91	0.01600
02C22P3	28-Mar-92	0.0092
02C11P3	01-Jun-91	0.0079
02C11P3	13-Nov-91	0.0044
02C12	13-Nov-91	0.0042
02C11	16-Mar-91	0.0036
02-02	01-Jun-91	0.0033
02C11P3	28-Mar-92	0.0028
02C22P3	16-Mar-91	0.0024
02C18	01-Jun-91	0.0021
02C12P2	28-Mar-92	0.0021
02C22P3	01-Jun-91	0.002
02C14P2	16-Mar-91	0.002
02C20	28-Mar-92	0.0018
02C16	01-Jun-91	0.0018
02C15	16-Mar-91	0.0016
02C20	16-Mar-91	0.0016
02C13	13-Nov-91	0.0016
02C11	01-Jun-91	0.0016
02C14P3	01-Jun-91	0.0014
02C19	01-Jun-91	0.0014
02C16P2	16-Mar-91	0.0014
02C14	01-Jun-91	0.0013
02C12P3	28-Mar-92	0.0012
02-03	01-Jun-91	0.0012
02-04	28-Mar-92	0.0011
02C11	28-Mar-92	0.0011
02C18	16-Mar-91	0.0011
02C20P3	13-Nov-91	0.0011
02C12P3	01-Jun-91	0.001
02C14P3	16-Mar-91	0.001

Table 22
Detected Levels of Magnesium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02-06	01-Jun-91	413
02-06	13-Nov-91	384
02-06	16-Mar-91	333
02-06	28-Mar-92	325
02C22P3	01-Jun-91	318
02C22P3	28-Mar-92	301
02C22P3	16-Mar-91	297
02C22P3	13-Nov-91	281
02C12P3	13-Nov-91	241
02C12P3	01-Jun-91	234
02C12	28-Mar-92	230
02-05	28-Mar-92	224
02-05	13-Nov-91	220
02C17P2	13-Nov-91	219
02C17P2	01-Jun-91	218
02-08	01-Jun-91	215
02-05	01-Jun-91	215
02C10P3	16-Mar-91	209
02-08	13-Nov-91	201
02C12P3	16-Mar-91	194
02C20P3	13-Nov-91	192
02C17P2	16-Mar-91	189
02C17P2	28-Mar-92	183
02C20P3	16-Mar-91	178
02C13P2	16-Mar-91	177
02C20P3	28-Mar-92	168
02-07	13-Nov-91	165
02-08	28-Mar-92	163
02-08	16-Mar-91	162
02C20P3	01-Jun-91	161
02C13P2	28-Mar-92	155
02C13P2	13-Nov-91	154
02-07	28-Mar-92	142

(Sheet 1 of 5)

Table 22 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C13P2	01-Jun-91	142
02-04	13-Nov-91	140
02-07	01-Jun-91	137
02C18P2	01-Jun-91	127
02-01	13-Nov-91	126
02C18P2	13-Nov-91	123
02-04	28-Mar-92	123
02-02	13-Nov-91	122
02C18P2	28-Mar-92	118
02-07	16-Mar-91	115
02C18P2	16-Mar-91	115
02-01	28-Mar-92	113
02-04	01-Jun-91	113
02-04	16-Mar-91	109
02C14P3	28-Mar-92	107
02C19	28-Mar-92	106
02C14P3	01-Jun-91	97.4
02-02	01-Jun-91	96
02C14P3	13-Nov-91	93.8
02C11P3	13-Nov-91	93.7
02C19P2	13-Nov-91	90.9
02-02	28-Mar-92	88.2
02C19P2	01-Jun-91	86.2
02C10P2	16-Mar-91	83
02C11P3	28-Mar-92	82.3
02C11P3	01-Jun-91	81.6
02-02	16-Mar-91	79.6
02C19P2	28-Mar-92	76.4
02C19P2	16-Mar-91	69.6
02C10P2	13-Nov-91	68.6
02C10	28-Mar-92	68.3
02C11P3	16-Mar-91	68.2
02C10P2	01-Jun-91	67.9
02C10	16-Mar-91	65.2

(Sheet 2 of 5)

Table 22 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C10	01-Jun-91	64.5
02C10	13-Nov-91	64.1
02C10P2	28-Mar-92	60.7
02-03	28-Mar-92	59.9
02-03	13-Nov-91	56.3
02C16	28-Mar-92	55.6
02C15	16-Mar-91	53.7
02-03	01-Jun-91	53.6
02C11P2	13-Nov-91	52
02C09	01-Jun-91	52
02C09	16-Mar-91	50.4
02C14	01-Jun-91	50.1
02C14	13-Nov-91	47.8
02C09	13-Nov-91	47.8
02C09	28-Mar-92	47.4
02-03	16-Mar-91	47.2
02C11P2	28-Mar-92	45.6
02C17	16-Mar-91	45.5
02C14	16-Mar-91	45
02C19	01-Jun-91	43.8
02C14	28-Mar-92	43.7
02C17	01-Jun-91	42.6
02C19	13-Nov-91	41.7
02C16	01-Jun-91	39.7
02C15P2	16-Mar-91	39
02C19	16-Mar-91	38.7
02C11P2	01-Jun-91	37.9
02C20	28-Mar-92	35.8
02C17	28-Mar-92	34.2
02C17	13-Nov-91	34
02C13	13-Nov-91	32.9
02C13	28-Mar-92	32.6
02C16	13-Nov-91	31.5
02C15P2	28-Mar-92	31.3

(Sheet 3 of 5)

Table 22 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C13	01-Jun-91	31.2
02C18	28-Mar-92	31.2
02C15P2	13-Nov-91	31.1
02C18	13-Nov-91	30.5
02C15P2	01-Jun-91	29.8
02C16P2	16-Mar-91	29.3
02C18	01-Jun-91	28.4
02C11	28-Mar-92	28.1
02C11P2	16-Mar-91	27.7
02C16P2	01-Jun-91	26.8
02C18	16-Mar-91	26.1
02C16P2	13-Nov-91	26
02C16	16-Mar-91	25.8
02C16P2	28-Mar-92	24.8
02C20	13-Nov-91	21.4
02C10P3	01-Jun-91	19.8
02C13P3	13-Nov-91	15.3
02C22P2	28-Mar-92	15
02C10P3	13-Nov-91	14.2
02C10P3	28-Mar-92	14.1
02C11	13-Nov-91	13.5
02C11	01-Jun-91	11.2
02C13P3	16-Mar-91	10.1
02C22P2	16-Mar-91	9.86
02C20P2	28-Mar-92	9.39
02C13P3	01-Jun-91	8.51
02C13P3	28-Mar-92	8.48
02C14P3	16-Mar-91	7.83
02C20P2	13-Nov-91	3.26
02C20	16-Mar-91	2.33
02C20P2	16-Mar-91	1.71
02C12P3	28-Mar-92	1.7
02C11	16-Mar-91	1.68

(Sheet 4 of 5)

Table 22 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C12P2	28-Mar-92	1.21
02C14P2	16-Mar-91	0.452
02C12P2	13-Nov-91	0.353
02C14P2	13-Nov-91	0.29
02C12P2	01-Jun-91	0.239
02C14P2	01-Jun-91	0.225
02C14P2	28-Mar-92	0.142
02C12	13-Nov-91	0.114

(Sheet 5 of 5)

Table 23
Detected Levels of Manganese at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C22P3	16-Mar-91	30.1
02C22P3	13-Nov-91	30.1
02C22P3	01-Jun-91	29.5
02C22P3	28-Mar-92	28
02-06	01-Jun-91	16.4
02-06	16-Mar-91	14.8
02-06	13-Nov-91	13
02-06	28-Mar-92	12.4
02-05	01-Jun-91	7.1
02-05	13-Nov-91	6.29
02-05	28-Mar-92	6.22
02-04	01-Jun-91	4.06
02-04	28-Mar-92	3.61
02-02	16-Mar-91	3.55
02-04	13-Nov-91	3.53
02-04	16-Mar-91	3.49
02C19P2	28-Mar-92	3.27
02C19P2	13-Nov-91	3.24
02C14P3	28-Mar-92	2.59
02C19P2	01-Jun-91	2.5
02C19P2	16-Mar-91	2.49
02C14P3	01-Jun-91	2.48
02C14P3	13-Nov-91	2.38
02C13P2	16-Mar-91	2.25
02C12P3	13-Nov-91	2.05
02C11P3	28-Mar-92	2.04
02C11P3	16-Mar-91	1.92
02C13P2	01-Jun-91	1.86
02C11P3	13-Nov-91	1.85
02C11P3	01-Jun-91	1.79
02C13P2	13-Nov-91	1.71
02C10P3	01-Jun-91	1.66
02C18P2	01-Jun-91	1.64

(Sheet 1 of 4)

Table 23 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C18P2	28-Mar-92	1.59
02C18P2	16-Mar-91	1.55
02C13P2	28-Mar-92	1.54
02C18P2	13-Nov-91	1.52
02C10P3	16-Mar-91	1.47
02C15P2	16-Mar-91	1.43
02C12	28-Mar-92	1.38
02C12P3	16-Mar-91	1.35
02-02	01-Jun-91	1.3
02C12P3	01-Jun-91	1.26
02-08	16-Mar-91	1.22
02C17P2	16-Mar-91	1.14
02C15P2	28-Mar-92	0.961
02C13P3	13-Nov-91	0.946
02C17P2	13-Nov-91	0.906
02C17P2	01-Jun-91	0.841
02C15P2	13-Nov-91	0.815
02C15P2	01-Jun-91	0.77
02-02	13-Nov-91	0.757
02C10P3	13-Nov-91	0.721
02C17P2	28-Mar-92	0.71
02C10P3	28-Mar-92	0.621
02C20P3	28-Mar-92	0.525
02C20P3	13-Nov-91	0.49
02C16P2	01-Jun-91	0.484
02C16P2	16-Mar-91	0.464
02C20P3	16-Mar-91	0.445
02C16P2	13-Nov-91	0.433
02C11P2	16-Mar-91	0.415
02C16P2	28-Mar-92	0.41
02C20P3	01-Jun-91	0.403
02C11P2	28-Mar-92	0.366
02C13P3	01-Jun-91	0.319
02-03	16-Mar-91	0.316

(Sheet 2 of 4)

Table 23 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C10P2	13-Nov-91	0.297
02C13P3	16-Mar-91	0.265
02C11P2	13-Nov-91	0.253
02C11P2	01-Jun-91	0.226
02C10P2	28-Mar-92	0.193
02C13P3	28-Mar-92	0.183
02C10P2	16-Mar-91	0.177
02-02	28-Mar-92	0.163
02C10P2	01-Jun-91	0.149
02-08	28-Mar-92	0.09
02C19	01-Jun-91	0.075
02C14P3	16-Mar-91	0.074
02C18	16-Mar-91	0.073
02C18	01-Jun-91	0.054
02C18	13-Nov-91	0.051
02-07	13-Nov-91	0.034
02C18	28-Mar-92	0.033
02C10	13-Nov-91	0.027
02-01	13-Nov-91	0.025
02C17	13-Nov-91	0.025
02-03	13-Nov-91	0.024
02C10	01-Jun-91	0.022
02C17	28-Mar-92	0.021
02C10	28-Mar-92	0.02
02C10	16-Mar-91	0.02
02C20	28-Mar-92	0.02
02-03	28-Mar-92	0.019
02C14	01-Jun-91	0.018
02C09	16-Mar-91	0.017
02C17	16-Mar-91	0.015
02C16	13-Nov-91	0.014
02C14	28-Mar-92	0.013
02-08	13-Nov-91	0.013
02C13	13-Nov-91	0.013

(Sheet 3 of 4)

Table 23 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C22P2	28-Mar-92	0.012
02C19	13-Nov-91	0.012
02C09	01-Jun-91	0.011
02C19	28-Mar-92	0.011
02C11	13-Nov-91	0.011
02C20	13-Nov-91	0.011
02C17	01-Jun-91	0.01
02C14	13-Nov-91	0.01
02C16	28-Mar-92	0.009
02C12P2	13-Nov-91	0.009
02C13	01-Jun-91	0.008
02C14P2	13-Nov-91	0.007
02-08	01-Jun-91	0.007
02C15	16-Mar-91	0.007
02C14P2	01-Jun-91	0.006
02C11	01-Jun-91	0.006
02C13	28-Mar-92	0.006
02C20P2	13-Nov-91	0.006
02C09	28-Mar-92	0.005
02-07	01-Jun-91	0.005
02C09	13-Nov-91	0.005

(Sheet 4 of 4)

Table 24
Detected Levels of Nickel at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02-06	13-Nov-91	1.85
02-06	01-Jun-91	1.84
02-06	16-Mar-91	1.67
02-06	28-Mar-92	1.43
02-04	16-Mar-91	1.15
02C11P3	28-Mar-92	1.02
02-04	28-Mar-92	1
02C11P3	13-Nov-91	0.985
02-04	13-Nov-91	0.955
02C11P3	16-Mar-91	0.944
02C11P3	01-Jun-91	0.923
02-04	01-Jun-91	0.905
02C22P3	13-Nov-91	0.615
02C22P3	16-Mar-91	0.593
02C22P3	28-Mar-92	0.565
02C14P3	28-Mar-92	0.55
02C14P3	13-Nov-91	0.524
02C14P3	01-Jun-91	0.514
02C22P3	01-Jun-91	0.513
02C11P2	28-Mar-92	0.299
02C16P2	01-Jun-91	0.25
02C16P2	28-Mar-92	0.242
02C16P2	13-Nov-91	0.233
02C16P2	16-Mar-91	0.224
02C15P2	28-Mar-92	0.211
02C17P2	28-Mar-92	0.196
02C17P2	13-Nov-91	0.177
02C11P2	13-Nov-91	0.156
02C19P2	13-Nov-91	0.144
02C11P2	16-Mar-91	0.139
02C19P2	28-Mar-92	0.127
02C11P2	01-Jun-91	0.122
02C17P2	01-Jun-91	0.118

(Sheet 1 of 3)

Table 24 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C17P2	16-Mar-91	0.116
02C18P2	28-Mar-92	0.104
02C15P2	13-Nov-91	0.098
02C18P2	16-Mar-91	0.093
02C15P2	01-Jun-91	0.088
02C19P2	16-Mar-91	0.081
02C18P2	01-Jun-91	0.078
02C19P2	01-Jun-91	0.069
02C18P2	13-Nov-91	0.067
02C15P2	16-Mar-91	0.066
02-08	16-Mar-91	0.057
02-05	28-Mar-92	0.05
02-05	01-Jun-91	0.048
02-08	28-Mar-92	0.047
02C13P2	28-Mar-92	0.047
02C10	28-Mar-92	0.046
02C13P2	13-Nov-91	0.043
02-08	13-Nov-91	0.043
02C13P2	01-Jun-91	0.039
02-05	13-Nov-91	0.038
02C12	28-Mar-92	0.034
02-02	16-Mar-91	0.034
02C13P2	16-Mar-91	0.029
02-08	01-Jun-91	0.027
02C09	28-Mar-92	0.024
02-02	13-Nov-91	0.023
02C20	28-Mar-92	0.022
02C20P2	28-Mar-92	0.019
02C10P3	28-Mar-92	0.018
02C13P3	01-Jun-91	0.016
02C12P2	28-Mar-92	0.016
02C12P3	01-Jun-91	0.014
02C20P3	01-Jun-91	0.014
02C12P3	28-Mar-92	0.013

(Sheet 2 of 3)

Table 24 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C13P3	28-Mar-92	0.013
02C17	28-Mar-92	0.013
02C13	28-Mar-92	0.013
02C12P3	13-Nov-91	0.013
02-07	13-Nov-91	0.012
02C12P3	16-Mar-91	0.011
02-02	28-Mar-92	0.011
02C13P3	13-Nov-91	0.011
02-02	01-Jun-91	0.01
02C10P3	13-Nov-91	0.008
02C10	13-Nov-91	0.008
02-01	13-Nov-91	0.007
02C13	01-Jun-91	0.007
02C10P3	01-Jun-91	0.007
02C11	28-Mar-92	0.007
02-07	28-Mar-92	0.006
02C13P3	16-Mar-91	0.006
02C09	16-Mar-91	0.005
02C20P3	28-Mar-92	0.005
02C10	01-Jun-91	0.005
02C18	13-Nov-91	0.005
02C18	28-Mar-92	0.005
02-03	28-Mar-92	0.005
02C10	16-Mar-91	0.005
02C16	28-Mar-92	0.002

(Sheet 3 of 3)

Table 25
Detected Levels of Potassium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C12	13-Nov-91	650
02C12P3	28-Mar-92	218
02C11	16-Mar-91	72.8
02C11	28-Mar-92	66.1
02C20	28-Mar-92	66
02C20	13-Nov-91	60.5
02C11	01-Jun-91	58.8
02C16	16-Mar-91	50.5
02C20P2	16-Mar-91	49.9
02C11	13-Nov-91	48.8
02C20	16-Mar-91	46.8
02C16	01-Jun-91	43.1
02C16	13-Nov-91	41.2
02C16	28-Mar-92	39.8
02C20P2	28-Mar-92	39.7
02C20P2	13-Nov-91	38.6
02C15	16-Mar-91	35.9
02C12P3	01-Jun-91	34.5
02C14	28-Mar-92	27.4
02C12	28-Mar-92	26.1
02C12P3	16-Mar-91	25.5
02C19	28-Mar-92	20.1
02C14	01-Jun-91	20
02C14	13-Nov-91	17
02C19	16-Mar-91	16.4
02C13	01-Jun-91	16.1
02C19	13-Nov-91	15.6
02C22P3	13-Nov-91	15.4
02C12P3	13-Nov-91	15
02C22P3	28-Mar-92	14.4
02C22P3	16-Mar-91	14.3
02C12P2	28-Mar-92	14.2
02C22P3	01-Jun-91	13.5

(Sheet 1 of 5)

Table 25 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C10	01-Jun-91	13.5
02C14P2	16-Mar-91	12.3
02C14	16-Mar-91	12.3
02C19	01-Jun-91	11.6
02C12P2	13-Nov-91	11.4
02C13	28-Mar-92	11.3
02-05	28-Mar-92	11.2
02-06	28-Mar-92	10.4
02C10	16-Mar-91	10.2
02C13	13-Nov-91	10.1
02C10	13-Nov-91	9.37
02C17P2	13-Nov-91	9.32
02C17	13-Nov-91	8.96
02-05	13-Nov-91	8.75
02C12P2	01-Jun-91	8.72
02C13P2	01-Jun-91	8.59
02C12P2	16-Mar-91	8.54
02C19P2	01-Jun-91	8.49
02-05	01-Jun-91	8.47
02C18P2	13-Nov-91	8.46
02C18P2	28-Mar-92	8.43
02C10	28-Mar-92	8.39
02-06	13-Nov-91	8.31
02C13P2	28-Mar-92	8.3
02C10P2	16-Mar-91	8.17
02C10P2	01-Jun-91	7.95
02C13P2	13-Nov-91	7.88
02C17	16-Mar-91	7.85
02C18P2	01-Jun-91	7.74
02C18	28-Mar-92	7.72
02C18P2	16-Mar-91	7.7
02C09	16-Mar-91	7.7
02C18	13-Nov-91	7.53
02C14P2	01-Jun-91	7.51

(Sheet 2 of 5)

Table 25 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02C13P2	16-Mar-91	7.49
02C10P2	28-Mar-92	7.42
02C22P2	28-Mar-92	7.31
02C19P2	13-Nov-91	7.31
02C11P2	28-Mar-92	7.3
02C14P2	13-Nov-91	7.24
02C09	01-Jun-91	7.16
02C17P2	16-Mar-91	7.1
02-06	01-Jun-91	7.08
02C17P2	01-Jun-91	6.97
02C17P2	28-Mar-92	6.93
02C18	16-Mar-91	6.91
02C14P2	28-Mar-92	6.76
02C19P2	28-Mar-92	6.72
02C17	28-Mar-92	6.64
02-04	13-Nov-91	6.54
02C15P2	13-Nov-91	6.52
02C15P2	01-Jun-91	6.42
02C10P2	13-Nov-91	6.31
02C15P2	16-Mar-91	6.21
02C15P2	28-Mar-92	6.03
02C19P2	16-Mar-91	6.02
02C11P3	13-Nov-91	5.9
02-03	01-Jun-91	5.79
02C17	01-Jun-91	5.75
02-04	28-Mar-92	5.74
02-08	28-Mar-92	5.71
02-06	16-Mar-91	5.7
02C11P2	16-Mar-91	5.55
02C18	01-Jun-91	5.51
02-02	13-Nov-91	5.48
02-04	01-Jun-91	5.42
02C11P3	28-Mar-92	5.41
02-04	16-Mar-91	5.22

(Sheet 3 of 5)

Table 25 (Continued)

Well Number	Date Sampled	Amount Detected mg/l
02-08	13-Nov-91	4.91
02-02	28-Mar-92	4.82
02C09	28-Mar-92	4.82
02-02	01-Jun-91	4.81
02C11P3	01-Jun-91	4.81
02-03	13-Nov-91	4.77
02C14P3	13-Nov-91	4.64
02C22P2	16-Mar-91	4.61
02C16P2	13-Nov-91	4.57
02C11P3	16-Mar-91	4.55
02C11P2	13-Nov-91	4.33
02C09	13-Nov-91	4.31
02-02	16-Mar-91	4.31
02-08	01-Jun-91	4.28
02-03	28-Mar-92	4.24
02-07	13-Nov-91	4.14
02C20P3	13-Nov-91	4.08
02C14P3	28-Mar-92	4.06
02C20P3	28-Mar-92	4.05
02-07	28-Mar-92	3.98
02C11P2	01-Jun-91	3.81
02C20P3	01-Jun-91	3.81
02C14P3	01-Jun-91	3.69
02C20P3	16-Mar-91	3.47
02-03	16-Mar-91	3.39
02-01	13-Nov-91	3.36
02C16P2	28-Mar-92	3.28
02-08	16-Mar-91	3.17
02C16P2	01-Jun-91	3.14
02C16P2	16-Mar-91	3.13
02-01	28-Mar-92	2.87
02-07	01-Jun-91	2.83

(Sheet 4 of 5)

Table 25 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02-07	16-Mar-91	2.31
02C10P3	01-Jun-91	1.46
02C13P3	13-Nov-91	1.34
02C10P3	28-Mar-92	1.22
02C10P3	13-Nov-91	1.17
02C13P3	01-Jun-91	1.14
02C13P3	28-Mar-92	0.923

(Sheet 5 of 5)

Table 26
Detected Levels of Selenium at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C13	13-Nov-91	0.058
02C13	28-Mar-92	0.0546
02C13	01-Jun-91	0.032
02-01	28-Mar-92	0.0107
02C10	01-Jun-91	0.0094
02C12P2	28-Mar-92	0.0091
02-01	13-Nov-91	0.009
02C12	13-Nov-91	0.0086
02C12P2	13-Nov-91	0.0086
02C18	01-Jun-91	0.0082
02C11	16-Mar-91	0.0069
02C11	28-Mar-92	0.0067
02C11	01-Jun-91	0.0058
02-07	01-Jun-91	0.0054
02-07	28-Mar-92	0.0052
02C18	28-Mar-92	0.0051
02-08	01-Jun-91	0.0046
02C20P2	13-Nov-91	0.0043
02-07	16-Mar-91	0.0043
02C15	16-Mar-91	0.0042
02C10	28-Mar-92	0.0039
02C20	16-Mar-91	0.0033
02C20P2	16-Mar-91	0.0033
02C10	13-Nov-91	0.0032
02C10	16-Mar-91	0.0032
02C18	13-Nov-91	0.003
02-07	13-Nov-91	0.003
02-08	16-Mar-91	0.0029
02C11	13-Nov-91	0.0026

(Continued)

Table 26 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C17P2	13-Nov-91	0.0023
02C09	16-Mar-91	0.0023
02-06	16-Mar-91	0.0022
02C17P2	01-Jun-91	0.0022
02C09	13-Nov-91	0.0022
02C12P2	01-Jun-91	0.0022
02-08	28-Mar-92	0.0021
02C09	01-Jun-91	0.002

Table 27
Detected Levels of Zinc at the Dye Burial Ground

Well Number	Date Sampled	Amount Detected mg/l
02C11P3	28-Mar-92	1.79
02C11P3	16-Mar-91	1.78
02-06	13-Nov-91	1.61
02C11P3	13-Nov-91	1.61
02-06	01-Jun-91	1.58
02C11P3	01-Jun-91	1.39
02-06	16-Mar-91	1.17
02-06	28-Mar-92	1.14
02-04	16-Mar-91	0.755
02-04	28-Mar-92	0.585
02C15P2	28-Mar-92	0.489
02-04	13-Nov-91	0.484
02C11P2	28-Mar-92	0.428
02-04	01-Jun-91	0.418
02C22P3	28-Mar-92	0.397
02C22P3	13-Nov-91	0.396
02C22P3	16-Mar-91	0.373
02C22P3	01-Jun-91	0.36
02C17P2	28-Mar-92	0.344
02C17P2	13-Nov-91	0.266
02C11P2	13-Nov-91	0.193
02C15P2	13-Nov-91	0.185
02C15P2	01-Jun-91	0.183
02C11P2	16-Mar-91	0.178
02C17P2	01-Jun-91	0.152
02C11P2	01-Jun-91	0.118
02C17P2	16-Mar-91	0.116
02C14P3	13-Nov-91	0.109
02C14P3	28-Mar-92	0.101
02-08	28-Mar-92	0.092
02C14P3	01-Jun-91	0.075
02-08	16-Mar-91	0.07
02C16P2	28-Mar-92	0.069

(Continued)

Table 27 (Concluded)

Well Number	Date Sampled	Amount Detected mg/l
02C16P2	16-Mar-91	0.069
02-08	13-Nov-91	0.062
02-08	01-Jun-91	0.058
02C16P2	01-Jun-91	0.043
02C16P2	13-Nov-91	0.042
02C15P2	16-Mar-91	0.037
02C13P2	01-Jun-91	0.037
02C17	28-Mar-92	0.036
02C16	28-Mar-92	0.035
02C10P3	01-Jun-91	0.031
02C10P3	13-Nov-91	0.03
02C10P3	16-Mar-91	0.027
02C10P3	28-Mar-92	0.022
02C19P2	13-Nov-91	0.021
02C13P3	01-Jun-91	0.021
02-05	13-Nov-91	0.015
02C18P2	01-Jun-91	0.014
02C19P2	28-Mar-92	0.012
02C12	28-Mar-92	0.011
02C18P2	28-Mar-92	0.01
02C19P2	01-Jun-91	0.009
02C17	13-Nov-91	0.007
02C13	01-Jun-91	0.007
02C10P2	01-Jun-91	0.007
02C12P3	16-Mar-91	0.007
02C20P3	01-Jun-91	0.006
02C18P2	13-Nov-91	0.006
02-07	13-Nov-91	0.005

Table 28
Metals Detected in Water and Sediments of the DBG Seep in June 1988

Sample[1]	Date Sampled	Metal	Status[2]	Amount Detected (or D.L.)	Unit
02SEEPWat	27-Jun-88	ANTIMONY	<	0.005	mg/L
02SEEPWat	27-Jun-88	ARSENIC, TOTAL		0.049	mg/L
02SEEPWat	27-Jun-88	BERYLLIUM		0.023	mg/L
02SEEPWat	27-Jun-88	CADMIUM, TOTAL		0.0011	mg/L
02SEEPWat	27-Jun-88	CHROMIUM, TOTAL		0.006	mg/L
02SEEPWat	27-Jun-88	COPPER, TOTAL		0.046	mg/L
02SEEPWat	27-Jun-88	LEAD, TOTAL		0.053	mg/L
02SEEPWat	27-Jun-88	MERCURY, TOTAL	<	0.0008	mg/L
02SEEPWat	27-Jun-88	NICKEL, TOTAL		0.885	mg/L
02SEEPWat	27-Jun-88	SELENIUM, TOTAL	<	0.005	mg/L
02SEEPWat	27-Jun-88	SILVER, TOTAL	<	0.001	mg/L
02SEEPWat	27-Jun-88	THALLIUM	<	0.001	mg/L
02SEEPWat	27-Jun-88	ZINC, TOTAL		5.05	mg/L
02SEEPWat	27-Jun-88	SODIUM		40.3	mg/L
02SEEPSed	27-Jun-88	ANTIMONY	<	0.5	mg/Kg
02SEEPSed	27-Jun-88	ARSENIC, TOTAL		6.28	mg/Kg
02SEEPSed	27-Jun-88	BERYLLIUM		1.2	mg/Kg
02SEEPSed	27-Jun-88	CADMIUM, TOTAL		0.219	mg/Kg
02SEEPSed	27-Jun-88	CHROMIUM, TOTAL		27.8	mg/Kg
02SEEPSed	27-Jun-88	COPPER, TOTAL		8.67	mg/Kg
02SEEPSed	27-Jun-88	LEAD, TOTAL		18.9	mg/Kg
02SEEPSed	27-Jun-88	MERCURY, TOTAL	<	0.1	mg/Kg
02SEEPSed	27-Jun-88	NICKEL, TOTAL		131	mg/Kg
02SEEPSed	27-Jun-88	SELENIUM, TOTAL		0.8	mg/Kg
02SEEPSed	27-Jun-88	SILVER, TOTAL	<	0.1	mg/Kg
02SEEPSed	27-Jun-88	THALLIUM	<	0.1	mg/Kg
02SEEPSed	27-Jun-88	ZINC, TOTAL		139	mg/Kg

[1] 02SEEPWat = water sample, 02SEEPSed = sediment sample.
[2] < = not detected (less than D.L.).

Table 29
pH of Wells and Aquifers at the Dye Burial Grounds

Beech Creek Limestone		Golconda/Haney Limestone		Lower Penn. Sandstone		Upper Penn. Sandstone	
Well	pH[1]	Well	pH	Well	pH	Well	pH
02C09	7.65	02C09P2 (dry)		02-02	6.84	02-01	7.07
02C10[2]	7.17	02C10P2[2]	6.63	02-03[4]	6.30	02C12P3	7.10
02C11	8.54	02C11P2	6.63	02-04	5.92	02C13P3	5.95
02C12	12.27	02C12P2	10.99	02-05	6.54	02C17P3 (dry)	
02C14	8.61	02C13	7.83	02-06	6.50	02C18P3 (dry)	
02C20	7.55	02C14P2	10.94	02-07	6.70	02C19P3 (dry)	
02C22 (dry)		02C15	6.81	02-08	6.54		
		02C16	8.22	02C10P3[2]	5.91		
		02C17	6.78	02C11P3	4.28		
mean pH[3] for		02C18	7.19	02C13P2	6.48		
aquifer = 8.63		02C19	7.72	02C14P3	6.42	*mean pH for*	
		02C20P2	9.83	02C15P2	6.24	*aquifer = 6.70*	
		02C22P2	8.54	02C16P2	5.87		
				02C17P2	6.46		
				02C18P2	6.59		
		mean pH for		02C19P2	6.23		
		aquifer = 8.17		02C20P3	6.92		
				02C22P3	5.49		
				mean pH for			
				aquifer = 6.24			

[1] Mean pH of all sampling rounds for each well.
[2] Background well.
[3] Mean of well means.
[4] Screened in Hardinsburg shale but assigned to lower Pennsylvanian.

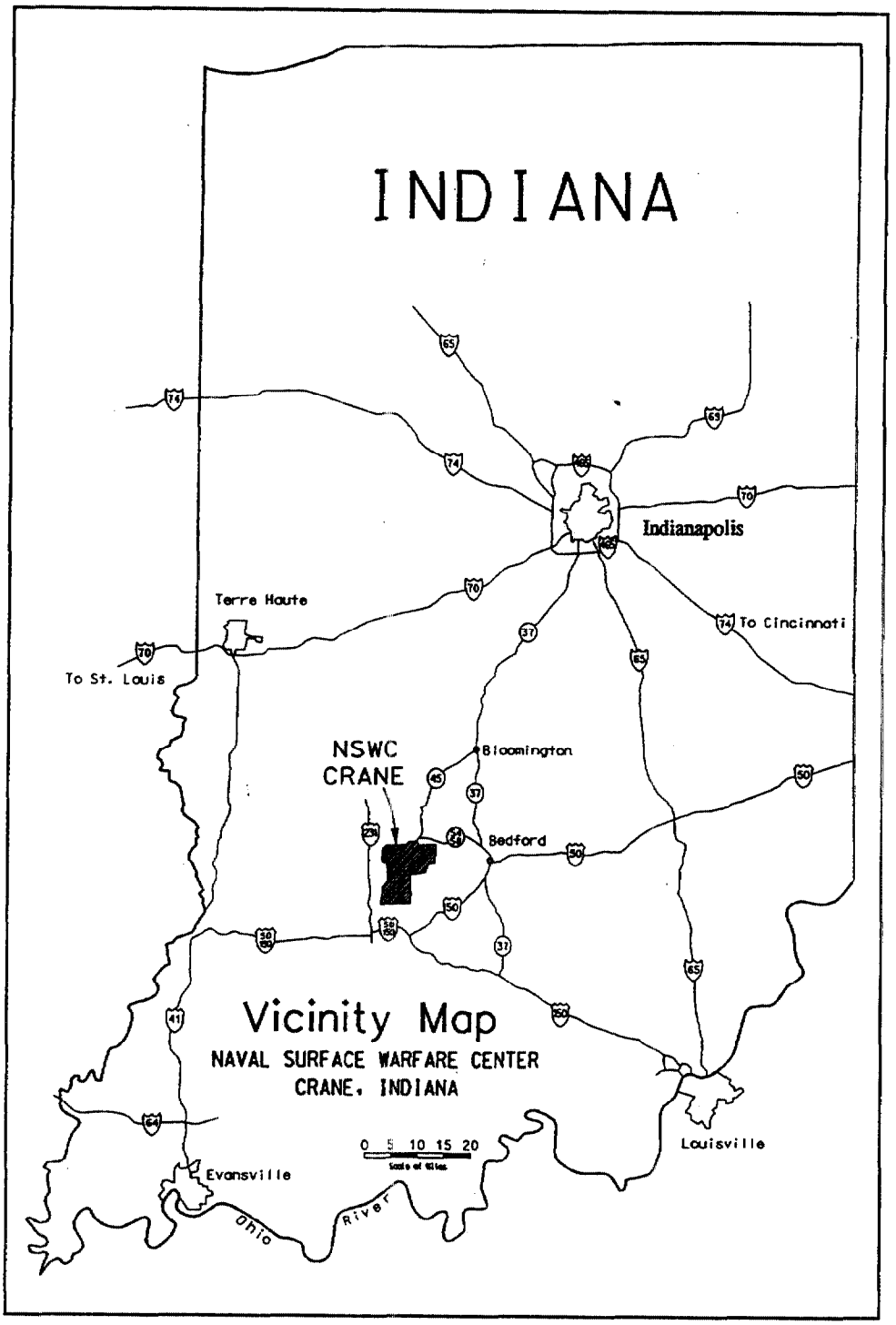


Figure 1. Location of NSWC Crane, Indiana

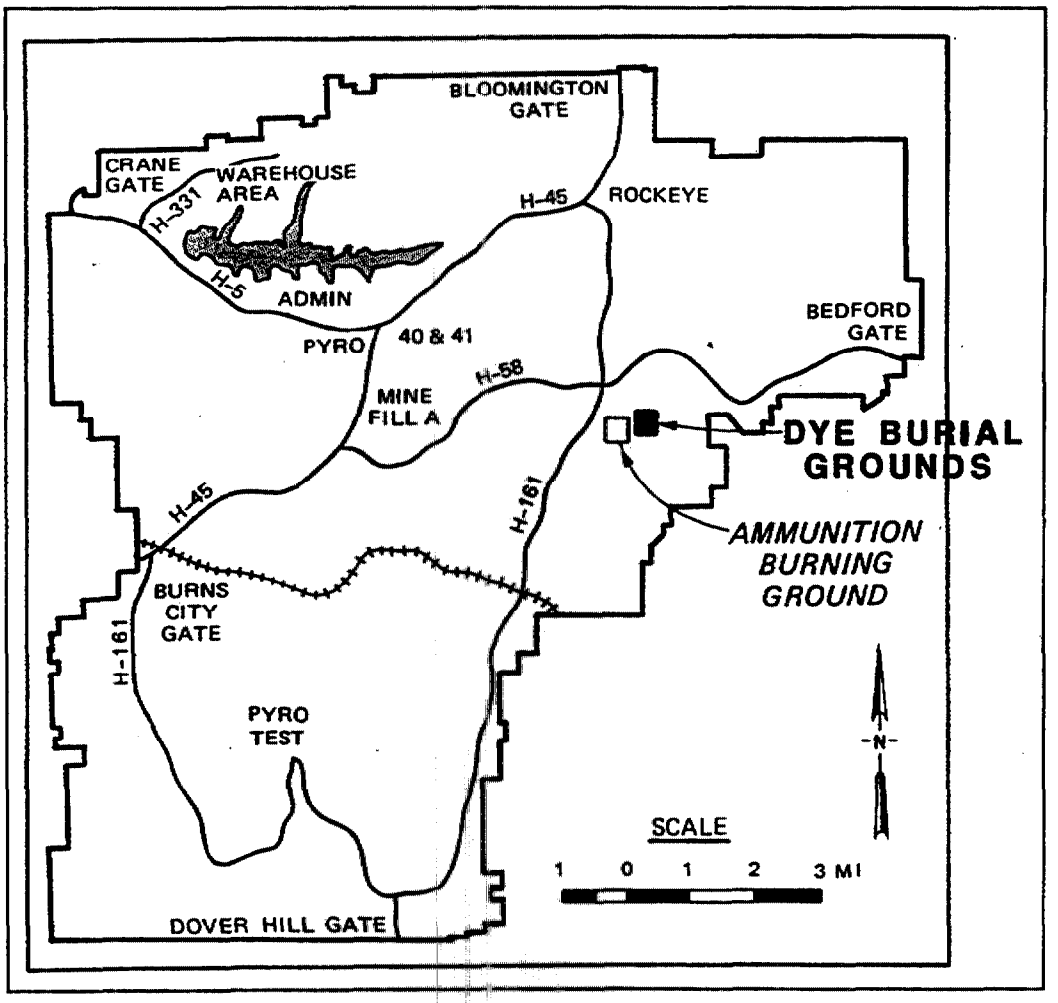


Figure 2. Location of Dye Burial Grounds

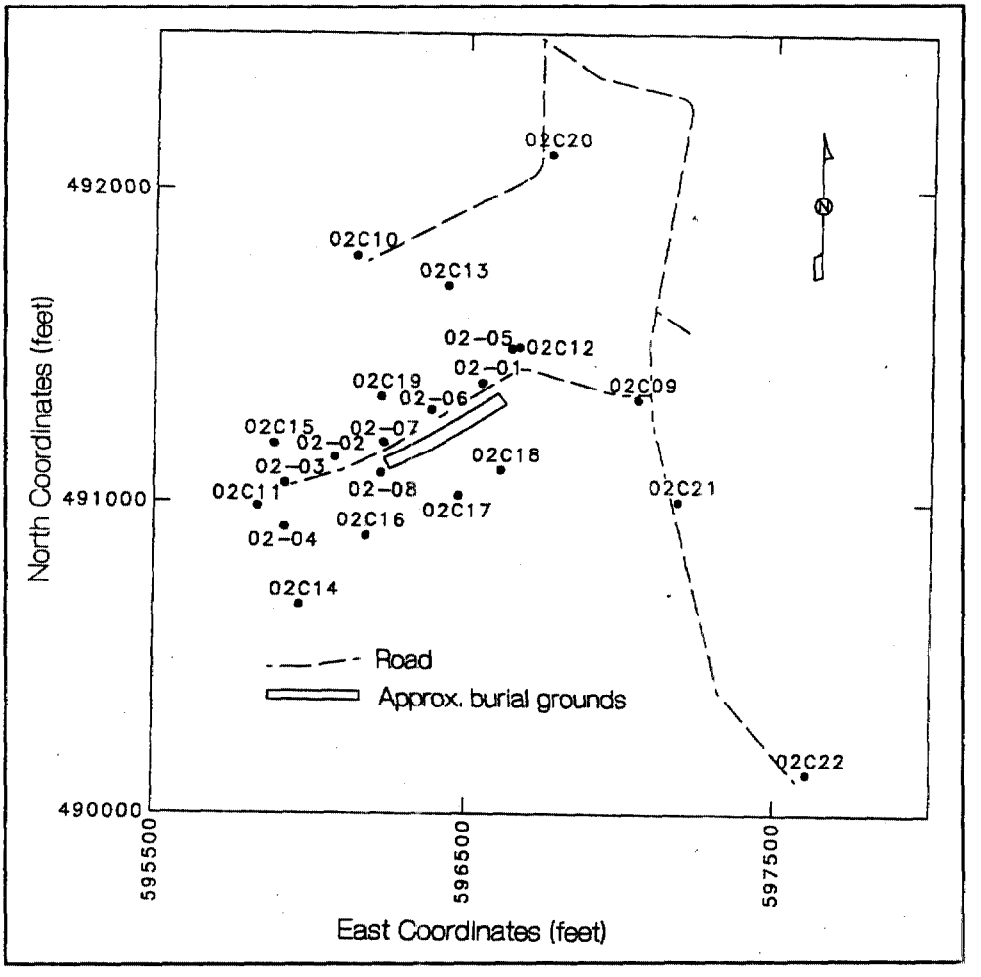


Figure 3. Locations of borings and well clusters for Dye Burial Grounds

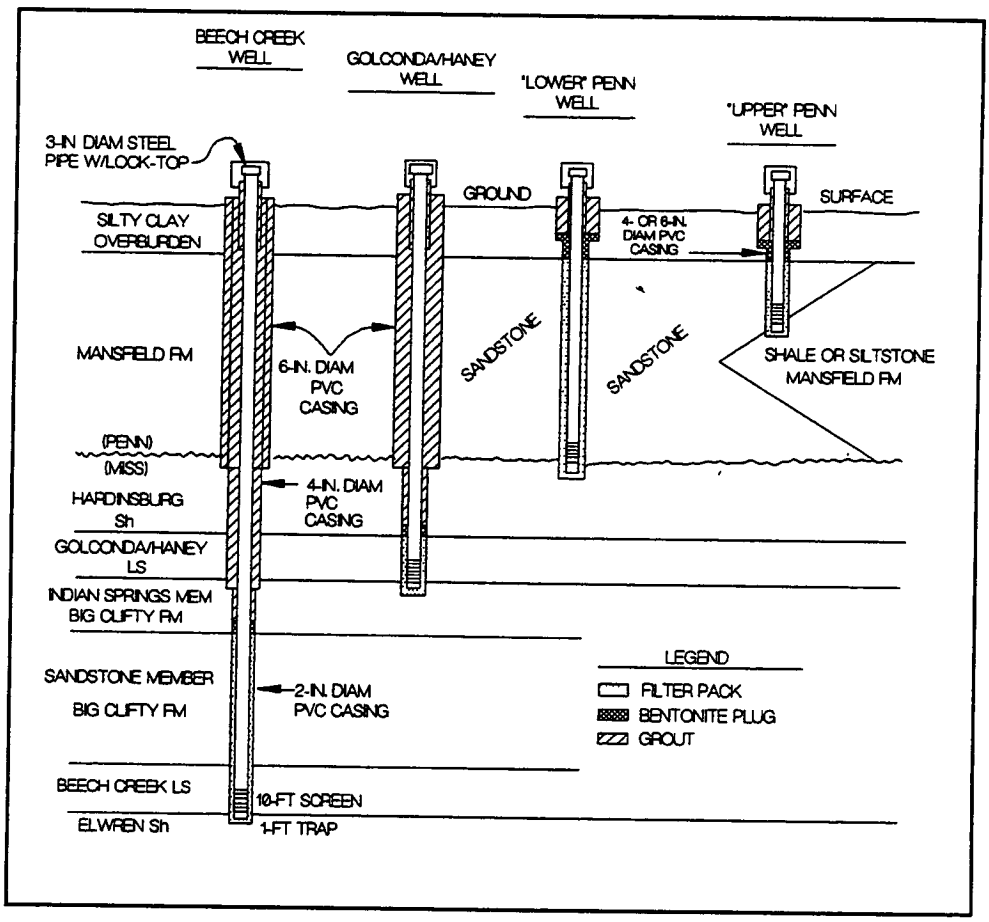


Figure 4. Well installation diagram for Dye Burial Grounds

U.S. Army Corps of Engineers

Chain of Custody Record
(ER 1110-1-263)

Proj. No.	Project Name														
Sampler : (Signature)															
Date	Time	Pres.	Grab	Comp	Site Code/Sample Number	Number of Containers									Remarks:

Sampler Relinquished by:	Date/Time	Received by: (Sig.)	Date/Time	Hazards Associated with Samples
Relinquished by: (Sig.)	Date/Time	Received by: (Sig.)	Date/Time	
Relinquished by: (Sig)	Date/Time	Received for Laboratory by: (Sig.)	Date/Time	Remarks at time of receipt:
Custody Seal No.		Lab case No.:		

ENG Form 5021-R, Oct 90

Proponent: CEMP-RT

Figure 5. Chain-of-custody form for groundwater sampling

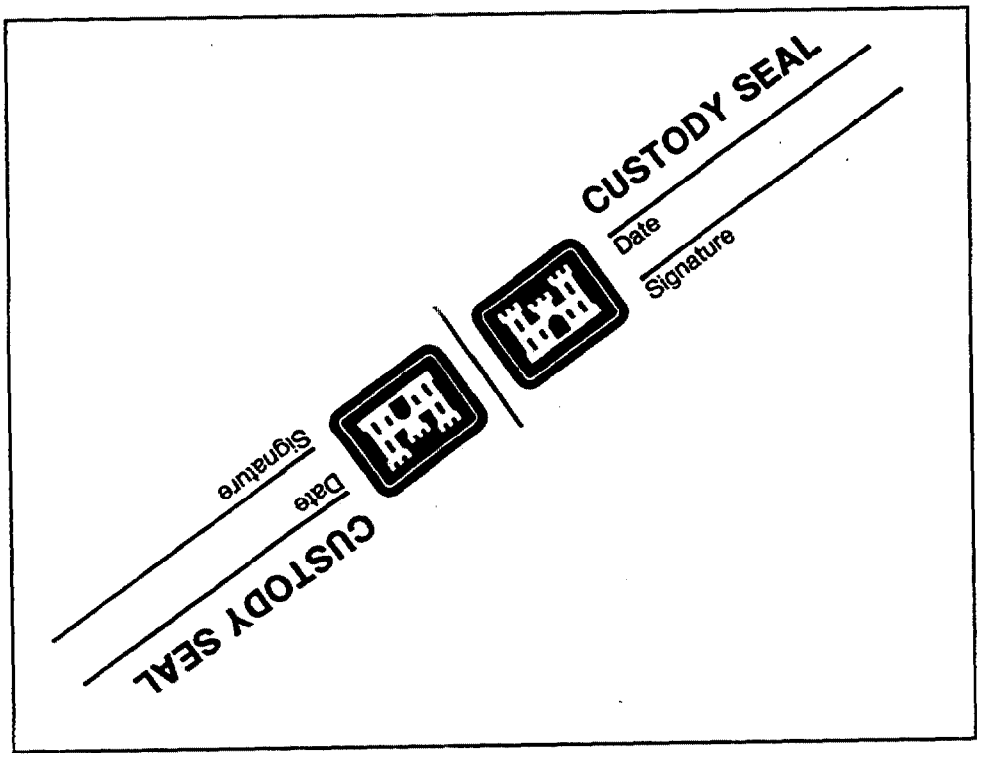


Figure 6. Example of chain-of-custody sample tag

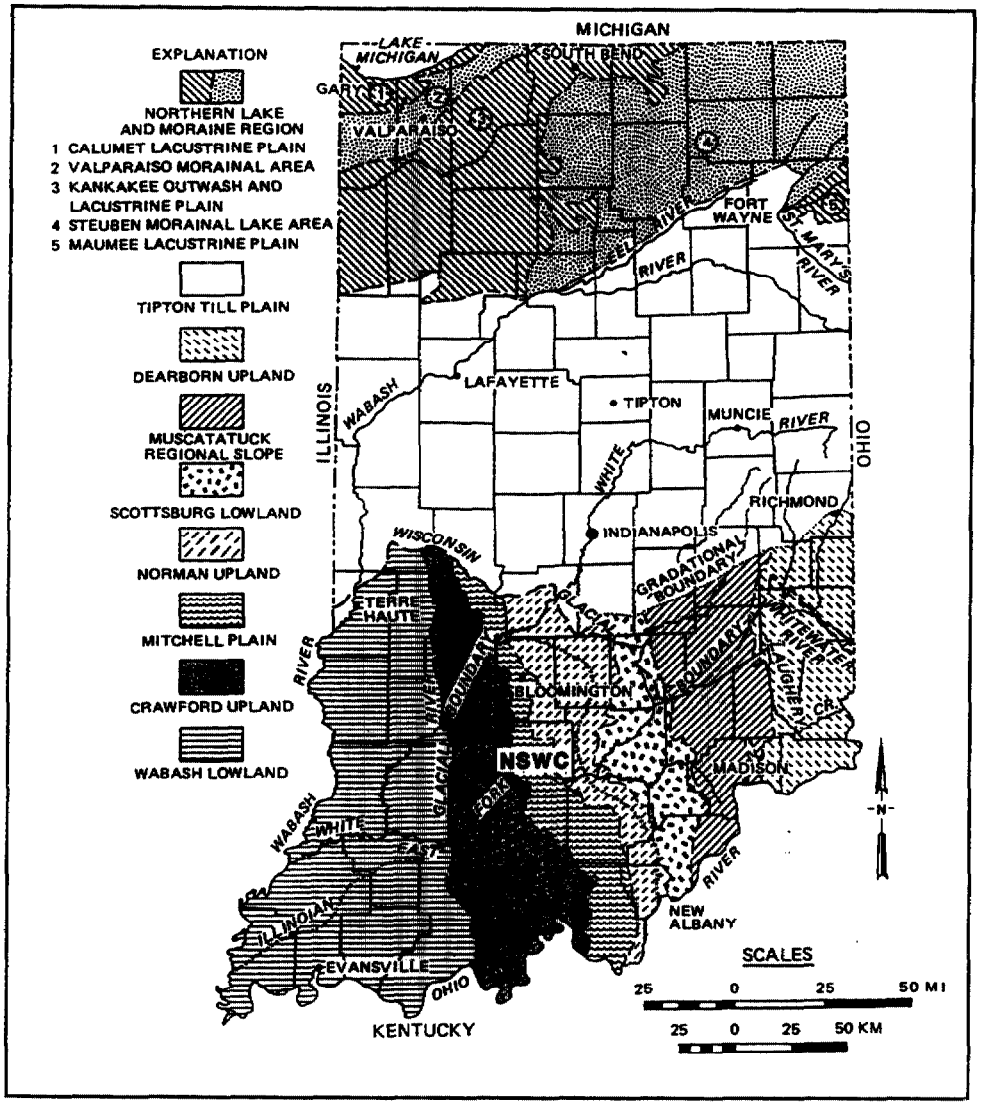


Figure 7. Physiographic divisions of the State of Indiana (Perry and Smith, 1958)

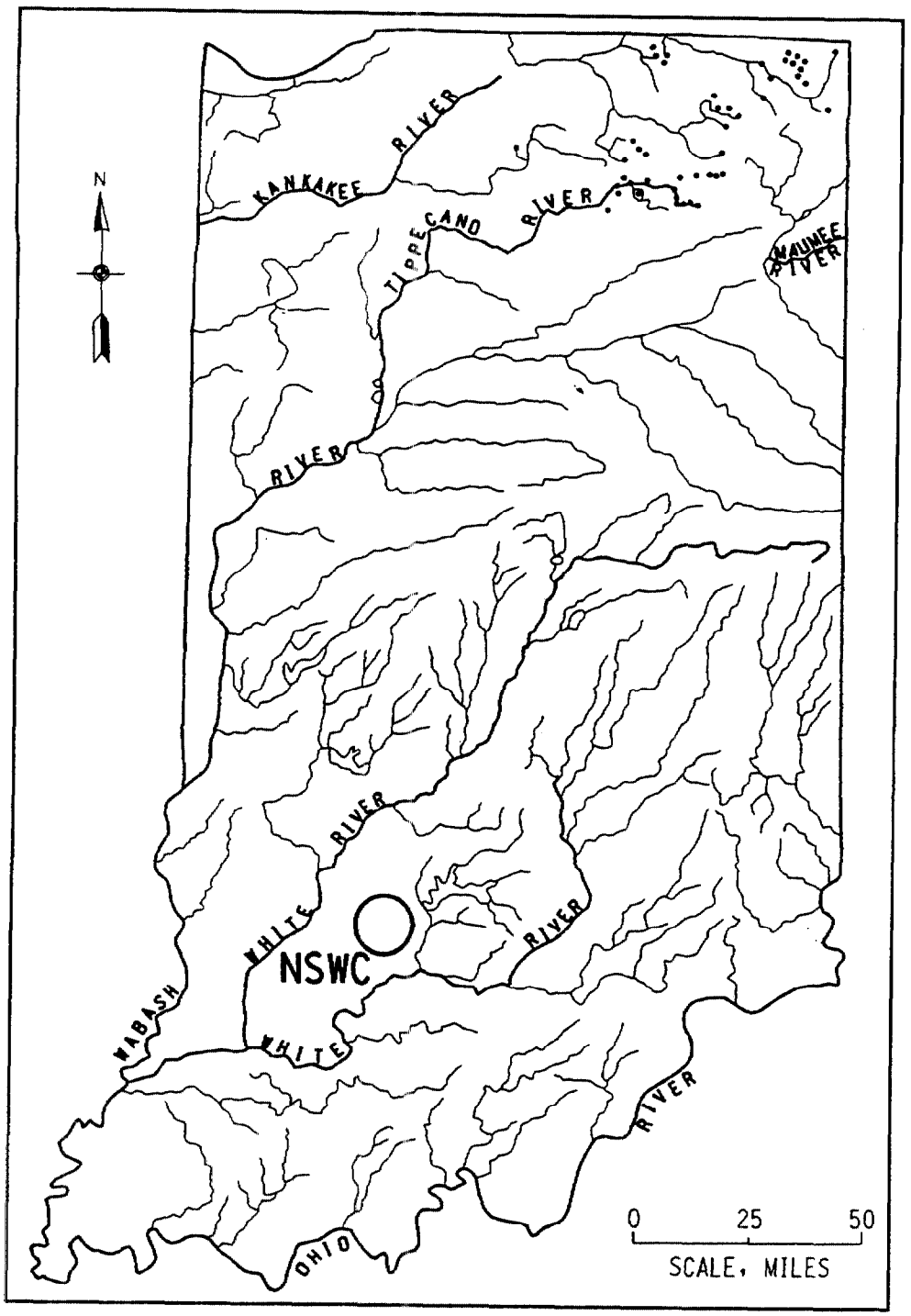


Figure 8. The stream system in Indiana (after Indiana Academy of Science, 1966)

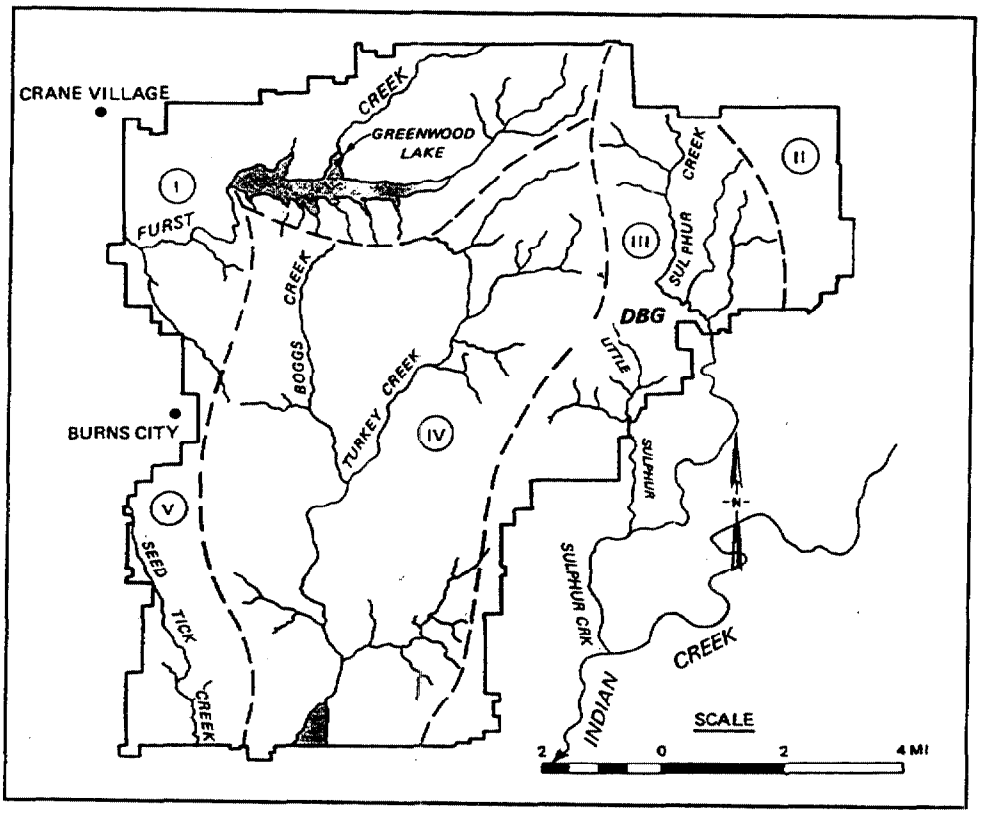


Figure 9. Major surface drainage basins at NSWC Crane (Chesapeake Division Naval Facilities Engineering Command, 1979)

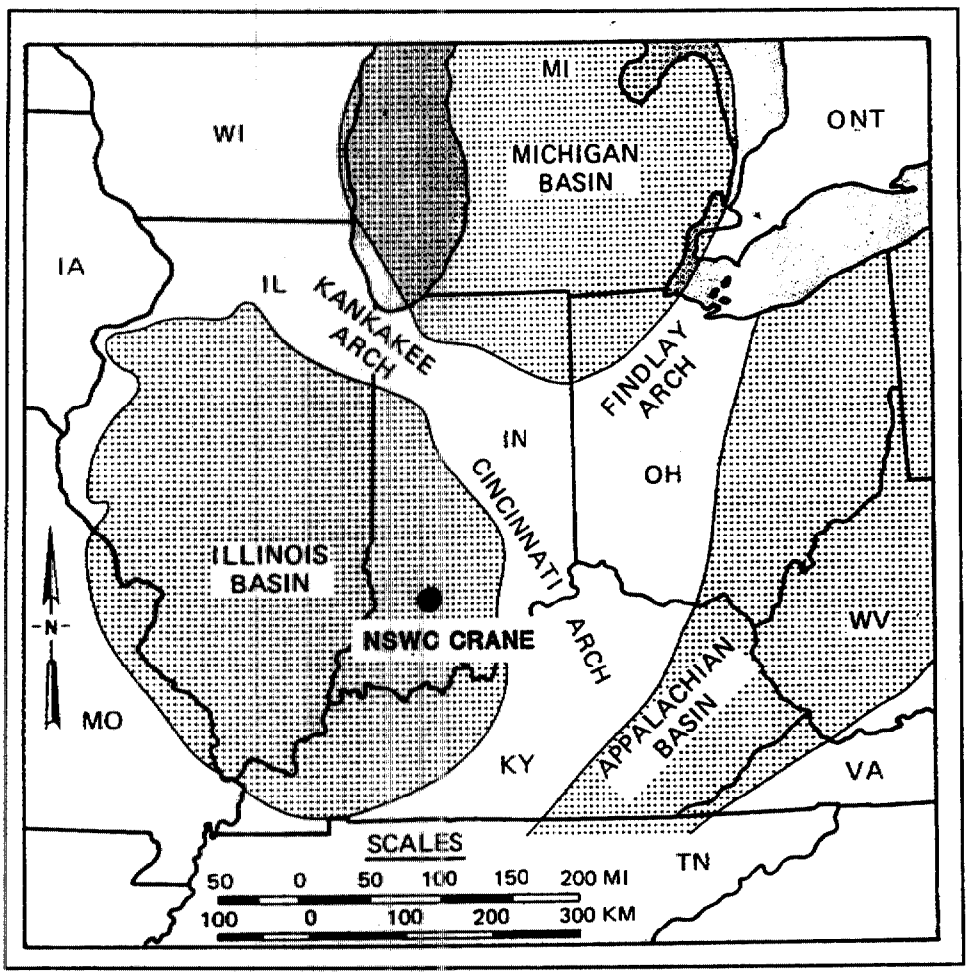


Figure 10. Major structural provinces of the Midwestern United States (Carpenter et al, 1975

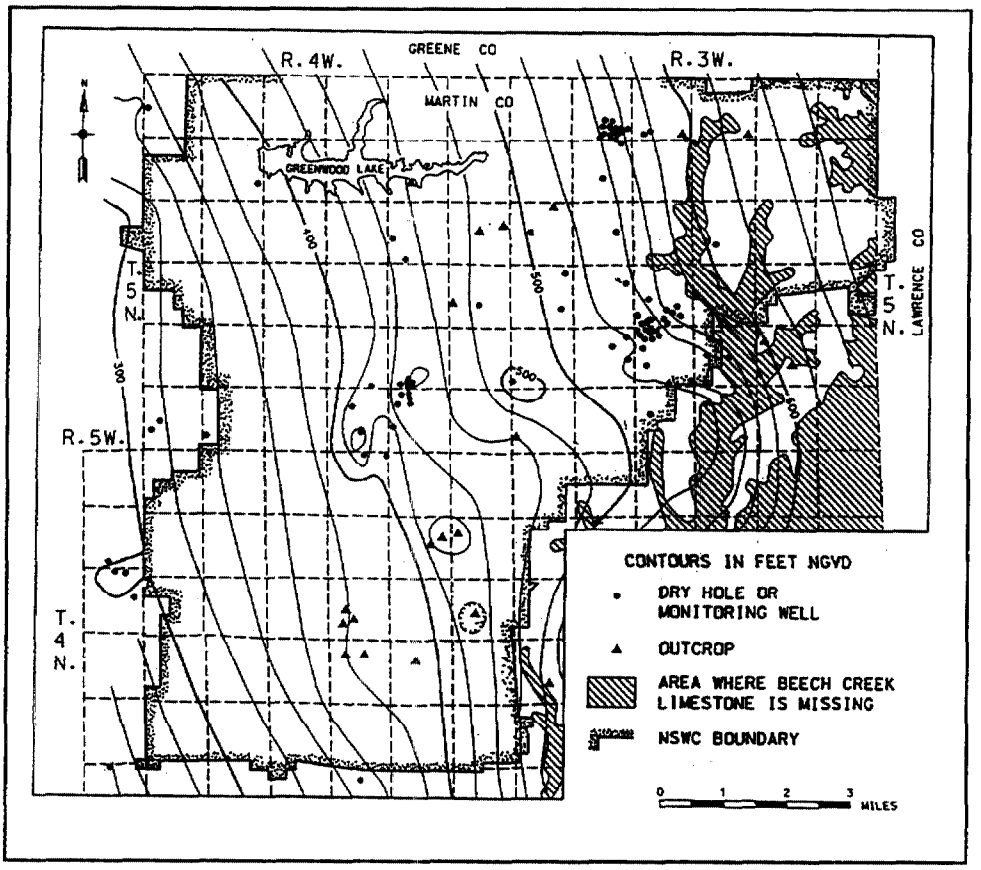


Figure 11. Structural contours on the base of the Beech Creek limestone, NSWC Crane

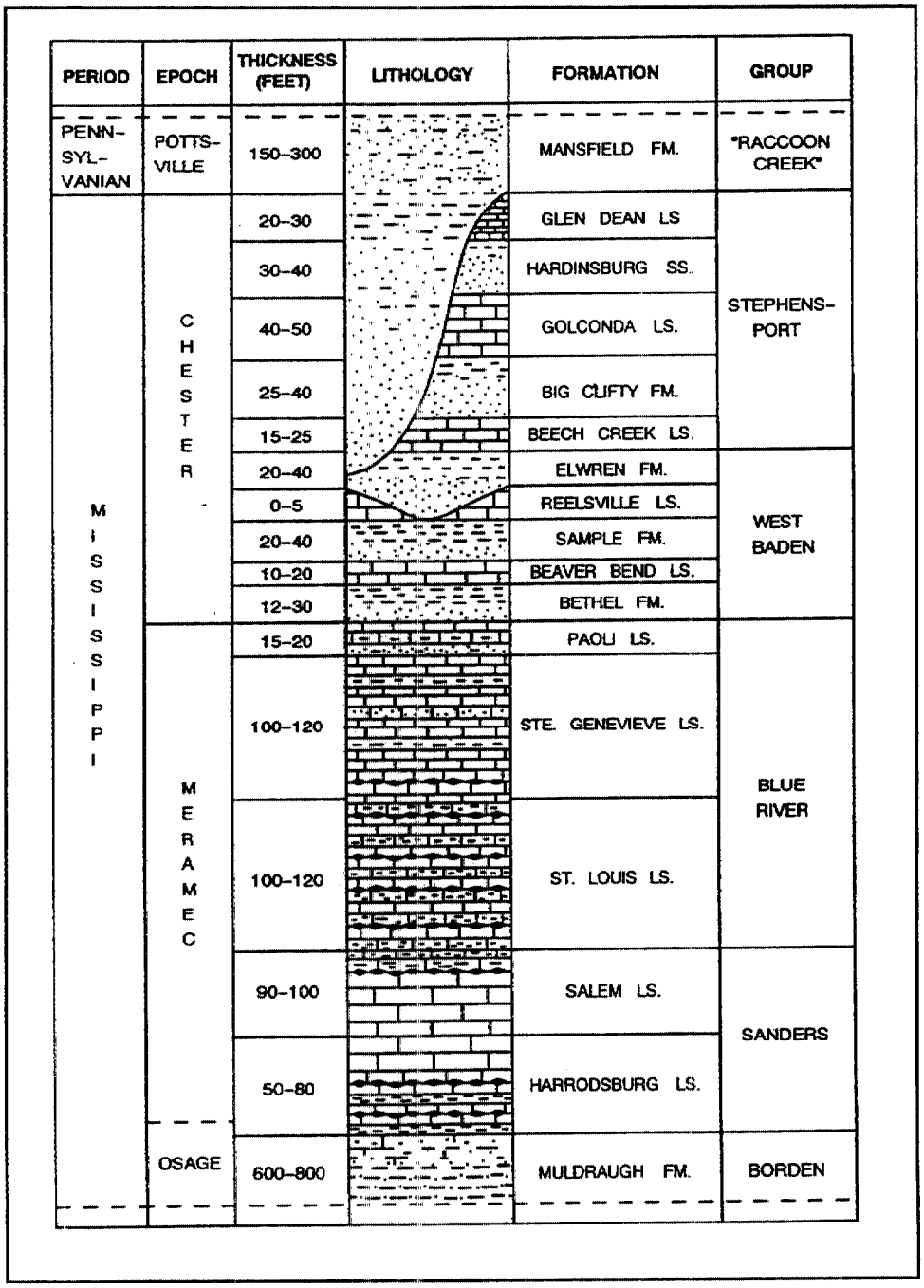


Figure 12. Stratigraphic column of Pennsylvanian and Mississippian Periods in southern Indiana

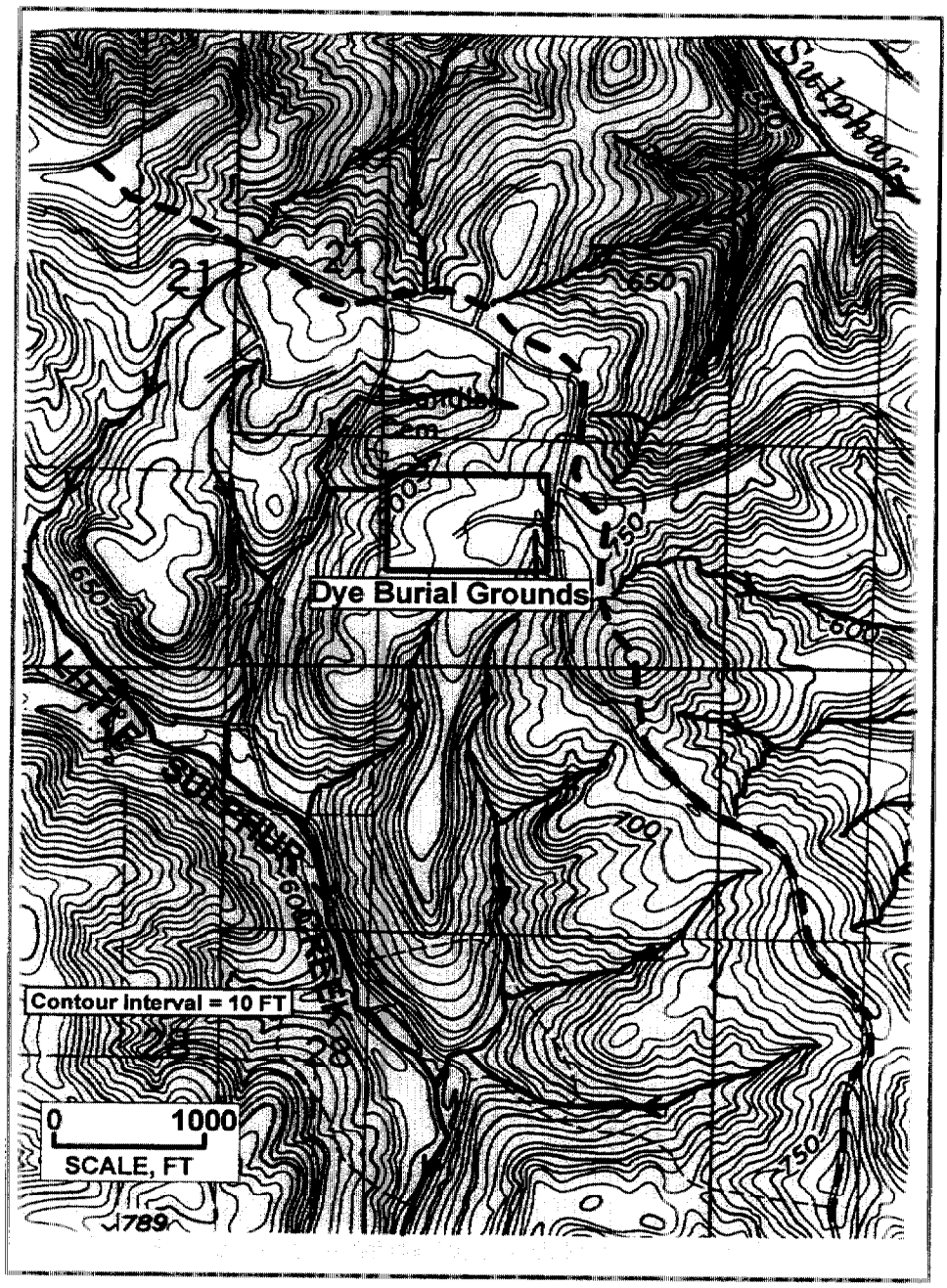


Figure 13. Principal Drainage ways and drainage divide (dashed line) at the Dye Burial Grounds

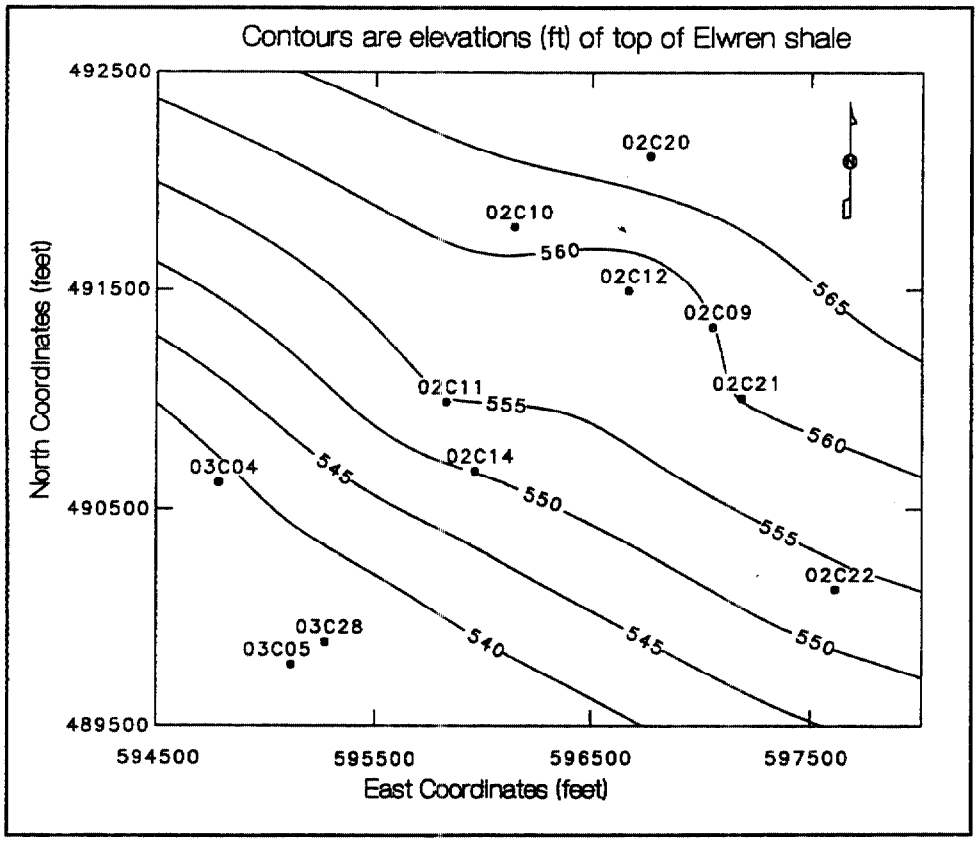


Figure 14. Structural contour map of top of Elwren shale, Dye Burial Grounds

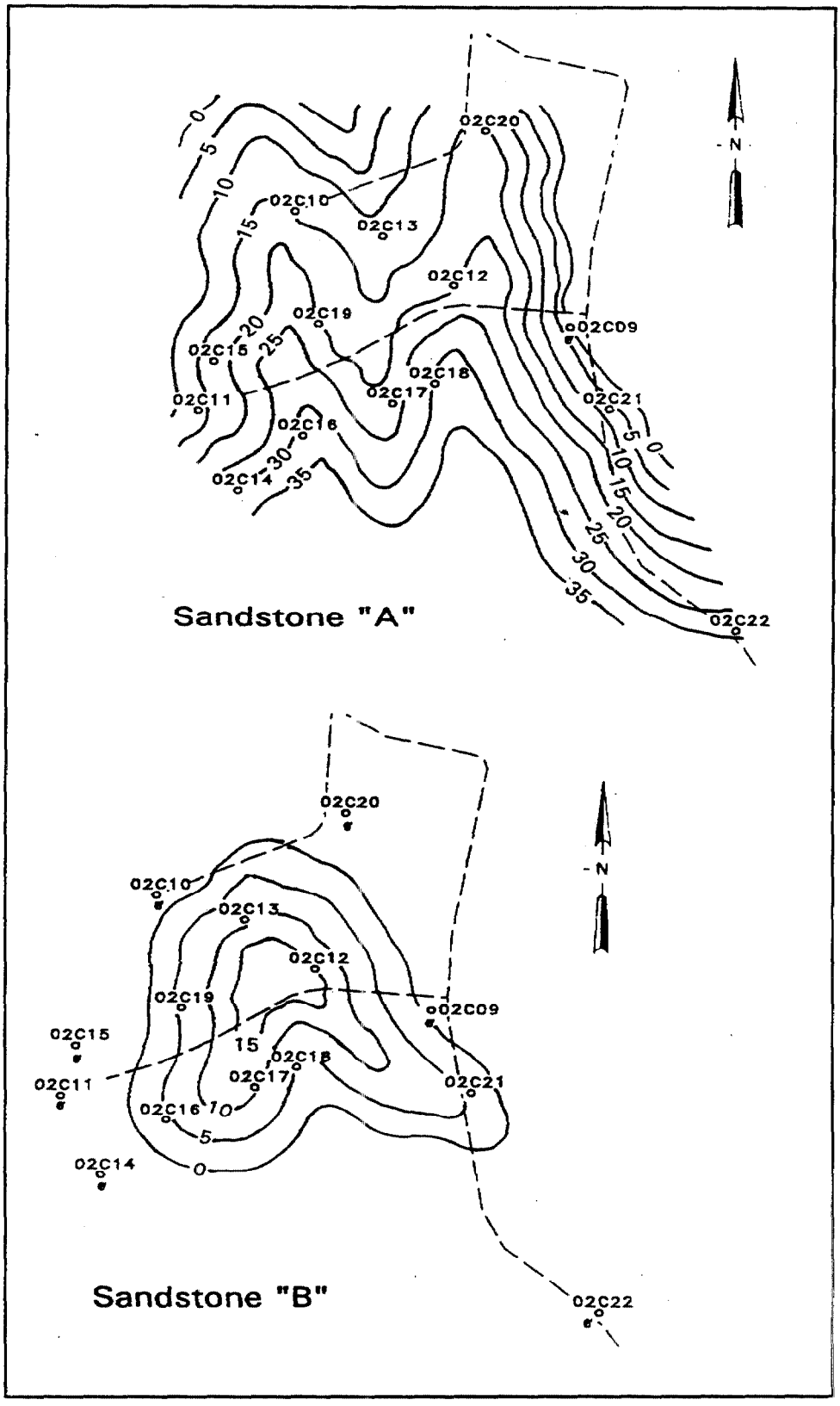


Figure 15. Isochore (drilled thickness) maps of Sandstones "A", top, and "B", Dye Burial Grounds (contours in feet, contour interval 5 ft)

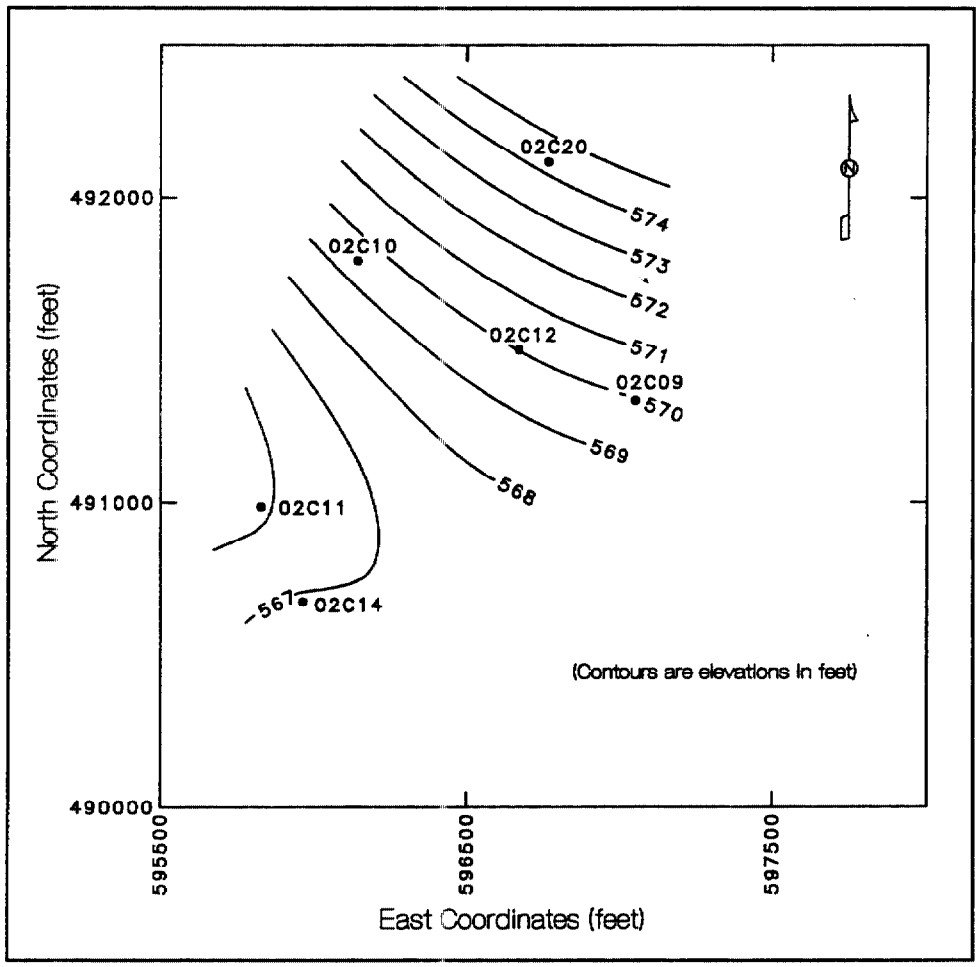


Figure 16. Groundwater contours for March 28-30 1992, Beech Creek limestone aquifer, Dye Burial Grounds

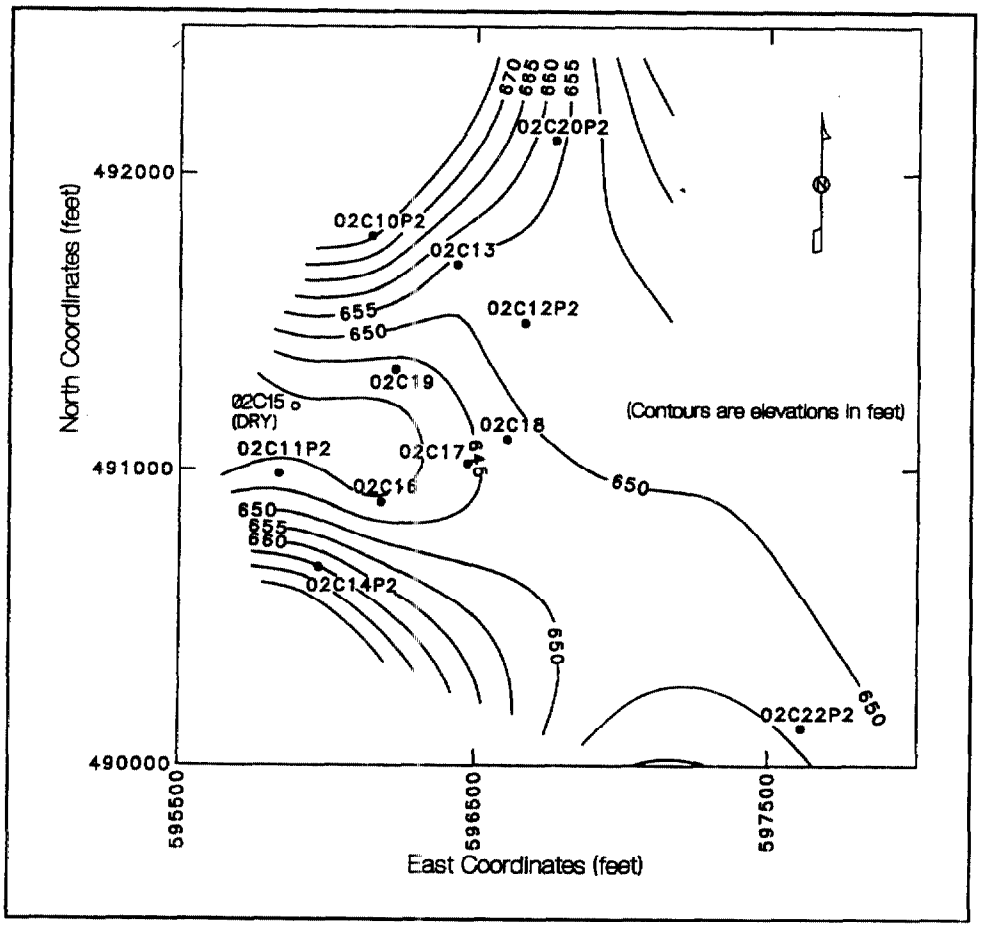


Figure 17. Groundwater contours for March 28-30 1992, Golconda/Haney limestone aquifer, Dye Burial Grounds

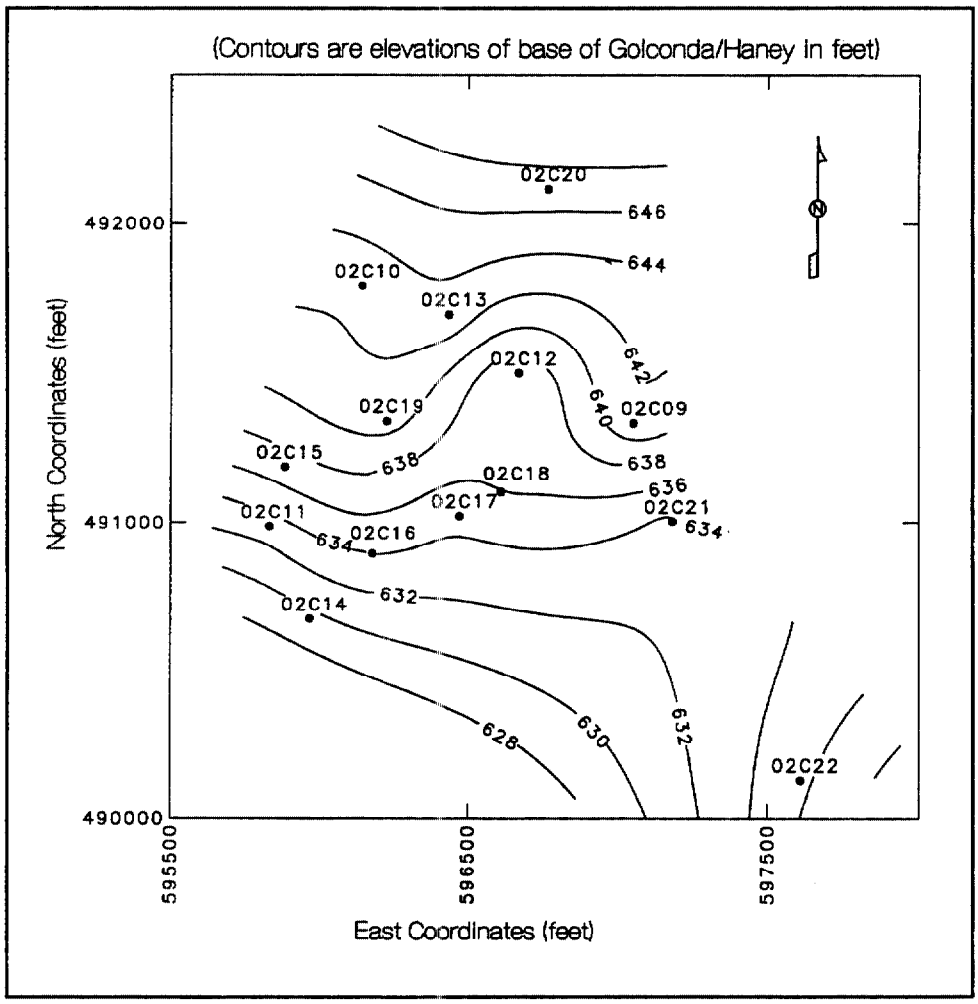


Figure 18. Structural contour map of base of Golconda/Haney limestone, Dye Burial Grounds

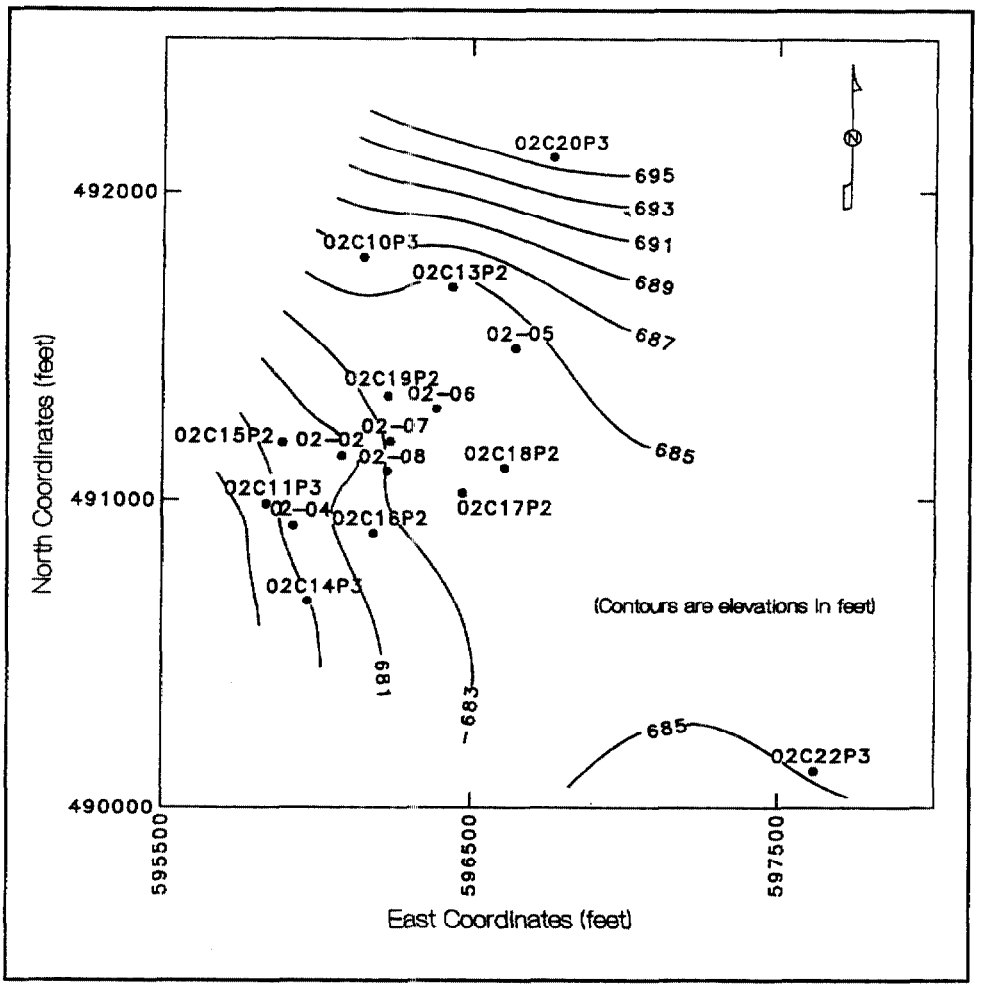


Figure 19. Groundwater contours for March 28-30 1992, lower Pennsylvanian sandstone aquifer, Dye Burial Grounds

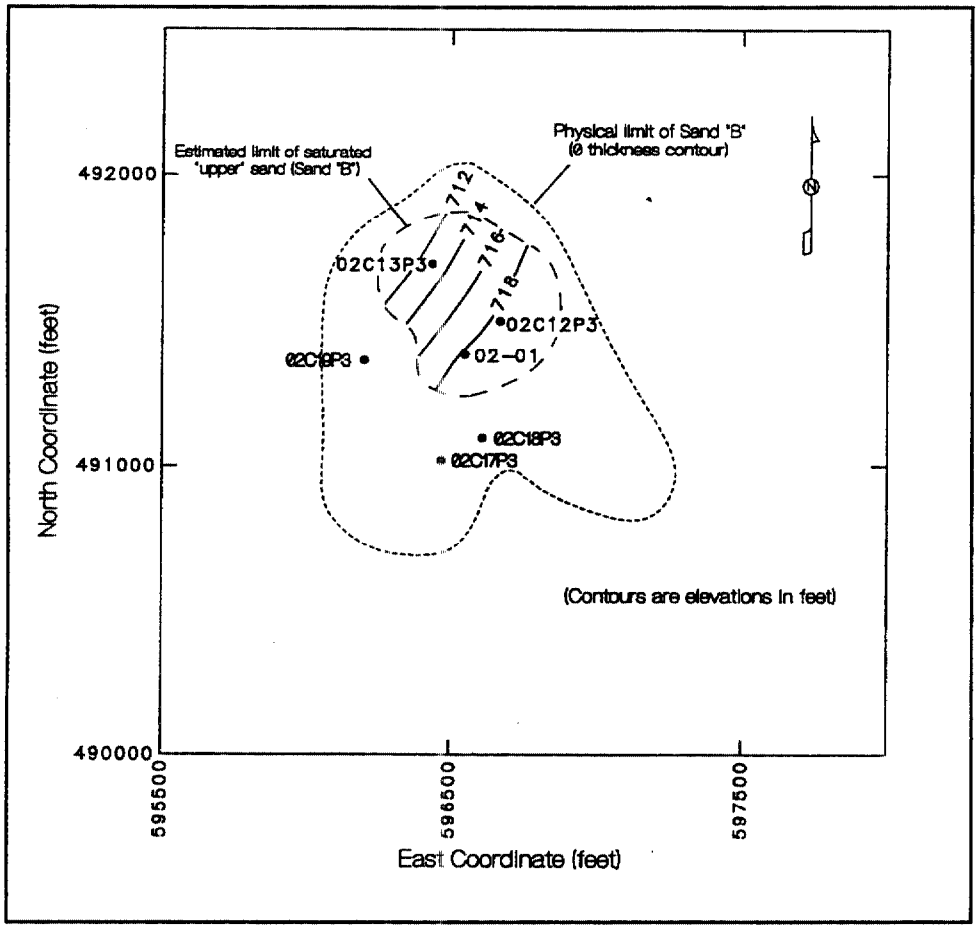


Figure 20. Groundwater contours for March 28-30 1992, upper Pennsylvanian sandstone aquifer, Dye Burial Grounds, and limits of saturated zone and Sand "B"

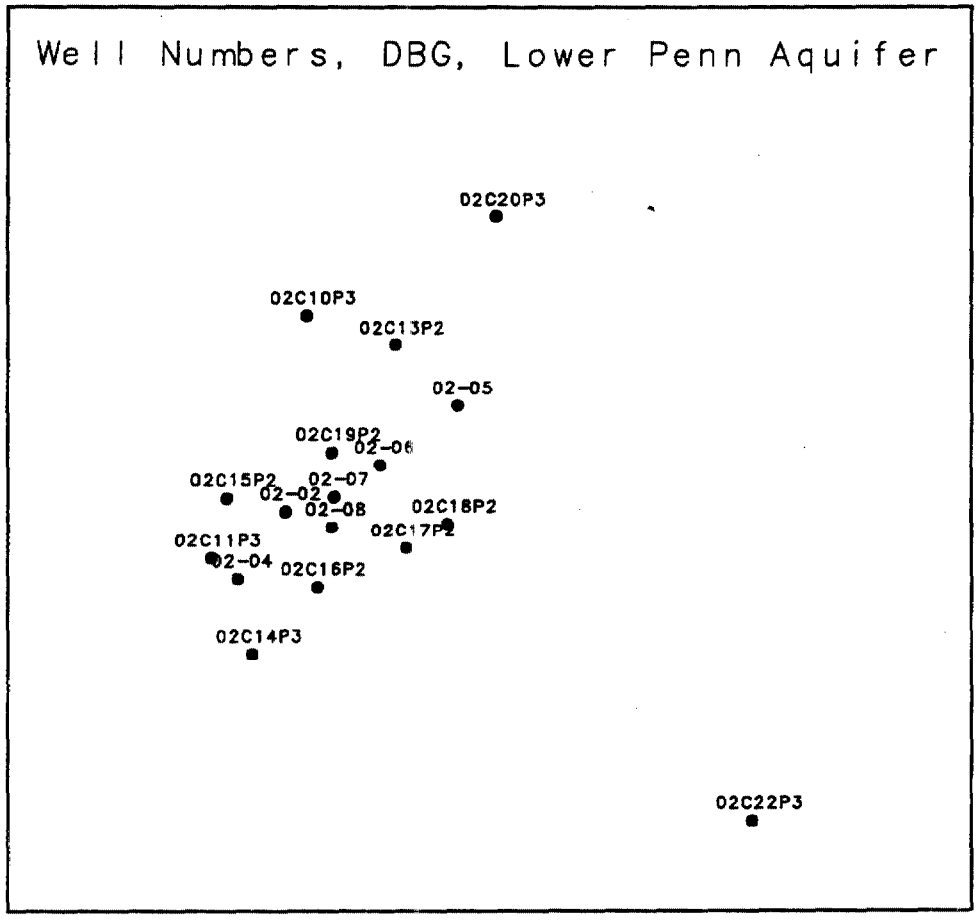


Figure 21. Key map showing well locations (to accompany Figures 22-30)

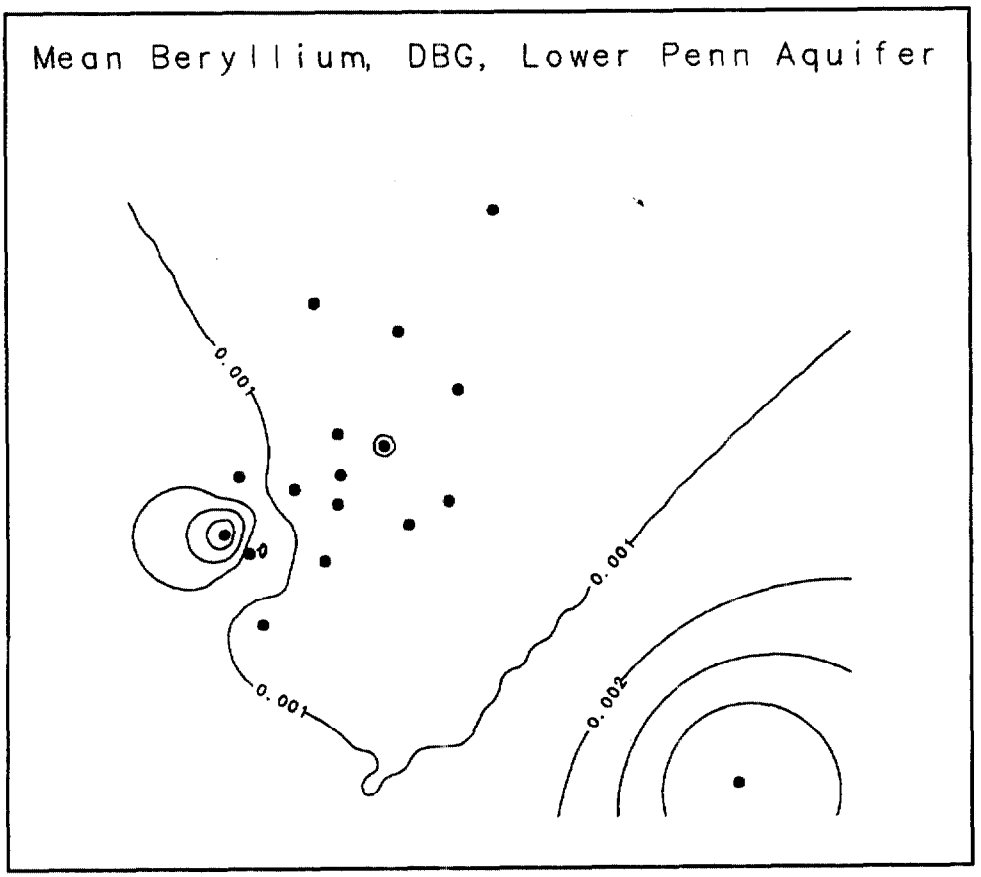


Figure 22. Contour map of mean levels of beryllium, lower Pennsylvanian aquifer, Dye Burial Grounds (Contour interval (CI) = 0.001 mg/l)

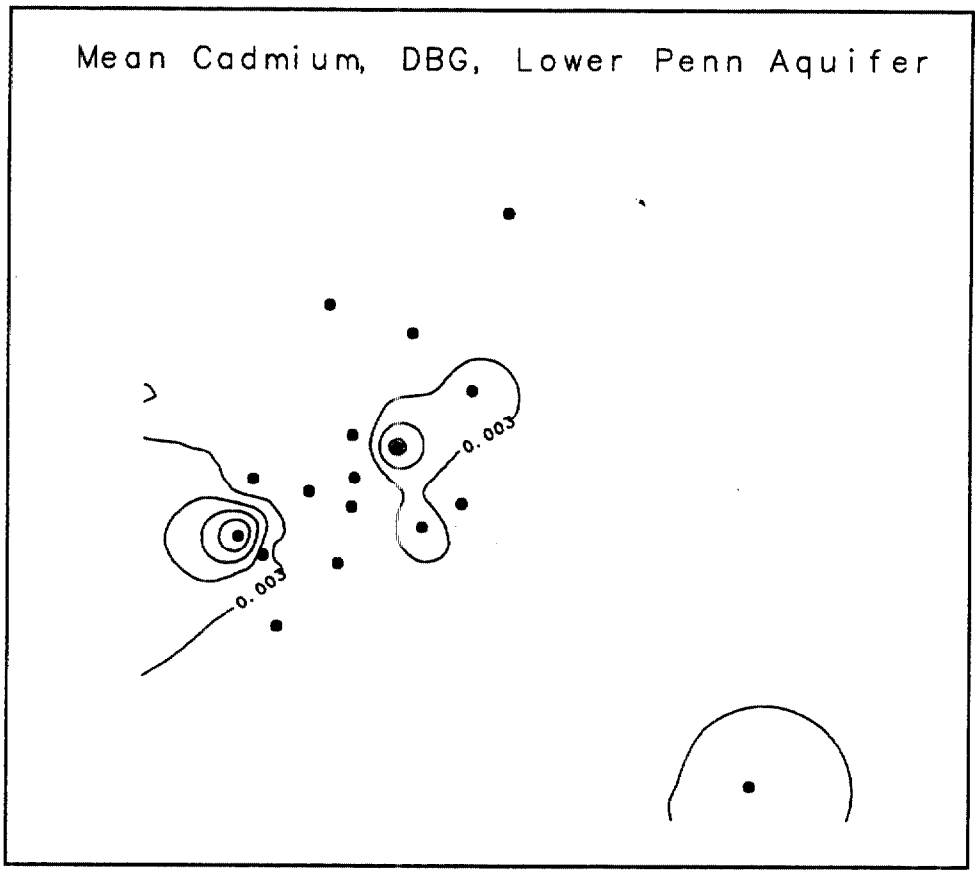


Figure 23. Contour map of mean levels of cadmium, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 0.001 mg/l)

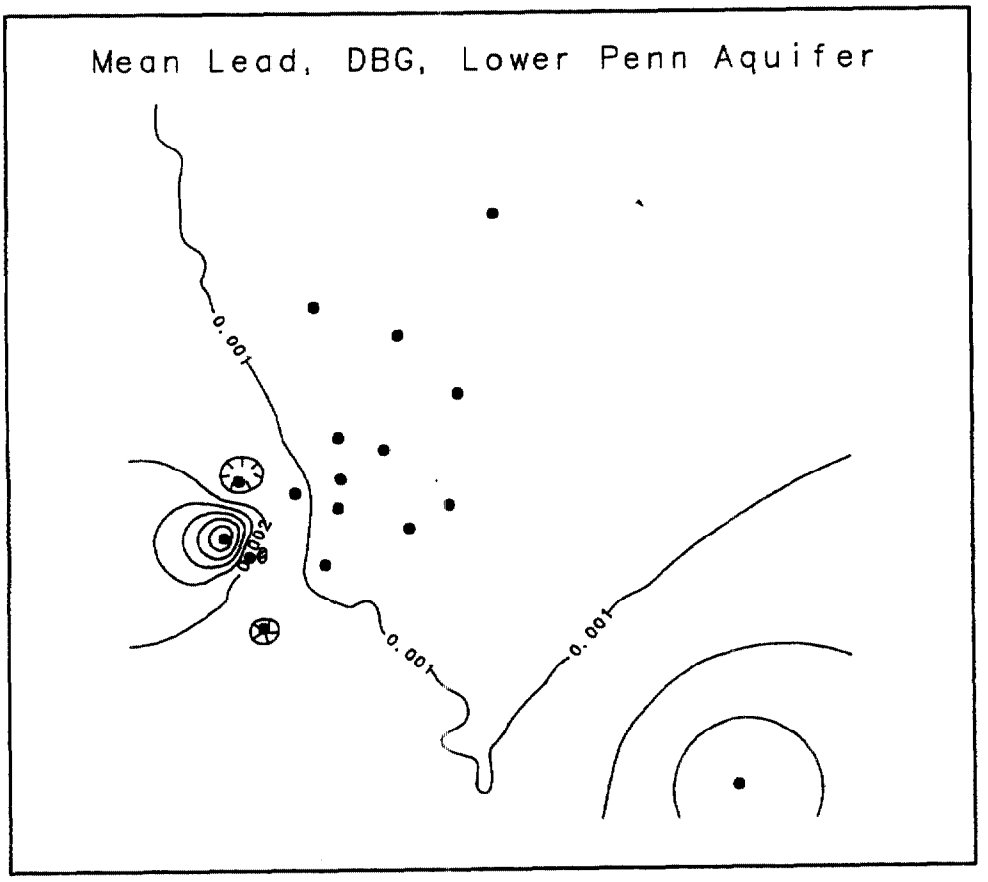


Figure 24. Contour map of mean levels of lead, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 0.001 mg/l)

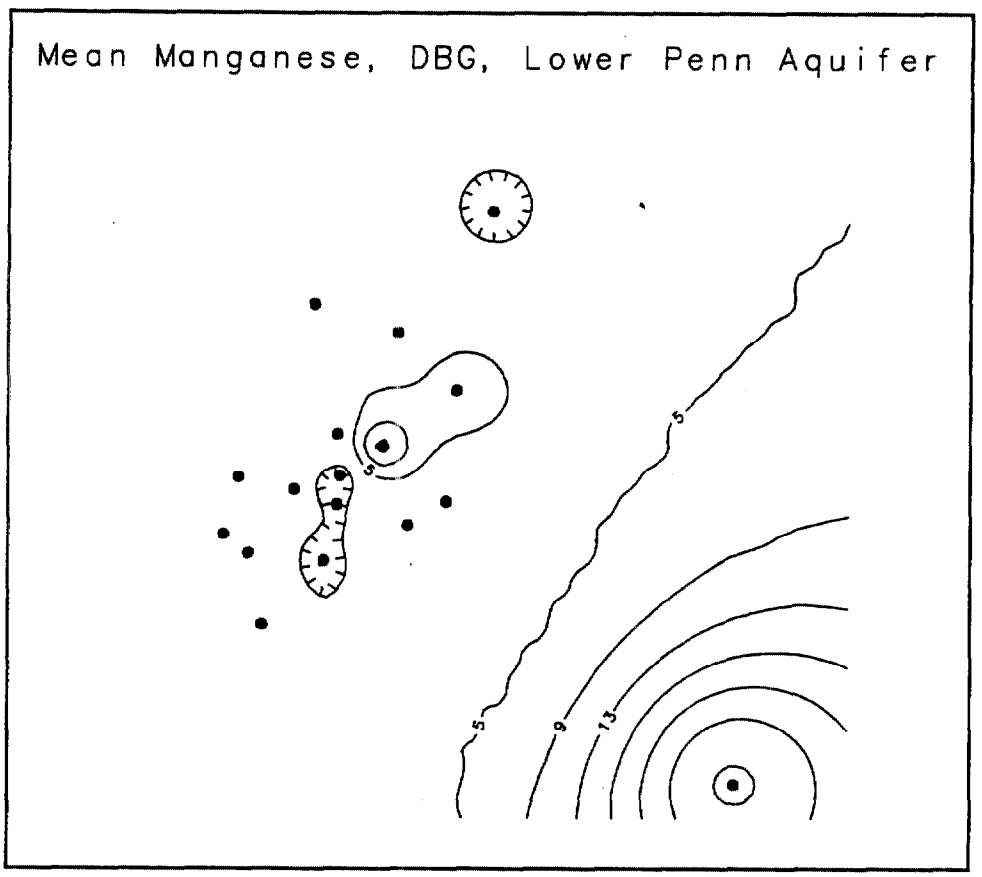


Figure 25. Contour map of mean levels of manganese, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 4 mg/l)

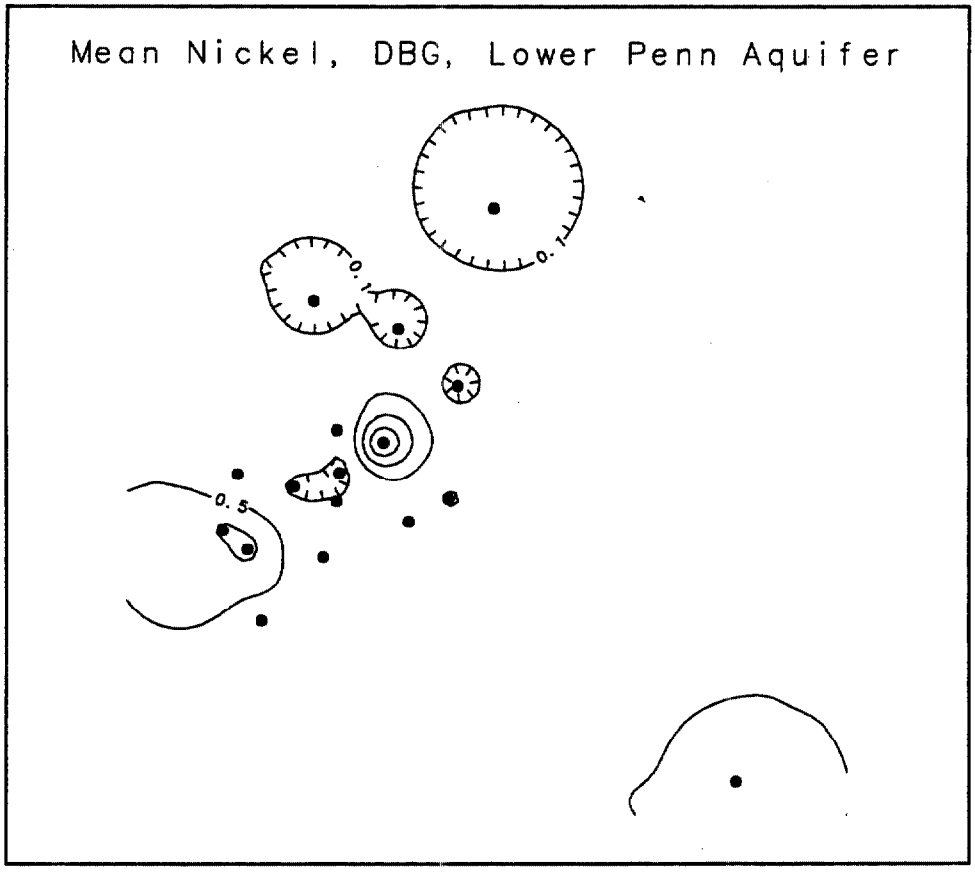


Figure 26. Contour map of mean levels of nickel, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 0.4 mg/l)

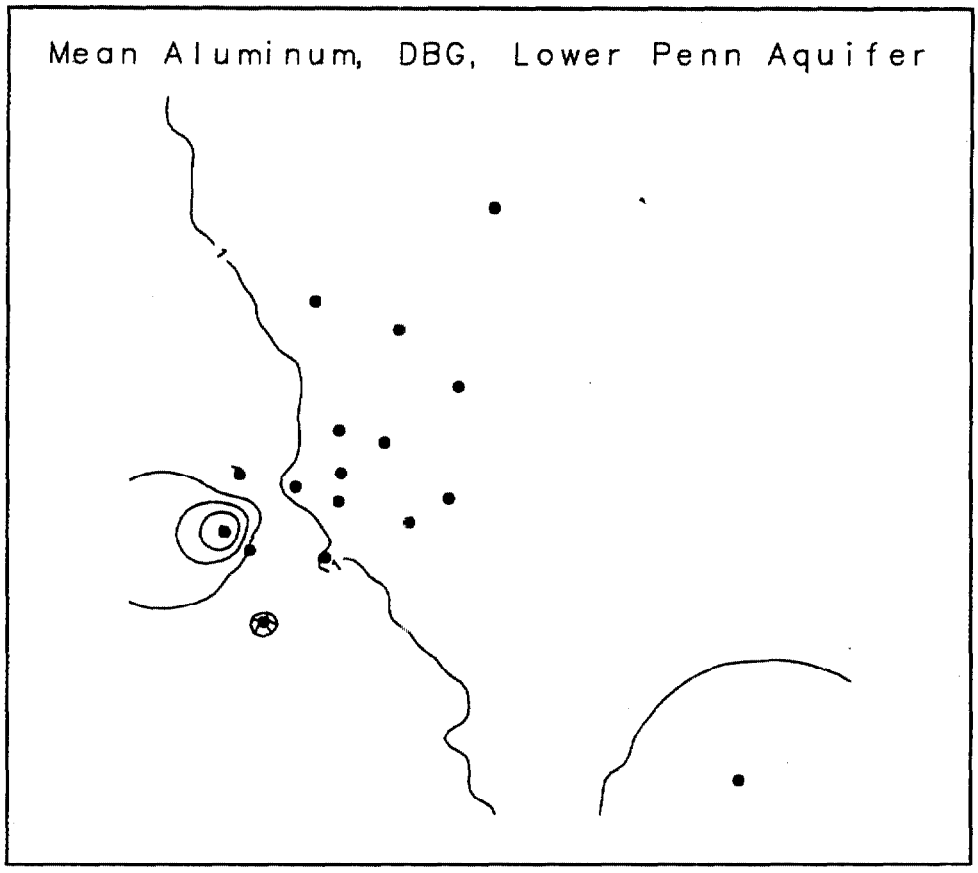


Figure 27. Contour map of mean levels of aluminum, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 4 mg/l)

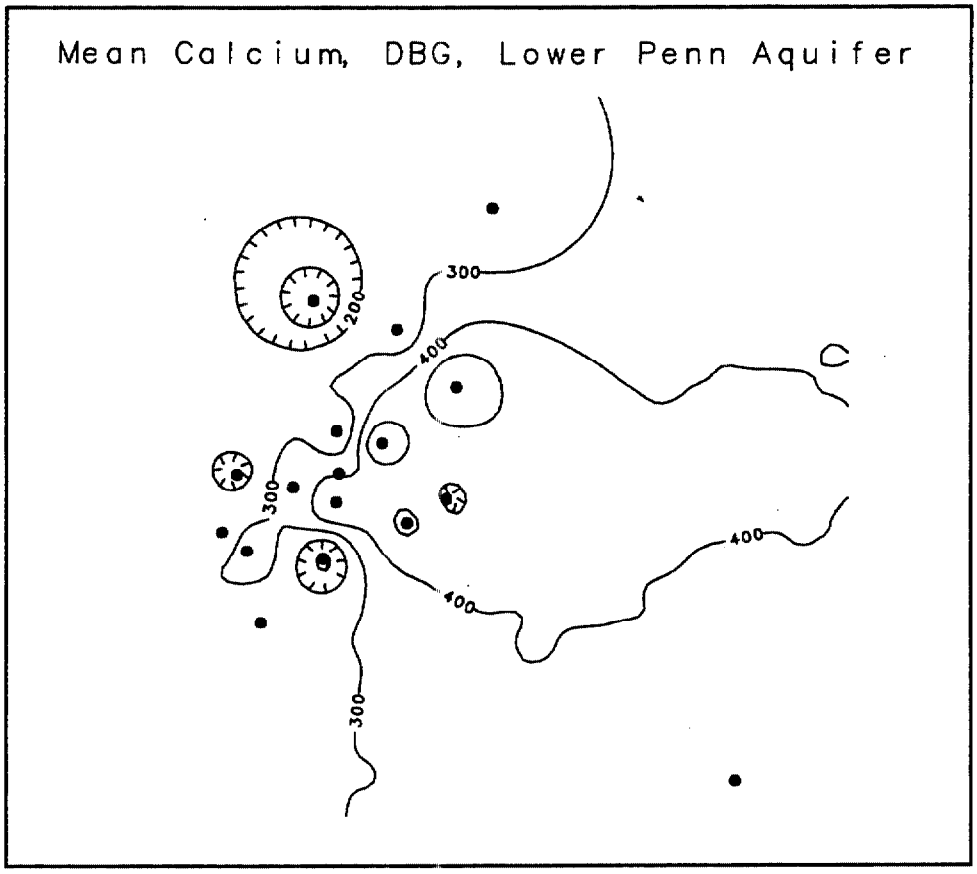


Figure 28. Contour map of mean levels of calcium, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 100 mg/l)

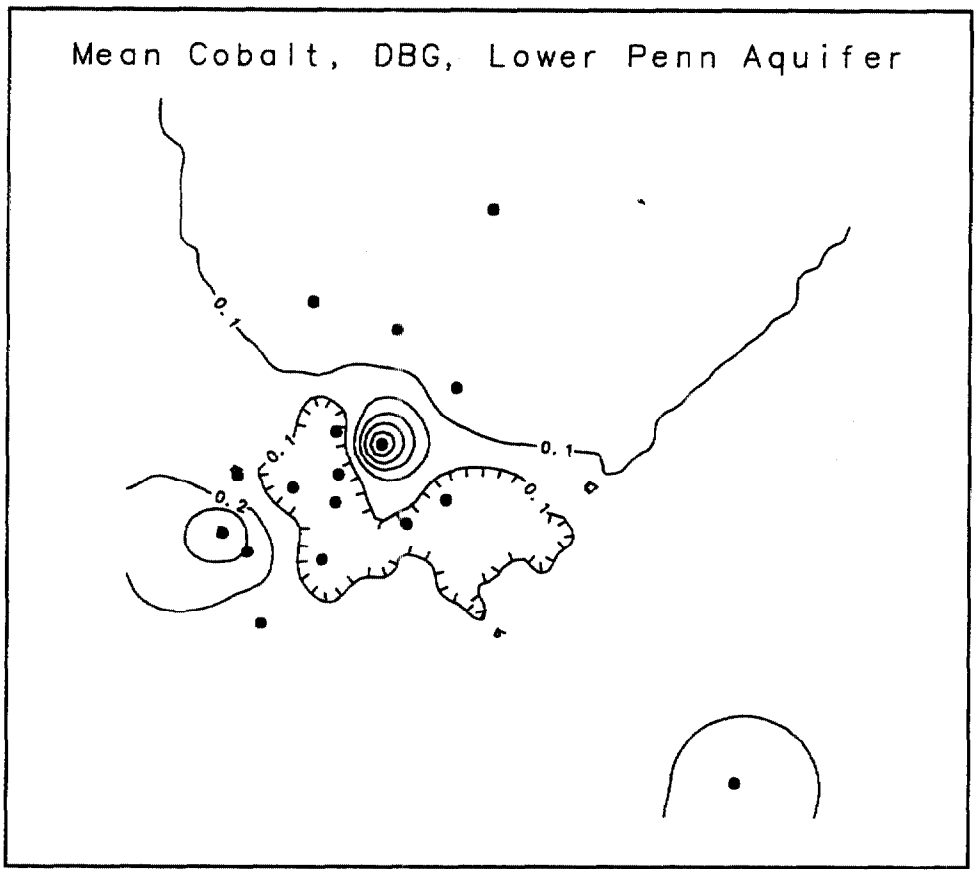


Figure 29. Contour map of mean levels of cobalt, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 0.1 mg/l)

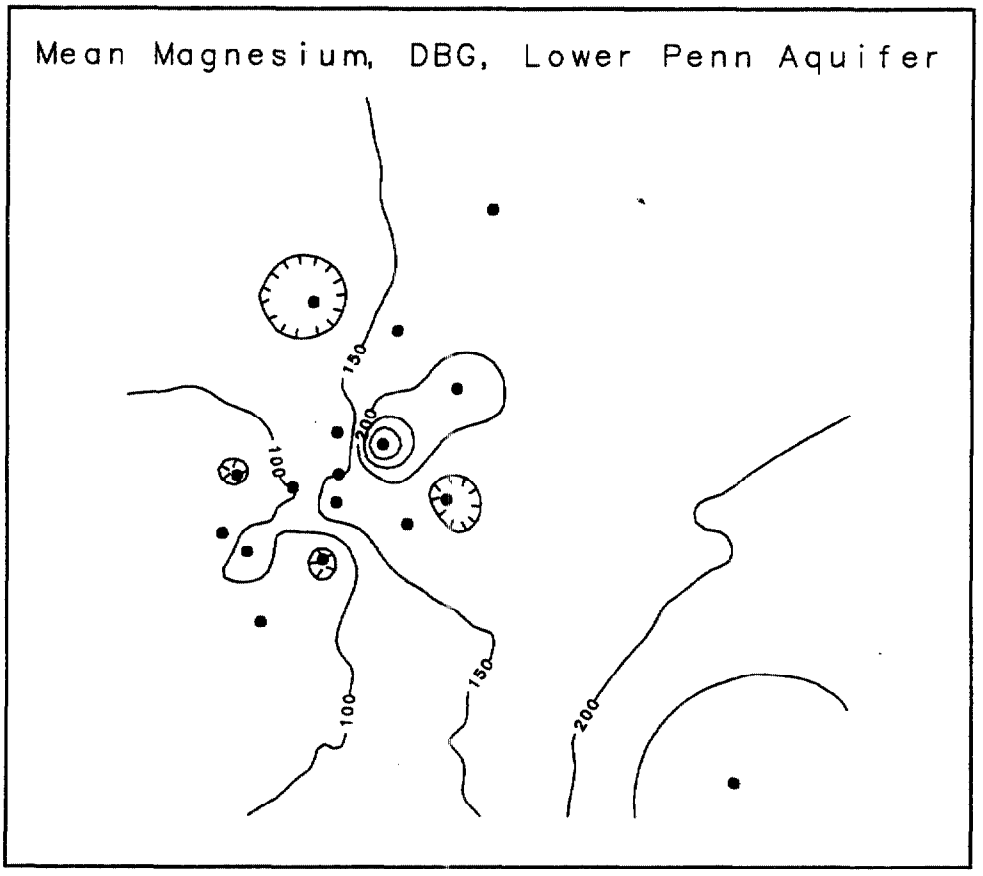
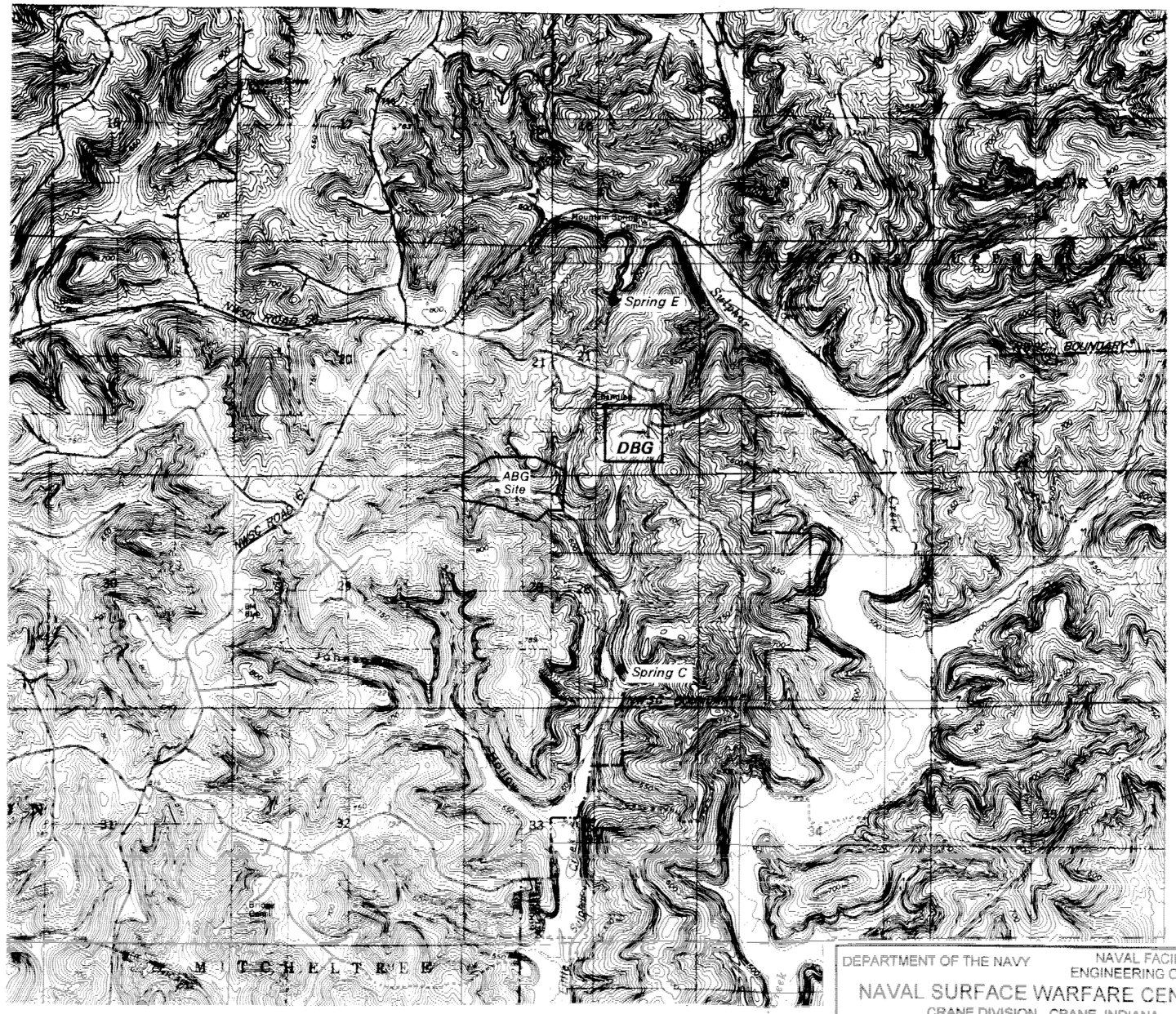


Figure 30. Contour map of mean levels of magnesium, lower Pennsylvanian aquifer, Dye Burial Grounds (CI = 50 mg/l)



NOTE: CONTOUR INTERVAL 10 FT.
(SEE TEXT FOR MAP SOURCE)

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NAVAL FACILITIES ENGINEERING COMMAND

NAVAL SURFACE WARFARE CENTER
CRANE DIVISION - CRANE, INDIANA

PREPARED BY
U.S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION
VICKSBURG, MISSISSIPPI

Dye Burial Grounds and Vicinity TOPOGRAPHY

Prepared by W.L. Murphy

Plate 1

NOTE: CONTOUR INTERVAL 10 FT.
ELEVATIONS IN FT MSL

LEGEND

600 — Structure Contours on Top of Beech Creek Limestone (Lower Formation of Stephensport Group)

Contacts Between Groups

	GROUP	PERIOD
Pm	Raccoon Creek	Pennsylvanian
Msp	Stephensport	Mississippian
Mwb	West Baden	Mississippian
Mbr	Blue River	Mississippian

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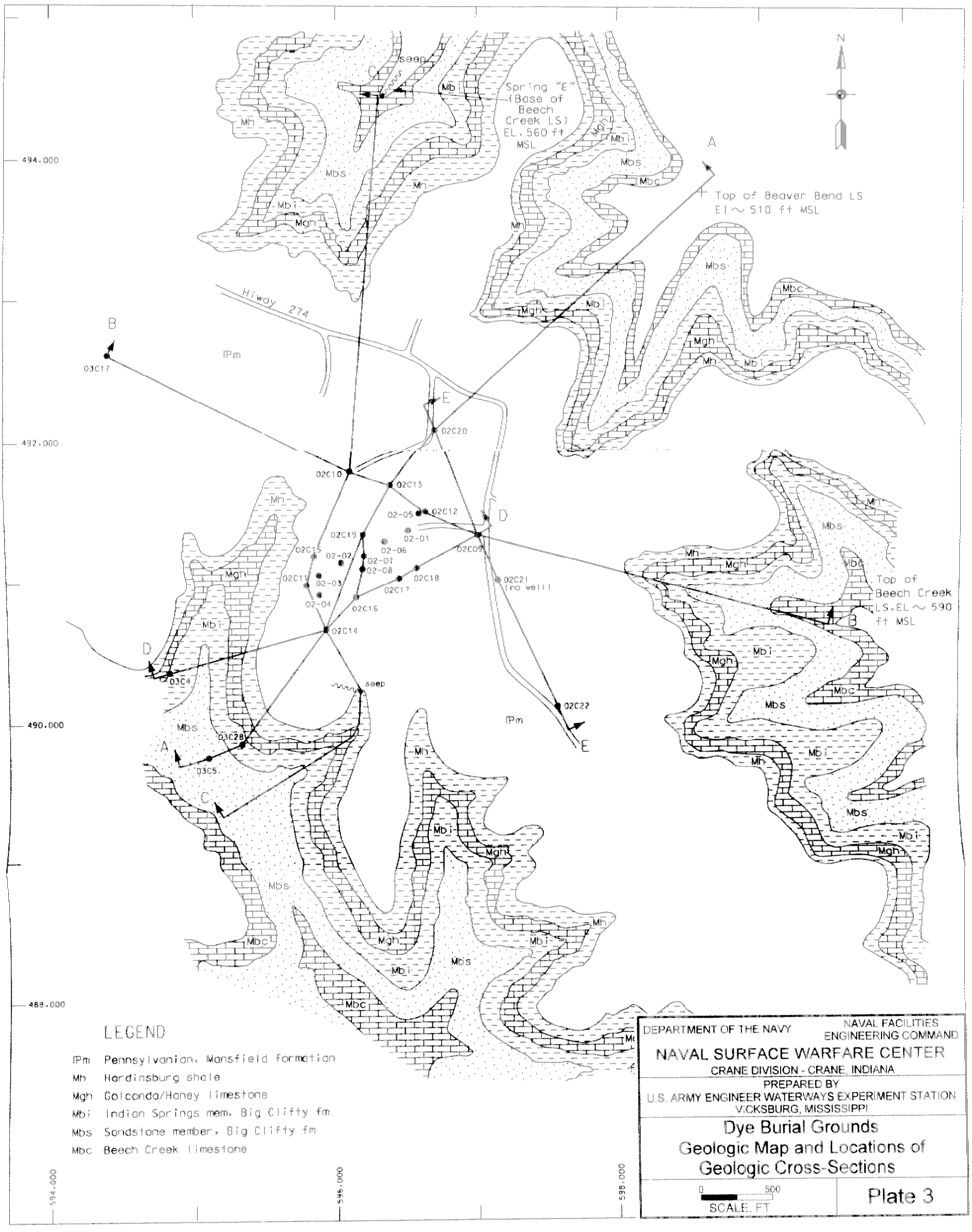
Dye Burial Grounds and Vicinity Near-Surface Geologic Units

Prepared by W.L. Murphy

Plate 2


N
seep
Spring "E" (Base of Beech Creek LS) EL. 560 ft MSL
Top of Beaver Bend LS El ~ 510 ft MSL
Hiway 274
IPm
Top of Beech Creek LS EL ~ 590 ft MSL
494.000
492.000
490.000
488.000
594.000
596.000
598.000
LEGEND
IPm Pennsylvanian, Mansfield formation
Mh Hardinsburg shale
Mgh Golconda/Honey limestone
Mbi Indian Springs mem. Big Clifty fm
Mbs Sandstone member, Big Clifty fm
Mbc Beech Creek limestone
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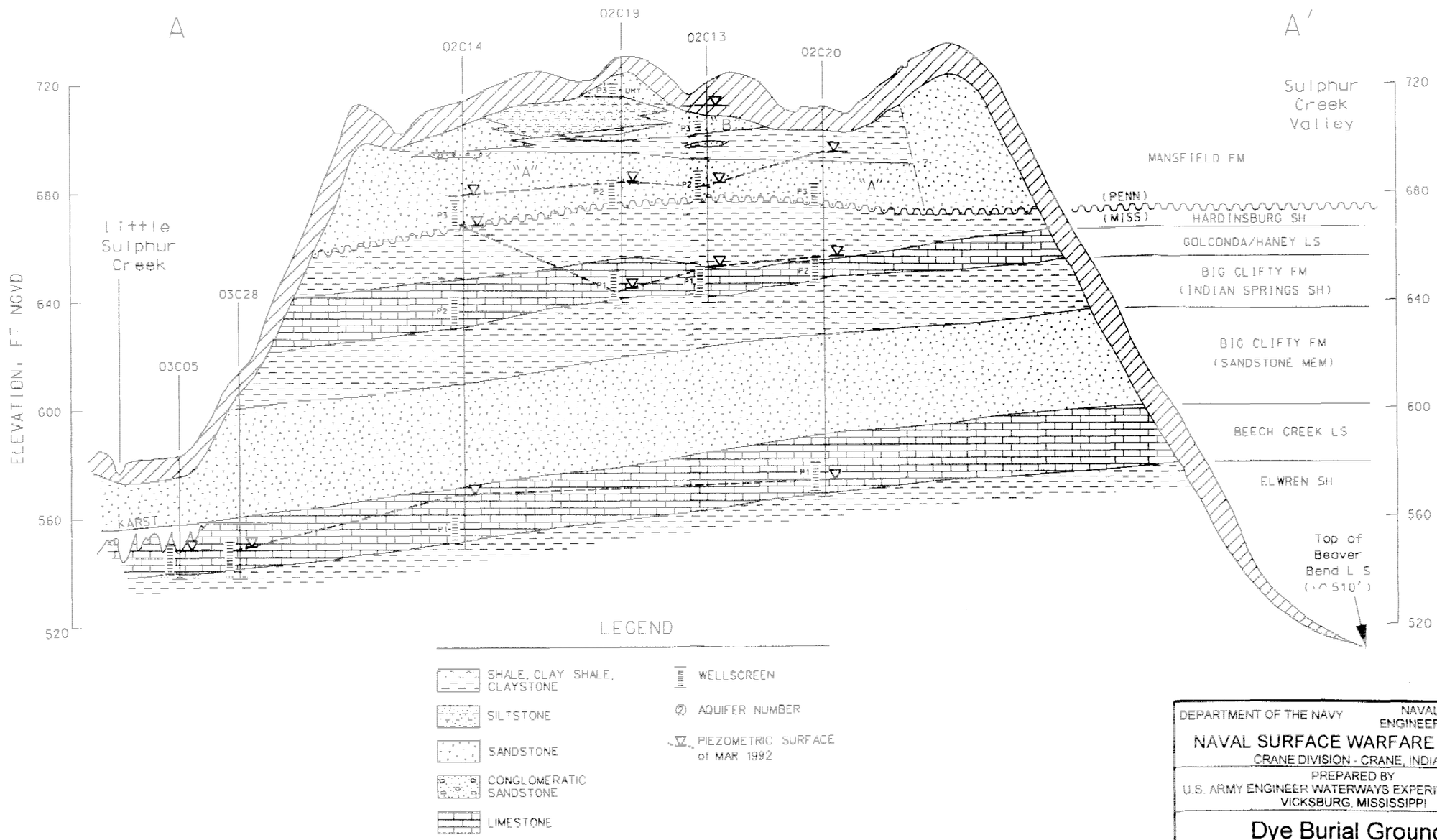
VICKSBURG, MISSISSIPPI
Dye Burial Grounds
Geologic Map and Locations of Geologic Cross-Sections
0 500
SCALE, FT
Plate 3



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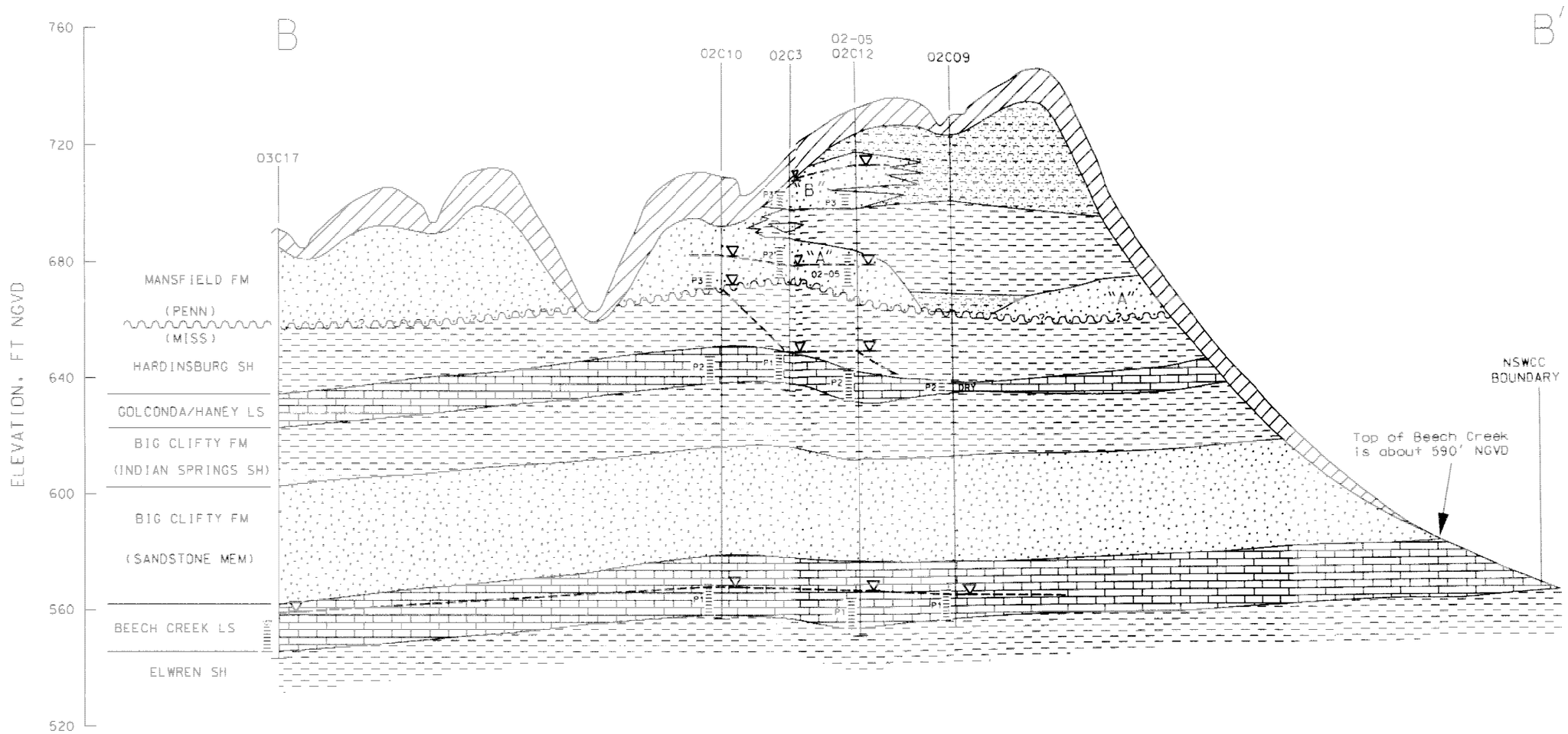
VICKSBURG, MISSISSIPPI

Dye Burial Grounds Cross-Section A-A'

0 500

SCALE, FT

Plate 4



LEGEND

- SHALE, CLAY SHALE, CLAYSTONE
- SILTSTONE
- SANDSTONE
- CONGLOMERATIC SANDSTONE
- LIMESTONE
- WELLSCREEN
- ② AQUIFER NUMBER
- PIEZOMETRIC SURFACE of MAR 1992

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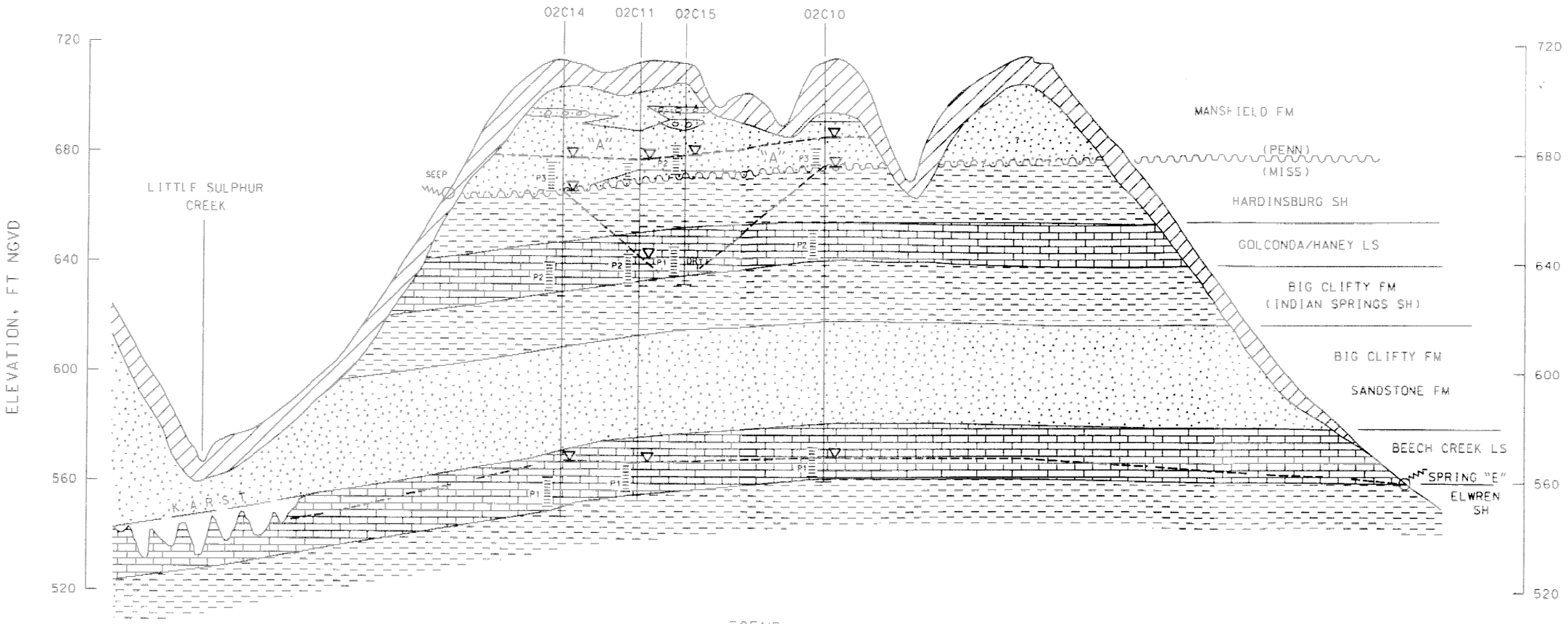
Dye Burial Grounds Cross-Section B-B'

0 500

SCALE, FT

Plate 5



LEGEND

- SHALE, CLAY SHALE, CLAYSTONE
- SILTSTONE
- SANDSTONE
- CONGLOMERATIC SANDSTONE
- LIMESTONE
- WELLSCREEN
- ② AQUIFER NUMBER
- PIEZOMETRIC SURFACE of MAR 1992

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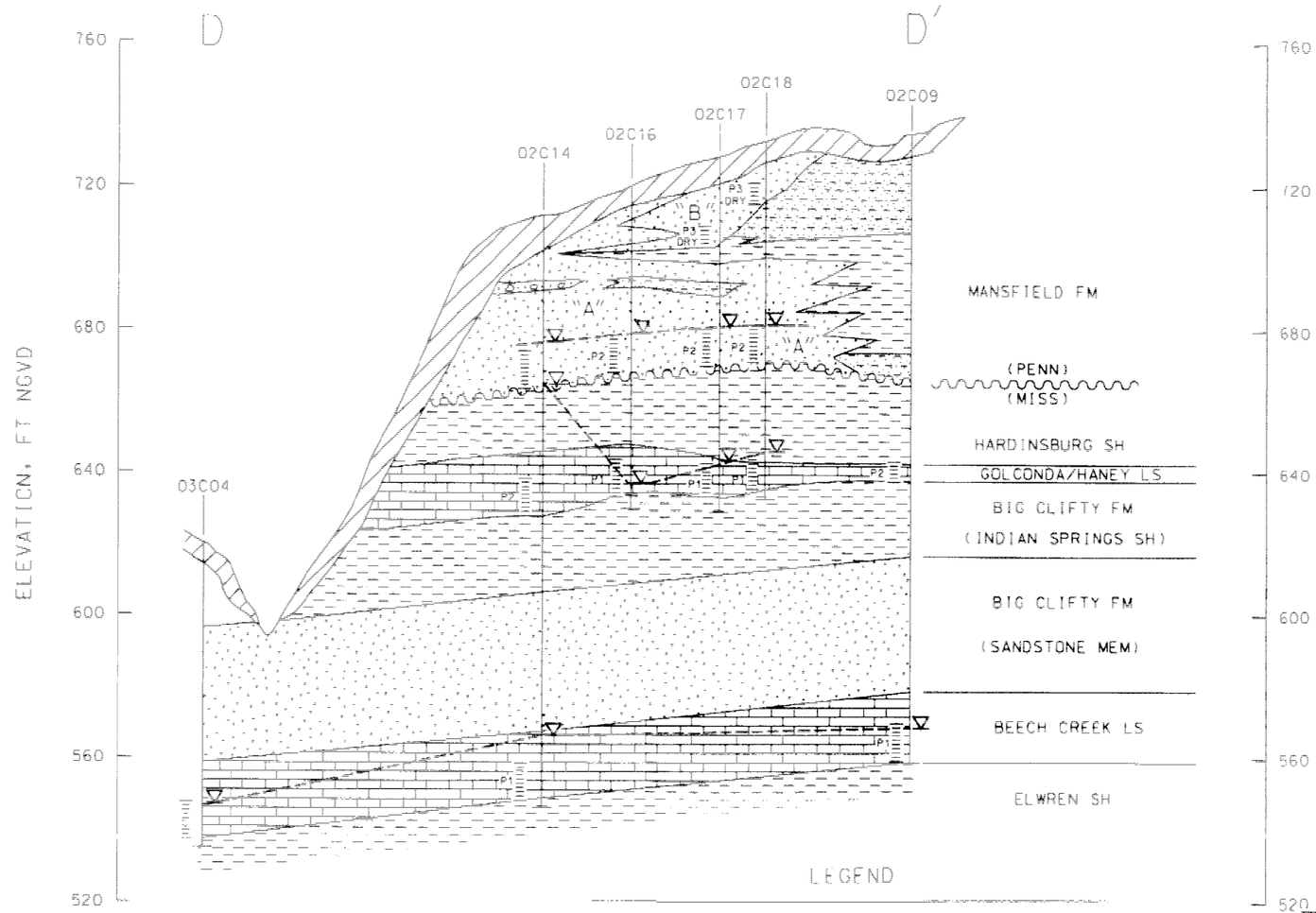
Dye Burial Grounds Cross-Section C-C'

0 500

SCALE, FT

Plate 6



LEGEND

- SHALE, CLAY SHALE, CLAYSTONE
- SILTSTONE
- SANDSTONE
- CONGLOMERATIC SANDSTONE
- LIMESTONE
- WELLSCREEN
- ② AQUIFER NUMBER
- PIEZOMETRIC SURFACE of MAR 1992

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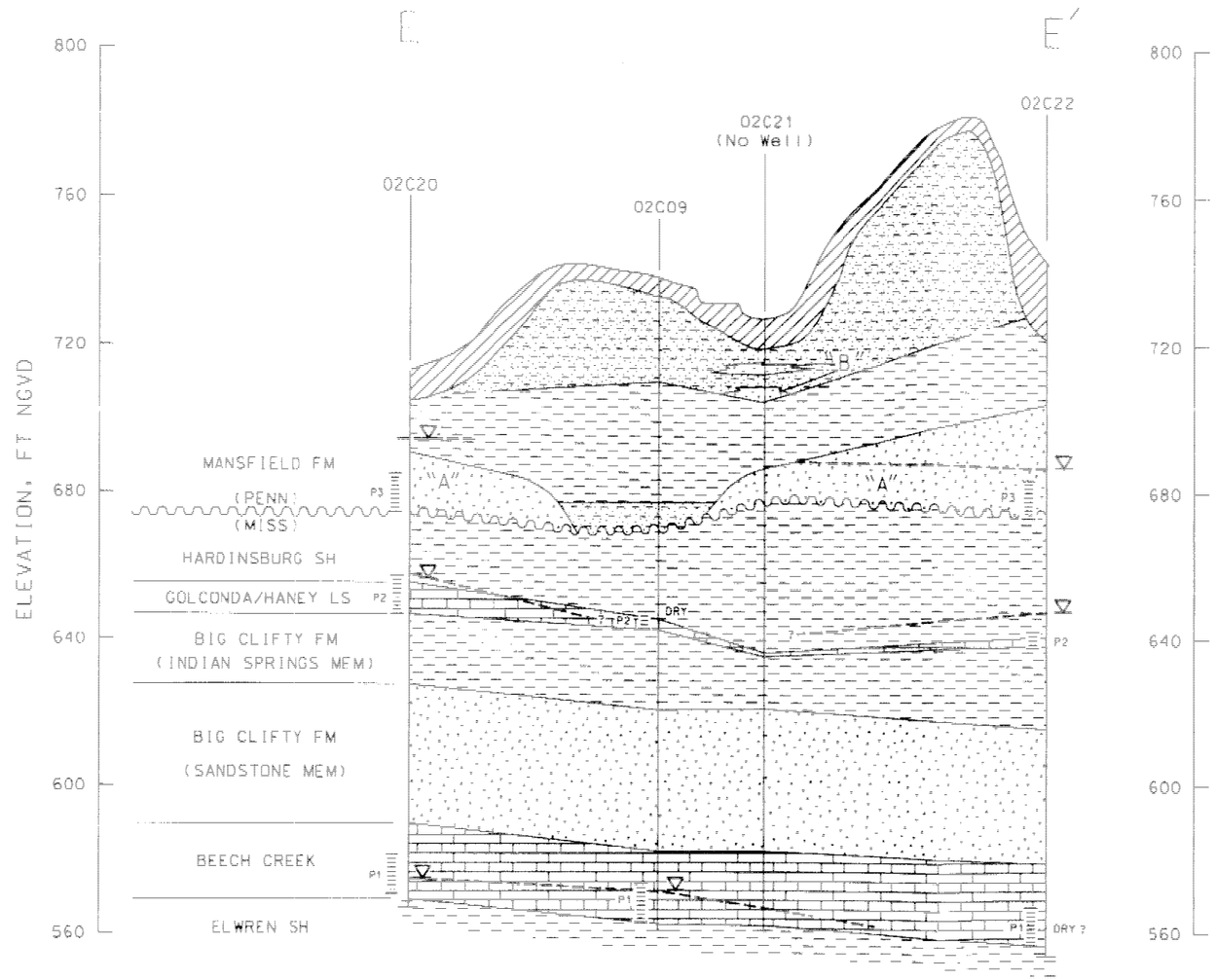
Dye Burial Grounds Cross-Section D-D'

0 500
SCALE, FT

Plate 7



LEGEND

- SHALE, CLAY SHALE, CLAYSTONE
- SILTSTONE
- SANDSTONE
- CONGLOMERATIC SANDSTONE
- LIMESTONE
- WELLSCREEN
- ② AQUIFER NUMBER
- PIEZOMETRIC SURFACE of MAR 1992

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Dye Burial Grounds Cross-Section E-E'

0 500

SCALE, FT

Plate 8

IN5 170 023 498

Appendix A
Text, Boring Logs, and Well Installation Diagrams, Dunbar (1982) Dye Burial Grounds Investigation Report

IN5 170 023 498

HYDROGEOLOGIC INVESTIGATION OF WASTE DISPOSAL SITES AT THE NAVAL WEAPONS SUPPORT CENTER, CRANE, INDIANA

by

Joseph B. Dunbar

Geotechnical Laboratory
USAE Waterways Experiment Station
PO Box 631, Vicksburg, MS 39180

Prepared for
Naval Weapons Support Center
Crane, Indiana

April 1982

WORKING DRAFT

Summary

The Naval Weapons Support Center (NWSC) identified areas on its installation where contaminated materials have been buried and determined that a groundwater monitoring network at each area was required to identify any subsurface contamination which might have resulted from these disposal areas. The NWSC requested the Waterways Experiment Station (WES) to install a groundwater monitoring system around each identified disposal site. A total of 13 groundwater monitoring networks; 83 monitoring wells; were installed in 11 sites throughout the NWSC. Each site contained from 5 to 15 monitoring wells with the number of wells dependent on the area of each site, the number of groundwater flow patterns encountered, or the number of disposal areas per site.

The WES conducted a soil sampling and drilling program to define the hydrogeologic characteristics and to locate and install the monitoring wells at each site. The sampling and drilling program identified two sites where the water table was encountered in the unconsolidated overburden and in the remaining sites, the water table was encountered in fractures in sedimentary rocks at depths of less than 10 ft to a maximum depth of 121 ft. The direction of groundwater flow varied, but generally conformed with the surface flow at each site. Overburden thickness at the sites ranges from less than 1 ft to more than 40 ft with soil types of predominantly clay, silt, and sand. The rock underlying the overburden consists of sandstone, shale, limestone, and interbedded coal seams of Pennsylvanian and Mississippian age.

PREFACE

This study was performed by personnel of the Geotechnical Laboratory (GL) of the U. S. Army Engineer Waterways Experiment Station. Funding for this study was authorized by Military Interdepartmental Purchase Request (MIPR) Number N00164-IMP-04575 dated 6 June 1981 and amended 22 October 1981.

The field work was conducted during the period 17 August 1981 to 1 December 1981. Soil testing and data reduction were performed from January 1982 to April 1982 and report preparation was accomplished during this same period. The drilling was performed by the Exploration Group (EG), Engineering Geology and Rock Mechanics Division (EGRMD), GL, under the supervision of Mr. Joseph B. Dunbar, Engineering Geology Applications Group (EGAG) of the EGRMD. The physical soil tests were performed by the Soil Testing Facility, GL. Messrs. Jerald D. Broughton and Dale L. Barefoot, EGAG, assisted in data compilation and analysis. Mr. Dunbar prepared the report.

The study was conducted under the direct supervision of Mr. John H. Shamburger, Chief, EGAG, and Mr. Mark A. Vispi, Chief, EG, and under the general supervision of Dr. Don C. Banks, Chief, EGRMD, and Drs. William F. Marcuson III and Paul F. Hadala, Chief and Assistant Chief, GL, respectively.

Special acknowledgment is extended to Mrs. Cathy Andrews and Mr. Eric Foster of the Naval Weapons Support Center for their assistance during the study.

Commander and Director of WES during the conduct of the study was COL Tilford C. Creel, CE. The Technical Director was Mr. F. R. Brown.

Dye Burial Grounds

Location

The Dye Burial Grounds are located in the SW¼ SE¼, Sec. 21, T5N, R3W (Figure 4). They are located on a ridgetop southwest of Magazine 1518 where eight monitoring wells were installed around the perimeter of the disposal site. Well locations and the approximate limits of the burial site are shown in Figure 17.

Geology

Overburden at the Dye Burial Grounds ranges in thickness from 2 to 10 ft. The underlying rock consists of interbedded shale and sandstone from the Mansfield Formation of the Raccoon Creek Group and the Glen Dean Limestone of the Stephensport Group (Table 1). Boring WES-2-2-81 was drilled to a depth of 54.5 ft and, underlying the overburden, encountered approximately 42 ft of sandstone ranging from brown, orange, and red to various shades of grey. This sandstone unit was composed of a very fine to fine-grained quartz sand thinly bedded with seams and lenses of dark grey, soft shale and minor amounts of clay and lignite. The shale content gradually increases with depth beginning around 35 ft and grades into a green, uniform, soft, brittle shale at a depth of around 51 ft. Boring WES-2-3-81 drilled through this shale unit which was 12 ft thick and encountered 8 ft of red to purple, fine-grained sandstone underlain by the Glen Dean Limestone. This limestone was very hard and grey. Cross section A-A' (Figure 18) shows boring and groundwater data from six borings. The boring logs are presented in Appendixes A and B.

Groundwater

Groundwater at the Dye Burial Grounds was encountered in fractures in the upper sandstone unit in all borings except boring WES-2-3-81. Groundwater in this boring was encountered near the shale and lower sandstone contact. Boring WES-2-1-81 encountered a perched water table in the upper sandstone unit. This perched water table resulted from either a localized lithological change or from little to no fracturing in the underlying rock. Between the up gradient and down gradient monitoring wells, groundwater elevations range from 684 to 678 ft MSL, a difference of 6 ft. A groundwater contour map constructed from water measurements of 11 November 1981, shows flow to be in a westerly direction (see Figure 19). Monitoring well WES-2-1-81 was not used in constructing the water table map. Groundwater data are presented in Appendix D.

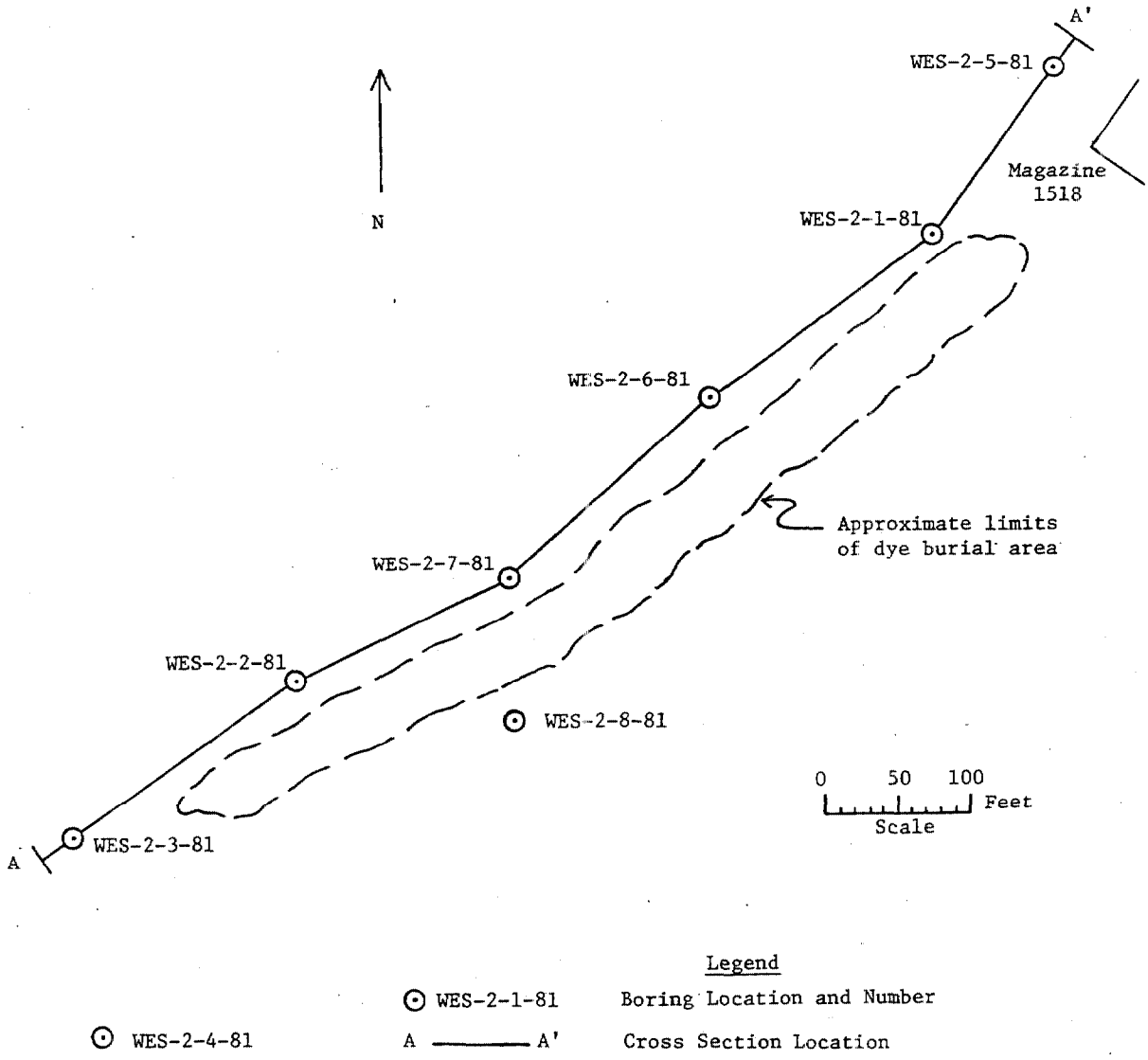


Figure 17. Well Locations and Cross Section Location of Dye Burial Area.

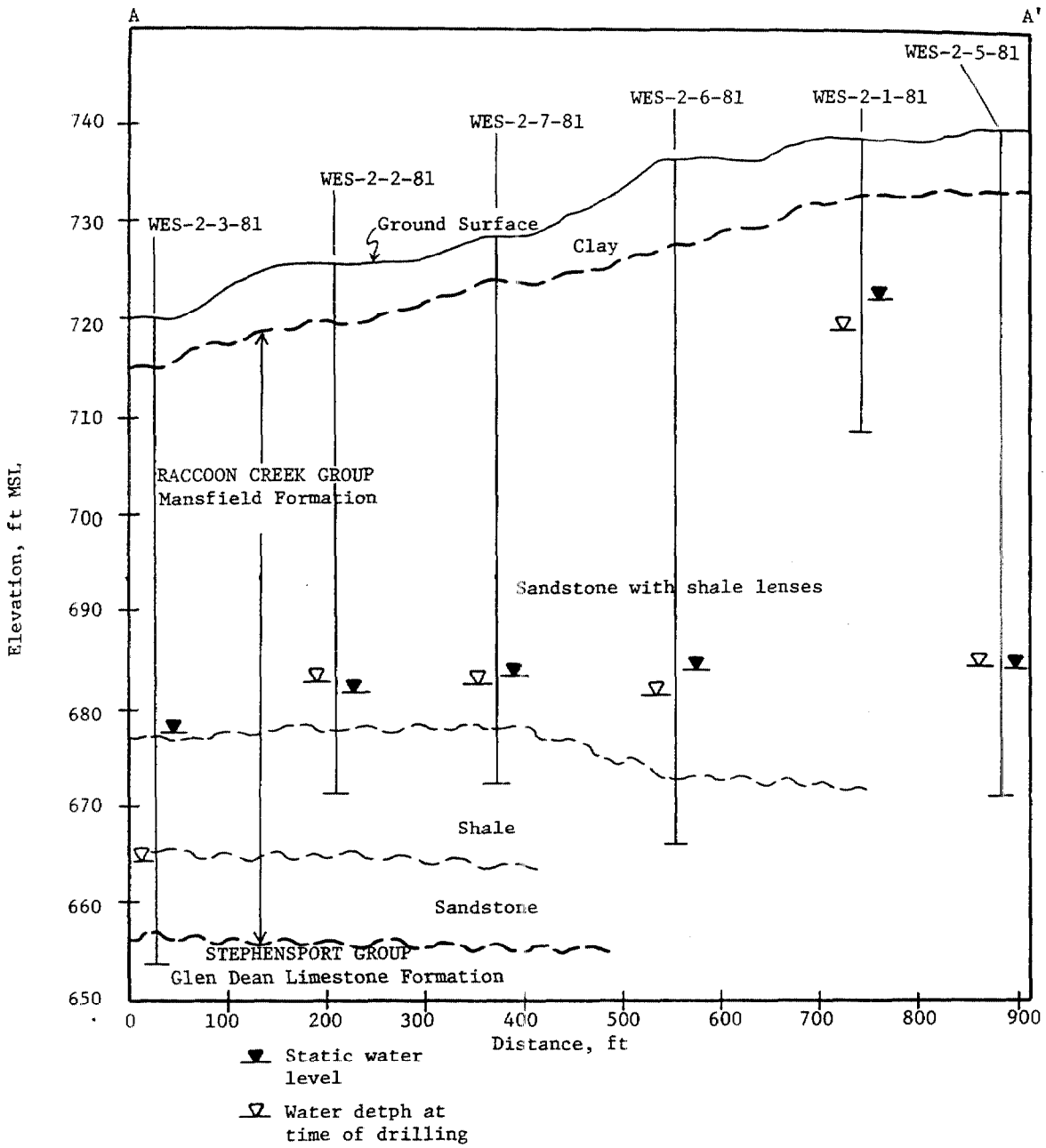


Figure 18. Geological Cross Section A-A' of Dye Burial Grounds

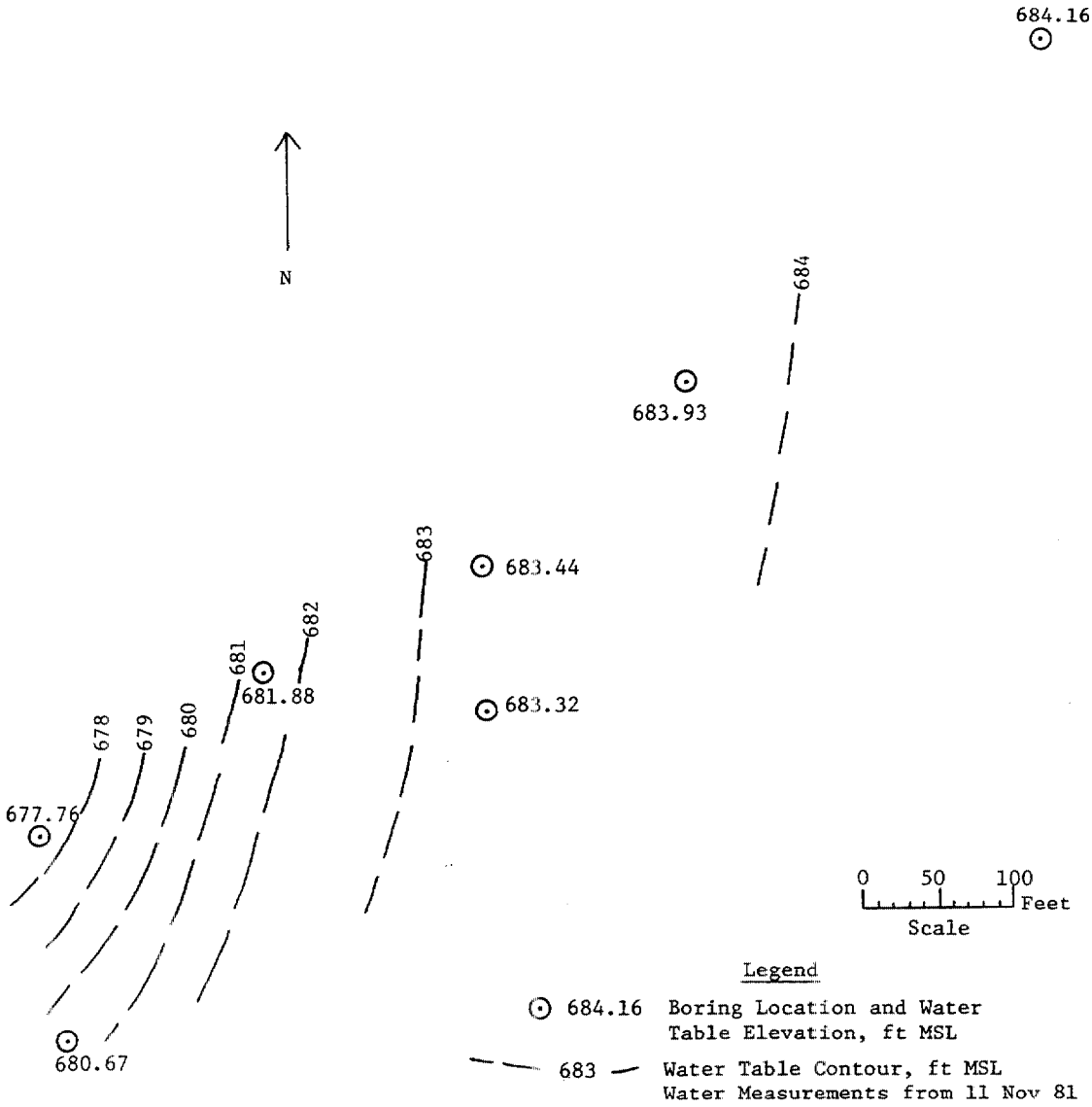


Figure 19. Water Table Contour Map of Dye Burial Grounds.

Physical and chemical test

Laboratory classification of soil samples yielded a clay (CL) soil type for the entire disposal site. This soil ranges from shades of brown to tan. Permeability tests on samples 1, 2, and 2 from borings 2, 6, and 8, respectively, yielded a permeability value ranging from 3.86×10^{-5} to 5.98×10^{-8} cm/sec. Appendix E presents the physical and chemical test results.

Ammunition Burning Grounds

Location

The Ammunition Burning Grounds are located in the N½ NW¼ NW¼, Sec. 28, T5N, R3W (Figure 4). Eight monitoring wells were installed within the Ammunition Burning Grounds Valley (Figure 20) and monitoring well WES-3-7-81 was installed approximately ½ mile southeast of Building 2908 (Ammunition Burning Grounds Field Office) along Jeep Trail 25 (Figure 21). Monitoring well WES-3-7-81 is located in an area reported to have been used for disposal operations and lies adjacent to a small stream draining into the Little Sulphur Creek further south.

Geology

Overburden at the Ammunition Burning Grounds ranges in thickness from 3 to around 11 ft. The underlying rock consists of sandstone, limestone, and shale from the Hardinsburg, Golconda Limestone, Big Clifty, and Beech Creek Limestone Formations of the Stephensport Group; and shale and sand lenses from the Elwren Formation of the West Baden Group (Table 1). Boring WES-3-3-81 was drilled to a depth of 100.6 ft and underlying the overburden encountered approximately 30 ft of weathered sandstone (Hardinsburg Formation). This sandstone is brown to grey and composed of fine-grained quartz sand containing very small iron nodules and lenses of clay. No core was recovered from a depth of 27 to 35 ft. Material from this interval was either a loose sand or a very weathered sandstone. At a depth of 35 ft, the core changes to a hard, grey, dense, fine-grained, fossiliferous limestone (Golconda Limestone Formation) which grades into a green to dark grey, soft shale (Big Clifty Formation) at a depth of 46 ft. This shale unit at a depth of 60 ft changes to a grey, hard, dense limestone (Beech Creek Limestone Formation) which is thinly bedded

IN5 170 023 498

HYDROGEOLOGIC INVESTIGATION OF WASTE DISPOSAL SITES AT THE NAVAL WEAPONS SUPPORT CENTER, CRANE, INDIANA

APPENDIX E

by

Joseph B. Dunbar

Geotechnical Laboratory
USAE Waterways Experiment Station

P.O. Box 631, Vicksburg, MS 39180

Prepared for
Naval Weapons Support Center
Crane, Indiana

April 1982

APPENDIX E: DEFINITION OF SOIL TESTS AND SOIL TEST RESULTS

Physical Test

Standard soil test procedures as specified by Engineer Manual 1110-2-1906, "Laboratory Soil Testing," were followed during testing.

Unified Soil Classification System

Classification of soils according to the USCS depends upon grain-size distribution and the Atterberg limits. Grain-size distribution is determined with sieves and the liquidity and plasticity limits (Atterberg limits) are determined with standard devices. The liquid and plastic limits are the water contents at the boundaries between the semiliquid and plastic state and the plastic and semisolid state, respectively. Figure E-1 shows the USCS by which the NWSC soil samples were described. Figures E-2 and E-3 present examples of the laboratory data sheets for the classification of two samples; one a coarse-grained material (SP-SM) and the other a fine-grained material (CL). Laboratory data sheets for all the NWSC soil samples are presented in the end of this Appendix.

Water content and density

Water content and soil density are important engineering relationships and are useful correlations among samples for which a full suite of physical test data are not available. Water content is the amount of free water in a soil and is determined by the following formula:

$$W = \frac{W_w}{W_s}$$

where

W = water content

W_w = weight of water

W_s = dry weight of soil

Density or dry unit weight is determined according to the following formula:

$$D = \frac{W_s}{V}$$

where

D = density

W_s = dry weight of soil

V = volume of soil

Permeability

Permeability is a measure of a soil's ability to transmit a fluid; in the current study the fluid is water. The flow of water through a soil is governed by Darcy's law:

$$q = KiA$$

where

q = rate of discharge through a soil of cross-sectional area A

K = coefficient of permeability

i = hydraulic gradient (the loss of hydraulic head per unit distance of flow)

A = sample area perpendicular to flow

For coarse-grained materials, permeability tests are usually conducted in a constant head apparatus. In this equipment, an overflowing reservoir maintains a constant head on a soil sample of specified dimensions and the amount of water passing through the soil in a specified time is collected and measured. The permeability is then calculated according to the formula:

$$K_{20} = \frac{QLR_t}{hAt}$$

where

K_{20} = coefficient of permeability, cm/sec at 20°

Q = quantity of flow, cc

L = length of specimen over which head loss is measured, cm. If piezometer taps are used, L is equal to the distance between piezometer taps.

R_t = temperature correction factor for viscosity of water

h = head loss across sample or between piezometer taps, cm

Chemical Test

Cation Exchange Capacity

Cation Exchange Capacity (CEC) test procedures as specified by Technical Report EPA/CE 81-1, "Procedures for Handling and Chemical Analysis of Sediment and Water Samples," were followed during testing. The CEC of a soil is a measure of the cations reversibility capacity from the surface of the crystalline matrix of a mineral. The CEC is expressed in millequivalents per 100 grams and is calculated from the following formula:

$$\text{CEC/100g} = \frac{(X\ \text{mg}/\ell)\ (.05)\ (100)}{(18\ \text{mg/meq})\ (g)\ (\%\ S)}$$

where

X = ammonia concentration in NaCl leachate, mg/ℓ

.05 = volume of NaCl leachate, ℓ

18 = millequivalent weight of ammonium ion, mg/meq

g = weight of sediment sample, g

% S = percent solids in sediment sample (as decimal fraction)

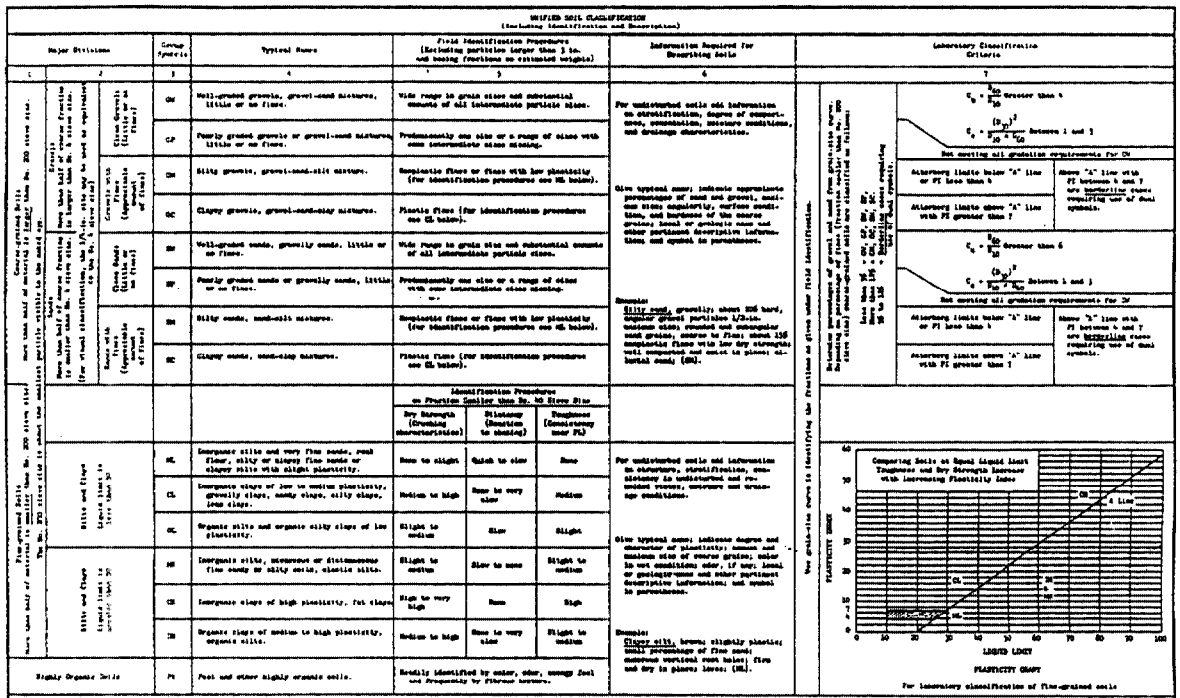


Figure E-1. Unified Soil Classification System (USCS)

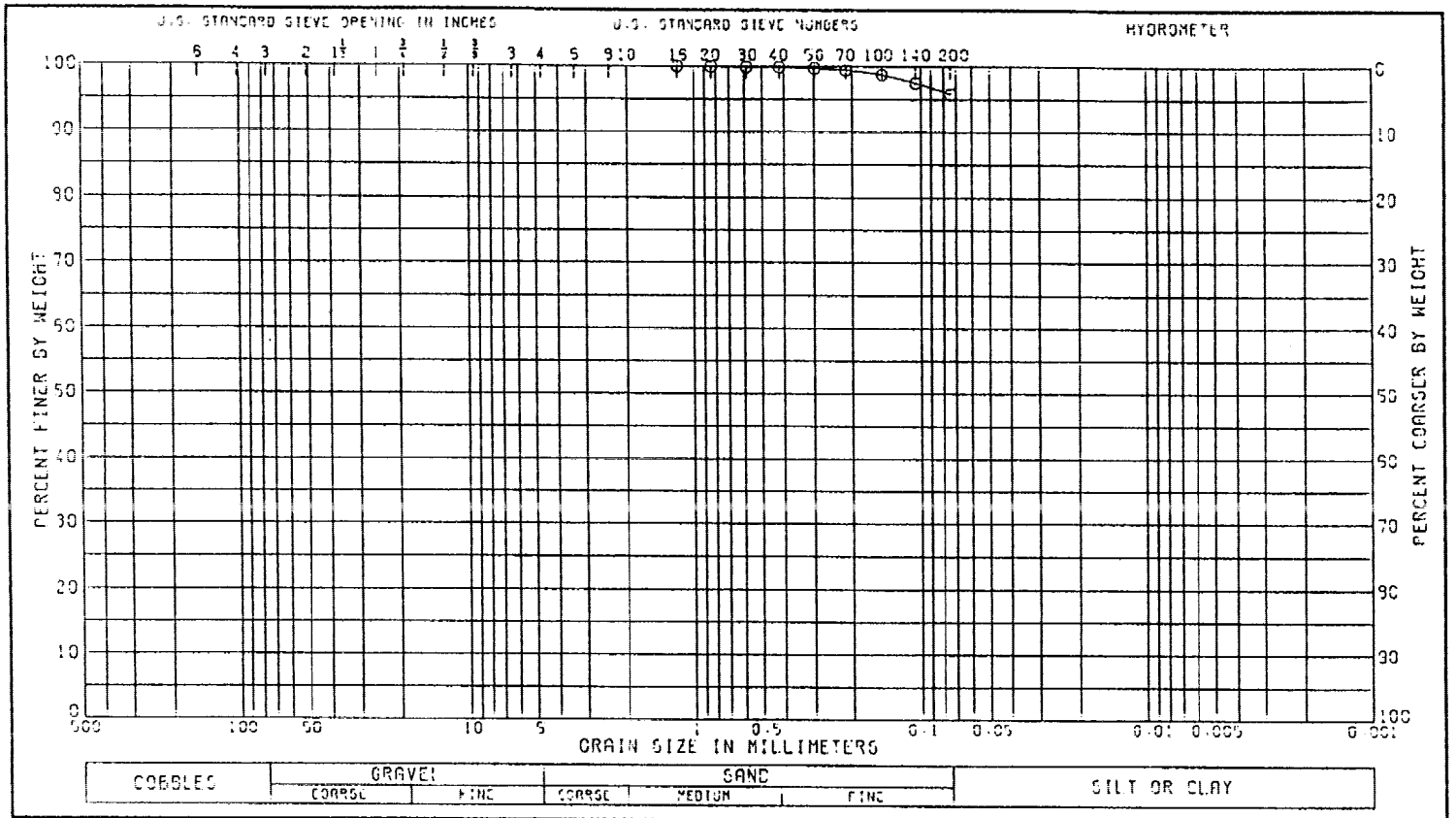
Laboratory Soil Test Results

Dye Burial Grounds

Boring Number	Sample Number	Depth ft	Dry Density lbs/cu ft	Water Content Percent	Liquid Limit Percent	Plastic Limit Percent	Plasticity Index Percent	USCS**	Permeability cm/sec	Cation Exchange Capacity meq/100 g
2-1-81	1	0.92-1.87	101.0	21.9	38	19	19	CL		7.83
2-1-81	2	6.0-6.95	125.1	11.1	25	14	11	CL		
2-2-81	1	0.0-1.65	93.3	21.2	46	21	25	CL	2.97×10^{-7}	2.54
2-3-81	1	0.0-1.15	108.9	18.4	44	23	21	CL		4.49
2-3-81	2A*	5.0-5.65	--	14.3	38	14	24	CL		
2-4-81	1	0.0-2.2	91.4	18.5	42	21	21	CL		2.81
2-5-81	1	0.0-1.55	93.8	18.0	44	23	21	CL		4.51
2-5-81	2	5.0-6.1	117.0	8.8	25	14	11	CL		
2-6-81	1	0.0-2.2	82.7	15.8	31	17	14	CL		
2-6-81	2	5.0-6.33	106.3	15.4	38	15	23	CL	3.86×10^{-5}	0.49
2-7-81	1	0.0-2.0	105.5	9.2	34	15	19	CL		5.06
2-8-81	1	0.0-2.25	84.8	17.1	39	18	21	CL		
2-8-81	2	5.0-6.69	117.0	13.4	39	16	23	CL	5.98×10^{-8}	6.38

* Jar sample
** See Figure E-1

IN5 170 023 498



LL 39	PL 19	PI 19	CS	NAT W.% 21.9

CLASSIFICATION

CLAY (CL), BROWN: TRACE OF SAND

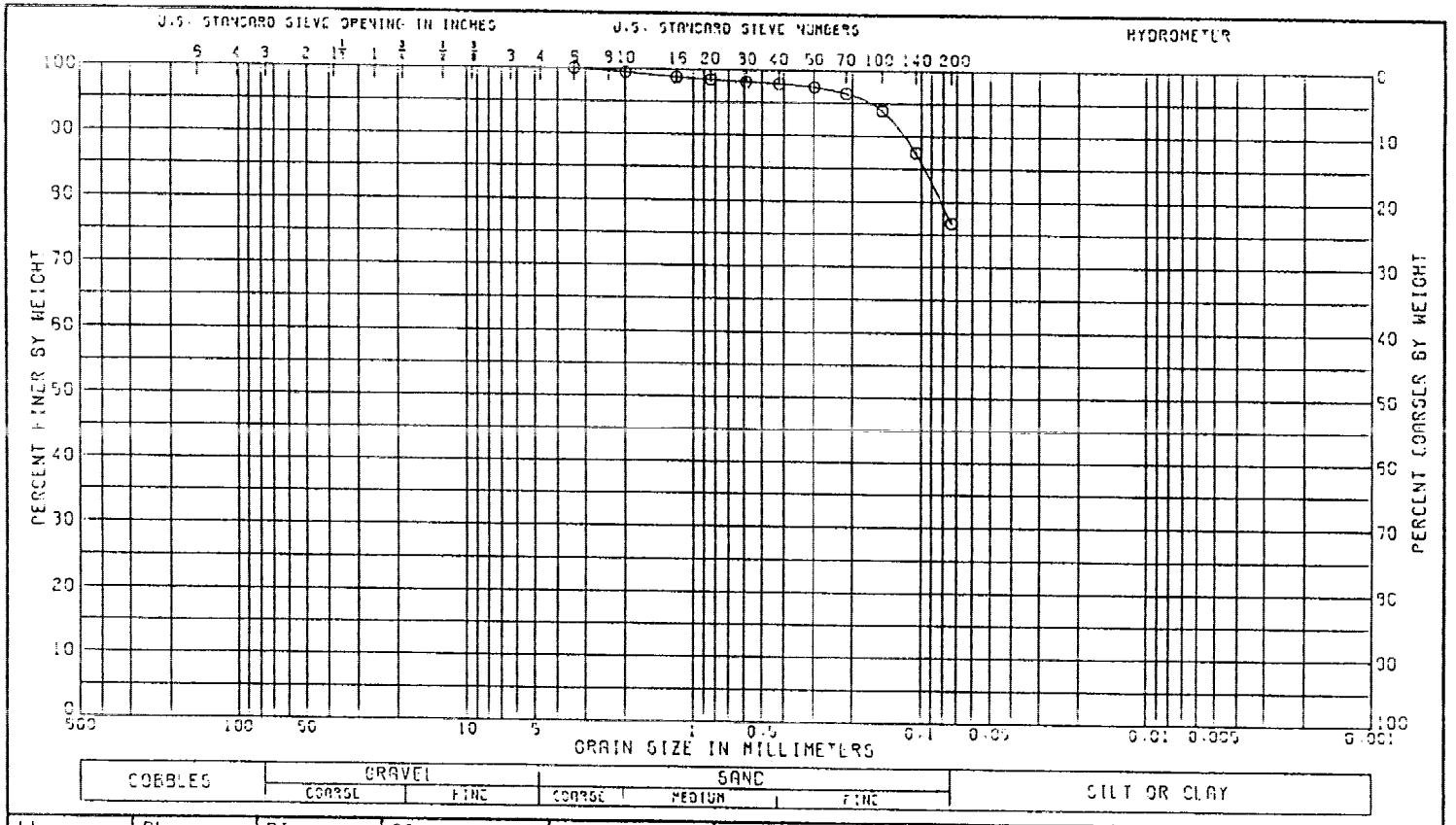
GRADATION CURVE

PROJECT CRANE NASC DYE BURIAL

BORING NO. 2-1-91 SAMPLE NO. 1

DEPTH/ELEV 0.02-1.97 DATE 30 MAR 92

IN5 170 023 498



LL 25	PL 14	PI 11	CS	NAT W.% 11.1

CLASSIFICATION

SANDY CLAY (CL), LIGHT BROWN

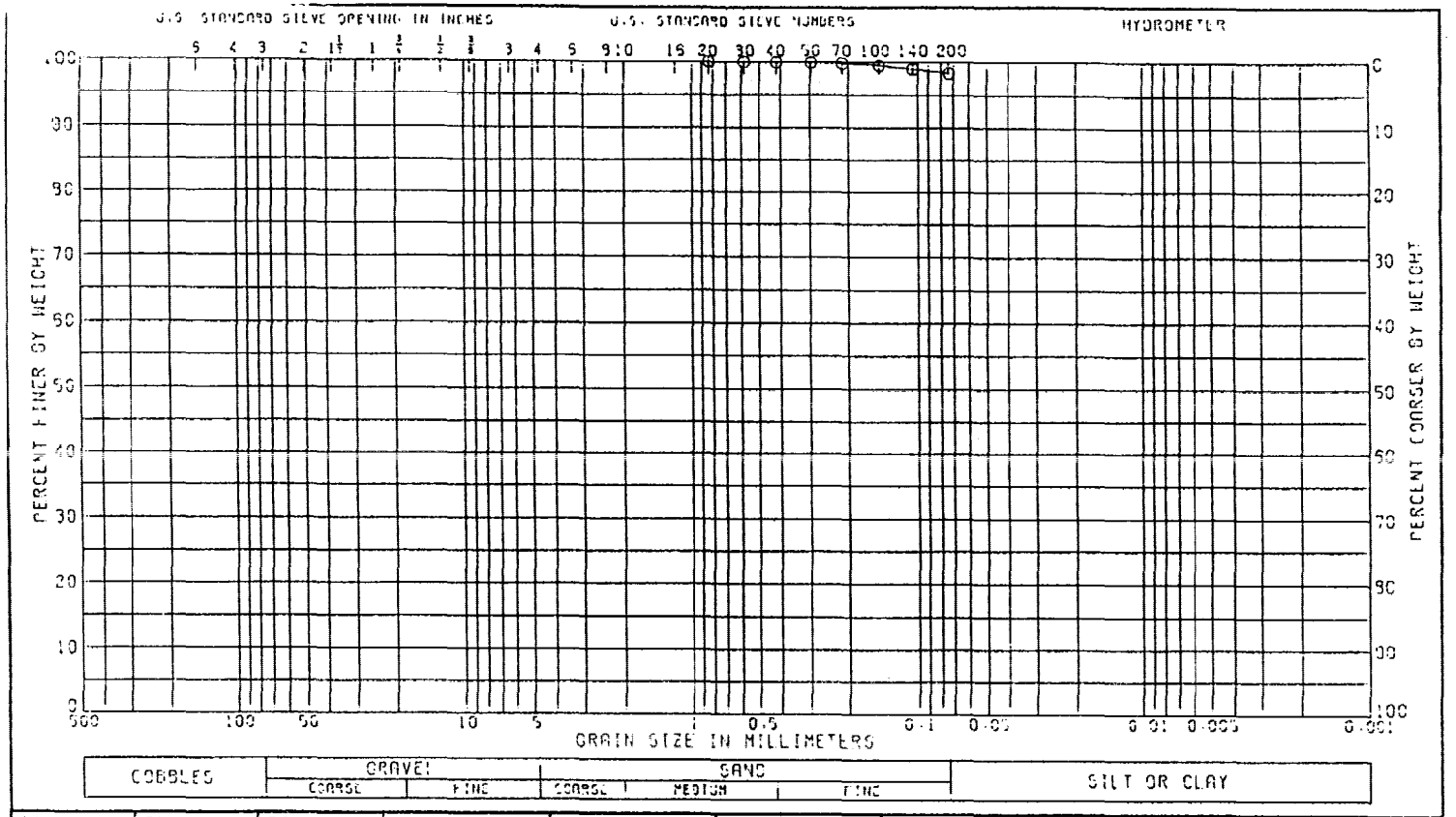
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO 2-1-91 SAMPLE NO 2

DEPTH/ELEV 5.0-5.05 DATE 30 MAR 92

IN5 170 023 498



LL 49	PL 21	PI 25	CS	NAT W.% 21.2	

CLASSIFICATION

CLAY (CL), BROWN

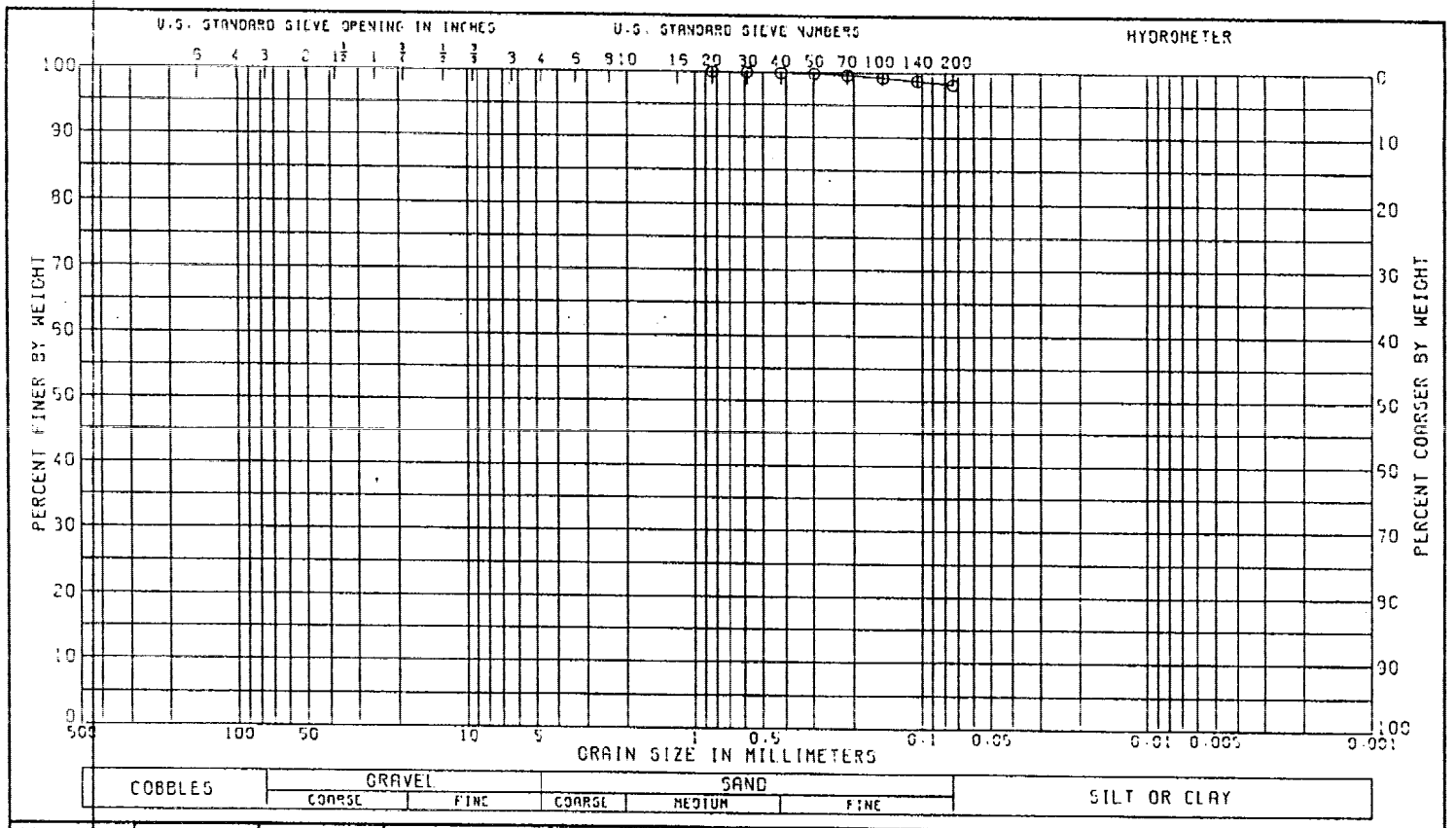
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO. 2-2-91 SAMPLE NO. 1

DEPTH/ELEV 0.0-1.65 DATE 30 MAR 92

IN5 170 023 498



LL 44	PL 23	PI 21	CS	NAT W.% 18.4	

CLASSIFICATION
CLAY (CL), BROWN

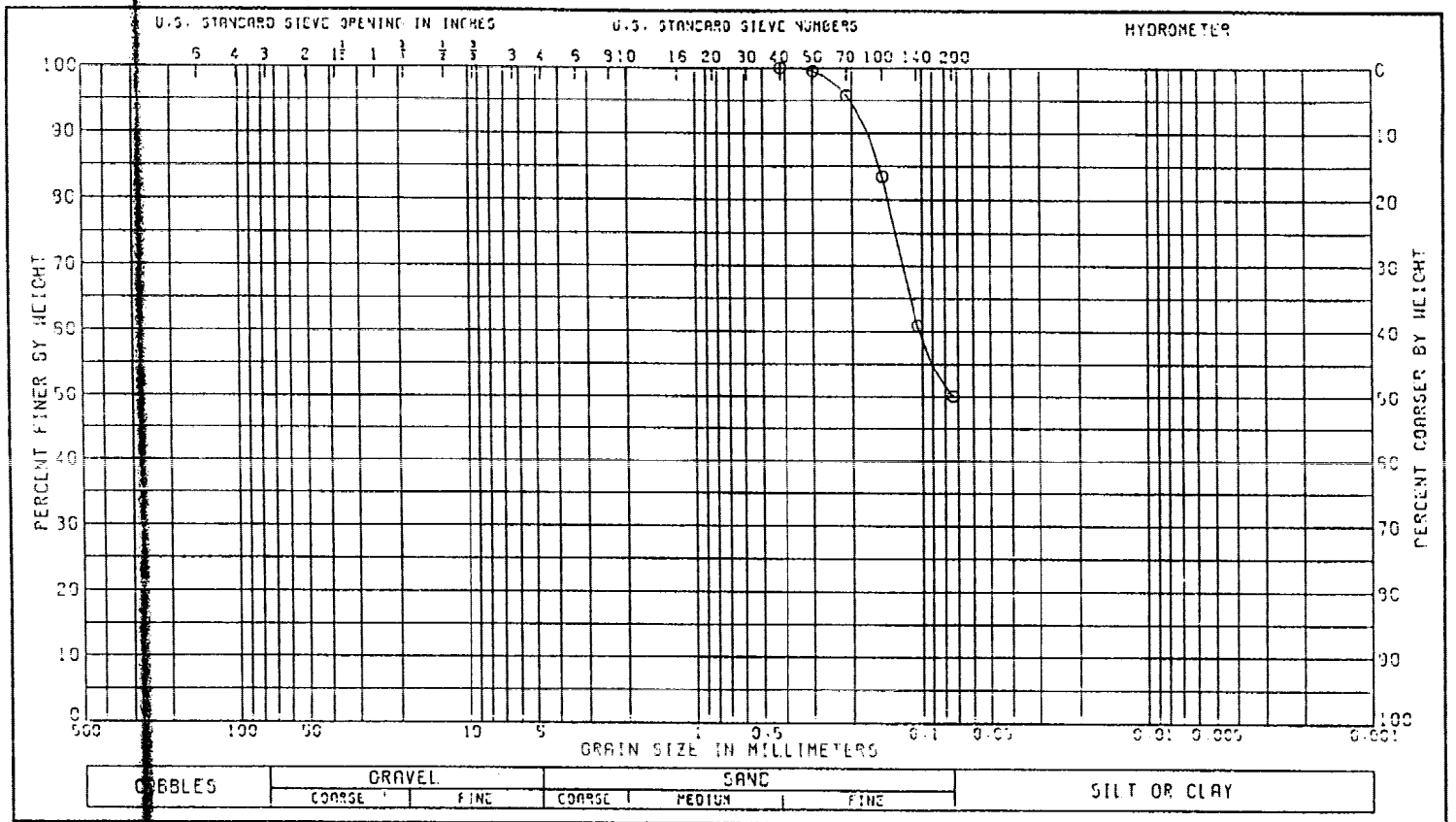
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO. 2-3-91 SAMPLE NO. 1

DEPTH/ELEV 0.0-1.15 DATE 30 MAR 82

IN5 170 023 498



LL 39	PL 14	PI 24	OS	NAT W.% 14.3	

CLASSIFICATION

SANDY CLAY (CL), BROWN

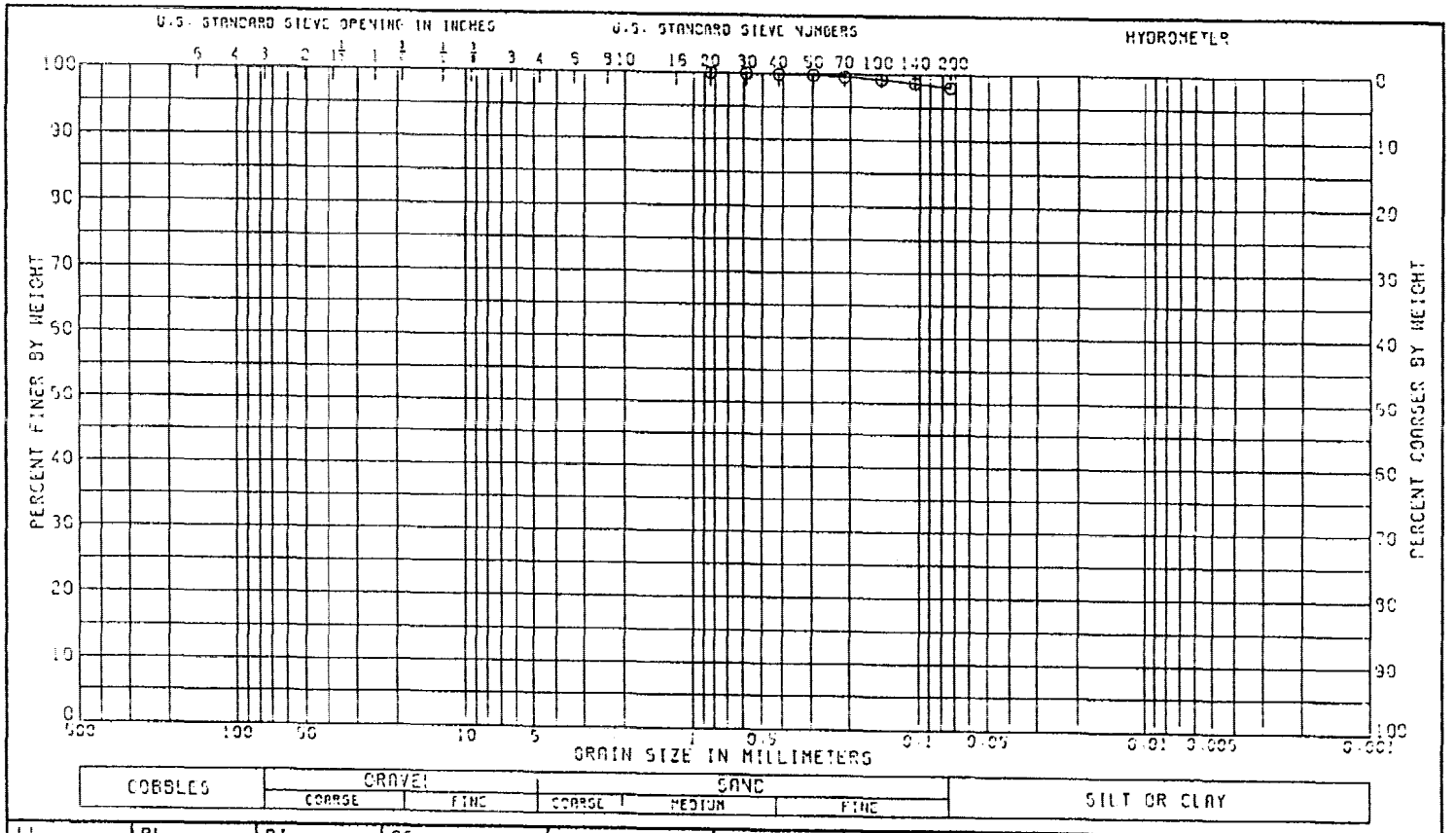
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO. 2-3-91 SAMPLE NO. 29

DEPTH/ELEV 5.0-5.55 DATE 30 MAR 92

IN5 170 023 498



LL 42	PL 21	PI 21	CS	NAT W.% 18.5	

CLASSIFICATION

CLAY (CL), BROWN

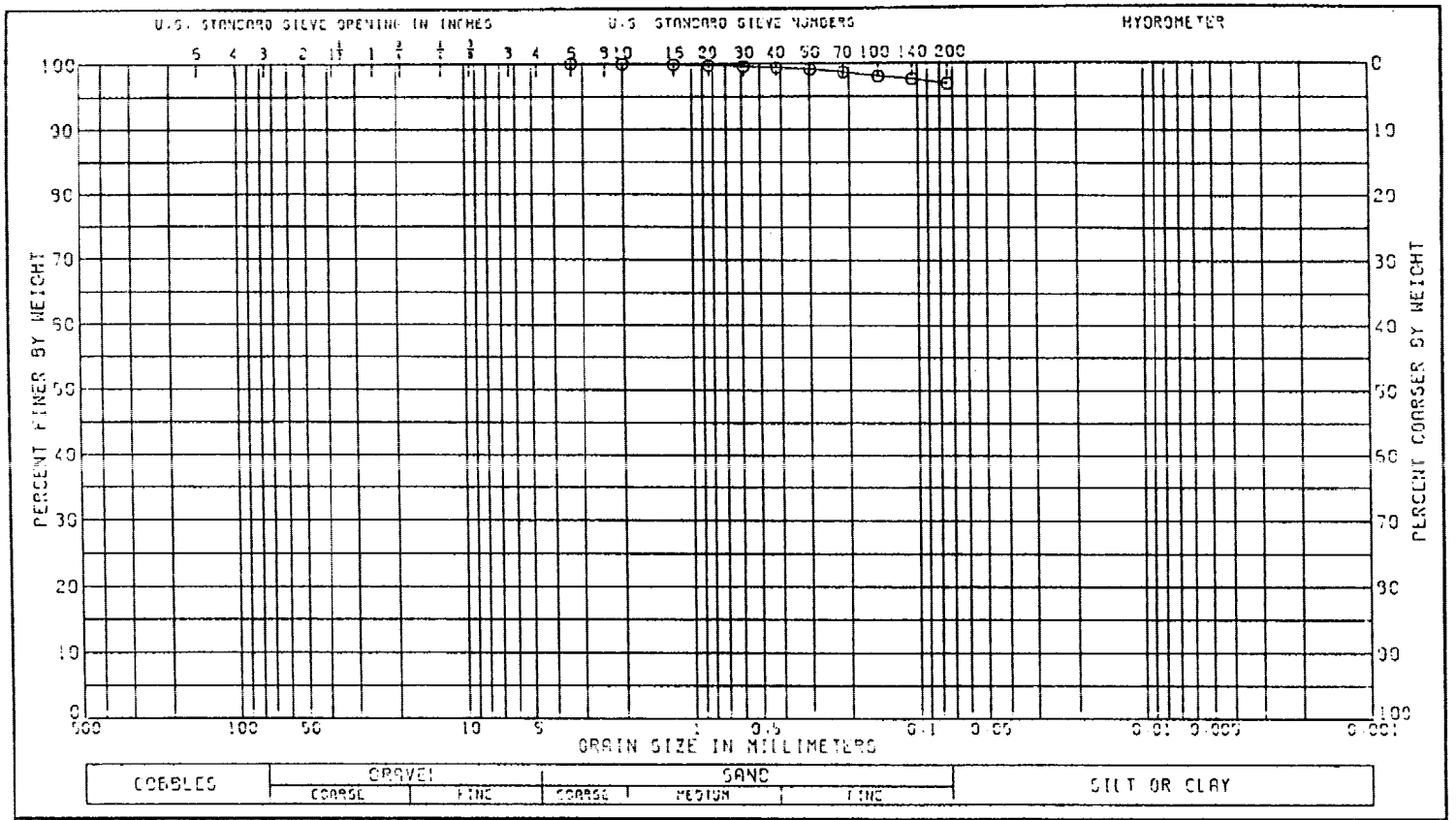
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO 2-1-91 SAMPLE NO 1

DEPTH/ELEV 0.0-2.2 DATE 30 MAR 92

IN5 170 023 498



LL	PL	PI	OS	NAT W.%	
44	23	21		18.0	

CLASSIFICATION

CLAY (CL), DARK TAN: TRACE OF SAND

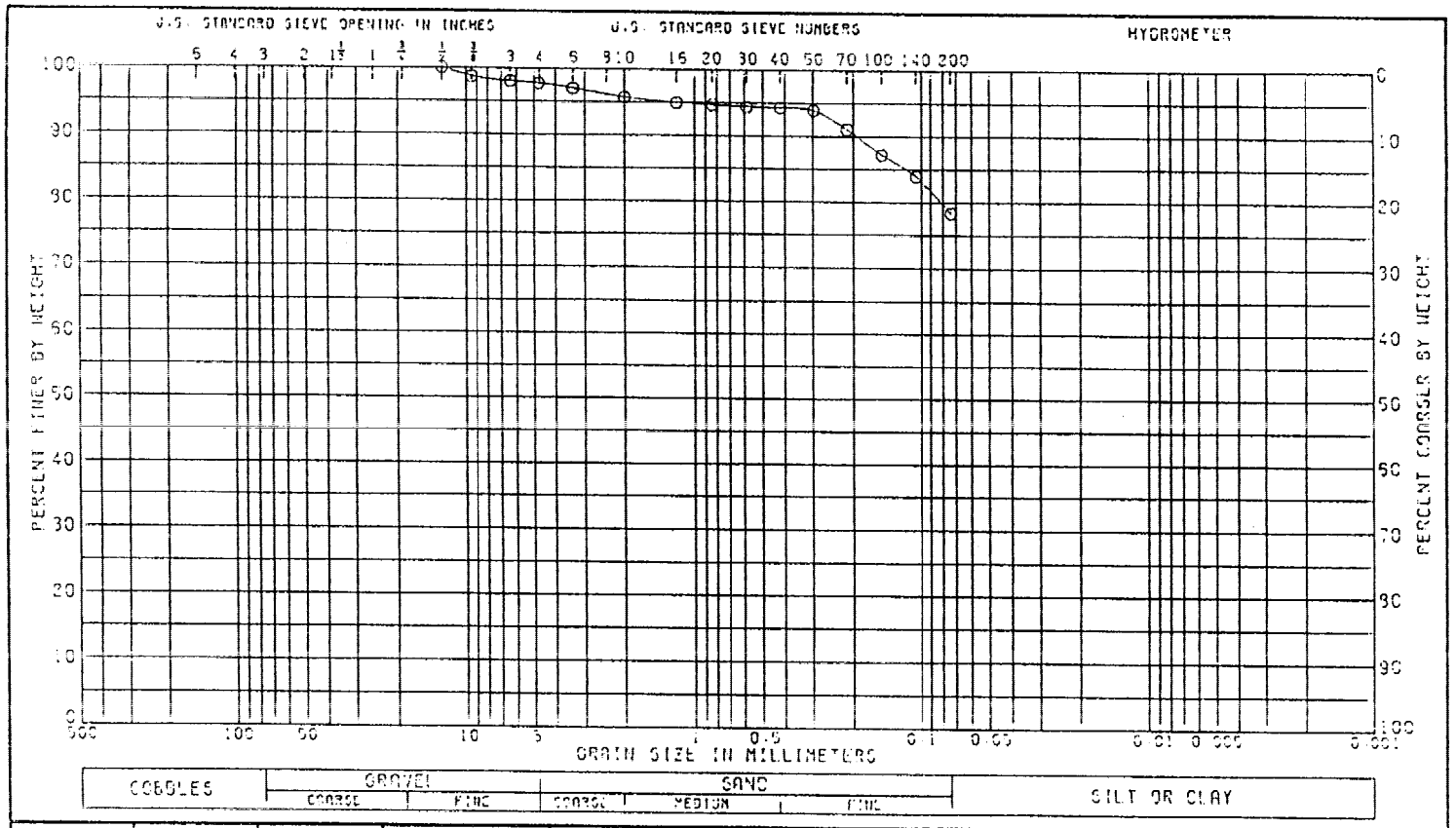
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO 2-5-91 SAMPLE NO 1

DEPTH/ELEV 0.0-1.55 DATE 30 MAR 92

IN5 170 023 498



LL	PL	PI	CC	NAT W.%	
25	14	11		8.8	

CLASSIFICATION

SANDY CLAY (CL), TAN

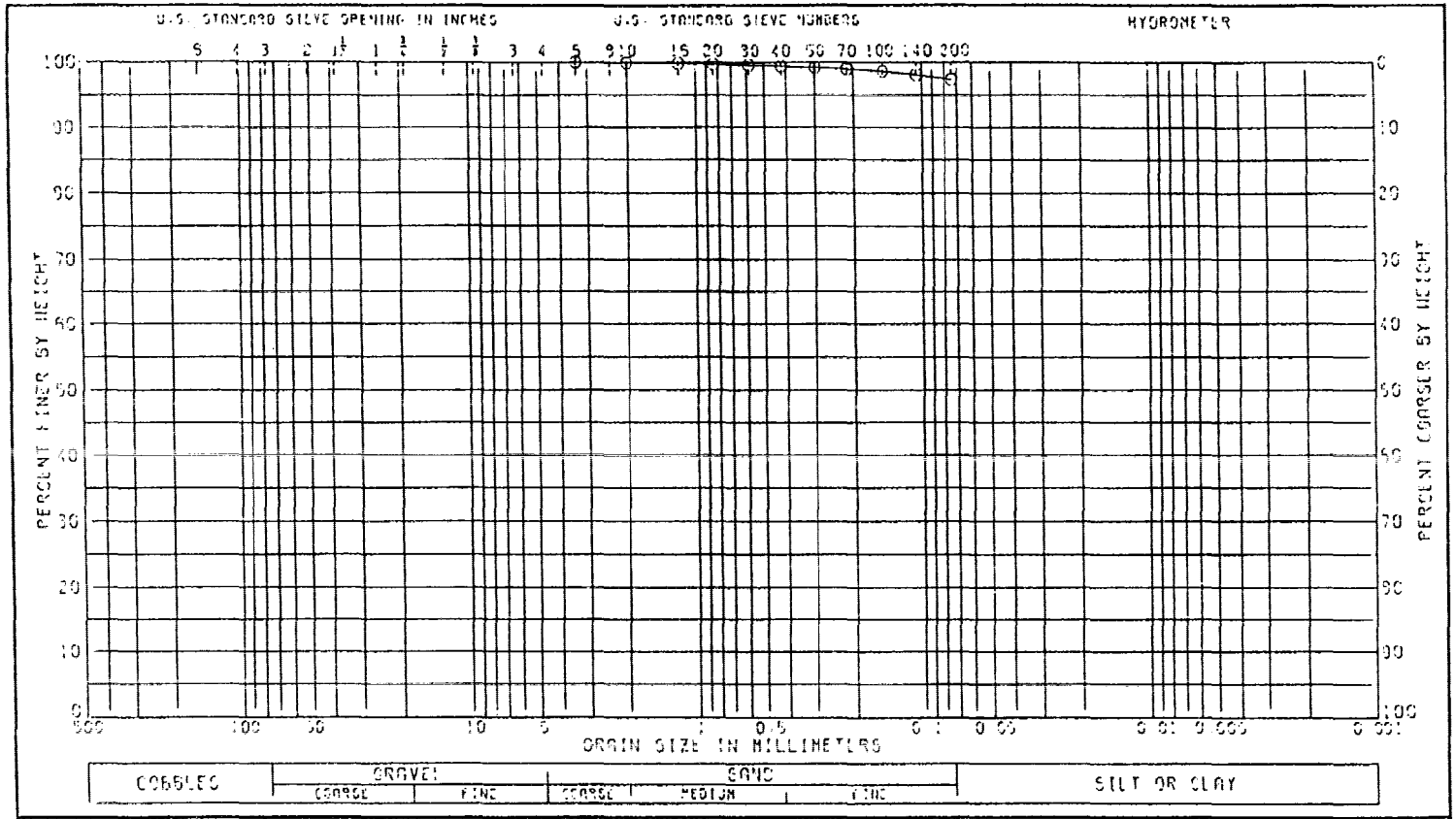
GRADATION CURVE

PROJECT CRANE NLGC DYE BURIAL

BORING NO 2-5-91 SAMPLE NO 2

DEPTH/ELEV 5.0-6 . DATE 11 FEB 92

IN5 170 023 498



LL 31	PL 17	PI 14	CS	NAT W.% 15.8	

CLASSIFICATION

CLAY (CL), BROWN

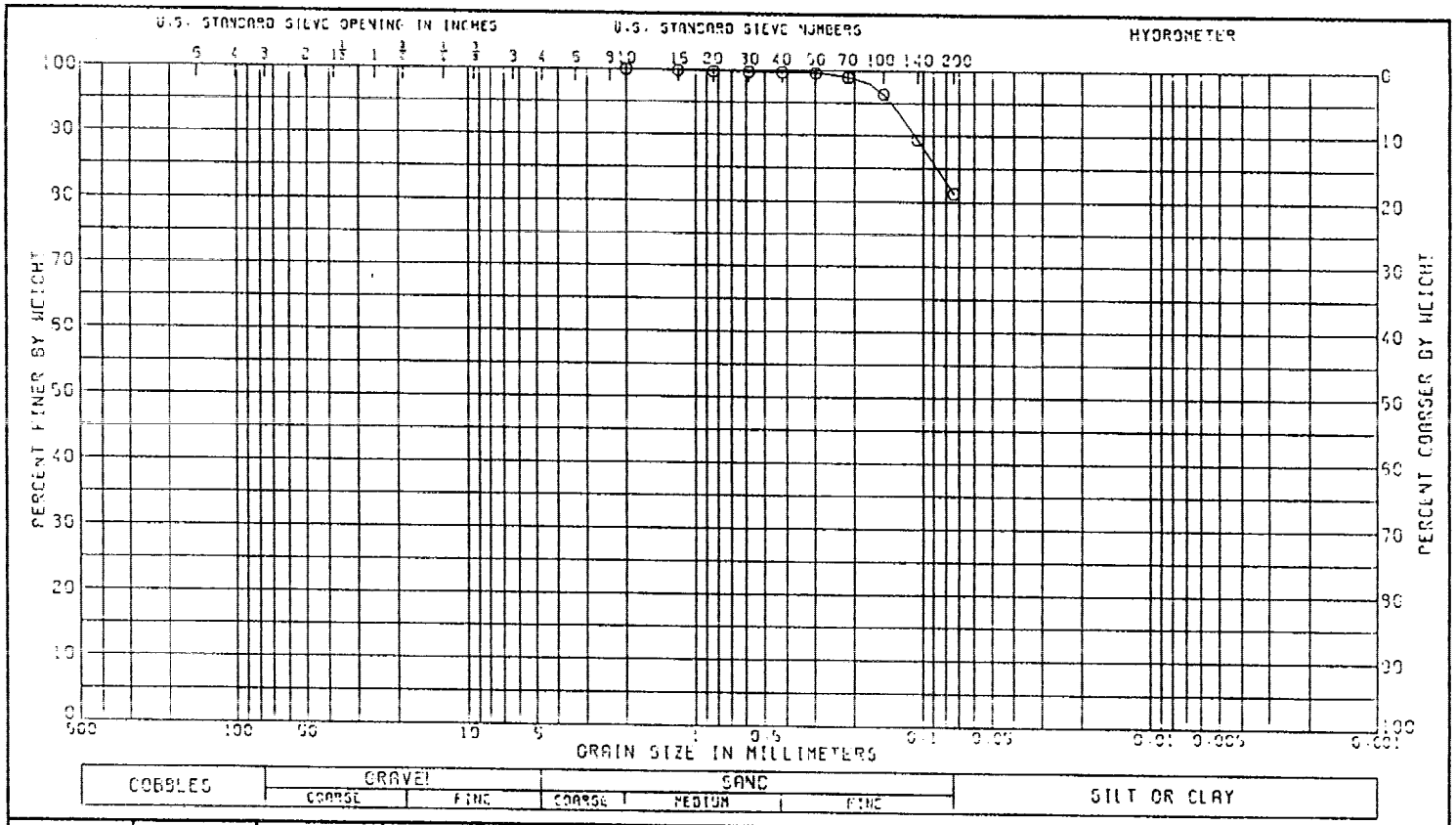
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO 2-6-81 SAMPLE NO 1

DEPTH/ELEV 0.0-2.2 DATE 25 FEB 82

IN5 170 023 498



LL 39	PL 15	PI 23	CS	NAT W.% 15.4

CLASSIFICATION

SANDY CLAY (CL), BROWN

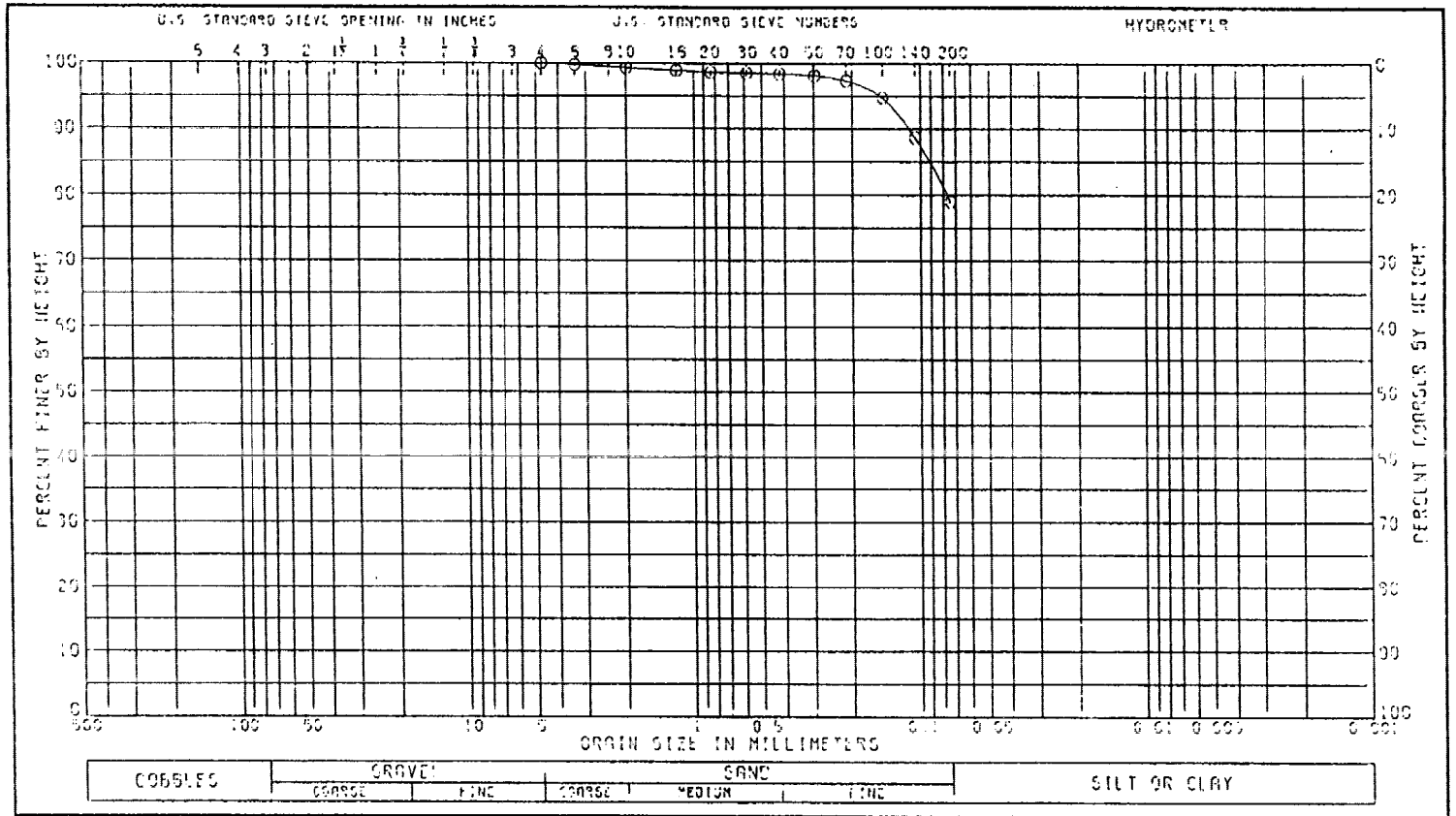
GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO. 2-6-91 SAMPLE NO. 2

DEPTH/ELEV 5.0-6.33 DATE 30 MAR 92

IN5 170 023 498



LL	PL	PI	CC	NAT W.%	
34	15	19		9.2	

CLASSIFICATION

SANDY CLAY (CL), BROWN

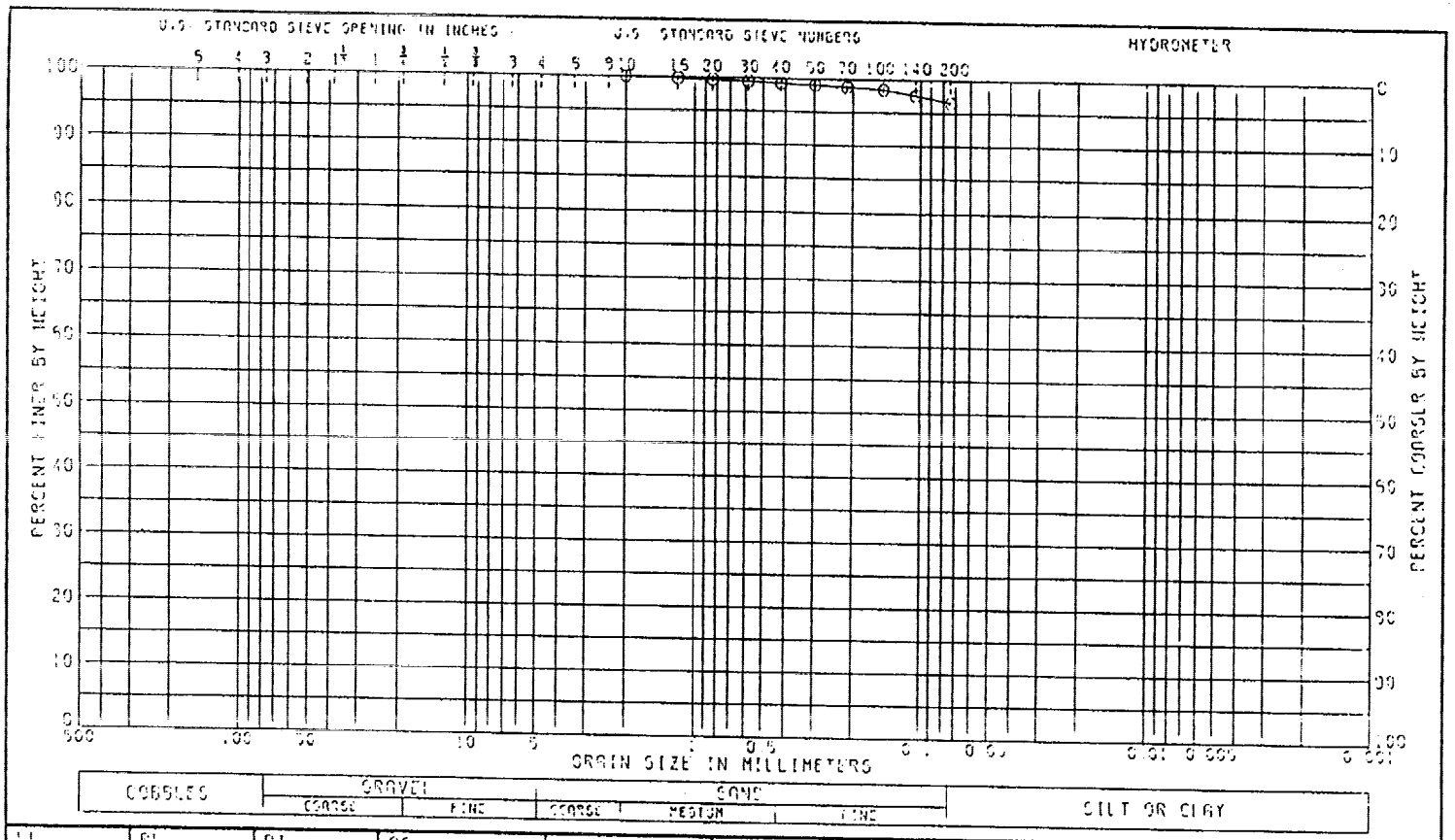
GRADATION CURVE

PROJECT CRANE NAAD DYE BURIAL

BORING NO 2-7-91 SAMPLE NO 1

DEPTH/ELEV 0.0-2.0 DATE 25 FEB 92

IN5 170 023 498



LL 39	PL 18	PI 21	CC	NAT W.C. % 17.1

CLASSIFICATION

CLAY (CL), BROWN: TRACE OF SAND

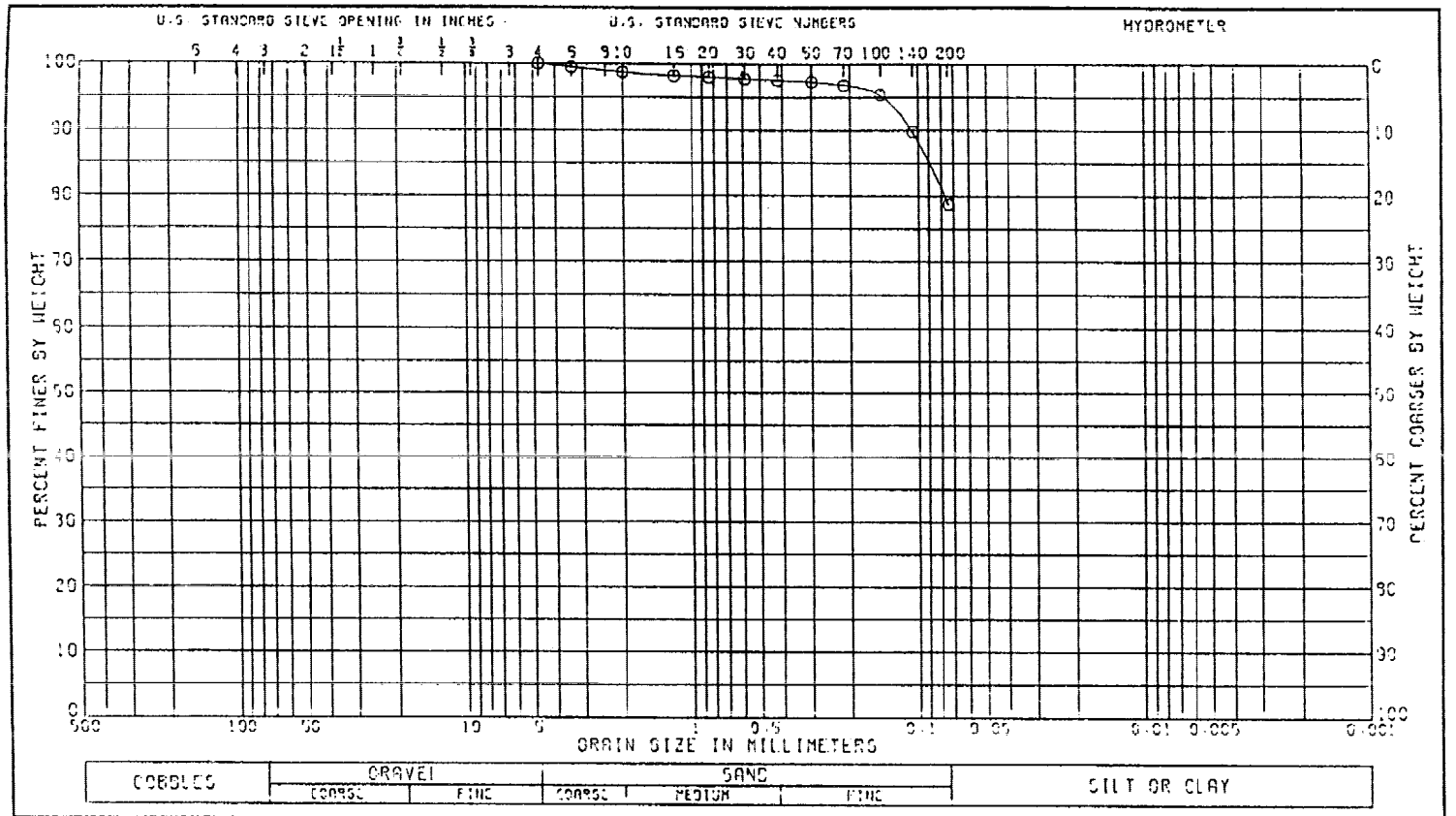
GRADATION CURVE

PROJECT CRANE MASS GYE BURIAL

BORING NO 2-B-B1 SAMPLE NO 1

DEPTH/ELEV 0.0-2.25 DATE 26 FEB 82

IN5 170 023 498



LL 39	PL 16	PI 23	CS	NAT W.% 13.4	

CLASSIFICATION

SANDY CLAY (CL), TAN

GRADATION CURVE

PROJECT CRANE NWSC DYE BURIAL

BORING NO 2-9-91 SAMPLE NO 2

DEPTH/ELEV 5.0-5.69 DATE 30 MAR 92

IN5 170 023 498

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 26 Aug 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 738.66 Boring No. WES-2-1-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1A	26 Aug	0.0		0.0	0.5	0.0	0.92	3" Shelby Tube	0	Jar	Clay (CL): Brown in color, soft,
1				0.5	1.0	0.92	1.87		0	S.T.	low plasticity, & slight organic
				1.0	1.5				10		matter.
				1.5	2.0				30		Sample length: 1.97 ft
			6.0	2.0	2.5				100		
				0.0	5.0	-------		7" Folding Auger	------		Cleanout
2A	26 Aug	6.0	7.17	5.0	5.5	5.0	6.0	3" Fixed Piston Sampler	0	Jar	Sandy silt (SM) & sandstone frag-
2				5.5	6.0	6.0	6.95		20	S.T.	ments: brown in color, slightly
				6.0	6.5				380		sticky, & contains 25% weathered
				6.5	7.0				700		sandstone. Sandstone is light
				7.0	7.17				800		brown to grey in color, uniform,
											fine-grained, dry, & friable.
											Sample length: 1.95 ft

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

NOTE: Extra jar sample made for NWSC

IN5 170 023 498

BORING LOG
FIELD DATA

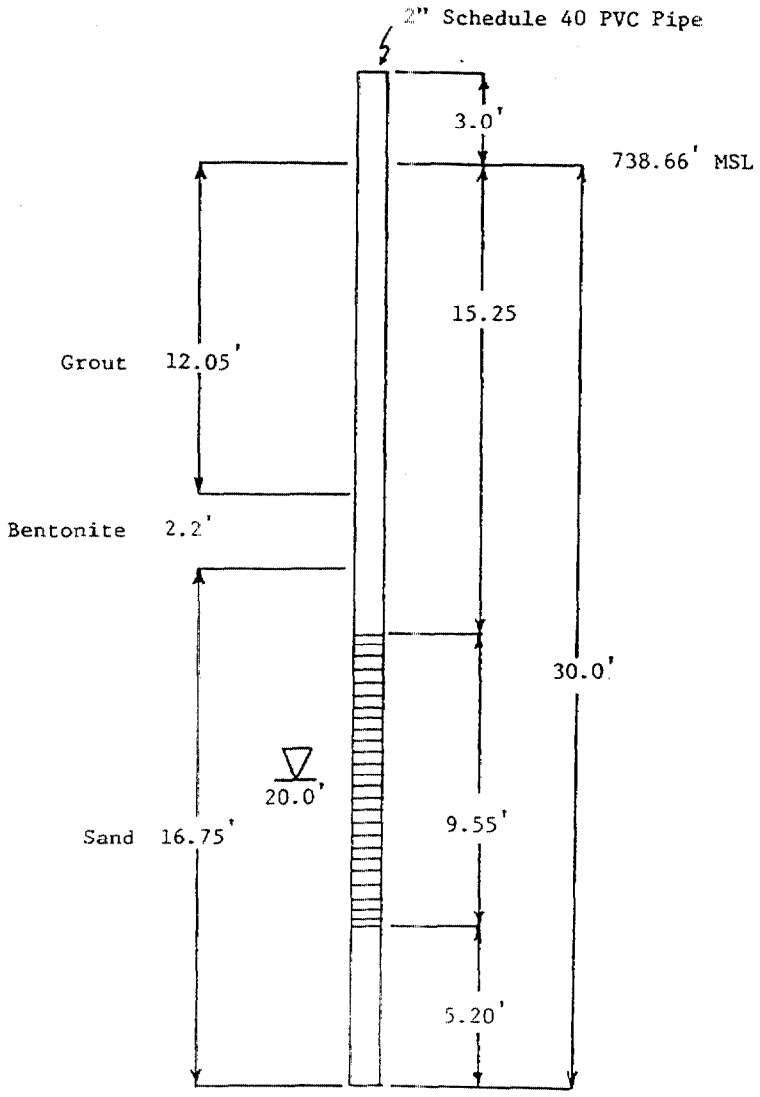
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-1-81

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
	26 Aug	7.17	11.5	5.0	7.17	--------		7" Folding Auger		--------	Cleanout: weathered sandstone starts at 7.17 ft
	26 Aug	11.5	30.0	7.17	30.0	--------		5-5/8" Rock Bit		--------	Hard sandstone at 11.5 ft. Water at approximately 20 ft. Cleanout to 10 ft below water, blew hole dry of water & cuttings. Installed well screen.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-1-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 26 Aug 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 725.46 Boring No. WES-2-2-81

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	26 Aug	0.0		0.0	0.5	0.0	1.65	3" Shelby Tube	40	S.T.	Silt (ML): brown in color, soft,
1A				0.5	1.0	1.65	2.5		75	Jar	slightly sticky, dry, & contains
				1.0	1.5				140		organic matter.
				1.5	2.0				180		Sample length: 2.5 ft
			5.0	2.0	2.5				230		
				0.0	5.0	-------	-------	7" Folding Auger	------		Cleanout
2A	26 Aug	5.0		5.0	5.5	5.0	6.05	3" Fixed Piston Sampler	40	Jar	Silt (ML) & weathered sandstone:
				5.5	6.0				700		brown to brownish white in color
			6.05	6.0	6.05				800		& dry. Sandstone is fine-grained,
											uniform, & friable. Slight dry
											green film found on soil sample.
											Sample length: —
	26 Aug	6.05		5.0	6.1	-------	-------	5-5/8" Rock Bit	-------		Cleanout

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 8 Sheets

NOTE: Extra jar sample made for NWSC

IN5 170 023 498

BORING LOG
FIELD DATA

Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-2-81

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
	26 Aug	6.05		6.1	6.7	------	------	3" Pitcher Sam.	200	--	Fragments of weathered sandstone
											Continued on Eng Form 1836, page 3.
											Will use 4x5-1/2 in. core barrel.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 8 Sheets

IN5 170 023 498

Hole No. WES-2-2-81

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION NWSC, Crane, Indiana	SHEET 3 OF 8 SHEETS
1. PROJECT NWSC Groundwater Study		10. SIZE AND TYPE OF BIT 4x5-1/2 in. diamond	
2. LOCATION (Coordinates or Station) Dye Burial Grounds		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY CEWES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) WES-2-2-81		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED zero; UNDISTURBED two	
5. NAME OF DRILLER C. Drake		14. TOTAL NUMBER CORE BOXES zero	
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE: STARTED 26 August 81; COMPLETED 2 September 81	
7. THICKNESS OF OVERBURDEN 6.1 ft		17. ELEVATION TOP OF HOLE 725.46 ft	
8. DEPTH DRILLED INTO ROCK 48.4 ft		18. TOTAL CORE RECOVERY FOR BORING 87.8%	
9. TOTAL DEPTH OF HOLE 54.5 ft		19. SIGNATURE OF INSPECTOR A. Lt. B. Dunbar	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
725.46	0.0					
724.46	1.0					
723.46	2.0					
722.46	3.0		See page one for over-burden information.			
721.46	4.0					
720.46	5.0					
719.46	6.0					26 August 1981
718.46	7.0		No recovery - highly weathered sandstone			Run 1 [illegible] 3:45 Rec 4.3' [illegible] 4:45 Loss 0.8' [illegible] 60 min Gain- [illegible] time 50 min [illegible] press 100 psi [illegible] press - [illegible] 70± Oil Action Smooth Water ret Brown
717.46	8.0		½" clay seam-soft			
716.46	9.0		½" clay seam-soft Sandstone	81.4%	--	Remarks
715.46	10.0					

ENG FORM MAR 71 1836 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole MaWES -2-2-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 8 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING	%
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
715.46	10.0		Sandstone: see below			
714.46	11.0					
			Run 1			27 August 1981
713.46	12.0					NL - Run 2 Began 9:15 Rec 3.65' End 10:20 Loss - Time 65 min Gain - Drl time 40 min Hyd press 100-120 psi Water press - RPM 75± Drl Action Smooth Water Ret Brown
			closed break Sandstone interbedded with seams of clay, siltstone, limonite, lignite, and peat. Core ranges in color from shades of brown, orange, and red to various shades of grey. Grain size is uniform and ranges from very fine to fine with quartz grains predominating. Material is dry, friable, and weathered. Bedding is distinct with thickness ranging from ¼ in. to 8 in. maximum.			
712.46	13.0					
711.46	14.0					Bit blocked off.
710.46	15.0			100%	--	
			Run 2			
			fractured			
709.46	16.0					Run 3 10:40 4.15' 11:10 Loss - 30 min Gain - Drl time 30 min Hyd press 100-200 psi Water press - RPM 75± Drl Action Smooth Water Ret Brown Remarks -
708.46	17.0		Sandstone: same	100%	--	
707.46	18.0		closed break			
706.46	19.0					
			Run 3			
705.46	20.0		No recovery			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-2-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
705.46	20.0		Run 4			#L - Run 4 Began 12:05 Rec 0.0' End 12:30 Loss 0.6' Time 25 min Gain - Drl time 25 min Hyd press 100-120 psi Water press - RPM 50 ± Drl Action Smooth Water ret -
704.46	21.0		No recovery			
703.46	22.0		-fractured siltsone Siltstone: brown, dry, and breaks very easily.	62.0%	--	Remarks: Bit blocked off.
702.46	23.0					#L - Run 5 Began 12:50 Rec 3.1' End 1:45 Loss 1.9' Time 55 min Gain - Drl time 50 min Hyd press 100-200 psi Water press - RPM 50-75 ± Drl Action Semi-rough Water ret -
701.46	24.0		Sandstone with lignite: same			Remarks -
700.46	25.0		Run 5			
			-fractured Run 6	100.0%	--	#L - Run 6 Began 2:05 Rec ≈0.6' End 2:30 Loss - Time 25 min Gain - Drl time 20 min Hyd press 200 psi Water press - RPM 50 ± Drl Action Rough Water ret -
699.46	26.0		Limonite with pyrite and chalcopyrite: red, blue, black in color, very hard, and has high specific gravity.			
			No recovery	0.0%	--	
698.46	27.0		Run 7			Remarks -
697.46	28.0		fractured sandstone and clay	69.0%	--	#L - Run 7 Began 2:50 Rec 0.0' End 3:15 Loss 1.6' Time 25 min Gain - Drl time 15 min Hyd press 200 psi Water press - RPM 50 ± Drl Action Rough Water ret -
696.46	29.0		Sandstone: same			
695.46	30.0		Run 8			Remarks Bit blocked off

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-2-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 8 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
695.46	30.0		fractured			WL - Run 8 Began 3:30 Rec 2.0' End 4:15 Loss 0.9' Time 45 min Gain - Drl time 40 min Hyd press 150 psi Water press - RPM 50± Drl Action Very rough Water ret -
694.46	31.0		Sandstone: same except very hard.	83.0%	--	
			clay/silt: grey and soft Run 9			
693.46	32.0		From 32.0 to 32.25 - grey sandstone			Remarks Bit blocked off.
692.46	33.0		Sandstone interbedded with seams of grey shale(1/32 to 1/2 in.). Sandstone is grey to orange brown in color, hard, and fine-grained.			WL - Run 9 Began 4:20 Rec 1.7' End 4:40 Loss 0.35' Time 20 min Gain - Drl time 20 min Hyd press 200 psi Water press - RPM 50-100 ± Drl Action Smooth Water ret -
691.46	34.0		Sandstone from 34.0 to 35.0 is dark grey in color.			
690.46	35.0		Sandstone from 35.0 to 37.8 is light brown to orange brown and contains no shale seams.			Remarks Bit blocked off. 28 August 1981
689.46	36.0			100.0%	--	WL - Run 10 Began 9:26 Rec 4.85' End 11:06 Loss Time 100 min Gain - Drl time 90 min Hyd press 80-100 Water press - RPM 35 ± Drl Action Smooth Water ret -
			Run 10			
688.46	37.0					Remarks -
687.46	38.0		fractured	100.0%	--	WL - Run 11 Began 11:20 Rec 4.2' End 1:30 Loss - Time 130 min Gain - Drl time 120 min Hyd press 100-150 psi Water press - RPM 35 ± Drl Action Smooth Water ret -
686.46	39.0		1/16 in. lignite			Remarks -
685.46	40.0		Sandstone and shale: orange brown sandstone from 1/16 to 3 in. and grey shale from 1/16 to 1 in. thickness. fractured			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-2-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
685.46	40.0					Switched over to water coring due to long drill times. Lost water at 27 ft - sandstone is too fractured for drilling mud to prevent water loss. Will drop casing into hole after reaming hole out with 6-3/4 in. rock bit for 6-1/2 in. casing. Bottom of casing is at 39.0 ft.
			3/4 in. shale seam	100.0%	--	
684.46	41.0		Run 11			
683.46	42.0		fractured			
			Sandstone with interbedded shale seams. Sandstone is various shades of brown, uniform, fine-grained, and quartz grains predominating.			
682.46	43.0					29 August 1981
681.46	44.0		Run 12			WL - Run 12 Began 11:30 Rec 2.95' End 12:15 Loss - Time 45 min Gain - Drl time 45 min Hyd press 150 psi Water press- PPM 50± Drl Action Smooth Water ret Brown Remarks-
680.46	45.0		Sandstone: same			
			From 45.5 to 48.2 alternating grey sandstone and shale with brown sandstone. Bedding thickness averages between 1/16 to 1/2 in. Sandstone is fine-grained and moderately friable and core breaks occur in shale seams.			
679.46	46.0					
678.46	47.0			100.0%	--	[illegible] Run 13 [illegible] 12:45 Rec 4.2' [illegible] 1:35 Loss - [illegible] 50 min Gain - [illegible] 50 min [illegible] 150 psi [illegible] [illegible] 50± [illegible] Action Smooth Water ret Brown Remarks -
677.46	48.0		Run 13			
			machine/mechanical fracture Brown sandstone			
676.46	49.0					
			From 49.0 to 51.1 ft grey to dark grey shale(70%) interbedded with fine-grained, grey sandstone(30%).			
675.46	50.0					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

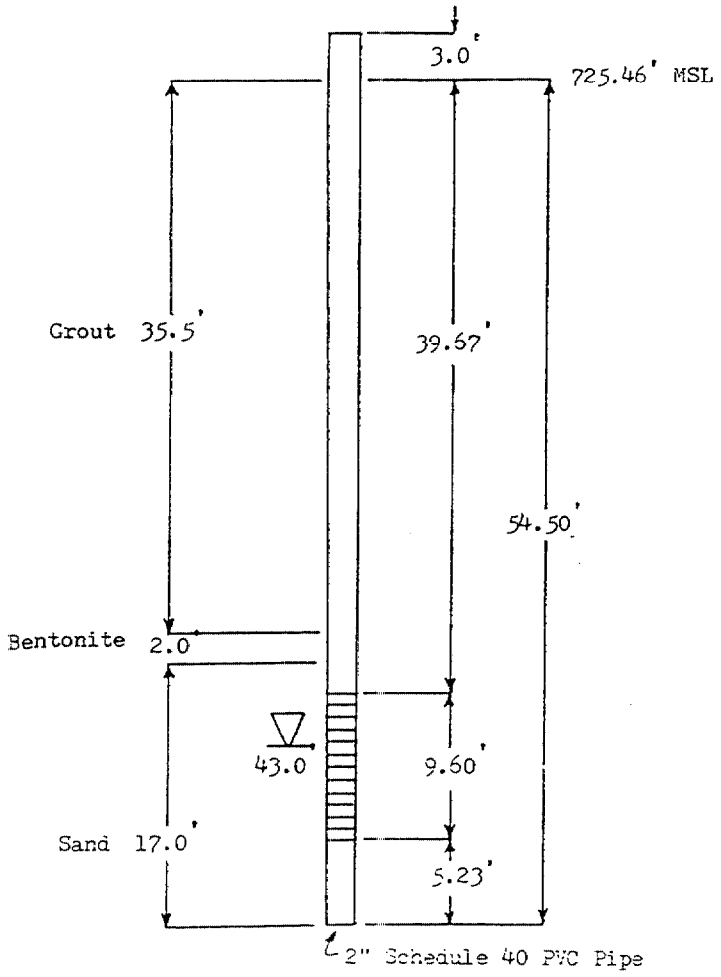
Hole No. WES-2-2-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
675.46	50.0		Shale(70%) with interbedded sandstone(30%)			MLr Run 14 Began 2:00 Rec 4.5' End 3:40 Loss 1.0' Time 90 min Gain - Drl time 90 min Hyd press 300 psi Water press - RPM 70 Drl Action Smooth Water retBrown Remarks-
674.46	51.0		0.15 ft dark grey shale			
			Shale: green in color, uniform, brittle, and soft.	81.8%	--	
673.46	52.0		Highly fractured - possibly mechanical/ machine fractured.			
672.46	53.0		Run 14			
			Recovered core to approximately 53.5 ft.			
671.46	54.0		End depth is 54.5 ft			
670.46	55.0		Blew hole dry of all water. Ran air for approximately one hour to remove water. Will monitor in morning to see if water is coming in. Water level rose to 43.0 ft overnight. Blew hole and installed well screen.			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-2-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 3 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 720.02 Boring No. WES-2-3-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	3 Sep	0.0		0.0	0.5	0.0	1.15	3" Shelby Tube	0	S.T.	Clay (CL): Brown in color, dry,
1A				0.5	1.0	1.15	1.45		20	Jar	crumbles easily, & contains frag-
				1.0	1.5				150		ments of weathered sandstone.
				1.5	2.0				300		Sample length: 1.45 ft
			2.5	2.0	2.5				350		Tube damaged in push.
				0.0	5.0	----------		7" Folding Auger	----------		Cleanout: assumed change at 2.5'
2A	3 Sep	2.5	5.65	50.	5.65	5.0	5.65	3" Pitcher Sampler	700	Jar	Clayey sand (SC) & fragments of
											sandstone: brown in color, dry,
											friable, uniform, & very fine-grained.
	3 Sep			5.0	66.2	----------		5-5/8" Rock Bit	----------		Cleanout: possible moisture at
											19.4 ft. Drilling indicates 0.2
											to 0.4 ft cavity at this depth.
											Checked hole for water and negative
											results. Removed small root from rock bit.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

NOTE: Extra jar sample made for NWSC

IN5 170 023 498

BORING LOG
FIELD DATA

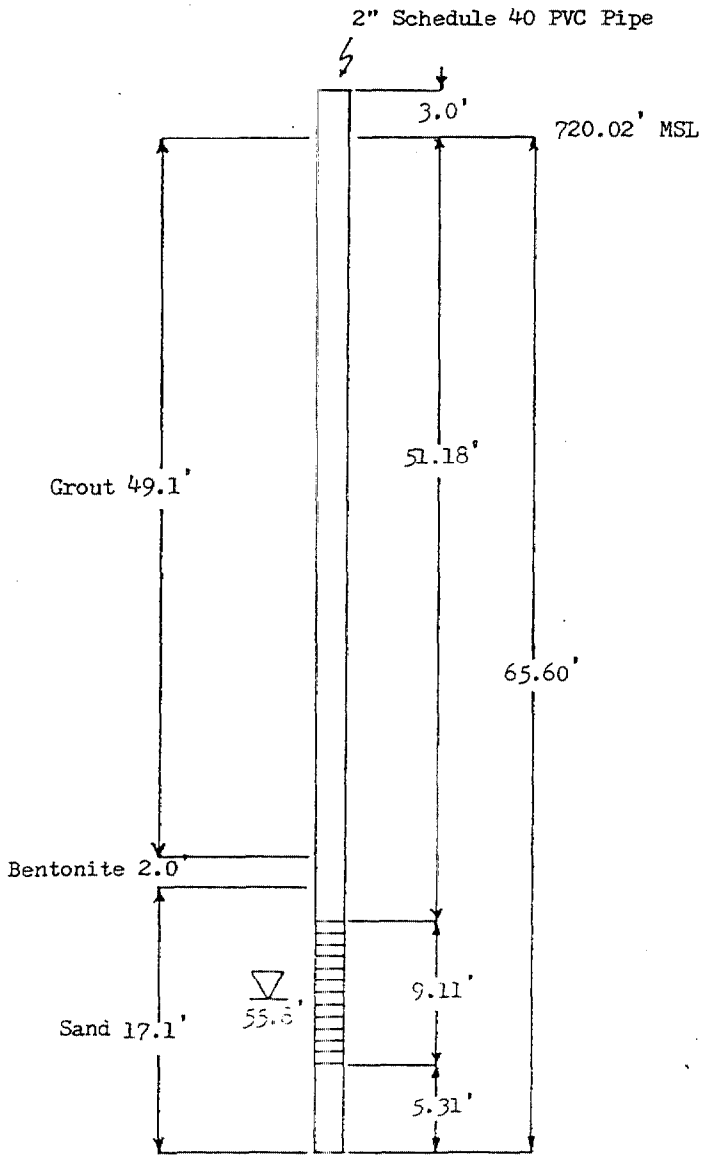
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-3-81

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
		5.65	43.7								Sandstone: brown, fine-grained
		43.7	54.7								Shale: grey/green color
		54.7	64.2								Sandstone: red/purple, fine-grained
											Limestone: grey, very hard
		64.2	66.2								
											Water level overnight rose to
											55.8 ft. Suspect water coming in
											at 54.7 ft. Blew hole dry and in-
											stalled well screen.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-3-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 4 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 716.66 Boring No. WES-2-4-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	4 Sep	0.0		0.0	0.5	0.0	2.2	3" Shelby Tube	20	S.T.	Silt (ML): brown to grey, no
1A				0.5	1.0	2.2	2.5		20	Jar	cohesion, dry, very uniform in
				1.0	1.5				70		grain size, texture, & composition
				1.5	2.0				150		Sample length: 2.5 ft
			3.75	2.0	2.5				300		
				0.0	5.0	----------		7" Folding Auger	----------		Cleanout
2A	4 Sep	3.75		5.0	5.5	5.0	5.65	3" Fixed Piston Samp.	150	Jar	Silt (ML) & fragments of sand-
			5.65	5.5	5.65				700		stone: silt is same as above.
											Sandstone is friable, fine-
											grained, light brown in color.
	4 Sep	5.65	41.5	5.0	31.0	----------		5-5/8" Rock Bit	----------		Sandstone: brown & fine-grained
	5 Sep	41.5	43.0	31.0	50.5	----------		5-5/8" Rock Bit	----------		Shale: green, soft & weathered
		43.0	50.5								Shale: green & hard

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED Sheet 1 of 2 Sheets

NOTE: Extra jar sample made for NWSC

IN5 170 023 498

BORING LOG
FIELD DATA

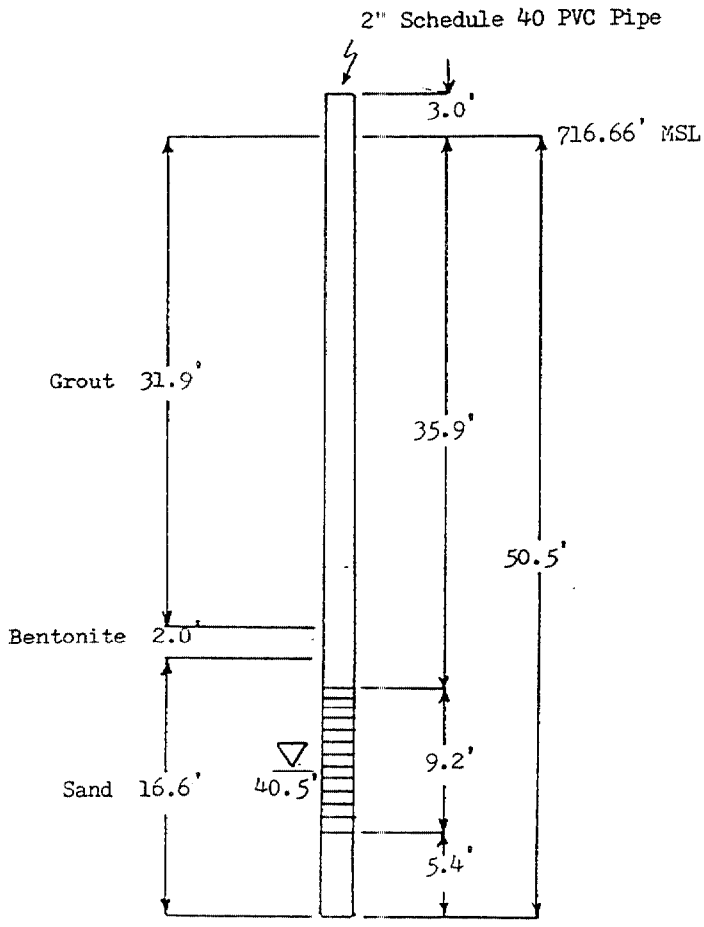
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-4-81

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
											Encountered water at 40.5 ft.
											Drilled 10.0 ft below water.
											Blew cuttings & water from hole.
											Installed well screen.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



▽ Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-4-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 5 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 739.24 Boring No. WES-2-5-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	5 Sep	0.0		0.0	0.5	0.0	1.55	3" Shelby Tube	20	S.T.	Clay (CL): brown in color, soft,
1A				0.5	1.0	1.55	1.90		20	Jar	dry, moderately cohesive, & con-
				1.0	1.5				50		tains organic matter.
				1.5	2.0				150		Sample length: 1.9 ft
				2.0	2.5				300		
				0.0	5.0	----	----	7" Folding Auger	----	----	Cleanout
2	5 Sep			5.0	5.5	5.0	6.1	3" Fixed Piston Sam.	100	S.T.	Clay (CL) & sandstone: clay same
2A				5.5	6.0	6.1	6.45		350	Jar	as above. Sandstone is red in
			6.45	6.0	6.45				750		color, very friable, & fine-grained.
											Sample length: 1.45 ft
	5 Sep	6.45	28.0	5.0	68.8	----	----	5-5/8" Rock Bit	----	----	Sandstone: red to brown, fine-
		28.0	68.8								grained. Alternating small seams
											of sandstone, shale, & limestone.
											Slightly moist at 30 ft but no water.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

NOTE: Extra jar sample was made for NWSC

IN5 170 023 498

BORING LOG
FIELD DATA

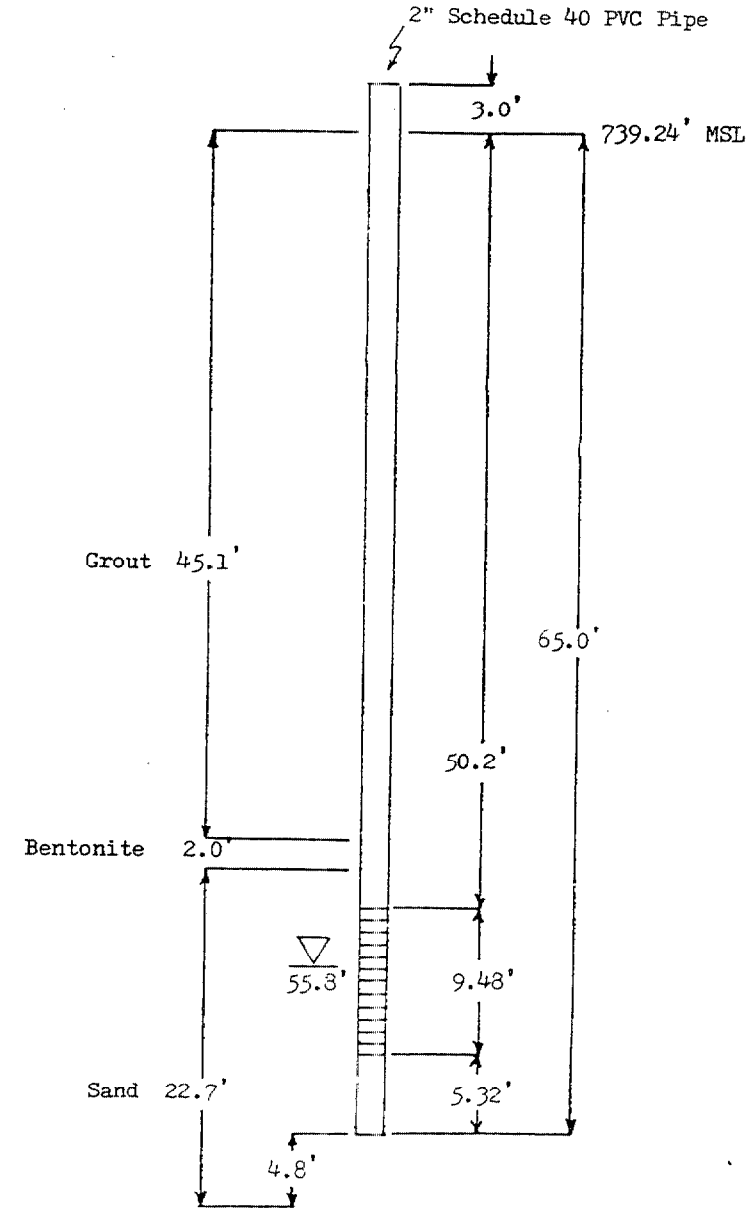
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-5-81

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
											Water level rose overnight to
											55.8 ft. Blew hole of water &
											cuttings. Installed well screen.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-5-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 23 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 736.58 Boring No. WES-2-6-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	23 Sep	0.0		0.0	0.5	0.0	2.2	3" Shelby Tube	0	S.T.	Clay (CL) - brown to grey in color
1A				0.5	1.0	2.2	2.45		0	Jar	dry, little cohesion, material
				1.0	1.5				10		disturbed by dozer.
				1.5	2.0				100		Sample length: 2.45 ft
				2.0	2.5				140		
1B	23 Sep			0.0	5.0	0.0	5.0	7" Folding Auger	--	Jar	Cleanout: Sample for NWSC -
											material same as above
2	23 Sep			5.0	5.5	5.0	6.33	3" Fixed Piston Sam.	0	S.T.	Clay (CL): same as above.
2A				5.5	6.0	6.33	6.55		20	Jar	Sample length: 1.55 ft
				6.0	6.55				550		
2B	23 Sep		9.0	5.0	9.0	5.0	9.0	7" Folding Auger		Jar	Cleanout: Sample for NWSC -
											material same as above

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

IN5 170 023 498

BORING LOG
FIELD DATA

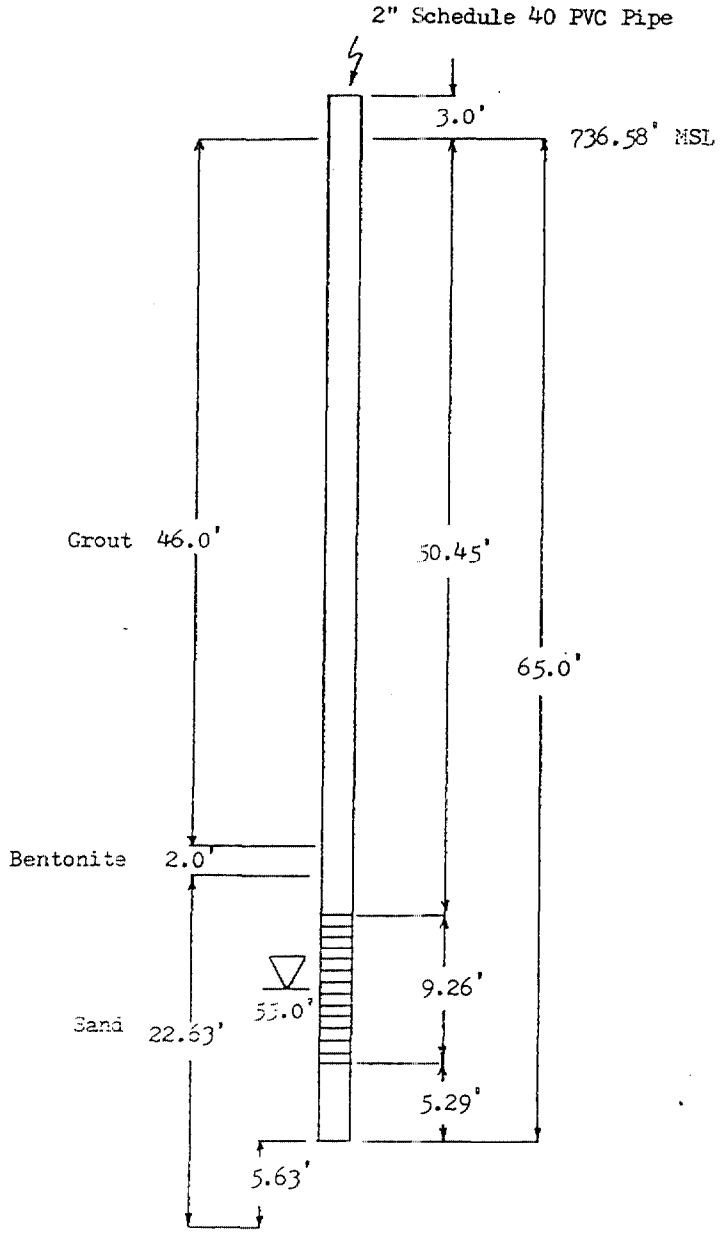
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-6-81

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
	23 Sep	9.0	64.0	9.0	50.0	----------		5-5/8" Rock Bit	----------		Sandstone & interbedded shale:
											weathered, brown & dark grey in
											color, soft spot at 37 ft.
											Monitored hole for water at 50 ft
											for 40 min. & negative results.
	23 Sep	64.0	70.63	50.0	70.63	----------		5-5/8" Rock Bit	----------		Continued drilling & between 55
											& 60 ft encountered water.
											Shale: dark grey

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-6-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 24 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 728.73 Boring No. WES-2-7-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont	CLASSIFICATION AND REMARKS
1	24 Sep	0.0		0.0	0.5	0.0	2.0	3" Shelby Tube	0	S.T.	Sandy silt (SM): brown, dry, hard,
1A				0.5	1.0	2.0	2.15		0	Jar	& contains 5% very fine gravel.
				1.0	1.5				0		Possible dozer fill.
				1.5	2.0				20		Sample length: 2.15 ft
			4.0	2.0	2.5				100		
1B	24 Sep			0.0	5.0	0.0	5.0	7" Folding Auger		Jar	Cleanout: Material same as above.
											Sample for NWSC.
	24 Sep	4.0	9.0	5.0	40.0	------	------	5-5/8" Rock Bit	------	------	Sandstone: brown, weathered
		9.0	51.2								Sandstone & interbedded dark grey
											shale. Sandstone is brown, tan,
											grey & white, hardness varies from
											soft to very hard.
											Slight damp area at 31.3 ft. Drilled
											to 40 ft and monitored hole for
											60 min. with negative results.

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

IN5 170 023 498

BORING LOG
FIELD DATA

Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-7-81

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
	24 Sep	51.2	57.3	40.0	57.3	------	------	5-5/8" Rock Bit	-------		Water at approximately 46 ft.
											Material changes to dark gray
											shale with interbedded sandstone
											at 51.2 ft.
											Blew hole of water & cuttings.
											Installed well.

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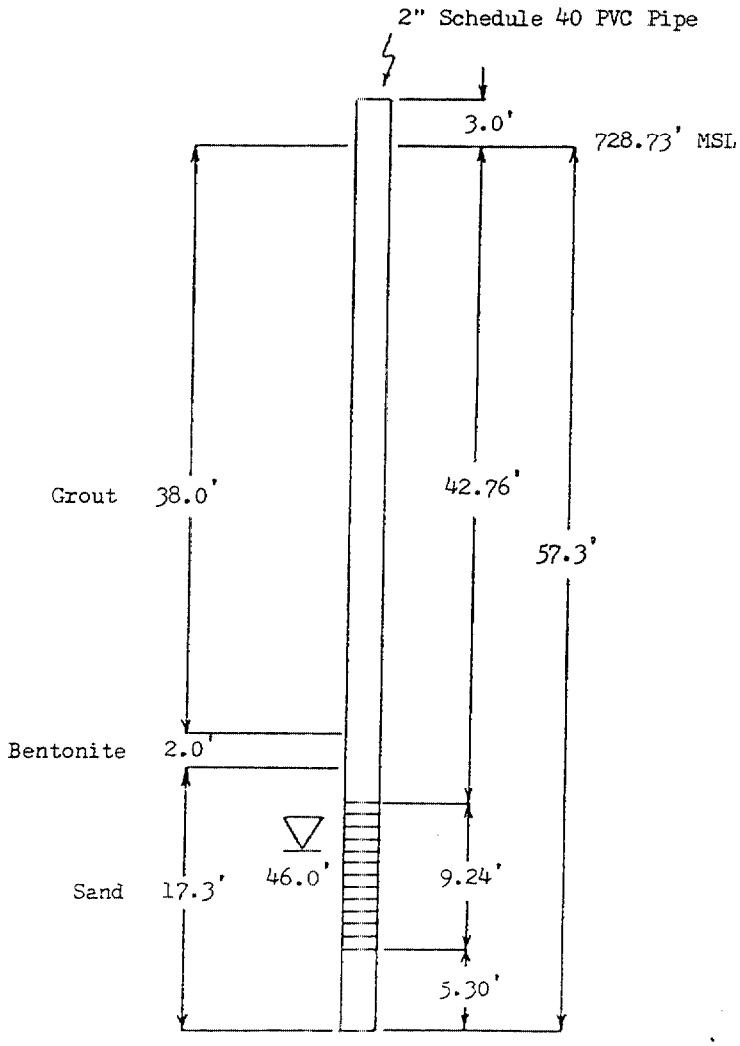
Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-7-81

BORING LOG
FIELD DATA

Project NWSC Groundwater Study Site Crane, IN Date 25 Sep 81
Location Dye Burial Grounds Job No. 441-G150.11GR21/22
Drill Rig Failing Inspector J. Dunbar Operator C. Drake Surface El 730.29 Boring No. WES-2-8-81

SAMPLE NUMBER	DATE TAKEN 1981	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Hyd. Press.	Cont.	CLASSIFICATION AND REMARKS
1	25 Sep	0.0		0.0	0.5	0.0	2.25	3" Shelby Tube	0	S.T.	Silty clay (CL): light brown-brown
1A				0.5	1.0	2.25	2.45		0	Jar	in color, dry, moderate cohesion,
				1.0	1.5				0		uniform, slightly stiff.
				1.5	2.0				40		Sample length: 2.45 ft
				2.0	2.5				60		
1B	25 Sep			0.0	5.0	0.0	5.0	7" Folding Auger		Jar	Cleanout: Sample for NWSC -
											material same as above.
2	25 Sep			5.0	5.5	5.0	6.69	3" Fixed Piston Sam.	0	S.T.	Silty clay (CL): lt. brown to
2A				5.5	6.0	6.69	6.84		10	Jar	brown, dry, stiff, moderate co-
				6.0	6.5				180		hesion, uniform.
				6.5	6.84				800		Sample length: 1.84 ft
1B	25 Sep		6.84	5.0	6.84	5.0	6.84	7" Folding Auger		Jar	Cleanout: sample for NWSC -
											material same as above

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 1 of 2 Sheets

IN5 170 023 498

BORING LOG
FIELD DATA

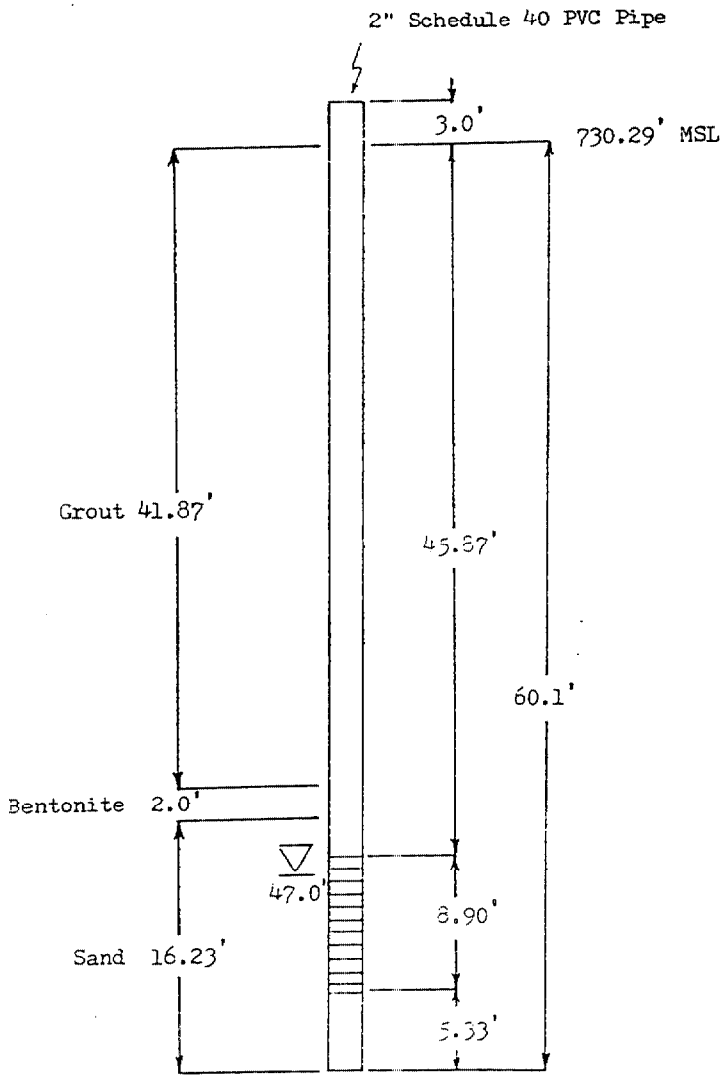
Project _____ Site _____ Date _____
Location _____ Job No. _____
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. WES-2-8-81

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
	25 Sep	6.84	58.0	6.84	40.0	----	----	5-5/8" Rock Bit	----	----	Sandstone & interbedded dark grey shale: sandstone varies from white, grey, brown to reddish brown. From 30 to 35.7 ft soft and slightly damp. Monitored for water at 40 ft for 40 min. & negative results.
	25 Sep	58.0	60.1	40.0	60.1	----	----	5-5/8" Rock Bit	----	----	Shale: dark grey

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet 2 of 2 Sheets

IN5 170 023 498



Water depth at time of drilling

Well screen

NWSC, Crane, Indiana
Dye Burial Grounds
Well Completion
Boring Number: WES-2-8-81

Appendix B
Copy of Cover Letter, EPA Permit for NSWC Crane

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

Name of Permittee: Owner: United States Department of Navy
Operator: United States Department of Navy

Facility Location: Street Address: (None)
City, State: Crane, Indiana

EPA Identification Number: IN5 170 023 498

Issuance Date:

Authorized Activities:

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, (42 U.S.C. §6901, et seq.), and regulations promulgated thereunder by the United States Environmental Protection Agency (U.S. EPA) (codified in Title 40 of the Code of Federal Regulations (CFR)), Federal permit conditions (hereinafter called the permit) of the RCRA permit are issued to United States Department of Navy (USN) (hereinafter called the Permittee), for the facility Naval Weapons Support Center (NWSC) located at Crane, Indiana.

The RCRA permit contains both the effective Federal permit conditions (contained herein) and the effective State permit conditions issued by the State of Indiana's RCRA program authorized under 40 CFR Part 271 (hereinafter called the State permit). When both this permit and the State permit are effective, the Permittee has an effective RCRA permit which authorizes the Permittee to conduct hazardous waste management activities as specified in the RCRA permit.

Permit Approval:

On January 31, 1986, the State of Indiana received final authorization pursuant to Section 3006 of RCRA, 42 U.S.C. §6926, and 40 CFR Part 271, to administer the pre-HSWA RCRA hazardous waste program. Since the State of Indiana has not yet received authorization to administer the entire hazardous waste program requirements of HSWA, additional permit conditions must be issued by the U.S. EPA to address these new requirements. These additional conditions are contained in this permit.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in 40 CFR Parts 260, 261, 262, 264, 266, 268, 270, and 124, and applicable provisions of HSWA.

This permit is based on the assumption that the information submitted in the

permit application attached to the Permittee's letter, dated October 12, 1984, and in any subsequent amendments (hereinafter referred to as the application), and in the certification regarding potential releases from solid waste management units, dated June 13, 1985, is accurate. Any inaccuracies found in this information may be grounds for the termination, revocation and reissuance, or modification of this permit (see 40 CFR §270.41, §270.42 and §270.43) and potential enforcement action. The Permittee must inform U.S. EPA of any deviation from or changes in the information in the submitted information.

Effective Date:

The RCRA permit is effective when both this permit and the State permit are effective. This permit is effective as of thirty days after service of notice, unless a review is requested under 40 CFR §124.19 (unless no comments requested a change in the draft permit in which case the permit shall become effective immediately upon issuance), and shall remain in effect for 5 years, unless revoked and reissued, or terminated (40 CFR §270.41, §270.42, and §270.43), or continued in accordance with 40 CFR §270.51.

Issued this _____ day of _____,

by _____.

Basil G. Constantelos, Director
Waste Management Division

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY ***(Leave blank)***

2. REPORT DATE
July 1998

3. REPORT TYPE AND DATES COVERED
Final report

4. TITLE AND SUBTITLE
Final Report: RCRA Facility Investigation, Phase III Groundwater Release Characterization, SWMU 02/11 Dye Burial Grounds, Naval Surface Warfare Center Crane, Indiana, Volume I: Main Text and Appendixes A and B; Volume II: Appendixes C through H

5.FUNDING NUMBERS

6. AUTHOR(S)
William L. Murphy, Roy Wade

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Army Engineer Waterways Experiment Station
3909 Halls Ferry Road, Vicksburg, MS 39180-6199

8. PERFORMING ORGANIZATION REPORT NUMBER
Technical Report GL-98-15

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
Department of the Navy, Southern Division
Naval Facilities Engineering Command
Charleston, SC 29411-0068

10. SPONSORING/MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT
Further dissemination of this document only as directed by Department of the Navy, Southern Division, Naval Facilities Engineering Command, Charleston, SC 29411-0068; July 1998; or higher DoD authority.

12b. DISTRIBUTION CODE

13. ABSTRACT ***(Maximum 200 words)***

This report documents the RCRA Facility Investigation (RFI), Phase III Release Characterization for Groundwater, Solid Waste Management Unit (SWMU) 02/11 dye Burial Grounds, Naval Surface Warfare Center (NSWC Crane), Indiana. The RFI was conducted in the period January 1987 to September 1993. The purpose of the RFI was to determine the presence or absence, the nature, the rate and extent of migration, and the concentrations of hazardous constituents that may have been released into the groundwater from activities at the Dye Burial Grounds. The NSWC Crane provides material, technical, and logistic support to the Navy for equipment, weapons systems, and ordnance. NSWC Crane is located in southwest Indiana approximately 75 miles southwest of Indianapolis. The Dye Burial Grounds is located in the eastern portion of the NSWC Crane, adjacent to the Ammunition Burning Ground. Buried dyes and dye contaminated material are contained in three trenches.

Monitoring of the groundwater for chemical constituents began in November 1981 with the installation of monitoring wells at the sites. Eight wells were installed between 1981 and 1983 and an additional 37 wells beginning in 1987.

(Continued)

14. SUBJECT TERMS

Explosives contamination	Groundwater contamination	Military contaminants
Geology in Indiana	Groundwater monitoring	Naval surface warfare Center crane
Groundwater	Heavy metals	

15. NUMBER OF PAGES
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UNCLASSIFIED	UNCLASSIFIED		

13. (Concluded).

Subsurface geological information extracted from logs of the core and other boring samples was used to develop the hydrogeology of the site. Monitoring wells were set at depths of 19 to 189 ft. Wells were sampled for most Appendix IX constituents and explosives.

Several aquifers were monitored in the Dye Burial Grounds study area. The uppermost aquifers were in the Pennsylvanian series and consisted of two sandstones, designated as upper and lower. Deeper aquifers were of Mississippian age. Groundwater flow in all of the aquifers is generally to the south and southwest toward the valley of Little Sulphur Creek. Surface flow off of the site is to the southwest. Groundwater quality sampling was conducted for volatile and semivolatile organics, pesticides, explosives (TCL organics), and inorganic constituents including TAL metals, cyanide/sulfide, and nitrite/nitrate. Only inorganic compounds, particularly metals, were present in significant and verifiable amounts in wells at the Dye Burial Grounds. Organic compounds indicative of dyes were not detected. Metals occurred most frequently and at higher levels in the lower Pennsylvanian sandstone. Significant primary Maximum Contaminant Level (MCL) metals occurring in the lower Pennsylvanian sandstone were nickel, beryllium, cadmium, lead, and manganese. Nickel was consistently above MCL. The deepest aquifer was not contaminated.

The presence of metals in the groundwater of Dye Burial Grounds monitoring wells cannot be linked with certainty to materials buried there. Naturally high acidity in the Pennsylvanian sandstone may enhance the presence of some metals.

Technical Report GL-98-15
July 1998

US Army Corps of Engineers
Waterways Experiment Station

Final Report: RCRA Facility Investigation, Phase III Groundwater Release Characterization, SWMU 02/11 Dye Burial Grounds, Naval Surface Warfare Center Crane, Indiana

Volume II: Appendixes C through H

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Prepared for Department of the Navy, Southern Division

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U.S. Army Corps of Engineers
Waterways Experiment Station
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Final report

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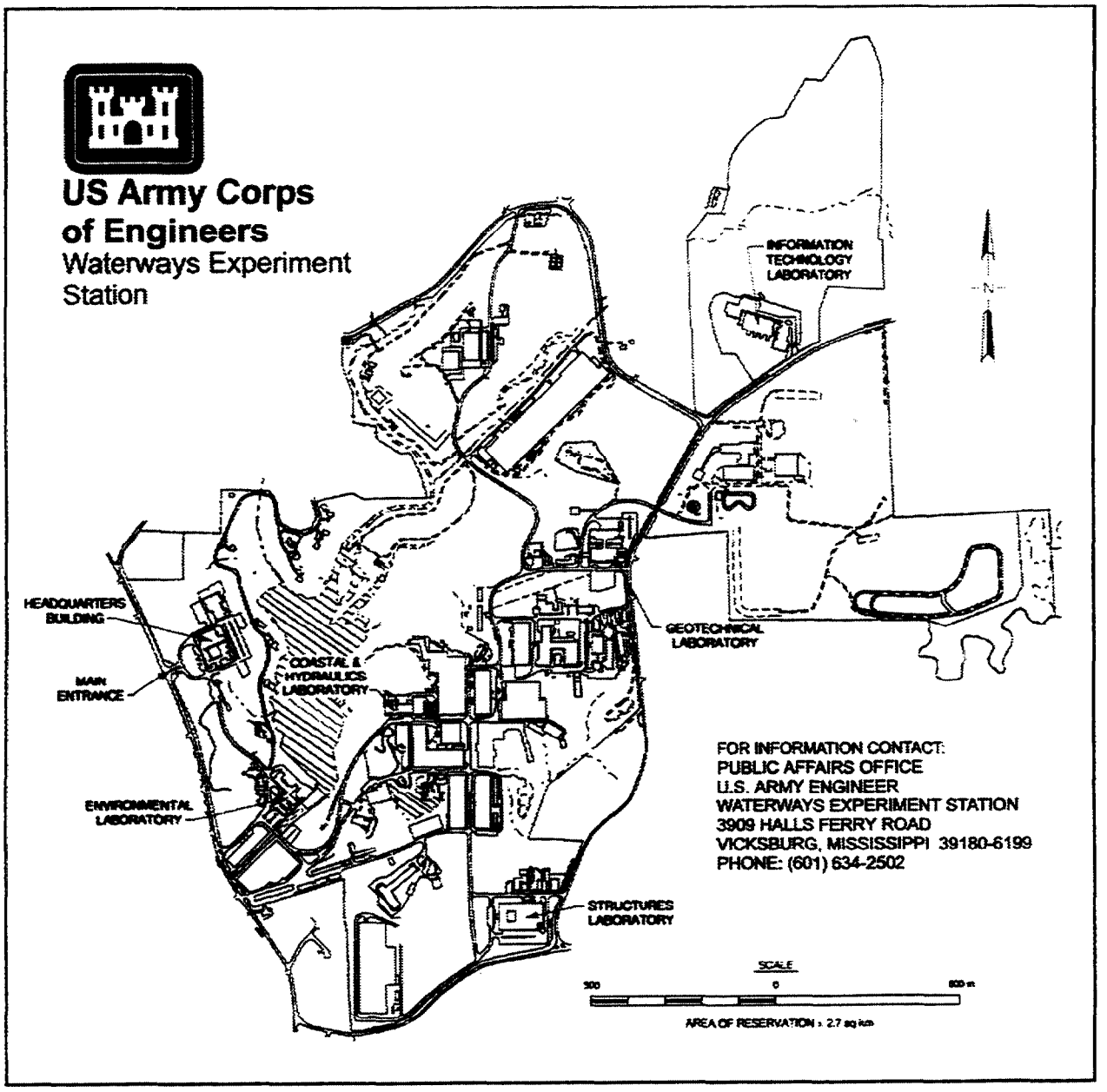
Prepared for Department of the Navy, Southern Division
Naval Facilities Engineering Command
Charleston, SC 29411-0068



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Appendix C
Logs and Well Installation Diagrams of RFI Borings

Hole No. WES-2-9C-88

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane Ind.	SHEET 1 OF 18 SHEETS

1. PROJECT: Hydrogeologic Studies
2. LOCATION (Coordinates or Station): Dye Burial Ground
3. DRILLING AGENCY: WES
4. HOLE NO. (As shown on drawing title and file number): WES-2-9C-88
5. NAME OF DRILLER: Black, Harried + Dan taylor
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 5.0
8. DEPTH DRILLED INTO ROCK:
9. TOTAL DEPTH OF HOLE: 178.0'
10. SIZE AND TYPE OF BIT: HQ wireline Core
11. DATUM FOR ELEVATION SHOWN (TBM or MSL):
12. MANUFACTURER'S DESIGNATION OF DRILL: Failing 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER:
16. DATE HOLE: STARTED 12/9/87 COMPLETED 1/23/88
17. ELEVATION TOP OF HOLE: 737.83
18. TOTAL CORE RECOVERY FOR BORING: 740.36 T.O.C. %
19. SIGNATURE OF ~~INSPECTOR~~ Geologist: Richard W. Hunt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Clayey silt, sandy, Br - yBr, moist in top 1½', firm Note Site of boring is a former timber log loading area. Upper materials appear to be partially fill.			Drilled w/a 8" dia. flight auger from 0.0 to 10.8'. Set 6" dia. PVC Surface Casing to 10.8'. Cleaned hole to 11.2' w/ 5½" dia R.R. Bit. Started Coring w/ HQ wireline at 11.2 ft.
	1					
	2					
	3					
	4					
	5		Silty Shale, m olive Gr + tan, th bd, w/ sdy pts + lens, flakey, mod hard			
	6					
	7					
	8					
	9					
	10					

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Hole No. WES-2-TC-22

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Silty shale (cont)			
	11			11.2		
				Run 1		
	12					
	13					
	14					
				6.9 / 6.9		
	15					
	16					
	17					
	18			18.1		
				Run 2		
	19					
				5.3 / 5.3		
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-C08

Hole No. WES-2-76-66

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		Silty shale, (cont.) grades to mGr below ~ 20 ft.			
	21					
	22					
	23			23.4		
				Run 3		
	24					
			Siltstone, mGr, th bd,			
	25					
	26					
	27					
				9.8 / 10.0		
	28		- soft clayey	>0.2		
			Shale, Blk-vdGr, th bd-mass, carbonaceous, indurated, platey			
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C09

Hole No. W45-C-71-CC

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		Shale (cont.)			
	31					
	32					Note: oil formed on water in mud pan while drilling in this shale unit.
	33			33.2 / 33.4	Pull	
				Run 4		
	34					
	35					
	36					
	37			10.2 / 10.0		
	38			+0.2		
	39					
	40					

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HOLE NO. WES-2-92 C3

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Shale (cont.)			
	41					
	42					
	43			43.4		
				Run 5		
	44					
	45					
	46					
	47			9.7 / 10.0		
	48			~~0.3~~ 0.0		
	49					
	50					

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PROJECT | HOLE NO. 02C09

Hole No. WEST 2-TC-02

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Shale (cont.)			
	51					
	52					
	53			53.1		Full depth
				53.4		
				Run 6		
	54					
	55					
	56			10.2		
				10.0		
	57			+0.2		
				+0.3		
	58					
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02

Hole No. WES-L-R-[illegible]

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Shale (cont.) grades to dGr + becomes silty toward bot.			
	61					
	62		alternating fine Gr sandstone lens + pts.			
	63			63.3 / 63.4		Full depth
				R447		
	64					
	65		Conglomeritic shaley sandstone, m-dGr carbonaceous			
	66		silty-sandy shale w/occ ss lens, th bd, hd, dGr			
	67			10.1 / 10.0 / tot		
	68		Base of Penn sediments 68.4 ft.			
			Top of miss. sediments (Hardinsburg fm)			unconformity
	69		Shale, dGn, mas, hd, blocky, occ claystone inclus.			
	70					

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Hole No. W[illegible]-C-7C-[illegible]

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Shale (cont.)			
	71					
	72					
	73			73.4 Run 8		
	74					
	75		Shale (grades from clove) v dkGr, thin bd, carbonaceous, occ dk olive siltstone/claystone nodules, indurated, platey-blocky.			
	76			5.2 / 5.2		
	77					
	78			78.6 Run 9		
	79					
	80					

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Hole No. WE-5-C-7C-00

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont.)			
	81			4.8/4.8		
	82					
	83			83.4		
				Run 10		
	84					
	85					
	86			9.9/10.0		
	87			-0.1		
	88					
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C09

HOLE NO. WC-C-P-00

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Shale (cont.)			
	91					
	92					
	93		(93.6')	93.4		
			(Base of Hardinsburg fm)	R4n 11		
			(Top of Golconda / Haney fm)			
	94		Limestone, dGr-grBr, m-c granular, vbd, v dense, fossiliferous, shaley pts in top zone			
	95					
	96					
			(Base of Golconda / Haney)			96.5' (641.33)
			(Top of Big Clifty fm) (Indian Springs Mem.)			
	97		Shale, vdGr-Blk, th bd, carbonaceous, intercalated, platey	9.0 / 10.0		
	98					
	99					oil film on mud pan from this shale zone
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO. 02C02

HOLE NO. [illegible]

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Shale (cont.)			
	101					
	102					
	103					
				103.4		
				Run 12		
	104					
				2.7 / 2.7		Reamed hole + set 4" PVC casing to 105.0'
	105					
	106			106.1		
				Run 13		
						Jan 21, 1988 Started backcoring
	107					
	108					
				6.9 / 7.0		
	109					
				~~70~~		
	110					

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PROJECT

HOLE NO. 02C09

Hole No. WES-2-9C-86

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		Shale (cont.)			
	111					
	112					
	113		- Ls lens	113.0 / 113.1 Run 14		Pull depth
	114					
	115					
	116					
	117		olive Gr + mass in bot. 2.0'	9.7 / 9.6		
	118			+0.1		
			(Base of Indian Springs Mem.)			
	119		(Top of Big Cliff Ty 35 - 118.7) Sandstone, olive Gr-Tan, th bd - mass v fine grained oxidized, friable, shallow ripples, shale cts in Top 4.0'			
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C09

ASSIGN NO. WES-2-76-28

DRILLING LOG	DIVISION	INSTALLATION	SHEET 13 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		SS (cont.)			
	121					
	122					
				122.7 / Run 15		
	123					
	124					
	125					
	126			10.0 / 10.0		
	127					
	128					
	129					
	130					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT [redacted] HOLE NO. 02 C09

Hole No. WES-2-4C-02

DRILLING LOG	DIVISION	INSTALLATION	SHEET 14 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130		SS (cont.)			
	131					
	132					
				132.7		
				Run 16		
	133					
	134					
	135					
	136			14.0 / 10.0		
	137					
	138					
	139					
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO. 02C09

Hole No. WES-2-9C-86

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		SS (cont.)			
	141					
	142					
				142.7 / Run 17		
	143					
	144					
	145					
	146			10.1 / 10.1		
	147					
	148					
	149					
	150					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C09

Hole No. WES-2-4C-66

DRILLING LOG	DIVISION	INSTALLATION	SHEET 16 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	150		SS (cont.)			
	151					
	152			152.8 / Run 18		
	153		Highly oxidized in bot 5-6'.			
	154					
	155					Note: did not lose drill water
	156			10.1 / 10.1		
	157		Conglomeritic in bot 0.1'. (Base of Big Clifty ss) (Top of Beech Creek Fm-157.4)			
	158		Limestone, 1-m grBr, m crystalline, fossiliferous, v hd, v chem, occ Stylolites.			
	159		oxidized in top zone and along jts.			
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. OR 09

Hole No. WES-2-9C-25

DRILLING LOG	DIVISION	INSTALLATION	SHEET 17 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160		LS (cont.)			
	161					
	162					
	163			162.9 / Run 19		
	164					
	165					
	166			10.1 / 10.1		
	167					
	168					
	169					
	170					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C09

Hole No. WES-27C-68

DRILLING LOG	DIVISION	INSTALLATION	SHEET 18 OF 18 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-9C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	170		Ls (cont.)			
	171					
	172					
	173			173.0 Run 20		
	174					
	175			5.0 / 5.0		
	176					
	177		(Base of Beech Creek-177.0') (Top of Flemen fm) Shale dGn, mass, Blocky			
	178			178.0		
			Bot depth - 178.0'			
	180					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C09

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-90-88 (Beech Creek Ls)			Date well screen was set: 1/23/87
			+2.5			
737.83			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen – 156.6'
			115.0			
			Bentonite Pellets			
			118.0			
			Filter Pack			Teflon Pipe – 152.0 to 178.0'
			167.0			
			Well Screen			
			177.0			
			Trap			
			178.0			
			178.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) | PROJECT | HOLE NO.

Hole No. WES-2-9CP2-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-9CP2-88 (Galeandi/Henry/Ks)			Date well screen was set: 1/26/87
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			82.0			
			Bentonite Pellets			
			85.0			
			Filter Pack			Teflon pipe – 86.5 to 97.5'
			91.5			
			Well Screen			
			96.5			
			Trap			
			97.5			
			97.5 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-10C-88

DRILLING LOG	DIVISION: US Navy	INSTALLATION: Naval Radio Inc.	SHEET 1 OF 16 SHEETS
1. PROJECT: Hydrogeologic Studies		10. SIZE AND TYPE OF BIT: HQ wireline core	
2. LOCATION (Coordinates or Station): Dno Bura' Simands (NEG)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY: WES		12. MANUFACTURER'S DESIGNATION OF DRILL: Failing 1500	
4. HOLE NO. (As shown on drawing title and file number): 2-10C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	
5. NAME OF DRILLER: Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE: STARTED 2/5/88	COMPLETED 2/13/88
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE: 153.5		19. SIGNATURE OF INSPECTOR: Richard W. Hunt	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay, y Tan + olive, firm in top to soft + wet in bot. (Road construction fill)			Drilled w/ 7" flight auger from 0.0 to 17.8'
	1					
	2					
	3					
	4					
	5					
	6					
	7		Silty clay, yel tan w/ sandy lens, soft + saturated in top 2 ft, v moist to wet below upper 2 ft. (Residual soil)			
	8					
	9					
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT: [redacted] HOLE NO. 02-C-10-[redacted]

Hole No. WES-2-10C-99

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Silty clay (cont.)			
	11					
	12					
	13					
	14					
	15					
	16					
	17					Grouted in 6" dia. PVC casing to a depth of 17.8'
			Top Rock	17.8		Refusal to auger
	18		Conglomerate, sub-rounded to rounded SS + Sh pebbles set in SS matrix, 1-m Gr, occ. carbaceous inclus, hd, friable.	Run 1		Started Coring with HQ wireline rigging.
	19					
			Sandstone, 1Gr w/num Blk shale wavy partings + thin lenses			
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C10

Hole No. WES-2-10C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		fine grained, hd slightly to non-friable			
	21					
				4.7/4.7		
	22					
	23					
				23.5 Run 2		
	24					
	25					
	26					
				9.2/9.2		
	27					
	28					
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C10

HOLE NO. WES-2-10-00

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS, (Cont)			
	31					
	32			32.7		
				Run 3		
	33					
	34					
	35					
	36			6.2/9.9		
	37		Shale, vdGr th bd, num lGr ss pts			Penn Sediments
				3.7		37.3'
			(Hardinsburg fm) Shale, dGn, mass, blocky-crumbly, hd occ s'side			miss Sediments
	38					Core loss was due to sample dropping from bl + being ground away.
	39					
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C10

DRILLING LOG

DIVISION	
INSTALLATION	SHEET 5 OF 16 SHEETS
1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Shale (cont.)			
	41					
	42		(th bd, d Gn Gr in part)			
				42.6		
				Run 4		
	43					
	44					
				3.0 / 4.4		
	45		45.0 - ~49.0' d br Red claystone / Shale mottled into d Gn Shale.	-1.4		
	46					
	47			47.0		
				Run 5		
	48					
	49		Shale vdGr-Blk, th bd, platey-fissile, hd			
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT [redacted] HOLE NO. 02C10

Hole No. WES-2-10C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50					
	51			5.8 / 6.5		
	52			0.7		
	53			53.5		
				Run 6		2/10/88
	54					
	55					
	56					
	57			9.8 / 10.0		
	58		olive + sli. oxidized in bot ft	0.2		
			Base of Hardinsburg - 58.2			
			Top of Golconda/Haney Limestone, mgrBr, m-c crystalline, sli. fossiliferous, v hard, v dense, occ stylolite.			
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C10

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 16 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Ls (cont.)			
		0				
	61					
	62					
		5				
	63					
				63.5		
				Run 7		
	64		shale, Blk, th bd,			
	65					
			Ls (as above)			
	66		shale (as above)			
		20	Ls (as above			
				8.0		
	67			10.0		
	68					
				1.7		
		0				
	67					Ls shows oxidation
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C10

Hole No. 2WCS-2-10-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Ls (cont)			
	8.5		Fe stained open jt			
	71					
			Base of Gokonda / Honey			
			Top of Indian sprs. - 71.5 (Big clifty fm)			
	72		Shale, vdGr-Blk th bd, platy-flakey, hard, occ fossils, occ s'sides.			ground core away between 71.5 + 73.1
	73			73.2		Full depth
				73.5		
				Run 2		
	74					
				3.5 / 3.2		
	75					
				78.3'		
	76					
				76.7		Reamed hole to set 4" PVC casing to 76.7'
				Run 9		
	77					2/12/88
	78					
	79			5.2 / 6.8		
				1.6		
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C10

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont.)			
	81					
	82					
	83			83.5		
				Run 10		
	84					
	85					
	86					
				8.3		
	87			8.5		
	88			-0.2		
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C10

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 16 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) 2-10C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Shale (cont.)			
	91					
	92			92.0 Run 11		
	93					
	94		Shale turns to olive gray + sli oxidized in bot 2'.			
			Base of Indian Spgs			
	95		Top of Big Clifty SS - 94.8'			
			Sandstone, 1-m olive tan, th bd-mass, olive Gr shale pts in top few feet, v fine grained shallow ripples, friable.	6.8/7.2		
	96			-0.4 -0.2		
	97					
	98					
	99			99.0 99.2 Run 12		Full depth
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02-10

HOLE NO. WCJ-2-10C-B5

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		SS, (Cont)			
	101			4.5/4.3		
	102			102		
	103			103.5		
				Run 13		
	104					
	105					
	106					
	107			9.8/10.0		
	108			102		
	109					
	110					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C10

note no. WES-E-10C-8

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 16 SHEETS

1. PROJECT
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number): 2-10C
5. NAME OF DRILLER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE: STARTED | COMPLETED
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		SS (cont.)			
	111					
	112					
	113			113.3		Full depth
				113.5		
				Run 14		
	114					
	115					
	116					
				10.2		
	117			10.0		
				10.2		
	118					
	119					
	120					

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PROJECT | HOLE NO. 02C10

DRILLING LOG	DIVISION	INSTALLATION	SHEET 13 OF 16 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		SS (cont.)			
	121					
	122					
	123					
		0		123.5 / Run 15		
	124					2/13/98
		10				
	125					
	126					
		0		10.0 / 10.0		
	127					
		0				
	128					
	127	0				
	130					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT

HOLE NO. 02C10

ROCK No. WLS-2 TOC-55

DRILLING LOG	DIVISION	INSTALLATION	SHEET 14 OF 16 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	Z-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE		15. ELEVATION GROUND WATER	
☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130	10				
	131					
	132	0				
		30	Tan clay + lim clay coated st, evidence			Base of Big cliffy fm — 132.4
			(Top of Beech Creek)			
	133		Limestone, mgr Br, m-c crystalline, v hd, v den, occ stylolites, fossiliferous			
		0		133.5		
				Run 16		
	134	10				
	135	5	lim + clay coating			
	136	5	stn			
	137			10.0 / 10.0		
	138	5	Y. cliffy (tan) stn			
	139					
		5	clay (tan) coating			
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02-C-10

Hole No. WES-2-10C-60

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		Ls (cont.)			
	141					
		0	clay coating			
	142	0	clay coating			
		0	" "			
	143		Ls changes to dGr below ~142.0' w/occ to num wavely Blk shaley pts.	143.5 / Run 17		
	144	5				
	145	0 / 5	stn			
	146	0		9.4 / 10.0		
	147	10				
	148	0				
	149	0				
	150	50	Rough + irregular No stn Dojo noted w/calcite			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02-C10

Hole No. WES-2-10C-K9

DRILLING LOG	DIVISION	INSTALLATION	SHEET 16 OF 16 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-10C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	150		LS (cont.)			
	151					
	152		(inclus of Elwren sh in bot 0.2')			
			Base Beech Creek LS 152.5'			
			Top Elwren fm			
	153		shale, dGn, mass	152.9		Refusal depth core left in boring
				153.5		
			Bot Depth - 153.5'			
	154					
	155					
	156					
	157					
	158					
	159					
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C10

Hole No. WES-2-10C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-10C-88			Date well screen was set: 2/13/88
			+2.5'			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			90.0			
			Bentonite Pellets			
			94.0			
			Filter Pack			
			142.0			
			Well Screen			
			152.0			
			Trap			
			153.0			
			153.5 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-10CP2-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-10C P2-88			Date well screen was set: 2/16/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			52.0			
			Bentonite Pellets			
			55.0			
			Filter Pack			
			61.5			
			Well Screen			
			71.5			
			Trap			
			72.5			
			72.5 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-11C-88

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane Ind	SHEET 1 OF 17 SHEETS
1. PROJECT Hydrogeologic Studies, ABG		10. SIZE AND TYPE OF BIT HQ wire line	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY WES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) 2-11C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	
5. NAME OF DRILLER Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE: STARTED 2/19/88 COMPLETED 2/25/88	
7. THICKNESS OF OVERBURDEN 9.5		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 16'10"		19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard W. Hurst	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty Clay, yellow, sdy, soft in top to firm w/depth			0.0 to 9.5 - Auger
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
			Top Wea 5.5 - 9.5'	9.5		
	10					9.5 - 11.3 - R.R.B.t.

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02-[redacted]

Hole No. WES-2-11C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Sandstone, y-rusty tan, th bd, fine, occ thin gr wavy sh lens + pts (spaced ½" to 8" apart), highly oxidized to ~ 35.5'			
	11			11.3		
				Run 1		2/20/88 Started Coring w/ HQ wireline at 11.3'
	12					
	13					
	14		numerous breaks or jts(?) along bedding			
	15					
	16			6.3 / 10.0		
	17					
	18			3.7 / 3.6		
	19					
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C-11

Hole No. WES-2-11C-86

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		Sandstone (cont.)			
	21			21.3 / Run 2		21.2 Pull depth
	22					
	23					
	24					
	25					
	26			10.1 / 10.0		
	27			40.1		
	28					
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-11

Hole No. WES-2-11C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS (cont.			
	31			31.3 / Run 3		
	32					
	33					
	34					
	35			10.0 / 10.0		
	36		SS changes to m Gr (35.5 to 41.3')			
	37					
			oxidized, g Br			
	38		Increase in sh lens below 37.7' (spaced 1/8" to 1/4" or thinly laminated) becomes more shaley w/depth			
	39					
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. WFS-2-11C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		SS (Cont.)			
	41		Base Penn sediments	41.3		unconformity - 41.3'
			Top Miss Sediments (Hardinsburg fm)	Run 4		
	42		shale, m-d Gn, mass, crumbly, w/ zones of dr-Br mottled claystone			
	43					
	44			7.0		
	45					
	46					
	47					Reamed Hole + set 6" dia PVC, Casing to 45.0'
	48			48.0' Run 5		2/23/88
	49					
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-11C

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Shale (Cont.)			
	51			7.8/4.7 -1.9		Core dropped in hole + Ground away on next Run. (Core loss)
	52					
	53			53.0 Run 6		
	54		Sh, changes to dGr, th bd, flaky, hd.			
	55					
	56			7.7/9.3		
	57			+.6 -1.4		(Core loss) - ground away
	58					
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02-11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		sh (cont)			
	61					
	62		Color change: to olive gr in bot 2.0'	62.1 / 62.3		Pull depth
				Run 7		
			(Base Hardinsburg fm- 62.9')			
	63		(Top Golconda/Haney) Limestone, mgr-Br, m-c crystalline, vhd, v dem.			
	64					
			Ls is th bd, w/alter. olive sh. lens			
	65					
	66			10.4 / 10.2		
			Ls (crystalline, as above), fossiliferous			Lost all water return at 67.3'
	67		clay lens	+0.2		
	68					
			Jts show solutioning + staining			
	69					
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C U

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 17 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		LS (cont.)			
	71					
	72			72.5 Run 8		- Flange
	73		oxidized along jt.			
	74			2.7 / 2.9 -0.2		
	75		Solutioned + stn along jts.	75.4 Run 9		short pull due to running out of drill water.
	76		shaley LS, highly wea + clayey, olive tan			2/24/88
	77		Solutioning + clayey tan stn along jts.	4.3 / 4.4		
	79		not oxidized in lower 2' of LS.	-0.1		
	79		Base Colonda / Honey	79.8		Blocked
	80		Top Big Plitty Fm	Run 10		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		(Indian Springs Mbr) Shale, blk, th bd, flakey, num carbonaceous specks + flakes along bd. mod hd, occ pyrite nodules.			2/25/88 (had to do some repairs on rig)
	81					
	82			2.3 / 5.2		(Core loss) ground away
	83					
	84					Reamed hole + set 4" dia PVC casing (through the upper 6" casing) to a depth of 85.0'.
	85			85.0 Run 11		
	86					2/27/88
	87			7.3 / 7.8		
	88			-0.5		
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Shale (Cont.)			
	91					
	92					
	93			92.8 / Run 12		
	94					
	95					
	96			9.5 / 10.0		
	97		ls, mGr, Coarse granular v hd, v dev	~~0.5~~		
	98		Shale, olive Gn, mass, Crumbly, compaed siltstone with lens in bot.	-0.4		
	99		Base Indian Spr. Mem. Top Big Cliffy SS			99.7'

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Sandstone, shaley, m Gr Gn, th bd w/shaley pts. hd, platy.			
	101					
	102					
			Sandstone, olive tan, th bd, v fine, rippled, oxidized, friable.	102.7 / 102.8 Run 13		Pull depth
	103					
	104					
	105					
	106			10.0 / 10.0		
	107					
	108					
	109					
	110					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		SS (cont.)			
						Losing ~ 25% water return
	111					
	112					
				112.7 / 112.8		Pull depth
	113			Run 14		
			(Not Sounded)			
	114					
	115					
				10.1 / 10.0		
	116					
				+0.1		
	117					
	118					
	119					
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 13 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		SS (cont)			
	121					
	122					
		10				
		5		122.8		
	123			Run 15		
		0	heaved			
		0				
	124					
	125					
	126					
		5				
		5		9.7		
		170		10.0		
	127	5				
				-0.3		Lost all water return at ~ 127.0'
				-0.1		
	128					
		20	slim			
	129	60	heaved			
		15				
	130					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11[redacted]

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 14 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130		SS (cont.)			
	131	S	stn			
	132					
				132.6 / 132.8		Pull depth
	133			Run 16		
		O S				
	134	O O		3.3 / 3.2		
		O		Pull		
	135					
		O				135.9 - Pull depth
	136	O S		136.0		Ran out of drill water
				Run 17		2/29/88
	137	stn O	(Base Bic Cliff Fm - 137.4')			
			(Top Beech Creek Fm)			
	138	O	Limestone, m gr Br, mass, m crystalline, fossiliferous, v hd, v den, occ stylolites.	6.9 / 6.8		
	139			Pull		
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		LS (cont)			
		70				
		5	open, stn w/lim			
	141	90				
		0				
	142					
				142.8		
	143			Run 18		
		0	- Tan clay seam			
	144	0				
		5	stn			
		0	stn			
	145					
	146					
				9.9 / 10.0		
	147					
		5	stn			
				-0.1		
	148	0	stn (base of oxidation 148.0)			
		0				
		2	stn			
	149	0	LS, (as above) but ok Gr, finely crystalline, occ shaley lts.			
	150					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11

Hole No. 2-11C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 16 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	150		Ls (cont)			
	151		clay in st			
	152					
				152.8		
	153			Run 19		
	154					
			sh			
	155					
	156			7.5 / 8.2		
	157			100		
	158		Base Beech Creek Ls. Top Elwes. Sh - 158.0' Shale, dGn, massive hard.			
	159					
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C11

Hole No. LB-2-11C -00

DRILLING LOG	DIVISION	INSTALLATION	SHEET 17 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-11C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160			160.3		Full depth
	161		Bot. Depth- 161.0'			
	162					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11

Hole No. WES-2-11C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-11C-88			Date well screen was set: 2/29/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			95.0			
			Bentonite Pellets			
			100.0			
			Filter Pack			PVC Screen + Riser
			148.0			
			Well Screen			
			158.0			
			Trap			
			159.0			
			161.1 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSPARENCY) PROJECT HOLE NO.

Hole No. WES-2-11C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-11CPZ-88			Date well screen was set: 3/2/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			58.0			
			Bentonite Pellets			
			63.0			
						PVC Screen + Riser
			Filter Pack			
			69.8			
			Well Screen			
			79.8			
			Trap			
			80.8			
			80.8 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

HOLE NO. WES-2-11C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-11CP3-88			Date well screen was set: 3/5/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			8.0			
			Bentonite Pellets			
			13.0			PVC Screen+Riser
			Filter Pack			
			36.3			
			Well Screen			
			41.3			
			Trap			
			42.3			
			42.3 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO.

Hole No. WES-2-12C-89

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC, Crane Ind.	SHEET 1 OF 19 SHEETS

1. PROJECT Hydrogeologic Studies, DBG	10. SIZE AND TYPE OF BIT HQ wireline
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY WES	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
5. NAME OF DRILLER Don Taylor	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED 3/7/88; COMPLETED 3/14/89
7. THICKNESS OF OVERBURDEN 8.5	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 183.7	19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard W. Hunt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay (CL), ytan w/Gr mottling, mass, mod firm, moist, fine sdy toward bot.			Took split spoon samples of soil from 0.0 to 9.4' (refusal)
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9		Siltstone, sdy, lGr, th bd, v firm - hard alter shaley lams "			Set 8" dia PVC casing to 9.4'
	10				RR Bit	

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C12

Hole No. WES-2-12C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Siltstone (Cont.)	10.4		R.R. bit to 10.4'
				Run 1		Started Coring w/HQ wireline
	11					
	12					
	13			5.2 / 5.4		
				-0.2'		
	14					
	15					
				15.8		
	16			Run 2		
	17		Sandstone lt tan-buff, th bd, occ lGr sh lens + pts, occ carbon inclus, oxidized, f grain, friable			
	18			5.5 / 5.8'		
	19			-0.3'		Numerous bd dts from 5th
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WFS-2-12C-80

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		Sandstone (cont.)			
	21	0				
				21.6' / Run 3		
	22		Its mostly along bedding			3/8/88
	23					
	24					
		90		10.1 / 10.2		
	25					
	26			11		
	27					
		80	Silty-shaley v fine SS. 1 Gr.			
	28					
	29		SS is d rBr, highly oxidized, num carbonaceous inclus.			
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WES-2-12C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 19 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS (cont.)			
	31					
			Sandstone, m Gr+Br, Conglomeritic, oxidized, Carbonaceous inclus, hd	31.7' 31.8 Run4		Pull depth
	32					
	33					
			sandstone/siltstone, vFine, dGr Br, v hd (siderite?)			
	34					
			Shale, vdGr, thbd, flakey-blocky, occ high angle S sides, Carbonaceous	6.2/6.1 +5.1		
	35					
	36					
	37					Grouted in 6" dia PVC Casing to 37.9'
	38			37.9' Run5		3/9/88
	39			4.4/5.6 -0.3 1.2		
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. WES-2-12C

Hole No. WES-2-12C-99

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 15 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Shale (Cont.)			
	41					
	42			42.6'		Pull depth
	43			~~43.5~~		
				Run 6		
	44					
	45					
	46					
	47			10.4 / 9.5		
				~~9.9~~		
	48		Sandstone, l-m Gr, th bd, mass, f grained occ shale pts, occ carbonaceous pts + inclus.			
	49					
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02-C-12

Hole No. WES-2-12C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		SS (Cont.)			
	51					
	52					
			Sh lens increase below 52.0'			
	53			53.0 Run 7		
	54					
	55					
	56			10.1 / 10.3		
	57			-0.2		
	58					
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-C12-

Hole No. WES-2-12C-99

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		SS (cont.)			
	61					
	62					
	63			63.3 Run 8		
	64					
	65					
	66		(mansfield fm)			Penn. 66.7' (unconformity) miss
	67		(Hardinsburg fm) Shale, dGr, mass. crumbly, num s'sides hd.	8.5 / 10.1		
	68			1.6'		
	69					
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WES-2-12C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Sh (cont.)			
	71					
	72					
	73			73.4		
				Run 9		
	74					
	75					
	76					
	77			10.0 / 10.1		
	78			-0.1 / 0.0		
	79					
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C12

Hole No. WES-2-12C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Sh (cont)			
			Changes to dGr,			
	81		thin bd below ~75.0'			
	82					
				82.4 – 83.5		Pull depth
				Run 10		
	83					
	84					
	85			8.8 / 8.7		
	86			~~total~~		
	87					
	88					
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C12

Hole No. WES-2-12C-83

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Sh (cont.)			
	91					
	92		(Base of Hardinsburg)	92.2		
			(Top of Gakenda/Henry)	Run 11		92.3' 3/10/83
	93		Limestone, shaley, dGr, th bd w/alter. liney sh lens, hd, fossiliferous			
	94					
	95					
	96			10.1 / 10.2		
	97			-0.1		
	98					
	99		Limestone, lgr Br, m-c crystaline, mass, v hd, v den, fossiliferous			No Jts.
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02612

Hole No. WIES-2-12C-PB

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-12C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Ls (cont.)			
		0				very little opening along its (bedding)
	101					
		0				
	102					
				102.4		
				Run 12		
	103		(Base of Gallinda/Harney)			
		0	(Top of Indian Springs)			103.2'
			Shale, Blk, th bd, platey, carbonaceous, hd			
	104					
	105					
				6.5 / 6.6		
	106					
				-0.1		
	107					
	108					
						Set 4" PVC Casing (through the upper 6" casing) down to 109.0'
	109			109.0		
				Run 13		3/14/88
	110					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WES-2-17C-BE

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		Sh, Cont.			
	111					
	112			4.1 / 4.6		
				-0.6		
				-0.4		
	113			113.5		Drill depth
				113.7		
				Run 14		
	114					
	115					
				4.4 / 4.2		
	116			+0.2		
	117					
			alter. thin 1Gr SS lens in bot zone	117.9		
	118			Run 15		
	119					
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C17

DRILLING LOG

SHEET 13 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120					
	121		sh is olive Gr in bot 2.0'.	5.8 / 5.8		
	122					
			Base of Indian springs (122.7)			
			Top of Big Clifty ss			
	123		lytan, v fine, th bd, rippled hd, friable, oxidized			
				123.7 Run 10		
	124					
	125					
	126					
	127			10.0 / 10.0		
	128					
	129					
	130					

NG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) MAR 71 (TRANSLUCENT)

PROJECT

HOLE NO. 02C12

Hole No. WES-2-12C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		SS (cont)			
		10				
	141					
		5				
	142	50				
		50				
	143					
				143.7		
				Run 18		
	144					
	145	0				
		5				
	146					
	147	0		10.0		
				10.0		
	148	0				
		0				
		0				
	149					
	150	0				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. UIES-2-12C-84

DRILLING LOG	DIVISION	INSTALLATION	SHEET 16 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	150		SS (cont.)			
	151					
	152					
		10				
		10				
	153					
				153.7		
				Run 19		
	154	10				
		60				
		0	Stn			
		70				
		0				
	155		hard			
	156					
	157			9.4/10.0		
	158		Base of Bioclitly SS.			
			Top of Beech Creek Ls - 158.2'			
		0	Limestone, 1-mGr			
		0	m crystalline, fossil. Porous,			
	159		v hd, v dense, occ	>0.6		
			stylolites, oxidized	-0.2		
		0	along most jts in			
			upper zone.			
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WES-2-12C-86

DRILLING LOG	DIVISION	INSTALLATION	SHEET 17 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160		Ls (cont)			
	161					
	162					
	163			162.8		Pull depth
				163.7		
	164			Run 20		
	165					
	166					
			dts are stained w/fum			
	167					
				10.2 / 7.9		
	168		Ls changes to dGr. w/less wavy shaley pts.			
				+0.3 / +0.4		
			.. Base of oxidation			
	169					
	170					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C12

Hole No. WES-2-12-86

DRILLING LOG	DIVISION	INSTALLATION	SHEET 18 OF 19 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	170		LS (Cont.)			
	171					
		0				
	172					
		0	lim stn clay jts			
		0				
	173					
				173.0		173.5 Full depth
				Run 21		
	174					
	175					
	176					
	177	0	olive clay	10.2 / 10.1		
	178			10.1		
	179					
		0				
	180					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C11

Hole No. WFS-2-170-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 19 OF 19 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	180		Ls (Plant)			
	181	80'	Bar of Beech Creek Ls			
			Top of Elwren Shale - 181.6'			Tight contact
	182		Shale, Gn, mass, hd			
	183			183.7		
	184		Bot. Depth - 183.7'			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C12

Hole No. WES-2-12C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-12C-88			Date well screen was set: 3/14/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			118.0			
			Bentonite Pellets			
			122.7			
						PVC Screen + Riser
			Filter Pack			
			171.6			
			Well Screen			
			181.6			
			Trap			
			182.6			
			183.7 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN		16. DATE HOLE: STARTED / COMPLETED	
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE	
9. TOTAL DEPTH OF HOLE		18. TOTAL CORE RECOVERY FOR BORING %	
		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-12C PZ-88			Date well screen was set: 3/21/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			82.0			
			Bentonite Pellets			
			87.0			
			Filter Pack			PVC Screen + Riser
						(set 4" PVC Casing to ~ 38.0')
			93.2			
			Well Screen			
			103.2			
			Trap			
			104.2			
			104.2 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-12C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-12C R2-88			Date well screen was set: 3/18/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			water level just Prior to setting screen -
			13.0			
			Bentonite Pellets			
			16.0			PVC Riser + Screen
			Filter Pack			
			29.0			
			Well Screen			
			34.0			
			Trap			
			35.0			
			35.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-13C-86

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane Ind	SHEET 1 OF 9 SHEETS
1. PROJECT Hydrogeologic Studies, IDBG		10. SIZE AND TYPE OF BIT HQ Wireline	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY WES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) 2-13C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED	
5. NAME OF DRILLER Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE: STARTED 3/23/88 COMPLETED 3/28/88	
7. THICKNESS OF OVERBURDEN 12.0		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 83.3'		19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard W. Hunt	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty Clay, ytan, with numerous highly oxidized sandstone frags + blocks (Residual Soil zone)			Augered from 0.0 to 3.7'. Ran a 2' long NX core bl from 3.7 to 13.2' but only rec. a total of 1.5' of core (wea. SS).
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02

Hole No. WES-2-13C-95

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Silty Clay & SS (Cont.)			
	11					
	12		Top Sound Rock 12.0'			
			Sandstone, yBr to m grBr, f-c grained, th bd, carbonaceous inclus			
	13			13.2		
			Sh pls	Run 1		Started Coring with HQ Wireline
	14					
			swirled bedding			
	15					
	16		Conglomeritic			
	17			9.7 / 10.1		
			abundant carbonaceous inclus			
	18			-0.4'		
	19		Conglomeritic			
	20		v fine ss/slst, hd (siderite)? (20.0)			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02

Hole No. WES-2-13-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		Shale, blk, th bd, hd carbonaceous			
	21					
	22					
	23		Coal, blk, blocky	23.3 Run 2		
	24		Sandstone/siltstone, v fine, mtr mass, (no apparent bedding)			
	25					
	26					
	27			10.0 / 10.0		
	28					
	29					
	30		- Shaley			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		Sandstone, 1-m Gr, th bd, with thin Blk Sh wavey lens + pts spaced 1/8" to 6" apart. hd, occ Gn sh streaks,			
	31					
			Sh'ing is along bd.			
	32					
	33			33.3 / Run 3		
	34					
	35		oxidized - rusty Br			
	36					
	37			9.9 / 10.0		
	38			-0.1		
	39					
	40					

ENG FORM 1836 MAR 71 · PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-13

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		SS (cont.)			
	41					
	42					
	43		Sh lens increase in bot 1½'	43.3 Run 4		
			Base of Penn sediments			
	44		Top of miss " (Hardinsburg fm)			
			Shale Gn, mass, Crumbly, w/zones of d rBr claystone mottled inclus, hd			
	45					
	46			3.5 / 6.7		
	47			3.2		Core ground away during drilling
	48					
	49					Set 4" PVC Casing to 50.0'
	50			50.0		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. [redacted]

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Sh (cont)	Run 5		3/28/88
	51					
				2.7 / 3.3		
	52					
				0.6		
	53					
				53.3		
				Run 6		
	54					
	55					
	56			5.6 / 9.7		
				-4.1		ground core away during drilling
	57					
	58					
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C

Hole No. WFS-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60					
	61					
	62					
	63			63.0		
				Run 7		
	64					
	65					
	66			10.3 / 10.3		
	67					
	68					
	69					
			Base of Hardinsburg - 69.5			
			Top of Golconda / Honey			
	70		Shaley Limestone - limey	shale		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C13

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		dGr, th bd, fossiliferous			
	71					
	72	0	Crystaline Limestone, l-m gr Br, m-c, v hd, v dense			
	73	0		73.3 Run 8		
	74	10				
		0				
	75					
	76		shale	10.0 / 10.0		
	77					
	78					
	79	0	(Base of Galena / Hanover) (Top of Indian Springs) Shale, Blk, th bd, platey, carbonaceous hd			79.3
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-13C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont.			
	81					
	82					
	83			83.3		
			Bot. Depth - 83.3'			
	84					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C15

Hole No. WES-2-13C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-13C-88			Date well screen was set: 3/28/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			62.0			
			Bentonite Pellets			
			65.0			
						PVC Screen + Riser
			Filter Pack			
			69.3			
			Well Screen			
			79.3			
			Trap			
			80.3			
			83.3 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-BCP2-88			Date well screen was set: 3/29/88
			+2.5			
			0.0' Ground surface			
			Grout			
			10.0			Water level just Prior to setting Screen –
			~~Grout mixture~~ Sand			
			20.0			
			Bentonite Pellets			
			25.0			
						PVC Screen + Riser
			Filter Pack			
			34.0			
			Well Screen			
			44.0			
			Trap			
			45.0			
			45.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-13-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-13CP3			Date well screen was set: 3/30/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			water level just Prior to setting Screen –
			7.0			
			Bentonite Pellets			
			8.0			PVC Screen + Riser
			Filter Pack			
			15.0			
			Well Screen			
			20.0 (No. Trap)			
			20.0			
			20.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-14C-80

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION NWSC Crane Ind	SHEET 1 OF 17 SHEETS

1. PROJECT Hydrogeologic Studies, OBC	10. SIZE AND TYPE OF BIT HO Wire line
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY WES	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER Dan Taylor	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED 4/7/88 COMPLETED 4/13/88
7. THICKNESS OF OVERBURDEN 8.4	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 167.2	19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard Williams

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay (CL), Br, soft, wet (Rain)			Ran 8" flight Auger from 0.0 to 8.4'
	1					
	2					
	3					
	4					
	5					
	6		Silty-sandy clay (CL) y Br, v firm, dry			Set 8" dia PVC Surface casing
	7					
	8					Top of Rock-8.4'
	9		Sandstone? (as below)			Ran R.R. Bit to 11.5'
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02

HOLE NO. 1115-2-14-C-2

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10					
	11					
				11.5		
	12		Sandstone, ytan, fine, highly oxidized and weathered, num wavy olive shale (clay) thin lens + pts, occ Carbonaceous inclus.	Run1		Started coring w/ HQ wireline at 11.5'
	13					
	14					
	15					
	16			6.3/8.8		
	17			-1.5 -1.4		
	18					
	19		Core loss zone? (Probably conglomeratic)			
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO. 02-2

Hole No. [illegible]

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		Sandstone (cont.)	20.2 / 20.3		pull depth
				Run 2		
			reduction in sh pts below ~20.0', oxidized, friable, cross bd,			
	21					
			(Jointing is apparently confined to bedding planes.)			
	22			4.1 / 4.0		
				+0.1		
	23					
	24			24.3		
				Run 3		
	25					
	26					
				9.6 / 9.9		
	27					
				~~-0.3~~ -0.2		
	28					
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT HOLE NO.

Hole No. WFS-2-14C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 17 SHEETS

1. PROJECT
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number)
5. NAME OF DRILLER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN | DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE | STARTED | COMPLETED
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS (cont.)			
	31					
	32					
	33					
	34			34.2		34.1 - Pull depth
	35			9.8/10.0		
	36			+0.1 -0.2		
	37					
	38					
	39		Base of oxidation ≈ 39.0'			
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02-C14

HOLE NO. WE-2-17C-3

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 17 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		SS (Cont.)			
			(Below ~38.0' there are num thin blk wavy shale lens + pts.)			
	41					
	42					
	43					
	44			43.9 – 44.2		Pull depth
				Run 5		
	45					
	46			1.2 / 3.9		
				+0.3		
	47		Base of PENN - 47.1'			
			Top of MASS (Hardinsburg Fm)			
	48		Shale, Gn w/rBr mottling, mass, hd	48.1		
				Run 6		
	49			2.1 / 3.4 – 1.3		
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT [redacted] HOLE NO. 02-14

HOLE NO. WFA-2-14F-65

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Sh (cont.)			
	51			51.5' Run 7		Reamed hole + set 6" dia PVC casing to 51.5'. Grouted casing into shale zone. Pumped only 15 gal grout mix in bot portion of hole. Put sand around upper zone of casing. (4/9/88)
	52					
	53					
	54			3.4/4.9		
	55			-1.5		
	56			56.4' Run 8		
	57					Shale ground away during coring operations
	58			5.6/8.0		
	59			-2.4		
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C14

Hole No. WES-2-1145

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 17 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Sh (cont.)			
	61					
	62					
	63		dGr + th bd in bot zone			
	64			64.4 Run 9		
	65					
	66		Base of Hardinsburg - 66.0 Top of Golconda/Honey			
		0				
		20	Limestone, l-mgrBr th bd, m-c crystalline, occ blk thin shale lens + pts, fossiliferous, v hd, v den	10.0 / 10.0		
	67	0				
		0				
	68					
		0				
	69	0				
	70					

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PROJECT

HOLE NO. 02C14

Hole No. WES-1-17C-2.4

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		LS (cont.)			
	71	0				
		5	Shale, blk, th bd			
	72	5				
			Limestone, similar to above, but no sh pts, mass, occ stylolites, v hd, v den.			
	73	0				
	74			74.4		
				Run to		
	75	0				
	76	0				
	77			10.0 / 10.0		
	78					
	79	0				
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C11

HOLE NO. WES-2-14-[illegible]

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 17 SHEETS

1. PROJECT
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number)
5. NAME OF DRILLER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN | DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE | STARTED | COMPLETED
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80	60/	LS (cont.)			
			– stn + mea along ft.			
	81					
	82					
	83					
		0				
	84					
		0	Base of Golconda / Haney	84.4		
			Top of Indian sprs.	Run 11		
	85		Shale, blk, th bd, platey, indurated, carbonaceous			
	86					
	87			6.6 / 6.7		
	88			-0.1		
	89					
	90					

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PROJECT [redacted] HOLE NO. 02C14

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Sh (cont.)			Reamed hole & ran 4" PVC casing to 91.0'. Grouted lower portion of casing into shale. Back filled upper zone around casing w/sand. (4/12/88)
	91			91.1 / Run 12		
	92					
				2.8 / 3.3		
	93			-0.5		
	94			94.4 / Run 13		
	95					
	96					
	97			9.0 / 9.4		
	98			-0.4		
	99					
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO. 02C15

Hole No. WES-2-14C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Sh (Cont.)			
	101					Losing ~25% of water return below 101.0'
	102		Limestone, Gr, th bd, Shaley			
	103		Shale, olive Gr, mass.			
				103.8		
	104			Run 14		
	105		Ls concretions in bot ft.			
	106		(106.0') Top of Big Clifty SS -			
	107		Sandstone, l olive Gr, th bd, w/alter thin silty-shaley pts cross bd, v fine, oxidized.	101/101		
	108					
	109					
	110					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 502C

Hole No. WES-2-142-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		SS (Cont.)			Losing ~ 50% of water return below 110.0'.
	111					
	112		gradational change			
			Sandstone, 1-m olive tan, mass, rippled, v fine, sl. friable, hd, oxidized.			
	113			113.9		
	114			Run 15		
	115					
	116					
	117			10.1		
	118			10.1		
	119					
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-C14

Hole No. WES-2-14-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 13 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		SS (cont)			
	121					
	122					
	123					
	124			124.0 Run 16		
	125					
	126					Lost all water return at ~126.0'
	127			10.0 / 10.0		
	128					
	129					
	130					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C-1

Hole No. WES-2-14C-25

DRILLING LOG	DIVISION	INSTALLATION	SHEET 14 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130		Sandstone (cont)			
	131					
	132					
	133					
	134			134.0 Run 17		
	135					
	136					
	137			9.9 / 10.0		
	138			-0.1		
	139					
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT [redacted] HOLE NO. 02C14

Hole No. WES-2-14C-SS

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 17 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140	0	SS (cont.)			
		0				
		0				
	141	0				
		0				
	142					
		0				
		10				
	143					
		10				
	144	0		143.9 / 144.0 Run 18		Full depth
		0	clay + silt lines at contact			
		0				
	145	0	Base of Big Clifty fm - 145.0' / Top of Beech Creek fm.			
	146	10	Limestone, l-m gr Br, m-c crystalline, mass, fossiliferous, vhd, vden, occ stylolites			
	147			10.1 / 10.0		
	148	0		+0.1		
	149					
	150					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-14C

Hole No. WES-C-440-05

DRILLING LOG	DIVISION	INSTALLATION	SHEET 16 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	150		LS (Cont.)			
	151					
	152					
		0				
		0				
	153					
		0				
	154	0		154.0		
				Run 19		12/13/88
		0				
	155		LS changes to dGr + has zone of wavy shaley pts.			
	156	10				
		5				
		10				
	157	10				Started getting back ~ 25% to 40% of water return.
		0				
	158	5		9.9 / 10.0		
		0				
	159			0.1		
		0				
	160	0				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C14

Hole No. WES-2-14C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 17 OF 17 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-14C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160		Ls (cont.)			
	161					
	162					
	163					
			Base of Beech Fork			
	164		Top of Elwren – 163.9	164.0		
			Shale, dGn, mass hd	Run 20		
	165			2.9/3.2		
	166			-0.3		
	167			167.2		
			Bottom Depth 167.2 ft.			
	168					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C14

Hole No. WES-2-14C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-14C-88			Date well screen was set: 4/13/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			101.0			
			Bentonite Pellets			
			106.0			
						PVC Riser + Screen
			Filter Pack			
			153.9			
			Well Screen			
			163.9			
			Trap			
			164.9			
			167.3 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-14C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-14C P2-88			Date well screen was set: 4/15/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			62.0			
			Bentonite Pellets			
			66.0			
						PVC Screen + Riser
			Filter Pack			
			74.4			
			Well Screen			
			84.4			
			Trap			
			85.4			
			85.4 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-14C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN		16. DATE HOLE	STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE	
9. TOTAL DEPTH OF HOLE		18. TOTAL CORE RECOVERY FOR BORING %	
		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-14CP3-88			Date well screen was set: 4/19/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			7.0			
			Bentonite Pellets			
			10.0			PVC Screen & Riser
			Filter Pack			
			37.1			
			Well Screen			
			47.1			
			Trap			
			48.1			
			Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO.

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION Crane NWSC	SHEET 1 OF 8 SHEETS

1. PROJECT Hydrogeology of DBG	10. SIZE AND TYPE OF BIT HQ Wireline
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY WES	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number) 2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER Dan Taylor	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN 5.0'	16. DATE HOLE: STARTED 5/6/88 COMPLETED 5/10/88
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE 20.2'	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR Geologist Richard W. Herr

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay (CL), yellow-Br, soft, v moist,			0.0 - 5.0' drilled w/a 7" flite-Auger.
	1					
	2					
	3					
	4					
	5		Top of Rock - ~5.0'			Set 6" PVC Surface Casing to 5.0'
			Sandstone, ?			Ran R.R. Bit to 11.0'
	6		(R.R. Bit - No Spls from 5.0 - 11.0'			
	7					
	8					
	9					
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-15C

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 8 SHEETS
PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		(SS), Cont			
				11.0'		
	11		Clayshale, y tan firm, oxidized, silty	Run 1		Started coring at 11.0' w/ H.Q. wire line.
	12					
	13		Sandstone, l y tan-Buff, th bd, v fine, occ d olive Gr th shale lens + pts, oxidized, lim inclus, hd	3.2/5.7		
	14					
				2.5		
	15		Conglomeritic Zone? (Core loss)			
	16		rBr Fe Crusting			
				16.7		
				Run 2		
	17					
	18			5.0/5.9		
	19			0.9		
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-Z-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 2 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		SS, Cont.			
	21		silty clay (highly wea sh (core loss interval)			
	22			22.6 / Run 3		
	23					
	24					
	25					
	26			10.0 / 10.0		
	27					
	28					
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. Z-15C

Hole No. WES-2-15C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 8 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS, cont.			
	31		random sh. partings			
	32			32.6		
	33		SS is 1 Buff-Gr, slight oxidation	Runy		
	34					
	35					
	36		SS has num alter thin Blk shale wavey lens + pts.	9.2/10.0		
	37			0.8		
	38					
	39		Mansfield fm – 39.2'			Penn Sediments
			Hardinsburg fm –			Miss "
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-C5

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Shale, Gn, mass, Crumbly, soft to hd, occ dr-Br Claystone mottled in shale.			
	41					
				41.8		- Pull depth
	42					
				42.6		Reamed Hole w/6" RR bit and set 4" PVC casing to 42.6 (only grouted the bot. ~10' of casing) 5/9/88
				Run 5		
	43					
	44					
	45					
				1.0/5.6		
	46					— Note: Ground flushed away core spl in Run 5 during drilling
				-4.6		
	47					
	48					
				48.2		
				Run 6		
	49		v hd fragmented Ls inclns.			
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-15C-DB

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Shale (cont.)			
	51			4.4 / 4.4		
	52		Shale changes to dGr, thbd, platey-fissile, hd, occ carbonaceous streaks.	52.6	Run 7	
	53					
	54					
	55					
	56			9.6 / 100		
				0.4		
	57					
	58					
	59	10 / 20 / 5 / 0	Base of Hardinsburg - 59.0' Top of Goldenda / Harney Limestone, lm grBr, mass, coarse crystalline, fossiliferous vhd, vdn			
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-15C

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Ls (cont.)			
	61		Ls, has num d olive Gr sh lens			
	62			62.2 / 62.6 Run 8		Full depth (assumed due to void in Run 8) Core loss in Run 7
	63		void ?			
	64		Limestone changes to m grBr f-m Crystaline	2.7 / 2.7		Lost all drill water return at ~63.5' (void at same depth)
	65			65.3 Run 9		
	66					
	67			7.3 / 7.3		
	68					
	69					
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 8 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-15C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70	0	LS (cont.)			
	71	2				
	72			72.6		
				Run 10		9/10/88
		2	sh			
	73					
	74			3.7/3.7		
	75					
	76		shaley Base of Golconda/Haney Top of Indian Springs	76.3 Run 11		Blocked
	77		Shale blk th bd, platey, hd, carbonaceous			
	78			3.9/3.9		
	79					
	80		Bot. Depth - 80.2'	80.2'		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 0005

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-15C-88			Date well screen was set: 5/10/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			53.0			
			Bentonite Pellets			
			56.0			PVC Screen + Riser
			Filter Pack			
			66.3			
			Well Screen			
			76.3			
			Trap			
			77.3			
			80.2 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-15C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-15C02-88			Date well screen was set: 5/11/88
			+2.5			
			0.0 Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			3.0			
			Bentonite Pellets			
			6.0			PVC Screen + Riser
			Filter Pack			
			29.2			
			Well Screen			
			39.2			
			Trap			
			40.2			
			40.2 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION Crane Ind Nwsc	SHEET 1 OF 10 SHEETS

1. PROJECT: Hydrogeologic Studies, D86
2. LOCATION (Coordinates or Station):
3. DRILLING AGENCY: WES
4. HOLE NO. (As shown on drawing title and file number): 2-16C
5. NAME OF DRILLER: Dan Taylor
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 5.0'
8. DEPTH DRILLED INTO ROCK:
9. TOTAL DEPTH OF HOLE: 91.3'
10. SIZE AND TYPE OF BIT: HQ wireline
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MSL
12. MANUFACTURER'S DESIGNATION OF DRILL: Failing 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER:
16. DATE HOLE: STARTED 5/12/88 COMPLETED 5/16/88
17. ELEVATION TOP OF HOLE:
18. TOTAL CORE RECOVERY FOR BORING: %
19. SIGNATURE OF ~~INSPECTOR~~ Geologist: Richard W. Hunt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay, Br-yTan, soft-mod, firm, moist (Residual Soil)			0.0-5.0' - Auger
	1					
	2					
	3					
	4					set PVC Surface Casing to 5.0'
	5		Top Rk - 5.0'	5.0'		
			Sandstone, yTan, th bd, highly oxidized, friable, occ lim castings, occ thin clay lens (wea sh)			5.0 to 10.0 - R.R. Bit
	6					
	7					
	8					
	9					started Coring w/HQ at 10ft.
	10			10.0		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Sandstone (cont.)	Run 1		
	11					
	12			4.4 / 4.6		
	13			-0.2		
	14		Lim stn along jts, most jts are along bd.	14.6		
				Run 2		
	15					
	16					
	17			8.2 / 8.5		
	18		Claystone, y Tan, highly oxidized, sdy	-0.3		
	19					
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WFS-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20	O, S				
	21	S				
			Sandstone,			
	22	O, O, S				
	23	S		23.1 Run 3		
	24	S, 10, 2				
	25	S, S				
	26	7, Δ, Δ	Sandstone + clay? (2.0' core loss in This zone) highly oxidized SS is ol brRed, Fragmented. (Probable wea Conglomerate) Note (Red color in this zone could be dye?)	8.0 / 10.0		Caving during drilling between 25.5 + 28.3
	27	Δ, Δ		2.0		Lost ~ 50% of water return at ~ 26.6'
	28	Δ, Δ				
			Sandstone, y Tan, Cross bd, f grained, oxidized friable, occ clay pts (wea Sh)			
	29	S, 2, 0				
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-16C

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		SS (cont.)			
		6				
	31	0				
		0				
	32	0				
	33			33.1		
		0		Run 4		
		0				
	34	0				
		0				
	35	19				
		0				
		0				
	36	0		8.5		
				8.5		
	37	5				
	38	0				
	39					
		0				
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Sandstone (cont.)			
				41.6		
	41			Run 5		
	42					
	43					
	44					
			SS below 44.2' is unoxidized, f Gr w/increase in dk Gr sh pts (spaced 1/4" to 2" apart)			
	45			10.2/10.2		
	46		Core breaks easily along sh pts.			
	47					
	48					
	49					
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-21

Hole No. WES-2-16C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		SS (cont.)			
	51					
				51.8		
	52			Run 6		5/13/88
	53					PENN
			(Base of Mansfield fm-53.5') (Hardinsburg fm)			MISS
	54		Shale, Gn, mass, w/ zones of Gn + dl br Red mottled claystone	5.3/5.8		Losing ~30% of water return
	55			-0.5		
	56					
	57					Reamed hole to 5⅞" and set 4" PVC Casing to 57.6'.
				57.6		
				Run 7		Grouted casing in bot zone and back filled to surface w/ sand.
	58					
	59			2.4/5.5'		5/16/88
	60			-3.1'		← Ground core away during drilling

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. [redacted]

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Shale (cont.)			
						100% water return after setting casing.
	61					
	62					
	63			63.1		
				Run 8		
	64					
	65					
	66					
				7.8		
	67			10.0		
				2.2		Ground core away during drilling.
	68					
	69					
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C 16

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Shale is dgnGr + th bd in bot. 4'			
	71					
	72					
	73			73.1 / Run 9		
	74		(Base of Hardinsburg - 74.0') (Top of Golconda/Henry)			
			Limestone mgrBr, m-c crystalline, fossiliferous, v hd, v den.			
	75					
	76					
	77			9.7 / 10.0		
	78			0.3		
	79		Shale, Blk, th bd, hd			
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C1C

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Limestone, crystaline (as above)			
	81		- Lim stn			
	82		(Ls is oxidized between 80.0 + 83.9')			
	83			83.1 Run 10		
	84		Lim stn Shaley Limestone dGr, thin bd			
	85					
	86		Limestone, mgrBr, Crystaline (as above)			
	87					
	88		(Base of Golconda/Honey - 88.6') (Top of Indian Springs)			
	89		Shale, Blk, thin bd, Carbonaceous, platey-flakey, hd, one fossils.			
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C16

Hole No. WES-2-16C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-16C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90					
	91					
			Bottom Depth- 91.3'			
	92					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C1L

Hole No. WES-2-16c-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No. WES-2-16c-88			Date well screen was set: 5/16/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			70.0'			
			Bentonite Pellets			
			73.0			
						PVC Riser + Screen
			Filter Pack			
			78.6			
			Well Screen			
			88.6			
			Trap			
			89.6			
			91.3 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-16CP2-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-16CP2-88			Date well screen was set: 5/17/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			7.0'			
			Bentonite Pellets			
			10.0			
			Filter Pack			PVC Screen + Riser
			43.5			
			Well Screen			
			53.5			
			Trap			
			54.5			
			54.5' Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-17C-88

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION NWSC Crane Inc.	SHEET 1 OF 10 SHEETS
1. PROJECT Hydrogeologic Studies DBG		10. SIZE AND TYPE OF BIT HQ Wireline	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSC	
3. DRILLING AGENCY WES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) 2-17C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED 5/19/88 / COMPLETED 5/23/88
7. THICKNESS OF OVERBURDEN 7.2'		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 10.0'		19. SIGNATURE OF INSPECTOR Geologist Richard W. Hunt	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay, y tan-Br, soft - mod firm, moist to dry w/ depth.			0.0 - 7.2' - Auger
	1					
	2					
	3					
	4					
	5					
	6					
	7		Top Rock - 7.2'			
	8		Sandstone, y Tan, th bd, v fine-fine, highly oxidized, occ to num wavey clay (wea sh) pts, occ Lim castings, hd			7.2' - 10.0' - R.R. Bit
	9		Shaley in some zones			Started Coring w/ HQ wireline at 10.0'
	10			10.0		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. [redacted]

Hole No. WES-2-17C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-17C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		SS (cont.)	Run 1		5/20/88
		0				
		10				
	11	0				
	12	0				
		0				
		0				
	13	0	Jts are lim stn + mostly along bd			
		0				
		0				
	14	0				
		9.6				
		0				
		0		9.6 / 10.2		
	15					
		0		-0.6		
	16	5				
		0				
	17	5				
		5				
		0				
	18	10				
		10				
	19	0				
		5				
		25				
	20	0				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-17c-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-17c	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		SS (cont.)	20.2		
				Run 2		
	21		SS is m-c grained w/d brfed banding, conglomeritic			
				2.7 / 2.9		
	22			-0.2 -0.1		
				23.0		
	23			23.7		Full depth
				Run 3		
	24					
	25					
	26		Clayshale, Buff-Br, th bd, mod soft, highly wea, w/num vfine ss/slst pts. hor bedding	8.1 / 8.0		
	27					
	28			+0.1		
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. [redacted]

Hole No. WES-2-170-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-170	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30		Clayshale (cont.)			
	31			31.1 Run 4		Lost all water return at ~ 31.0'
	32		Highly wea Conglomerate zone ?, Lost most of core during drilling, SS & Clay ?, fragmented, highly oxidized			
	33			1.2/5.6		Soft drilling Caving in zone between 31.1 + 35.7 during drilling.
	34			-4.4		
	35					
	36		Clayshale, m-d Gr, th bd, silty-sdy, blocky, num small Carbonaceous inclus.	36.7 Run 5		
	37					
	38			2.6/3.0		
	39			-0.4		
	40		Sandstone, Buff-y Br th bd, f grained, hd, occ shale pts.	39.7 Run 6		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-170

Hole No. WPS-2-170-02

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 10 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-170	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Sandstone (cont.)			
	41			3.4/3.4		
	42					
	43		highly oxidized, rusty Br	43.1 Run 7		
	44					
	45			2.9/3.4 -0.5		
	46			46.5 Run 8		
	47					
	48					
	49			6.4/6.6 -0.1		
	50		Sandstone, similar to above, but 1-m Cr unoxidized, w/ num			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-170-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-170	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		dGr wavy shale pts.			
	51		Core breaks easily along sh pts			
	52					
	53			53.0 / 53.1 Run 9		Full depth
	54					
	55					
		0	sm sh			
	56			6.7 / 6.6		
	57			~~70.1~~		Losing all water return.
	58					
	59					
			(Base of Mansfield fm)	59.7		PENN
	60		(Hardinsburg fm)	Run 10		59.7 MISS

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-17C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-17C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Shale, Gn, mass, hd, crumbly.			
	61					Note: Hole was caving between 31 + 35'. Had to drill down 6" steel casing past this zone too set 4" PVC to bot. Then removed steel casing.
	62			2.0/3.4 -1.4		
	63			63.1		
	64		Claystone, Gn + dbr Red, mottled, hard fractured, sbdy			Reamed Hole to 65.9 w 5 7/8" dia R.R. Bit + set 4" PVC Casing. Casing Grouted in bot zone and back filled w/sand to surface. 5/23/88
	65					
	66			65.9 Run 11		
	67					
	68			5.4/7.2		
	69			-1.8		Ground core away during drilling
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C

Hole No. WES-2-17C-81

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 10 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-17C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Claystone, (cont.)			
	71					100% water return after setting casing
	72		Shale, dGr, th bd, platy-flakey, hd, slightly carbonaceous			
	73			73.1 Run 12		
	74					
	75					
				4.5 / 5.8		Ground core away during drilling
	76			1.3		
	77					
	78					
	79			78.9 Run 13		
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C17

Hole No. WES-2-17C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-17C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont.)			
	81			4.0/4.2		
	82			-0.2		
	83			83.1		
	84					
	85		Base of Hardinsburg - 85.0' Top of Golconda/Hartley			Losing 25-50% of water return below ~84'
	86		Limestone, mgrBr, m Crystaline, mass, fossiliferous, v hd, v den	9.5/10.0		
			Lim stn			
	87			-0.5		
	88					
	89		Shaley Limestone th bd, d Gr, fossils			
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C

Hole No. WES-2-17-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-17C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Shaley Ls (cont.)			
		0	Lim sin			
	91		Limey shale, d. Gr			
	92		Limestone, m gr Br. Crystaline (as above)			
	93			93.1 / Run 15		
		90	just touched bt; Lim sin			
	94	10				
	95					
	96		Base of Cokonda/Honey - 96.1' Top of Indian Springs	7.0 / 7.0		
	97		Shale, Blk, th. bd, carbonaceous, hd			
	98					
	99					
	100			100.1		Bot. Depth - 100.1'

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02-17

Hole No. WES-2-17C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No. WES-2-17C-88			
			+2.5			Date well screen was set: 5/23/88
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen -
			78.0			
			Bentonite Pellets			
			83.0			
			Filter Pack			PVC Screen + Riser
			86.1			
			Well Screen			
			96.1			
			Trap			
			97.1			
			100.1 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

ENG FORM WES-7-170 00

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-17CP2-88			Date well screen was set: 5/26/88
			+2.5			
			0.0' Ground surface			
			Grout			
			9.0			
			~~Grout mixture~~			Water level just Prior to setting Screen –
			Sand			
			35.0			
			Bentonite Pellets			
			38.0			
						PVC Riser + Screen
			Filter Pack			
			49.7			
			Well Screen			
			59.7			
			Trap			
			60.7			
			60.7 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO.

Hole No. WES-2-17C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-17CP3-88			Date well screen was set: 5/27/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			5.0			
			Bentonite Pellets			
			7.0			PVC Screen + Riser
			Filter Pack			
			20.6			
			Well Screen			
			25.6			
			~~Trap~~ No trap			
			25.6			
			25.6 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSMITTAL) PROJECT HOLE NO.

Hole No. WES-2-18e-88

DRILLING LOG	DIVISION US Navy	INSTALLATION Alusa Crane Ind.	SHEET 1 OF 11 SHEETS

1. PROJECT Hydrogeologic Studies ABG	10. SIZE AND TYPE OF BIT HO Wireline
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY WES	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER Dan Taylor	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN 5.4'	16. DATE HOLE — STARTED 6/2/88 — COMPLETED 6/6/86
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE 101.2'	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR Geologist Richard W. Hunt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty Clay, Br-yBr, soft - mod firm w/depth, moist (Residual Soil)			0.0-5.4 - Auger
	1					
	2					
	3					
	4					
	5					
	6		Sandstone, y tan, th bd, occ wea shale pts, fine grained, highly oxidized, hard.			5.4-10.1 - R.R. Bit
	7					
	8					
	9					
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. [redacted]

Hole No. WFC-2-18C-96

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Sandstone (cont.)	10.1 Run 1		Coring w/HQ wireline
	11			2.0 / 3.0		
	12			-1.0		
			Jts have Lim stn + are mostly along bd.			
	13			13.1 Run 2		
	14					
	15					
	16			9.4 / 10.0		
	17			-0.6 -0.4		
	18		Siltstone/claystone, ytan + olive Gr in top zone to lgr, carbonaceous, ccc ss zones oxidized			
	19					
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WFS-2-18R-05

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		SS, y Br, + Gr, Conglomeritic, carbon inclus.			
	21		swirled bd, soft + k 1-m Gr w/ oxidized Br zones			
	22					
	23		mass, 1-m Gr, soft rk	22.9 / 23.1 Run 3		Pull depth
	24					
	25		SS, lim crusted, conglo			
			swirled bd, lim crusting			
	26					
	27		SS, conglo, carbon inclus, lim crusting	10.2 / 10.0		
			mass, m Gr, carbon inclus	+0.2		
	28		lim filled			
			Gradational change			
			Claystone, d olive Gr, th bd, uwa, lim stn along jts			
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-18C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30	50	Lm clayShale (cont.)			Jts lim stn + tight
	31	50	Lm			
	32	10				
		10				
	33	60	Sandstone, yBr, th bd, f grained, highly oxidized, occ wea shale pts. hd. (Red-Br + fragmented in top 1-1½'.)	33.1 Run 4		
		0				
	34	40				
		40				
		0				
	35	0				
	36	0				
	37	0		9.3 / 10.0		
		100				
		0				
	38	50		-0.7		
		0				
		0				
	39					
		0				
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-18C

Hole No. WES-2-18C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		SS (Cont.)			
	41		highly oxidized, rusty Br.	43.1 Run 5		
	42					
	43					
	44					
	45					
	46		closely spaced sh pts in bot 1½ ft	10.0 / 10.0		
	47		Gradational Change			
	48		Sandstone, lGr, thin bd w/ wavy blk shale pts spaced ¼" to 6" apart, f grained, hd.			
	49					
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-18C-55

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 11 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) 2-18C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Sandstone (cont.)			
	51					
	52		Core breaks easily along shaley pts.			
	53			53.1 / Run 6		
	54					
	55					
	56					
	57			9.3 / 10.0		
	58			10.9		
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C18

Hole No. WES-2-18C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 11 SHEETS

1. PROJECT
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number) 2-18C
5. NAME OF DRILLER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN | DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE | STARTED | COMPLETED
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60					
	61		SS grade to a fine grained LS(?) in bot 1-1½'.			
	62		Base of Mansfield Fm. Hardinsburg fm			PENN ~ 62.4' MISS.
	63		Shale, Gn, mass. hd, crumbly.	63.1 Run 7		
	64					
	65					
	66					
	67					6/3/88 Reamed hole to 6¾" dia and set 4" P.V.C. Casing to 68.1'. Grouted in bot portion of Casing.
	68			68.1 Run 8		
	69					6/7/88
	70			1.9 / 3.9 - 2.0		— Core ground away.

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-18C

Hole No. WES-2-18C-85

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Shale Cont.			
	71		Claystone, Gn + dbr Red, mottled, mass, hd, Fractured.			
	72			72.0 Run 9		
	73					
	74					
	75		Shale dGr th bd. Platy-flakey (Zone between 74.9 + 82.2 was ground away during drilling.)			
	76			2.9 / 7.3		
	77			7.3		Core bl blocked at ~ 74.9' + ground lower core away.
	78					
	79					
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C18

Hole No. WES-7-15-28

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont.)			
	81					
	82			82.2		
				Run 10		
				1.1 / 1.2 (-0.1)		
	83			83.4		
				Run 11		
	84					
	85					
	86					
				7.0 / 8.8		
	87		occ dgrBr lime/siltstone nodules in bot 3-4'			
	88			(1.8')		
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02018

Hole No. WES-2-18C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 11 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90					
	91		Base of Hardinsburg - 91.0'			
		35	Top of Golconda/Honey Limestone, l-mgrBr, m-c crystalline, fossiliferous, v hd, v dens.			
	92			92.2 Run12		
			Shaley, th bd Ls.			
	93					
	94	15				
	95	20		60/61		No good water zts in G/H Ls
	96			-0.1		
	97					
	98	5	Base of Golconda/Honey	98.3		
			Top of Indian springs	Run13		
	99		Shale, blk, th bd platey, carbonaceous, hard.	2.6/2.9		
	100			-0.3		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C18

IN5 170 023 498

Hole No. WES-2-14-83

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-18C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100					
	101			101.2		
			Bot Depth- 101.2'			
	102					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT | HOLE NO. 02C18

DRILLING LOG

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

OF SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-18C-88			Date well screen was set: 6/6/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			75.0			
			Bentonite Pellets			
			80.0			PVC Screen + Riser
			Filter Pack			
			88.3			
			Well Screen			
			98.3			
			Trap			
			99.3			
			101.2 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-18CP2-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-18CP2-88			Date well screen was set: 6/7/88
			+2.5			
			0.0' — Ground surface			
			Grout			
			5.0			Water level just Prior to setting screen –
			~~Grout mixture~~			
			Sand			
			26.0			
			Bentonite Pellets			
			31.0			
						PVC Screen + Riser
			Filter Pack			
			52.4			
			Well Screen			
			62.4			
			Trap			
			63.4			
			63.4 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-18C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-18CP3-88			Date well screen was set: 6/7/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			4.0			
			Bentonite Pellets			
			5.0			PVC Screen + Riser
			Filter Pack			
			13.0			
			Well Screen			
			18.0			
			Trap			
			18.5			
			18.5 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

IN5 170 023 498

Hole No. WES-2-19C-89

DRILLING LOG	DIVISION US Navy	INSTALLATION Grane Ind N WSC	SHEET 1 OF 10 SHEETS

1. PROJECT: Hydroacoustic Studies, DBG
2. LOCATION (Coordinates or Station): V
3. DRILLING AGENCY: WES
4. HOLE NO. (As shown on drawing title and file number): 2-19C
5. NAME OF DRILLER: Dan Taylor
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 4.7'
8. DEPTH DRILLED INTO ROCK:
9. TOTAL DEPTH OF HOLE: 93.0'
10. SIZE AND TYPE OF BIT: HQ wireline
11. DATUM FOR ELEVATION SHOWN (TBM or MSL):
12. MANUFACTURER'S DESIGNATION OF DRILL: Failing 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER:
16. DATE HOLE: STARTED 6/8/88 COMPLETED 6/14/88
17. ELEVATION TOP OF HOLE: 730.85
18. TOTAL CORE RECOVERY FOR BORING: %
19. SIGNATURE OF ~~INSPECTOR~~: Geologist Richard W. Hurt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty Clay, y-tan-Br, soft-mod soft, V moist. (Residual Soil)			0.0-4.7- Auger
	1					
	2					
	3					
	4					Set Surface casing (PVC) to 4.7'
			Top of Rock- 4.7'	4.7		
	5		Sandstone Buff-y-Tan, vf-f grained, th bd (cross bd), occ th clay lens (weg sh), highly oxidized, occ Lim castings.			4.7-10.0 - R.R. Bit
	6					
	7		numerous bedding Lts.			
	8					
	9					
	10			10.0		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT: HOLE NO. 02C19

Hole No. WES-2-19C-83

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Sandstone (cont.)	Run 1		10.0' - Started Coring w/HQ wireline.
	11					
	12					
	13					
	14					
	15		Conglomeritic, highly oxidized	10.3/10.4 -0.1		
	16		Siltstone, sandy Buff-Tan, oxidized mod soft, k, mass			Losing ~ 20-25% of drill water.
	17					
	18		Rusty Br, Lim nodules, sdy			
	19					
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C19

IN5 170 023 498

Hole No. W1E5-2-19C-03

DRILLING LOG

1. PROJECT	
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE NO. (As shown on drawing title and file number)	2-19C
5. NAME OF DRILLER	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	

INSTALLATION	SHEET 3 OF 10 SHEETS
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED / COMPLETED
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	%
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		siltstone (cont.)	20.4 Run 2		
	21					
	22					
	23					
	24					
	25		Clay Shale olive Gr + Buff, sh bd, oxidation along jts, highly cmn, soft rk	8.5 / 10.3		
	26			1.8		
	27					
	28					
	29		Sandstone - Clay? (core loss in this zone) highly oxidized fragmental (Probable was Conglomerate)			Small amount of caving during drilling between 28.4 & 30.9
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE PROJECT HOLE NO. 02C19

Hole No. WES-2-19C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 1 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30			30.7 Run 3		
	31					
	32		Bot ft grades into th bd ss below			
	33		Sandstone, + Shale laminated 1+d Cor bd, hd			
	34					
	35		Sandstone, y Ton, th bd-mass, f grained, occ clay lens (wea sh), (clay lens decrease w/depth), oxidized, hd	8.9/10.0		still losing ~20% of drill water
	36			~1.1		
	37		Jts along bedding, ~ hor.			
	38					
	39					
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-19C

Hole No. WFS-2-19C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		SS (cont.)			
				40.7 Run 4		
	41					
	42					
			Gradational change			
	43		Sandstone, y ton-Buff, w/ wavey sh pts spaced 1/4 to 2" apart, f grained, alter oxidized + lGr unoxidized zones to a depth of 49'; unoxidized + Gr below 49'.	4.7 / 4.7		
	44					
	45		Breaks easily along sh pts. hd	45.4 Run 5		
	46					
	47					
	48			8.0 / 8.0		
	49					
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C44

Hole No. W/FS-2-19C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 10 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)	2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		SS (cont.)			
	51					
	52					
	53			53.4 / Run 6		
	54			2.2 / 2.2		
	55		Bot ft grades to Blk sh w/1 Gr SS lens.			
			(Base of Mansfield fm)	55.6		PENN, 55.6'
			(Hardinsburg fm)	Run 7		MISS
	56		Shale, Gn, mass, Soft-mod hd, Crumbly			
	57			2.8 / 3.8		
	58			1.0		Reamed hole + set 4" PVC casing to 59.4'. Grouted bot zone of casing.
	59			59.4 / Run 8		6/14/88
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-19C

Hole No. L-ES-2-19C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		Shale (cont.)			Got back all water return
	61			0.8 / 4.8		Ground core away during drilling.
	62			-4.0		
	63			63.2 Run 9		
	64			1.8 / 2.4		
				-0.6		
	65		claystone - Gn + dbr Red, mass, hd blocky fracturing. (mottled)	65.6 Run 10		
	66					
	67			3.9 / 7.6		Ground core away during drilling
	68			-3.7'		
	69					
	70					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-19C

Hole No. WFS-2-19C-EE

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Claystone (cont.)			
	71					
	72					
	73			73.2 Run 11		
			Shale, dGr, th bd, platey-flakey, hd.			
	74					
	75					
	76			9.5 / 10.0		
	77					
	78			0.5		
			(Base of Hardinsburg - 78.7')			
	79		(Top of Golconda / Haney) Limestone, l-mgrBr, m-c crystalline, fossiliferous, v hd, v dens.			
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02-C-19

Hole No. WES-2-19C-B4

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Ls (cont.)			
	81					
	82			82.7		Full depth
	83			83.2		
				Run 12		
	84	10 79 30 70 20				
	85		Shale, blk, thbd			
	86		Sh			
	87		Shale, blk + thbd	10.3 / 9.8		
	88	0 0		+0.5		
	89	0 0				
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 2-19C

Hole No. 11F-5-2-19C-98

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-19C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		Base of Galenda/Hanna - 90.2			
			Top of Indian Springs			
			Shale, Blk, thin bd, carbonaceous, platey, hard, occ. fossils			
	91					
	92					
	93			93.0		
			Bot depth - 93.0'			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C19

Hole No. WES-2-19C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No. WES-2-19C-88			Date well screen was set: 6/14/88
732.35			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			72.0			
			Bentonite Pellets			
			75.0			PVC screen + Riser
			Filter Pack			
			80.2			
			Well Screen			
			90.2			
			Trap			
			91.2			
			93.0' Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-ISC-83

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-ISCP2-88			Date well screen was set: 6/15/88
733.28			+2.5			
			0.0' Ground surface			
			Grout			
			4.0			Water level just Prior to setting Screen –
			~~Grout mixture~~			
			Sand			
			20.0			
			Bentonite Pellets			
			27.0			PVC Screen + Riser
			Filter Pack			
			45.6'			
			Well Screen			
			55.6			
			Trap			
			56.6			
			56.6' Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT | HOLE NO.

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-19CP3-88			Date well screen was set: 6/16/88
733.63			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			4.0			
			Bentonite Pellets			
			5.0			PVC Screen + Riser
			Filter Pack			
			10.7			
			Well Screen			
			15.7			
			Trap			
			16.7			
			16.7 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-20C-85

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Grove Ind.	SHEET 1 OF 15 SHEETS
1. PROJECT Hydrogeologic Studies, OU6		10. SIZE AND TYPE OF BIT HQ wireline	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY WES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) 2-20C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED 6/16/88 / COMPLETED 6/21/88
7. THICKNESS OF OVERBURDEN 8.0'		17. ELEVATION TOP OF HOLE 712.56	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 145.7'		19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard W. Hunt	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay, y tan (Residual soil)			0.0 to 17.1 - Auger
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8		Claystone y tan Br (wea shale)			
	9					
	10					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 2-20C

Hole No. WES-2-20C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	10		Clayshale (cont.)			
	11					
	12					
	13		Shale dGr-blk, th bd, platy, carbonaceous (12.5-20.0')			
	14		Hor. Bedding			
	15					
	16					
	17			17.1		
				[illegible]		Started Coring w/ HQ Wireline
	18					
	19			6.4/6.6 -0.2		
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [illegible] HOLE NO. 02C[illegible]

Hole No. WES-Z-20C-85

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		SS/slst, Gr, ha			
			Sandstone, conglomeritic highly oxidized w/ 1/in crusting			
	21					
	22					
			Shaley sandstone, 1-d Gr, th bd w/ elk sh pts, burrowed?, oil stain seeping from pores (oxid)			
	23			23.6 / 25.7		Pull depth
	24					
	25					
	26					
	27			10.1 / 10.0		
	28		Gradational	+0.1		
			Predominately 1 Gr SS lens w/ elk sh pts, f grained, burrowed(?) ~ hor bd, (no oil stain)			
	29					
	30					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 020

Hole No. Z-202

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-202	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	30					
	31		Sandstone, lGr+Br, Conglomeritic, th bd, highly oxidized			
	32					
	33		Sandstone, m Gr, th bd-mass, w/pcs to num Blk Carbonaceous sh pts + th lens, f-m grn, ~ hor bd, oil stain seeping from pores.	33.7 Run 3		
	34					
	35					
	36			6.5		
	37		Sandstone conglomerate m-d grBr, highly oxd	6.9		PENN
			Base of Mansfield fm (Hardinsburg fm)	-0.4		~ 37.7' MISS
	38		Claystone / Siltstone, m Gn, mass, hd			
	39					
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. Z-202

Hole No. 2-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		(cont.)			Set 6" PVC Casing to 40.6'
				40.6		
				Run 4		6/17/88
	41					
				2.0 / 2.9		
	42			-0.9		
	43		Shale, blk, th bd. platy - slaty	43.5		
				Run 5		
	44					
	45					
				4.8 / 5.6		
	46			-0.8		
	47					
	48					
	49			49.1		
				Run 6		
	50					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C20

Hole No. Z-202

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-202	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	50		Sh (cont.)			
	51			2.6 / 4.4		Ground core away during drilling
	52			-1.8		
	53			53.5		
				Run 7		
	54					
	55					
	56					
	57			6.6 / 7.2		
	58		Base of Hardinsburg 58.0' Top of Golconda/Haney	>0.6		
			limestone, grBr mass f-m crystalline, fossiliferous, vhd, vdm	-0.2		
	59					
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C21

Hole No. Z-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60			60.3		pull depth
				60.7		
				Run 8		
	61		Shaley Limestone Gr th bd w/sh pts			
	62					
	63			5.4 / 5.0		
				+0.4		
	64		Limestone, crystalline (as above)			
	65		Base of Galena/Platteville / Top of Indian Springs (65.6') (Big Clifty fm)	65.7		
				Run 9		
	66		Shale, blk, th bd, platey, carbonaceous, occ pyrite nodules,			
	67					
	68			2.0 / 4.0		ground core away during drilling
				-2.0		
	69					Reamed hole & set 4" PVC casing to 69.7' 6/21/88
				69.7		
	70			Run 10		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C20

Hole No. 2-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	70		Sh (cont.)			
	71			3.6/3.8		
	72			-0.2		
	73			73.5 Run 11		
	74					
	75			2.6/3.0 -0.4		
	76			76.5 Run 12		
	77					
	78					
	79			6.6/7.0 -0.4		
	80					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. 2-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Shale (cont)			
	81					
	82					
	83			83.5		
	84		Shaley Ls, m-Gr, ft bed hd platy Ls w/sh pts. Jt rough irregular, stn	Run 13		
	85		Base of Indian Springs Top of Eq cliffy SS (85.1) Sandstone, Buff-yTan, mass, vf-f grained occ olive shale pts ~~in top~~, rippled, oxidized, friable			
	86					
	87			10.0 / 10.0		
	88					
	89					
	90					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT [redacted] HOLE NO. 02C20

Hole No. 2-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	90		SS (cont.)			
	91					
	92					
	93			93.5		
				Run 14		
	94					
	95					
	96	5				
		90		9.7		
	97			9.8		
	98			>0.1		
	99					
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. Z-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 11 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) Z-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED: — COMPLETED:
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		sandstone (cont.)			
	101					
	102					
	103			103.2 / ~~102.3~~		Drilled with
				Run 15		
	104					
	105					
	106					
	107			10.1 / 10.0		
	108			+0.1		
	109					
	110					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. 2-20c

DRILLING LOG	DIVISION	INSTALLATION	SHEET 12 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20c	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	110		SS (cont.)			
	111	10				
	112					
	113			113.3 Run 16		
	114					
	115					
	116					
	117			10.1 / 10.2		
	118					
	119					
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. 2-20c

DRILLING LOG	DIVISION	INSTALLATION	SHEET 13 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		Sandstone (cont.)			
	121					
	122					
	123		Base of Big Cliffy SS (123.2)			
			Top of Beech Creek Ls	123.5		Note: After Completion of Run 16, to a depth of 123.5', core BL. hung in hole; Attempts to remove failed. Move over ~10' + drilled second boring down to 145.7' with a R.R. Bit. Determined thickness of Beech Creek Ls by drilling characteristics.
	124		Limestone, m gr Br, Crystalline, fossiliferous, v hd, v dense.			
	125					
				R,		
	126			R.		
				B.t		
	127					
	128					
	129					
	130					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. 2-20c

DRILLING LOG	DIVISION	INSTALLATION	SHEET 14 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20c	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE — STARTED: — COMPLETED:
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	130		Limestone (cont.)			
	131					
	132					
	133					
	134			R.		
	135			R.		
				8.+		
	136					
	137					
	138					
	139					
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. 2-20C

DRILLING LOG	DIVISION	INSTALLATION	SHEET 15 OF 15 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 2-20C	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		LS (cont.)			
	141			R.		
				R.		
	142			B.f		
	143					
	144		Base of Beech Creek - 144.7'			
	145		Eleven fm shale			
	146		Bot. Depth 145.7'			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO. 02C20

Hole No. WES-2-20C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-20C-88			Date well screen was set: 6/29/88
715.06			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			50.0 Bentonite			
			55.0 Sand			
			80.0			
			Bentonite Pellets			
			85.0			
						PVC Screen + Riser
			Filter Pack			
			134.7			
			Well Screen			
			144.7			
			Trap			
			145.7			
			145.7 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-1-20C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
7/4/92			Well No: WES-2-20CP2-88			Date well screen was set: 6/22/88
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			50.0			
			Bentonite Pellets			
			53.0			PVC Risor + screen
			Filter Pack			
			56.0			
			Well Screen			
			66.0			
			Trap			
			67.0			
			67.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

Hole No. WES-2-20C-88

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
7/14.78			Well No: WES-2-20CPB-88			Date well screen was set: 6/23/88
			+2.5'			
			0.0' Ground surface			
			Grout mixture			water level just Prior to setting screen –
			15.0			
			Bentonite Pellets			
			20.0			PVC Screen + Riser
			Filter Pack			
			28.0			
			Well Screen			
			38.0			
			Trap			
			39.0			
			39.0 Boring Depth			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT | HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION U.S. Navy	INSTALLATION NWSC, Crane In	SHEET 1 OF 9 SHEETS

1. PROJECT Hydrogeologic Studies DBG Site	10. SIZE AND TYPE OF BIT H 9 wireline
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY WES	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
5. NAME OF DRILLER Dan Taylor	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN 8.0'	16. DATE HOLE — STARTED 9/6/90 — COMPLETED 9/12/90
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE 167.8	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF ~~INSPECTOR~~ Geologist Richard W. Hunt

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty clay, y tan-Br, w/occ SS frags, soft-firm, moist-sli moist			0.0 to 8.0' Auger
	2			Auger		No Well Screen was set in this boring.
	4					
	6					
	8			8.0'		8" Pvc casing to 8.0' (Refusal)
	10		shly SS - sdy sh, th bd, vf, lGr w/ lim stn along jts mod hd (tough)	R.R B.t 11.1		
	12			Run 1		Started Coring w/ H 9 wireline at 11.1'
	14		(14.4')	7.9 / 9.0		
			SS, rusty Br, th bd, f-m, carb indus, hd, oxidized (15.8')	-1.1'		
	16		sdy sh - shly SS, m Gr, th bd, occ "slump shears", vf, bd dip 5 to 10°, hd.	-0.3		
	18					
	20			- - -		19.3' - Full depth

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		(Cont)	Run 2	20.1	
				3.7/2.9 (+0.8')		
	22		22.0			
			Shale, Blk, thbd-mass, hd, occ 1gr discont, vf ss pts, Carb.	23.0'		
				Run 3		
	24					
	26			10.0/10.0		(Core Seg ≅ 4' long)
	28					
	30					
	32			33.0'		
				Run 4		9/7/90
	34					
			- sdy, Conglomeritic, dark br			
	36			9.9/10.0		
				~~2.1~~		
	38					
	40					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-210-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-210-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		Sh (Cont.) (40.9)			
	42		Sandstone, lGr th bd, vf, (coarse + lgrBr in top 0.8') num dGr-Blk sh wavy pts + thin lam.	42.0' Run 5		42.9 Full depth
	44					
	46		Becomes more lam SS + Sh in bot half, see Carb indus.	10.1 / 10.0 (40.1')		
	48					
	50		Unconformity (51.2') (Hardinsburg fm)			PENN / MISS
	52		Shale, dGn, mass, crumbly, siderite nodules in top 2-3'	53.0 Run 6		
	54			1.6 / 2.5 -0.9 55.5		(9/8/90) Reamed hole & set 6" PVC Casing to 55.5'
	56		Changes to dgn Gr w/depth	Run 7		9/10/90
	58			5.5 / 7.5 -2.0		
	60					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

HOLE NO. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		(Cont.)			
			60.7			
			Shaley-silty SS, dGn + lGr ripply + swirling bd'ing, hd, vf			
	62					
				63.0		
				Run 8		
	64					
	66					
				9.9/10.0		
	68			-0.1		
			(69.4) grades to more of a vf sdy-silty sh, th lam dGn + dGr bd'ing but more hor than above; becomes more shly w/depth, mica present.			
	70					
	72					
				73.0		
				Run 9		
	74					
			(75.4) grades to Shale, dGr, th bd, fissile, micaceous, carb flakes, occ fossils			
	76			6.0/6.5		
				~~-0.5~~ -0.1		
	78					79.1' - Pull depth
				79.5		
	80			Run 10		9/11/90

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Sh (cont.)	3.9/3.5 +0.4		
	82		← 1/2" Ls lens			
			← 1/2" Ls lens	83.0		
				Run 11		
	84			2.9/3.0 -0.1		
			Ls lens			
	86			86.0		
				Run 12		
	88			5.8/7.0 -1.2		
	90					
	92		Base of Hardinsburg Fm 92.1 (Golconda) Ls, m Br, den 93.0	93.0		
			(Indian Spr ?)	Run 13		
	94		Shale, dG, th bd. fossiliferous, occ silty pts			
	96			8.1/9.8		Sh zones appears to be a blend of Golconda + Ind Spr w/ no apparent boundry.
	98		Ls lens	-1.7 -0.7		
			Carb traces in bot zone			
	100					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WFS-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WFS-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Sh (Cont.)			
				101.8		Pull depth
	102			102.8		
				Run 14		
	104					
				6.2 / 5.2		
	106			7.0		
			(Base of Ind sp) 107.3 (Top of Big Clifty SS)			
	108			108.0		
			Sandstone, olive tan, highly oxid + clayey in top 2', vf, th bd, shallow ripples, sli friable	Run 15		
	110			4.7 / 5.0		
				-0.3		
	112					
		o		113.0		
				Run 16		
	114	o				
	116			10.0 / 10.0		
	118	o				
	120					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		SS (cont.)			
		0				
	122					
		5		123.0		
				Run 17		
	124					
		0				
	126					
		0	1/2" clay	10.0 / 10.0		
	128	1/4	1/4" clay			
		0				
	130					
	132	0				
		0		133.0		
				Run 18		
		0				
	134					
		0				
			0 x 3			
		0				
	136			10.0 / 10.0		
	138					
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		SS (Cont.)			
	142		1/4" clay	143.0 Run 19		
	144					
	146		(Base of Big Cliffy fm) 146.5 (Top of Beech Creek Ls)			
	148		Limestone, l-mgr-Br, m-c crystalline-granular, mass, fossil, v hd, den, occ stylolites lim stn in top half.	9.9 / 10.0 -0/1		
	150		Tan clay coating			
	152		Jts are stn	153.0 Run 20		152.9 Pull depth
	154					
	156			10.1 / 10.0		
	158		Ls changes to d Gr w/occ wavy dGr shly pts.	+0/1		
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-21C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 9 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-21C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160	30, 20	LS (Cont			
	162	5	Tan clay filled	163.0		
				Run 21		
	164	20, 18, 60	dts - stn	3.7 / 4.8		Note: Hung Core bl in hole, Finally Broke of drill stem + core bl just above the Reaming shell. (left bitt Reaming shell in hole at ~ 155 to 160' depth).
	166	0	Base Beech Creek Ls (166.3') Top Ekman fm Shale, d Gn, crumbly	1.1		
				167.8		
	168		Bot. Hole - 167.8'			Did not set screen at this site. WT ____ in open hole ____ Later + after bailing.

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22-90

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane, In	SHEET OF 10 SHEETS
1. PROJECT Hydrogeologic Studies DBG site		10. SIZE AND TYPE OF BIT HO wireline	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY WES		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) WES-2-22-90		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER Dan Taylor		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED 9/15/90 / COMPLETED 10/15/90
7. THICKNESS OF OVERBURDEN 20.0'		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 190.0'		19. SIGNATURE OF INSPECTOR Richard W. Hunt	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Silty-sdy clay, y tan, Firm sli moist at top changing to dry w/depth			0.0 to 23.5 - Auger Set 8" PVC Casing to 23.5'
	2					
	4					
	6					
	8		Less to no sd below ~ 7.0' (Silty clay)			
	10					
	12					
	14					
	16					
	18					
	20					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	20		20.0' - Top of dGr Shale w/ yBr lim stn, th bd, soft			
	22					Reamed hole & set 23.5' of 8" PVC casing.
				23.5		
	24			Run 1		
	26					
			(26.2')	7.7 / 8.9		
	28		Shale (as above) but dGr, (no lim stn) th bd silty, carb, hd	(1.2)		
	30		(30.0')			
			Shale becomes interbedded w/ lGr silty ss pts, grading to mGr silty sh w/occ silty ss pts w/depth			
	32			32.11		
				Run 2		
	34					
	36			9.1 / 9.7		
	38			-0.6		
			38.2' Sandstone lBr, w/ abundant lim crusting in top 2', grading (coal)	-0.4		
	40					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	40		to lGr, vf-f th bd Sandstone w/occ wavy dGr shly pts, ~hor bd			
	42			42.1		41.9 - Pull depth
				Run 3		9/17/90
	44					
	46			10.2 / 10.2		
	48					Losing 30-40% water return
	50		No oxid below ~50'			
	52			52.3		52.1 - Pull depth
				Run 4		
	54					
	56			10.2 / 10.1		Losing ~40% water Return
	58			4 X.2		
	60					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE | PROJECT | HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60		SS (cont.)			
	62			62.3		
				Run 5		
	64		64.3			
			Sandstone, lGr, vF, laminated w/ dGr, wavy Sh pts, ~ hor bd.	6.2/6.3 -0.1		
	66					
	68		Unconformity	68.6		PENN
			(Hardinsburg Fm)	Run 6		MISS
	70		Shale dGn, mass, crumbly, dry, w/zones of dRed-maroon Sh/Claystone, hd.	4.7/4.7		Reamed hole & set 6" dia pvc casing to 73.1'.
	72			73.3		
				Run 7		9/22/90
	74					
	76			4.3/8.7 -4.4'		Core grinding away during drilling
	78					
	80					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT | HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 10 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) WES-2-22-9		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	80		Sh (Cont.)			
	82		(82.0)	82.0		
			Shale becomes dgn Gr, th bd + hard to soft	Run 8		
	84			3.0 / 5.8		
	86			(-2.8)		ground core away
				87.8		
	88		88.2	Run 9		
			Sandstone, m gr Br, hd den (calc)?, occ Sh pts			
	90		90.0	3.8 / 5.0		
			Shale d Gr, th bd, soft	-1.2		
	92			92.8		
				Run 10		
	94					
	96			8.2 / 9.4		
	98			-1.2		Ground core away getting out of bl
	100					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 11 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100		Sh (cont.)			
			Base of Haidinsburg (IN5) (Top of Gokonda Ls).			
	102		Limestone, lgr Gr, highly oxid in top ft, md, Crystalline, den	102.2 Run 11 1.9 / 2.1 -0.2 104.3		10/11/90 (Took a 2 week break in drill time)
	104		Base of Gokonda) 104.7 Top of Indian Spgs (Big cliffy fm)	Run 12		
			Shale, dGr, thn bd, fiss, carb flakes along bd.			
	106			4.2 / 4.7 -0.5		Losing ~ 30% water return
	108			109.0		Reamed hole + set 4" PVC Casing to 109.0'
				Run 13		10/13/90
	110			1.0 / 4.0 -3.0 -1.5 113.0		111.5 — Pull depth
	112			Run 14		
	114			4.5 / 3.0 +1.5 116.0		
	116			Run 15		
	118			6.4 / 7.0 -0.6		
	120					

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 7 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED / COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	120		Sh (Cont.)			
	122					
				123.0' Run 16		
	124			4.0/4.1		
	126			-0.1		
			(Base of In spec) (127.5' (Top Big Clifty SS)	127.1 Run 17		
	128		Sandstone, y-olive tan, mass, w/ ripples, vf, homo, sli fria, oxid.	5.7/5.9		
	130			-0.2		
	132			133.0 Run 18		
	134					
	136			10.0/10.0		
	138		Less oxid below 138.8'			Losing ~ 30% Ret.
	140					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 8 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	140		SS (cont.)			
	142					
				143.0 / Run 19		
	144					
	146					
				9.4 / 9.7		
	148					
				-0.3		
	150					
	152					
				152.7 / Run 20		
	154					
	156					
				10.0 / 10.0		
	158					
	160					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 9 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED — COMPLETED
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE
9. TOTAL DEPTH OF HOLE	18. TOTAL CORE RECOVERY FOR BORING %
	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	160		SS (Cont.)			
	162			162.7 / Run 21		
	164		(Base Big Clifty SS) 164.6 (Top Beech Creek Ls)			
	166		Limestone, lt-m gr Br. m. crystalline mass, hd. den, fossil, occ stylolites.			
	168			10.3 / 10.3		Losing ~ 40% return
	170					
	172			173.0 / Run 22		Flange 10/15/90
	174		175.4			
	176		Ls Changes to dGr, w/occ wavy dGr Shaley pts.	9.6 / 10.0		
	178			-0.4 -0.1		
	180					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET 10 OF 10 SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) WES-2-22C-90	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED — COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	180		LS (Cont.)			
	182					182.7 - Pull depth
				183.0 Run 23		
	184					
	186			6.2 / 7.0		Note: 0.3' of core loss from Run 22 is moved downward into sh zone in Run 23
			Base of Bedford Mbr. (186.7) (Top of Huron Fm)			
			Shale, d Gn, mass, hd, crumbly	-0.8 -1.1		
	188					
	190			190.0		
			Bot. Depth - 190.0'			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT HOLE NO.

Hole No. WES-2-22C-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-22C-90			Date well screen was set: 10/15/90
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen –
			123.0			
			Bentonite Pellets			
			126.0			4" Casing set in 109.0'
			Filter Pack			
			176.7			
			Well Screen			
			186.7			
			~~Trap~~			
			186.7'			
			190.0 Boring Depth			

Hole No. WES-2-22C-P2-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No.: WES-2-22CP2-90			Date well screen was set: ~ 10/17/90
			+2.5			
			0.0' Ground surface			
			Grout mixture			water level just Prior to setting Screen. –
			92.0			
			Bentonite Pellets			4" casing to 72.0'
			95.0			
			Filter Pack			
			100.0			
			Well Screen			
			105.0'			
			~~Trap~~			
			105.0' Boring Depth			

Hole No. WES-2-22CP3-90

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT	
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	
		16. DATE HOLE	STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Well No: WES-2-22CP3-90			Date well screen was set: ~10/18/90
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			35.0'			
			Bentonite Pellets			Set surface casing
			38.0			
			Filter Pack			
			58.6			
			Well Screen			
			68.6			
			~~Trap~~			
			68.6' Boring Depth			

IN5 170 023 498

Appendix D
Field Measurements from Groundwater Sampling, DBG

Field Measurements from Groundwater Sampling, Dye Burial Grounds

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmho)	Temp °C
02-01	03/22/91	33.05	21.00	2.0**	5.87	1790	13.1
	06/25/91	33.15	25.50	1.5**	6.58	1750	16.8
	11/14/91	33.00	20.65	2.0*	7.01	1700	14.1
	03/29/92	33.00	22.55	1.5*	8.85	1750	10.1
02-02	03/23/91	57.65	45.00	2.5*	6.65	1450	12.1
	06/25/91	57.50	45.60	2.0*	6.59	1600	19.3
	11/15/91	57.60	45.95	2.0*	7.38	1400	12.2
	03/30/92	57.60	47.85	1.5*	6.74	1500	12.6
02-03	03/23/91	68.30	43.60	12.5	6.23	800	11.8
	06/25/91	68.00	44.30	5.0*p	6.65	980	18.4
	11/15/91	68.00	45.70	6.0*	6.71	900	11.8
	03/30/92	68.00	44.85	6.0*	5.62	900	11.5
02-04	03/24/91	53.50	37.70	5.0*	5.64	1600	10.2
	06/06/91	53.50	38.40	4.0*	6.63	1950	14.8
	11/14/91	52.75	37.95	3.5*	6.13	1700	13.0
	03/30/92	52.75	39.05	2.0*	5.27	1690	12.0
02-05	03/21/91	68.60	56.10	3.5*	5.55	2600	12.7
	06/05/91	68.50	57.00	3.0*	6.54	2650	13.4
	11/14/91	68.30	56.90	3.0*	7.72	2650	12.7
	03/28/92	68.40	57.10	2.5*	6.36	2700	13.5
02-06	03/22/91	68.20	53.70	3.5*	6.09	3200	12.9
	06/25/91	68.25	53.80	3.0*	6.14	3490	20.7
	11/15/91	68.20	54.50	3.0*	6.58	3150	13.0
	03/29/92	68.20	54.55	3.0*	7.21	3050	11.5
02-07	03/22/91	60.00	46.05	3.0*	6.64	1850	11.9
	06/25/91	60.05	46.45	3.0*	6.50	2150	21.4
	11/15/91	59.55	46.95	3.0*	7.04	2000	12.6
	03/29/92	59.60	47.00	2.5*	6.62	2000	11.2
02-08	03/22/91	63.05	47.95	2.5*	6.51	2500	12.7
	06/25/91	63.00	48.40	2.5*	6.38	2750	20.3
	11/15/91	62.80	48.85	2.5*	6.34	2350	12.3
	03/29/92	62.80	48.90	2.0*	6.93	2300	11.3

* purged dry ** purged dry & no recharge p= pumped
NOTE: measurements taken from top of the well casing.

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmho)	Temp °C
02C09	03/21/91	184.30	170.03	4.0*	7.38	650	12.5
	06/05/91	184.35	170.30	4.0*	7.43	700	15.6
	11/14/91	181.00	170.30	2.0*	7.95	600	12.7
	03/28/92	181.50	170.40	2.0*	7.83	680	14.2
02C09P2	03/21/91	97.00	---	DRY	---	---	---
	06/05/91	96.85	---	DRY	---	---	---
	11/14/91	97.10	---	DRY	---	---	---
	03/28/92	97.10	---	DRY	---	---	---
02C10	03/21/91	156.20	146.85	5.0	7.51	1500	14.4
	06/01/91	156.15	146.60	5.0	7.40	1650	18.8
	11/13/91	156.15	146.50	2.5*	6.82	1510	13.4
	03/28/92	156.25	147.00	2.0*	6.95	1400	12.5
02C10P2	03/21/91	75.45	45.40	6.0*	6.50	980	18.7
	06/01/91	75.50	44.35	6.5*	7.16	900	15.2
	11/13/91	75.45	41.90	7.0*	6.34	950	13.1
	03/28/92	75.45	40.50	6.5*	6.54	820	12.4
02C10P3	03/21/91	40.55	24.48	8.0	5.41	420	16.9
	06/01/91	40.60	28.50	4.5*	5.93	340	12.4
	11/13/91	40.60	29.60	4.5*	5.41	300	14.8
	03/28/92	40.60	29.70	4.0*	6.89	258	13.0
02C11	03/23/91	164.40	149.55	4.0*	9.65	810	12.0
	06/04/91	164.13	149.47	4.0*	9.26	905	18.2
	11/14/91	164.10	149.55	4.0*	8.31	750	12.9
	03/30/92	164.15	149.50	4.0*	6.94	820	12.0
02C11P2	03/23/91	83.42	72.62	3.0*	6.75	810	12.0
	06/04/91	83.50	72.65	4.0*	6.93	850	13.2
	11/14/91	83.40	73.30	3.0*	6.27	890	12.7
	03/30/92	83.45	73.50	2.5*	6.58	900	12.0
02C11P3	03/23/91	45.85	35.20	5.5	4.16	1250	11.5
	06/04/91	45.85	36.25	3.5*	4.32	1300	14.9
	11/14/91	44.80	37.40	2.5*	4.69	1250	12.7
	03/30/92	44.75	37.75	2.5*	3.95	1200	11.7

* purged dry ** purged dry & no recharge p= pumped
NOTE: measurements taken from top of the well casing.

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmhos)	Temp °C
02C12	03/21/91	188.70	171.50	3.5**	12.17	5000	12.7
	06/05/91	188.70	171.50	3.0**	12.01	4870	12.4
	11/14/91	187.50	171.35	2.5*	13.31	3300	12.6
	03/28/92	187.75	171.55	2.0*	11.62	2100	13.1
02C12P2	03/21/91	106.35	83.58	5.5*	11.45	1100	12.6
	06/05/91	106.35	87.00	4.5*	10.73	900	12.6
	11/14/91	105.80	85.75	5.5*	11.37	810	12.7
	03/28/92	105.80	87.00	3.5*	10.42	820	13.4
02C12P3	03/21/91	37.70	22.20	7.5	6.71	2020	12.7
	06/05/91	37.65	22.40	7.5	6.46	2600	12.9
	11/14/91	37.60	21.80	8.0	7.54	2080	13.3
	03/28/92	37.65	23.40	5.0*p	7.68	2380	13.0
02C13	03/21/91	83.30	58.15	6.0*	8.75	419	12.2
	06/01/91	83.25	76.80	1.5*	8.45	510	17.9
	11/13/91	83.00	72.70	3.0*	7.56	450	12.9
	03/28/92	83.10	71.85	3.0*	6.55	425	14.2
02C13P2	03/21/91	49.40	39.45	5.0	6.25	1610	13.2
	06/01/91	49.50	39.50	3.0*	6.20	1650	23.4
	11/13/91	49.50	40.25	2.5*	6.97	1580	13.9
	03/28/92	49.50	40.55	2.5*	6.51	1500	13.2
02C13P3	03/21/91	23.80	10.40	4.0*	5.48	279	11.1
	06/01/91	23.75	10.15	3.0*	5.46	282	13.0
	11/13/91	23.70	12.65	2.5*	6.48	250	14.7
	03/28/92	23.70	12.55	2.5*	6.39	260	12.9
02C14	03/24/91	169.50	149.35	5.0*	7.63	600	11.0
	06/06/91	169.45	149.60	5.0*	8.96	600	16.0
	11/14/91	169.00	149.15	5.5*	8.70	600	13.7
	03/30/92	169.10	149.20	5.0*	9.16	500	11.7
02C14P2	03/24/91	85.55	53.55	9.0*	11.27	1000	10.9
	06/06/91	85.55	51.10	8.0*	10.55	1000	14.5
	11/14/91	84.35	49.45	9.5*	11.47	1000	12.9
	03/30/92	84.30	49.75	9.0*	10.50	900	11.5

* purged dry ** purged dry & no recharge p= pumped
NOTE: measurements taken from top of the well casing.

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmhos)	Temp °C
02C14P3	03/24/91	51.75	36.20	7.5	5.89	1600	10.7
	06/06/91	51.65	37.05	6.0	5.66	1550	14.9
	11/14/91	50.90	37.45	6.5	7.26	1450	12.9
	03/30/92	50.90	37.50	5.0*	6.87	1250	11.7
02C15	03/23/91	80.90	71.00	1.5*	7.96	600	13.0
	06/25/91	80.50	78.55	0.5*	5.67	700	18.4
	11/15/91	79.65	78.75	DRY	---	---	---
	03/30/92	79.65	78.95	DRY	---	---	---
02C15P2	03/23/91	44.40	33.90	2.5*	6.82	800	12.5
	06/25/91	44.00	34.60	2.0*	5.87	750	15.9
	11/15/91	43.85	35.45	2.0*	7.58	740	12.4
	03/30/92	43.90	35.75	2.0*	4.68	600	11.2
02C16	03/23/91	92.50	85.15	1.3*	8.85	520	13.3
	06/25/91	92.50	86.55	1.0*	8.58	420	17.6
	11/15/91	92.00	85.50	1.5*	8.33	490	12.4
	03/30/92	92.20	86.15	1.0*	7.12	600	11.6
02C16P2	03/23/91	56.95	42.10	7.5	5.38	550	13.1
	06/25/91	56.50	42.75	6.5	6.39	490	15.8
	11/15/91	55.95	43.15	6.0	6.21	465	12.5
	03/30/92	55.95	43.05	3.5*	5.51	440	12.1
02C17	03/23/91	99.93	89.43	5.0	5.84	650	12.0
	06/25/91	99.80	88.55	5.5	6.23	710	17.4
	11/15/91	98.90	89.35	4.5	8.06	600	12.6
	03/29/92	98.90	89.15	4.5	6.97	550	10.8
02C17P2	03/23/91	63.50	48.45	7.5	6.60	2380	12.4
	06/25/91	63.55	48.45	7.5	6.55	2650	20.5
	11/15/91	62.90	49.05	6.5	6.39	2310	12.6
	03/29/92	62.90	49.10	6.5	6.28	2300	11.3
02C17P3	03/23/91	29.55	---	DRY	---	---	---
	06/25/91	29.55	---	DRY	---	---	---
	11/15/91	29.55	---	DRY	---	---	---
	03/29/92	29.55	---	DRY	---	---	---

* purged dry ** purged dry & no recharge
NOTE: measurements taken from top of the well casing.

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmhos)	Temp °C
02C18	03/22/91	102.30	89.00	3.5*	7.12	600	12.6
	06/25/91	102.00	89.55	2.5*	7.11	750	22.0
	11/15/91	101.35	89.65	3.0*	7.33	700	12.7
	03/29/92	101.40	89.25	3.0*	7.20	710	10.8
02C18P2	03/22/91	64.00	52.20	6.0	6.30	1750	13.3
	06/25/91	64.00	52.45	6.0	6.24	1820	16.9
	11/15/91	63.55	53.05	5.0	6.84	1700	12.6
	03/29/92	63.55	53.10	5.0	6.96	1650	11.2
02C18P3	03/22/91	21.70	---	DRY	---	---	---
	06/25/91	21.70	---	DRY	---	---	---
	11/15/91	21.70	---	DRY	---	---	---
	03/29/92	21.70	---	DRY	---	---	---
02C19	03/23/91	93.80	86.67	2.0*	8.09	452	13.5
	06/25/91	94.05	89.55	1.0*	7.80	490	19.0
	11/15/91	93.95	88.85	1.0*	7.83	435	12.7
	03/29/92	93.95	90.00	0.5*	7.15	500	11.6
02C19P2	03/23/91	59.35	47.95	6.0	5.79	999	12.7
	06/25/91	59.25	48.50	5.5	6.29	1200	18.5
	11/15/91	59.00	49.10	3.0*	5.97	1090	12.4
	03/29/92	59.00	49.20	2.5*	6.85	1000	11.5
02C19P3	03/23/91	19.60	---	DRY	---	---	---
	06/25/91	19.60	---	DRY	---	---	---
	11/15/91	19.60	---	DRY	---	---	---
	03/29/92	19.60	---	DRY	---	---	---
02C20	03/21/91	148.00	137.50	3.0**	6.95	880	13.0
	06/01/91	148.20	139.35	1.5**	7.13	900	13.8
	11/13/91	148.00	139.45	2.0*	7.58	800	13.5
	03/28/92	148.00	140.75	1.5*	8.52	950	13.7
02C20P2	03/21/91	69.60	58.40	3.0**	10.50	540	17.2
	06/01/91	69.65	58.55	2.5**	10.17	555	17.8
	11/13/91	69.50	58.75	2.5*	10.28	520	12.7
	03/28/92	69.50	58.50	2.0*	8.36	455	13.9

* purged dry ** purged dry & no recharge
NOTE: measurements taken from top of the well casing.

Well Number	Sample Date	Well Depth (ft)	Water Level (ft)	Volume Purged (gals)	pH	Cond. (μmhos)	Temp °C
02C20P3	03/21/91	41.55	16.50	13.0	6.81	2150	20.3
	06/01/91	41.50	16.35	5.0*p	6.75	1850	15.1
	11/13/91	41.00	18.50	13.0	7.48	1920	13.5
	03/28/92	41.25	18.90	13.0p	6.66	1950	16.0
02C22	03/24/91	183.50	---	DRY	---	---	---
	06/25/91	183.50	---	DRY	---	---	---
	11/15/91	183.50	---	DRY	---	---	---
	03/30/92	183.50	---	DRY	---	---	---
02C22P2	03/24/91	108.25	88.45	10.0	8.64	140	11.7
	06/25/91	108.05	106.35	DRY	7.74	390	18.5
	11/15/91	107.15	106.35	DRY	10.57	430	12.5
	03/30/92	108.20	97.25	1.5*	7.19	205	11.1
02C22P3	03/24/91	71.60	57.20	7.0	5.28	2280	11.0
	06/25/91	71.40	57.10	5.0*	5.94	2490	15.3
	11/15/91	70.10	57.55	4.0*	6.21	2300	12.7
	03/30/92	70.20	57.50	3.5*	4.53	2200	11.8

* purged dry p=pumped
NOTE: measurements taken from top of the well casing.

IN5 170 023 498

Appendix E
Data Validation Results for Rounds 1 Through 4

Round 1

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09519	10668		10669	10670	10671		10672	10673
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/16/91	04/13/91		04/13/91	04/13/91	04/13/91		04/13/91	04/13/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	<0.010U	0.0011BJ	Not Sampled	0.0019BJ	0.0029BJ	0.0014BJ	No Sample	0.0019J	<0.010U
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dimethyl Phthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09519	10668		10669	10670	10671		10672	10673
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/16/91	04/13/91		04/13/91	04/13/91	04/13/91		04/13/91	04/13/91
BNA	MCL									
Phenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Pyrene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10674	10576		10577	10578	10579		10675	10676
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	04/12/91		04/12/91	04/12/91	04/12/91		04/13/91	04/13/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	<0.010U	0.0068BJ	Not Sampled	0.0073BJ	0.0042BJ	0.0020BJ	No Sample	0.0017J	0.0097J
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Dimethyl Phthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10674	10576		10577	10578	10579		10675	10676
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	04/12/91		04/12/91	04/12/91	04/12/91		04/13/91	04/13/91
BNA	MCL									
Phenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	3/22/91	<0.010U	No Sample	<0.010U	<0.010U
Pyrene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	No Sample	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10580	10581	10582	10583	10584	10677		10678
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		04/12/91	04/12/91	04/12/91	04/12/91	04/12/91	04/13/91		04/13/91
BNA	MCL									
Acenaphthene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Acenaphthylene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Aniline	---	No Sample	<0.020U	<0.020U	<0.036U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
Anthracene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzidine	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
Benzoic Acid	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzo(G,H,I)Perylene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Benzyl Alcohol	---	No Sample	<0.020U	<0.020U	<0.036U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0038BJ	0.0016BJ	0.0079BJ	0.0016BJ	0.0023BJ	0.0067J	No Sample	0.0021J
Butylbenzylphthalate	0.1(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Chrysene	0.0002(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Dibenzofuran	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Dibutylphthalate	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Diethyl Phthalate	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Dimethyl Phthalate	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Di-N-Octylphthalate	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Fluoranthene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Fluorene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Hexachlorobenzene	0.001(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Hexachlorobutadiene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Hexachloroethane	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Isophorone	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Naphthalene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Nitrobenzene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
N-Nitrosodimethylamine	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
N-Nitrosodiphenyl Amine	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Pentachlorophenol	0.001(F)	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
Phenanthrene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10580	10581	10582	10583	10584	10677		10678
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		04/12/91	04/12/91	04/12/91	04/12/91	04/12/91	04/13/91		04/13/91
BNA	MCL									
Phenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
Pyrene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
1,2-Diphenylhydrazine	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
1,3-Dichlorobenzene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
1,4-Dichlorobenzene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2-Chloronaphthalene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2-Chlorophenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
2-Methylnaphthalene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2-Methylphenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2-Nitroaniline	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
2-Nitrophenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,4-Dichlorophenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,4-Dimethylphenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,4-Dinitrophenol	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
2,4-Dinitrotoluene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,4,5-Trichlorophenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,4,6-Trichlorophenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
2,6-Dinitrotoluene	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
3-Nitroaniline	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
3,3'Dichlorobenzidine	---	No Sample	<0.020U	<0.020U	<0.036U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
4-Bromophenyl Ether	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
4-Chloro-3-Methylphenol	---	No Sample	<0.020U	<0.020U	<0.036U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
4-Chloroaniline	---	No Sample	<0.020U	<0.020U	<0.036U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
4-Methylphenol	---	No Sample	<0.010U	<0.010U	<0.018U	<0.010U	<0.010U	<0.010U	No Sample	<0.010U
4-Nitroaniline	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
4-Nitrophenol	---	No Sample	<0.050U	<0.050U	<0.090U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10679		10680	10681	10682			10683
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		04/13/91		04/13/91	04/13/91	04/13/91			04/13/91
BNA	MCL									
Acenaphthene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Acenaphthylene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Aniline	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
Anthracene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzidine	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
Benzoic Acid	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzo(G,H,I)Perylene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Benzyl Alcohol	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0027J	No Sample	0.0035J	0.0039J	0.0044J	Not Sampled	No Sample	0.0081J
Butylbenzylphthalate	0.1(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Chrysene	0.0002(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Dibenzofuran	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Dibutylphthalate	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Diethyl Phthalate	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Dimethyl Phthalate	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Di-N-Octylphthalate	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Fluoranthene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Fluorene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Hexachlorobenzene	0.001(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Hexachlorobutadiene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Hexachloroethane	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Isophorone	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Naphthalene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Nitrobenzene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
N-Nitrosodimethylamine	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
N-Nitrosodiphenyl Amine	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Pentachlorophenol	0.001(F)	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
Phenanthrene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10679		10680	10681	10682			10683
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		04/13/91		04/13/91	04/13/91	04/13/91			04/13/91
BNA	MCL									
Phenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
Pyrene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
1,2-Diphenylhydrazine	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
1,3-Dichlorobenzene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
1,4-Dichlorobenzene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2-Chloronaphthalene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2-Chlorophenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
2-Methylnaphthalene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2-Methylphenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2-Nitroaniline	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
2-Nitrophenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,4-Dichlorophenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,4-Dimethylphenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,4-Dinitrophenol	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
2,4-Dinitrotoluene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,4,5-Trichlorophenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,4,6-Trichlorophenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
2,6-Dinitrotoluene	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
3-Nitroaniline	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
3,3'Dichlorobenzidine	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
4-Bromophenyl Ether	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
4-Chloro-3-Methylphenol	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
4-Chloroaniline	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
4-Methylphenol	---	No Sample	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U
4-Nitroaniline	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
4-Nitrophenol	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10684				10686		10685
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			04/13/91				04/12/91		04/13/91
BNA	MCL									
Acenaphthene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Acenaphthylene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Aniline	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	No Sample	<0.020U	Not Sampled	<0.020U
Anthracene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzidine	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
Benzoic Acid	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
Benzo(a)Anthracene	0.0001(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzo(a)Pyrene	0.0002(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzo(G,H,I)Perylene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Benzyl Alcohol	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	No Sample	<0.020U	Not Sampled	<0.020U
Bis(2-Chloroethoxy)Methane	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Bis(2-Chloroethyl)Ether	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Bis(2-Chloroisopropyl)Ether	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	Not Sampled	No Sample	0.0062J	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	0.0061J
Butylbenzylphthalate	0.1(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Chrysene	0.0002(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Dibenzofuran	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Dibutylphthalate	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Diethyl Phthalate	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Dimethyl Phthalate	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Di-N-Octylphthalate	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Fluoranthene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Fluorene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Hexachlorobenzene	0.001(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Hexachlorobutadiene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Hexachlorocyclopentadiene	0.05(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Hexachloroethane	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Isophorone	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Naphthalene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Nitrobenzene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
N-Nitrosodimethylamine	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
N-Nitroso-Di-N-Propylamine	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
N-Nitrosodiphenyl Amine	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Pentachlorophenol	0.001(F)	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
Phenanthrene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10684				10686		10685
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			04/13/91				04/12/91		04/13/91
BNA	MCL									
Phenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
Pyrene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
1,2-Dichlorobenzene	0.6(L)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
1,2-Diphenylhydrazine	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
1,3-Dichlorobenzene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
1,4-Dichlorobenzene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2-Chloronaphthalene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2-Chlorophenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2-Methyl-4,6-Dinotrophenol	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
2-Methylnaphthalene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2-Methylphenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2-Nitroaniline	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
2-Nitrophenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,4-Dichlorophenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,4-Dimethylphenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,4-Dinitrophenol	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
2,4-Dinitrotoluene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,4,5-Trichlorophenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,4,6-Trichlorophenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
2,6-Dinitrotoluene	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
3-Nitroaniline	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
3,3'Dichlorobenzidine	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	No Sample	<0.020U	Not Sampled	<0.020U
4-Bromophenyl Ether	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
4-Chloro-3-Methylphenol	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	No Sample	<0.020U	Not Sampled	<0.020U
4-Chloroaniline	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	No Sample	<0.020U	Not Sampled	<0.020U
4-Chlorophenyl Phenyl Ether	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
4-Methylphenol	---	Not Sampled	No Sample	<0.010U	Not Sampled	No Sample	No Sample	<0.010U	Not Sampled	<0.010U
4-Nitroaniline	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U
4-Nitrophenol	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	No Sample	<0.050U	Not Sampled	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C22P3
	Lab Sample No:	10686
	Date Sampled:	03/23/91
	Date Analyzed:	04/13/91
BNA	MCL	
Acenaphthene	---	<0.010U
Acenaphthylene	---	<0.010U
Aniline	---	<0.020U
Anthracene	---	<0.010U
Benzidine	---	<0.050U
Benzoic Acid	---	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U
Benzyl Alcohol	---	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010B
Butylbenzylphthalate	0.1(P)	<0.010U
Chrysene	0.0002(P)	<0.010U
Dibenzofuran	---	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U
Dibutylphthalate	---	<0.010U
Diethyl Phthalate	---	<0.010U
Dimethyl Phthalate	---	<0.010U
Di-N-Octylphthalate	---	<0.010U
Fluoranthene	---	<0.010U
Fluorene	---	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U
Hexachlorobutadiene	---	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U
Hexachloroethane	---	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U
Isophorone	---	<0.010U
Naphthalene	---	<0.010U
Nitrobenzene	---	<0.010U
N-Nitrosodimethylamine	---	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U
Pentachlorophenol	0.001(F)	<0.050U
Phenanthrene	---	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C22P3
	Lab Sample No:	10886
	Date Sampled:	03/23/91
	Date Analyzed:	04/13/91
BNA	MCL	
Phenol	---	<0.010U
Pyrene	---	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U
1,2-Diphenylhydrazine	---	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U
1,3-Dichlorobenzene	---	<0.010U
1,4-Dichlorobenzene	---	<0.010U
2-Chloronaphthalene	---	<0.010U
2-Chlorophenol	---	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U
2-Methylnaphthalene	---	<0.010U
2-Methylphenol	---	<0.010U
2-Nitroaniline	---	<0.050U
2-Nitrophenol	---	<0.010U
2,4-Dichlorophenol	---	<0.010U
2,4-Dimethylphenol	---	<0.010U
2,4-Dinitrophenol	---	<0.050U
2,4-Dinitrotoluene	---	<0.010U
2,4,5-Trichlorophenol	---	<0.010U
2,4,6-Trichlorophenol	---	<0.010U
2,6-Dinitrotoluene	---	<0.010U
3-Nitroaniline	---	<0.050U
3,3'Dichlorobenzidine	---	<0.020U
4-Bromophenyl Ether	---	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U
4-Chloroaniline	---	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U
4-Methylphenol	---	<0.010U
4-Nitroaniline	---	<0.050U
4-Nitrophenol	---	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09509	10649		10650	10651	10652		10653	10654
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	3/23/91
	Date Analyzed:	03/13/91	03/28/91		03/28/91	03/28/91	03/28/91		03/28/91	
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10655	10565		10566	10567	10568		10656	10657
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	03/28/91	03/27/91		03/27/91	03/27/91	03/27/91		03/28/91	03/28/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	No Sample	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10569	10570	10571	10572	10573	10658		10659
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		03/27/91	03/27/91	03/27/91	03/27/91	03/27/91	03/28/91		03/28/91
EXPLOSIVES	MCL									
DNB	---	No Sample	<0.020U	<0..020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
HMX	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
RDX	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
TETRYL	---	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	No Sample	<0.050U
TNB	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
TNT	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U
2,4-DNT	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	No Sample	<0.020U

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10660		10661	10662	10663			10664
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		03/28/91		03/28/91	03/28/91	03/28/91			03/28/91
EXPLOSIVES	MCL									
DNB	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
HMX	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
RDX	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
TETRYL	---	No Sample	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U
TNB	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
TNT	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U
2,4-DNT	---	No Sample	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10665			10574	10575		10666
	Date Sampled:			03/23/91			03/22/91	03/22/91		03/23/91
	Date Analyzed:			03/28/91			03/27/91	03/27/91		03/28/91
EXPLOSIVES	MCL									
DNB	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U
HMX	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U
RDX	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U
TETRYL	---	Not Sampled	No Sample	<0.050U	Not Sampled	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U
TNB	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U
TNT	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U
2,4-DNT	---	Not Sampled	No Sample	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U

Analyte	Well No:	02C22P3
	Lab Sample No:	10667
	Date Sampled:	03/23/91
	Date Analyzed:	03/28/91
EXPLOSIVES	MCL	
DNB	---	<0.020U
HMX	---	<0.020U
RDX	---	<0.020U
TETRYL	---	<0.050U
TNB	---	<0.020U
TNT	---	<0.020U
2,4-DNT	---	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09539	10706		10707	10708	10709		10710	10711
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/31/91	06/07/91		06/07/91	06/07/91	06/07/91		06/07/91	06/07/91
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	0.00020J	Not Sampled	0.000022J	0.00017J	<0.012U	No Sample	<0.012U	0.000019J
2,4,5-T	---	<0.0019U	0.00019BJ	Not Sampled	0.000049BJ	0.00018BJ	0.000055BJ	No Sample	0.00011BJ	0.00028BJ
2,4,5-TP	0.05(F)	<0.0017U	0.00072BJ	Not Sampled	0.00060BJ	0.00069BJ	0.00056BJ	No Sample	0.00059BJ	0.00065BJ
Dinoseb	0.007(P)	<0.00068U	<0.00069U	Not Sampled	0.000031J	0.000013J	<0.00071U	No Sample	<0.00068U	<0.00067U

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09570	10750		10751	10752	10753		10754	10755
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Anal. (Cn):	03/26/91	04/03/91		03/29/91	03/29/91	03/29/91		03/29/91	03/29/91
	Date Anal. (S):	03/19/91	03/29/91		04/03/91	04/03/91	04/03/91		04/03/91	04/03/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	No Sample	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	No Sample	<0.020U	<0.020U

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10712			10596	10597	10598		10713	10714
	Date Sampled:	03/23/91			03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	06/07/91			06/06/91	06/06/91	06/06/91		06/06/91	06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	No Sample	Not Sampled	0.00019J	<0.012U	<0.012U	No Sample	<0.012U	0.000046BJ
2,4,5-T	---	0.00014BJ	No Sample	Not Sampled	0.00013BJ	0.00011BJ	0.000097BJ	No Sample	0.000060BJ	0.000039J
2,4,5-TP	0.05(F)	0.00060BJ	No Sample	Not Sampled	0.00071BJ	0.00057BJ	0.00021BJ	No Sample	0.00057BJ	0.00039BJ
Dinoseb	0.007(P)	<0.00072U	No Sample	Not Sampled	0.00011J	<0.00067U	<0.00069U	No Sample	<0.00069U	0.000004BJ

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10756	10615		10616	10617	10618	10757	10758	10759
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Anal. (Cn):	04/03/91	04/03/91		04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91
	Date Anal. (S):	03/29/91	03/26/91		03/26/91	03/26/91	03/26/91	03/29/91	03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10599	10600		10601	10602	10715		10716
	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		06/06/91	06/06/91		06/06/91	06/06/91	06/06/91		06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	No Sample	0.00025J	<0.012U	No Sample	0.00013J	<0.012U	0.000051BJ	No Sample	<0.012U
2,4,5-T	---	No Sample	0.00014BJ	0.00012BJ	No Sample	0.00013BJ	0.000017BJ	0.00027J	No Sample	0.00020J
2,4,5-TP	0.05(F)	No Sample	0.00076BJ	0.00020BJ	No Sample	0.00066BJ	0.00055BJ	0.0035BJ	No Sample	0.00056BJ
Dinoseb	0.007(P)	No Sample	0.000028J	0.000004J	No Sample	<0.00078U	<0.00070U	0.000039BJ	No Sample	0.000002BJ

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10619	10620	10621	10622	10623	10760	10761	10762
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Anal. (Cn):		04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91
	Date Anal. (S):		03/26/91	03/26/91	03/26/91	03/26/91	03/26/91	03/29/91	03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	No Sample	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10717		10718	10719	10720			10721
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		06/06/91		06/06/91	06/06/91	06/06/91			06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	No Sample	0.000002BJ	No Sample	0.00023BJ	0.000001BJ	<0.012U	Not Sampled	No Sample	0.000056BJ
2,4,5-T	---	No Sample	0.000034J	No Sample	0.000022J	0.000013J	0.000004J	Not Sampled	No Sample	<0.0020U
2,4,5-TP	0.05(F)	No Sample	0.00043BJ	No Sample	0.00048BJ	0.00043BJ	0.00041BJ	Not Sampled	No Sample	0.00031BJ
Dinoseb	0.007(P)	No Sample	<0.00067U	No Sample	0.000021BJ	0.000004BJ	<0.00069U	Not Sampled	No Sample	0.000020BJ

	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10763	10764	10765	10766	10767	10768		10769	10770
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Anal. (Cn):	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91		04/03/91	04/03/91
	Date Anal. (S):	03/29/91	03/29/91	03/29/91	03/29/91	03/29/91	03/29/91		03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	0.025	<0.020U

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10722				10603		10723
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			06/06/91				06/06/91		06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	Not Sampled	No Sample	0.00018BJ	Not Sampled	No Sample	No Sample	<0.012U	Not Sampled	0.000020BJ
2,4,5-T	---	Not Sampled	No Sample	0.000022J	Not Sampled	No Sample	No Sample	0.000024BJ	Not Sampled	0.00011J
2,4,5-TP	0.05(F)	Not Sampled	No Sample	0.00037BJ	Not Sampled	No Sample	No Sample	0.00052BJ	Not Sampled	0.00046BJ
Dinoseb	0.007(P)	Not Sampled	No Sample	0.000066BJ	Not Sampled	No Sample	No Sample	0.000032J	Not Sampled	0.00071BJ

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10770	10772			10624	10625		10773
	Date Sampled:		03/23/91	03/23/91			03/22/91	03/22/91		03/23/91
	Date Anal. (Cn):		04/03/91	04/03/91			04/03/91	04/03/91		04/03/91
	Date Anal. (S):		03/29/91	03/29/91			03/26/91	03/26/91		03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Sulfide	---	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U

Analyte		
	Well No:	02C22P3
	Lab Sample No:	10724
	Date Sampled:	03/23/91
	Date Analyzed:	06/06/91
HERBICIDES	MCL	
2,4-D	0.07(F)	0.000061BJ
2,4,5-T	---	0.000006J
2,4,5-TP	0.05(F)	0.00043BJ
Dinoseb	0.007(P)	<0.00068U

	Well No:	02C22P3
	Lab Sample No:	10774
	Date Sampled:	03/23/91
	Date Anal. (Cn):	04/03/91
	Date Anal. (S):	03/29/91
CYANIDE and SULFIDE	MCL	
Cyanide	0.2(P)	<0.005U
Sulfide	---	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09560	10725		10726	10727	10728		10729	10730
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	06/21/91		06/21/91	06/21/91	06/21/91		06/21/91	06/21/91
METALS	MCL									
Aluminum	---	<0.010U	0.170B	Not Sampled	<0.010U	<0.010U	4.63	No Sample	0.356	<0.010U
Antimony	0.01(P)	<0.0030U	<0.0030U	Not Sampled	<0.0030UW	0.0123B	0.0030B	No Sample	<0.0030U	0.0032B
Arsenic	0.05(F)	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	No Sample	<0.0020U	<0.0020U
Barium	2.0(F)	<0.010U	<0.010U	Not Sampled	0.016B	0.015B	<0.010U	No Sample	<0.010U	<0.010U
Beryllium	0.001(P)	<0.002U	<0.001U	Not Sampled	<0.001U	<0.001U	<0.001U	No Sample	<0.001U	<0.001U
Cadmium	0.005(F)	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	No Sample	<0.004U	<0.004U
Calcium	---	<0.050U	15.5	Not Sampled	318	172	331	No Sample	577	363
Chromium	0.1(F)	<0.012U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	No Sample	<0.005U	<0.005U
Cobalt	---	<0.005U	0.015B	Not Sampled	0.036B	0.024B	0.327	No Sample	0.638	0.039B
Copper	1.3(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	No Sample	<0.005U	<0.005U
Iron	---	<0.010U	<0.010U	Not Sampled	0.343	0.013B	0.583	No Sample	0.526	0.017B
Lead	0.015(F)	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	No Sample	<0.0010U	<0.0010U
Magnesium	---	<0.130U	2.87B	Not Sampled	80.2	47.2	109	No Sample	333	115
Manganese	---	<0.005U	<0.005U	Not Sampled	3.55	0.318	3.49	No Sample	14.8	<0.005U
Mercury	0.002(F)	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	No Sample	<0.0002U	<0.0002U
Nickel	0.1(P)	<0.005U	<0.005U	Not Sampled	0.034B	<0.005U	1.15	No Sample	1.67	<0.005U
Potassium	---	<2.50	<1.00U	Not Sampled	4.21B	3.39B	5.22	No Sample	5.70	2.31B
Selenium	0.05(F)	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	No Sample	0.0022B	0.0043B
Silver	---	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	No Sample	<0.0010U	<0.0010U
Sodium	---	0.065B	4.41B	Not Sampled	32.4	14.1	45.2	No Sample	71.5	53.9
Thallium	0.002(P)	<0.0020U	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	No Sample	<0.0020UW	<0.0020UW
Tin	---	<0.025U	<0.035U	Not Sampled	<0.035U	<0.035U	<0.035U	No Sample	<0.035U	<0.035U
Vanadium	---	<0.020U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	No Sample	<0.005U	<0.005U
Zinc	---	0.006B	<0.006U	Not Sampled	<0.006U	<0.006U	0.755	No Sample	1.17	<0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10731	10604		10605	10606	10607	10732	10733	10734
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	06/21/91	06/11/91		06/11/91	06/11/91	06/11/91	06/21/91	06/21/91	06/21/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	Not Sampled	<0.010U	0.093B	<0.010U	<0.010U	0.039B	29.5
Antimony	0.01(P)	0.0116B	0.0187B	Not Sampled	0.0113B	0.0142B	0.0042B	0.0216B	0.0099B	0.0123B
Arsenic	0.05(F)	<0.0020U	0.0023B	Not Sampled	0.0114B	0.0022B	<0.0020U	0.0126	<0.0020U	<0.0020U
Barium	2.0(F)	<0.010U	0.028B	Not Sampled	<0.010U	0.037B	0.019B	0.033B	0.025B	<0.010U
Beryllium	0.001(P)	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	0.005
Cadmium	0.005(F)	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	0.005
Calcium	---	496	63.7	Not Sampled	83.8	125	27.7	6.99	163	186
Chromium	0.1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Cobalt	---	0.048B	<0.006U	Not Sampled	<0.006U	<0.006U	<0.006U	0.028B	0.051	0.442
Copper	1.3(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.010B
Iron	---	0.055B	0.024B	Not Sampled	0.023B	0.671B	0.350	0.044B	0.022B	4.70
Lead	0.015(F)	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	0.0036B	<0.0010U	0.0160
Magnesium	---	162	50.4	Not Sampled	65.2	83.5	209	1.68B	27.7	68.2
Manganese	---	1.22	0.017	Not Sampled	0.020	0.179	1.47	<0.005U	0.415	1.92
Mercury	0.002(F)	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	0.057	0.005B	Not Sampled	0.005B	<0.005U	<0.005U	<0.005U	0.139	0.944
Potassium	---	3.17B	7.70	Not Sampled	10.2	8.48	<1.00U	72.8	5.55	4.55B
Selenium	0.05(F)	0.0029B	0.0023B	Not Sampled	0.0032B	<0.0020U	<0.0020U	0.0069B	<0.0020U	<0.0020U
Silver	---	<0.0010U	<0.0010UW	Not Sampled	<0.0010U	<0.0010UW	<0.0010UW	<0.0010UW	<0.0010UW	<0.0010U
Sodium	---	63.3	69.6	Not Sampled	266	24.1	27.4	194	41.9	49.7
Thallium	0.002(P)	<0.0020UW	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW
Tin	---	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U
Vanadium	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Zinc	---	0.070	<0.006U	Not Sampled	<0.006U	<0.006U	0.027	<0.006U	0.178	1.78

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10608	10609		10610	10611	10735	10736	10737
	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:		06/11/91	06/11/91		06/11/91	06/11/91	06/21/91	06/21/91	06/21/91
METALS	MCL									
Aluminum	---	No Sample	0.018B	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Antimony	0.01(P)	No Sample	0.0070B	0.0137B	No Sample	0.0063B	0.0030B	0.0041B	0.0233B	0.0128B
Arsenic	0.05(F)	No Sample	<0.0020U	<0.0020U	No Sample	<0.0020U	<0.0020U	0.0052B	<0.0020U	<0.0020U
Barium	2.0(F)	No Sample	0.050B	0.017B	No Sample	0.029B	0.020B	0.013B	0.043B	<0.010U
Beryllium	0.001(P)	No Sample	<0.001U	<0.001U	No Sample	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U
Cadmium	0.005(F)	No Sample	<0.004U	<0.004U	No Sample	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U
Calcium	---	No Sample	127	251	No Sample	263	13.9	37.7	236	24.1
Chromium	0.1(F)	No Sample	<0.005U	<0.005U	No Sample	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Cobalt	---	No Sample	0.012B	0.006B	No Sample	0.028B	<0.006U	0.026B	0.029B	0.019B
Copper	1.3(F)	No Sample	<0.005U	<0.005U	No Sample	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Iron	---	No Sample	0.010B	0.070B	No Sample	1.08	0.172	<0.010U	<0.010U	<0.010U
Lead	0.015(F)	No Sample	<0.0010U	<0.0010UW	No Sample	<0.0010UW	<0.0010U	<0.0010U	0.0020B	0.0010B
Magnesium	---	No Sample	<0.150U	194	No Sample	177	10.1	45.0	0.452B	7.83
Manganese	---	No Sample	<0.005U	1.35	No Sample	2.25	0.265	<0.005U	<0.005U	0.074
Mercury	0.002(F)	No Sample	<0.0002U	<0.0002U	No Sample	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	No Sample	<0.005U	0.011B	No Sample	0.029B	0.006B	<0.005U	<0.005U	<0.005U
Potassium	---	No Sample	8.54	25.5	No Sample	7.49	<1.00U	12.3	12.3	<1.00U
Selenium	0.05(F)	No Sample	<0.0020U	<0.0020U	No Sample	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Silver	---	No Sample	<0.0010UW	<0.0010UW	No Sample	<0.0010UW	<0.0010UW	<0.0010U	<0.0010U	<0.0010U
Sodium	---	No Sample	89.5	174	No Sample	80.0	33.2	74.1	22.9	8.54
Thallium	0.002(P)	No Sample	<0.0020UW	<0.0020UW	No Sample	<0.0020UW	<0.0020UW	<0.0020UW	<0.0080UW	<0.0020UW
Tin	---	No Sample	<0.035U	<0.035U	No Sample	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U
Vanadium	---	No Sample	<0.005U	<0.005U	No Sample	<0.005U	<0.005U	<0.005U	0.007B	<0.005U
Zinc	---	No Sample	<0.006U	0.007B	No Sample	<0.006U	<0.006U	<0.006U	<0.006U	<0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10738	10739	10740	10741	10742	10743		10744	10745
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	06/21/91	06/21/91	06/21/91	06/21/91	06/21/91	06/21/91		06/21/91	06/21/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	<0.010U	0.703	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Antimony	0.01(P)	0.0207B	0.0041B	0.0103B	0.0127B	0.0036B	0.0037B	Not Sampled	0.0173B	0.0178B
Arsenic	0.05(F)	<0.0020U	0.0028B	<0.0020U	0.0022B	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Barium	2.0(F)	0.019B	0.013B	0.027B	<0.010U	0.012B	<0.010U	Not Sampled	<0.010U	<0.010U
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U
Calcium	---	35.6	184	9.78	69.9	94.4	495	Not Sampled	72.2	379
Chromium	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Cobalt	---	0.018B	0.066	0.024B	0.046B	0.028B	0.085	Not Sampled	0.031B	0.067
Copper	1.3(F)	0.017B	<0.005U	<0.005U	0.006B	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Iron	---	<0.010U	4.15	<0.010U	0.045B	<0.010U	0.306	Not Sampled	0.118	3.04
Lead	0.015(F)	0.0016B	<0.0010U	<0.0010U	0.0014B	<0.0010U	<0.0010U	Not Sampled	0.0011B	<0.0010U
Magnesium	---	53.7	39.0	25.8	29.3	45.5	189	Not Sampled	26.1	115
Manganese	---	0.007B	1.43	<0.005U	0.464	0.015	1.14	Not Sampled	0.073	1.55
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U
Nickel	0.1(P)	<0.005U	0.066	<0.005U	0.224	<0.005U	0.116	Not Sampled	<0.005U	0.093
Potassium	---	35.9	6.21	50.5	3.13B	7.85	7.10	Not Sampled	6.91	7.70
Selenium	0.05(F)	0.0042B	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U
Sodium	---	46.1	22.3	71.6	20.5	55.8	77.0	Not Sampled	90.7	51.4
Thallium	0.002(P)	<0.0080U	<0.0080U	<0.0080U	<0.0080U	<0.0080U	<0.0080UW	Not Sampled	<0.0080U	<0.0080U
Tin	---	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U
Vanadium	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.006B	Not Sampled	<0.005U	<0.005U
Zinc	---	<0.006U	0.037	<0.006U	0.069	<0.006U	0.116	Not Sampled	<0.006U	<0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10746	10747		10614	10612	10613		10748
	Date Sampled:		03/23/91	03/23/91		03/22/91	03/22/91	03/22/91		03/23/91
	Date Analyzed:		06/21/91	06/21/91		06/11/91	06/11/91	06/11/91		06/21/91
METALS	MCL									
Aluminum	---	Not Sampled	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U
Antimony	0.01(P)	Not Sampled	0.0068B	0.0041B	Not Sampled	0.0191B	0.0069B	0.0051B	Not Sampled	0.0046B
Arsenic	0.05(F)	Not Sampled	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U
Barium	2.0(F)	Not Sampled	<0.010U	<0.010U	Not Sampled	0.047B	0.041B	<0.010U	Not Sampled	<0.010U
Beryllium	0.001(P)	Not Sampled	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U
Cadmium	0.005(F)	Not Sampled	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	Not Sampled	<0.004U
Calcium	---	Not Sampled	21.9	157	Not Sampled	13.5	10.3	203	Not Sampled	14.3
Chromium	0.1(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U
Cobalt	---	Not Sampled	0.023B	0.048B	Not Sampled	<0.006U	<0.006U	0.012B	Not Sampled	0.016B
Copper	1.3(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	0.015B	<0.005U	<0.005U	Not Sampled	<0.005U
Iron	---	Not Sampled	<0.010U	3.26	Not Sampled	0.042B	<0.010U	0.0261B	Not Sampled	<0.010U
Lead	0.015(F)	Not Sampled	<0.0010U	<0.0010U	Not Sampled	0.0016B	<0.0010U	<0.0010UW	Not Sampled	<0.0010U
Magnesium	---	Not Sampled	38.7	69.6	Not Sampled	2.33B	1.71B	178	Not Sampled	9.86
Manganese	---	Not Sampled	<0.005U	2.49	Not Sampled	<0.005U	<0.005U	0.445	Not Sampled	<0.005U
Mercury	0.002(F)	Not Sampled	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U
Nickel	0.1(P)	Not Sampled	<0.005U	0.081	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U
Potassium	---	Not Sampled	16.4	6.02	Not Sampled	46.8	49.9	3.47B	Not Sampled	4.61B
Selenium	0.05(F)	Not Sampled	<0.0020U	<0.0020U	Not Sampled	0.0033B	0.0033B	<0.0020U	Not Sampled	<0.0020U
Silver	---	Not Sampled	<0.0010U	<0.0010U	Not Sampled	<0.0010UW	<0.0010UW	<0.0010UW	Not Sampled	<0.0010U
Sodium	---	Not Sampled	37.2	34.1	Not Sampled	52.5	53.4	163	Not Sampled	2.45B
Thallium	0.002(P)	Not Sampled	<0.0080U	<0.0080U	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	Not Sampled	<0.0080U
Tin	---	Not Sampled	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U
Vanadium	---	Not Sampled	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U
Zinc	---	Not Sampled	<0.006U	<0.006U	Not Sampled	<0.006U	<0.006U	<0.006U	Not Sampled	<0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C22P3 / 10749 / 03/23/91 / 06/21/91
METALS	MCL	
Aluminum	---	0.963
Antimony	0.01(P)	0.0156B
Arsenic	0.05(F)	0.0028B
Barium	2.0(F)	<0.010U
Beryllium	0.001(P)	0.005
Cadmium	0.005(F)	<0.004U
Calcium	---	350
Chromium	0.1(F)	<0.005U
Cobalt	---	0.224
Copper	1.3(F)	<0.005U
Iron	---	103
Lead	0.015(F)	0.0024B
Magnesium	---	297
Manganese	---	30.1
Mercury	0.002(F)	<0.0002U
Nickel	0.1(P)	0.593
Potassium	---	14.3
Selenium	0.05(F)	<0.0020U
Silver	---	<0.0010U
Sodium	---	22.5
Thallium	0.002(P)	<0.0080U
Tin	---	<0.035U
Vanadium	---	0.006B
Zinc	---	0.373

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09529	10687		10688	10689	10690		10691	10692
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	05/04/91	05/16/91		05/16/91	05/16/91	05/16/91		05/16/91	05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000030U	<0.000030U	Not Sampled	<0.000030U	<0.000030U	<0.000029U	No Sample	<0.000032U	<0.000029U
a-CHLORDANE	0.002(F)	<0.000051U	<0.000050U	Not Sampled	<0.000051U	<0.000050U	<0.000049U	No Sample	<0.000054U	<0.000048U
A-Endosulfan	---	<0.00014U	<0.00014U	Not Sampled	<0.00014U	0.000004J	<0.00014U	No Sample	<0.00015U	<0.00013U
Aldrin	---	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000039U	No Sample	<0.000043U	<0.000038U
B-BHC	---	<0.000061U	<0.000059U	Not Sampled	<0.000061U	<0.000060U	<0.000058U	No Sample	<0.000065U	<0.000058U
B-Endosulfan	---	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000039U	No Sample	<0.000043U	<0.000038U
D-BHC	---	<0.000091U	<0.000089U	Not Sampled	<0.000091U	<0.000090U	<0.000087U	No Sample	<0.000097U	<0.000087U
Dieldrin	---	<0.000020U	<0.000020U	Not Sampled	<0.000020U	<0.000020U	<0.000019U	No Sample	<0.000022U	<0.000019U
Disulfoton	---	<0.00071U	<0.00069U	Not Sampled	<0.00071U	<0.00070U	<0.00068U	No Sample	<0.00075U	<0.00067U
Endosulfan sulfate	---	<0.00067U	<0.00065U	Not Sampled	<0.00067U	<0.00066U	<0.00064U	No Sample	<0.00071U	<0.00063U
Endrin	0.002(P)	<0.000061U	0.000002J	Not Sampled	<0.000061U	<0.000060U	<0.000058U	No Sample	<0.000065U	<0.000058U
Endrin Aldehyde	---	<0.00023U	<0.00023U	Not Sampled	<0.00023U	<0.00023U	<0.00022U	No Sample	<0.00025U	<0.00022U
Ethyl Parathion	---	<0.00061U	<0.00059U	Not Sampled	<0.00061U	<0.00060U	<0.00058U	No Sample	<0.00064U	<0.00058U
Famphur	---	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	No Sample	<0.0013U	<0.0012U
G-BHC	---	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000039U	No Sample	<0.000043U	<0.000038U
g-CHLORDANE	0.002(F)	<0.000051U	<0.000050U	Not Sampled	<0.000051U	<0.000050U	<0.000049U	No Sample	<0.000054U	<0.000048U
Heptachlor	0.0004(F)	<0.000030U	<0.000030U	Not Sampled	0.000025J	<0.000030U	<0.000029U	No Sample	<0.000032U	0.000009J
Heptachlor Epoxide	0.0002(F)	<0.00084U	<0.00082U	Not Sampled	<0.00084U	<0.00083U	<0.00081U	No Sample	0.000004J	<0.00080U
KEPONE	---	<0.0061U	<0.0059U	Not Sampled	<0.0061U	<0.0060U	<0.0058U	No Sample	<0.0065U	<0.0058U
Methoxychlor	0.04(F)	<0.0018U	<0.0017U	Not Sampled	<0.0018U	<0.0018U	<0.0017U	No Sample	<0.0019U	<0.0017U
Methyl Parathion	---	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	No Sample	<0.0013U	<0.0012U
PCB-1016	0.0005(F)	<0.0007U	<0.0006U	Not Sampled	<0.0007U	<0.0007U	<0.0006U	No Sample	<0.0007U	<0.0006U
PCB-1221	0.0005(F)	<0.0007U	<0.0006U	Not Sampled	<0.0007U	<0.0007U	<0.0006U	No Sample	<0.0007U	<0.0006U
PCB-1232	0.0005(F)	<0.0007U	<0.0006U	Not Sampled	<0.0007U	<0.0007U	<0.0006U	No Sample	<0.0007U	<0.0006U
PCB-1242	0.0005(F)	<0.0007U	<0.0006U	Not Sampled	<0.0007U	<0.0007U	<0.0006U	No Sample	<0.0007U	<0.0006U
PCB-1248	0.0005(F)	<0.0007U	<0.0006U	Not Sampled	<0.0007U	<0.0007U	<0.0006U	No Sample	<0.0007U	<0.0006U
PCB-1254	0.0005(F)	<0.0013U	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	No Sample	<0.0014U	<0.0012U
PCB-1260	0.0005(F)	<0.0013U	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	No Sample	<0.0014U	<0.0012U
Phorate	---	<0.00040U	<0.00040U	Not Sampled	<0.00040U	<0.00040U	<0.00039U	No Sample	<0.00043U	<0.00038U
PPDDD	---	<0.00011U	<0.00011U	Not Sampled	<0.00011U	<0.00011U	<0.00011U	No Sample	<0.00012U	<0.00011U
PPDDE	---	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000039U	No Sample	<0.000043U	<0.000038U
PPDDT	---	<0.00012U	<0.00012U	Not Sampled	<0.00012U	<0.00012U	<0.00012U	No Sample	<0.00013U	<0.00012U
Toxaphene	0.003(F)	<0.0024U	<0.0024U	Not Sampled	<0.0024U	<0.0024U	<0.0023U	No Sample	<0.0026U	<0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10693	10587		10588	10589	10590		10694	10695
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	05/16/91	05/14/91		05/14/91	05/14/91	05/14/91		05/16/91	05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000029U	<0.000029U	Not Sampled	<0.000033U	<0.000029U	<0.000031U	No Sample	<0.000029U	<0.000038U
a-CHLORDANE	0.002(F)	<0.000049U	<0.000048U	Not Sampled	<0.000055U	<0.000049U	<0.000051U	No Sample	<0.000049U	<0.000063U
A-Endosulfan	---	<0.00014U	<0.00013U	Not Sampled	<0.00015U	<0.00014U	<0.00014U	No Sample	<0.00014U	0.00001J
Aldrin	---	<0.000039U	<0.000038U	Not Sampled	<0.000044U	<0.000039U	<0.000041U	No Sample	<0.000039U	<0.000051U
B-BHC	---	<0.000058U	<0.000057U	Not Sampled	<0.000066U	<0.000058U	<0.000061U	No Sample	<0.000059U	<0.000076U
B-Endosulfan	---	<0.000039U	<0.000038U	Not Sampled	<0.000044U	<0.000039U	<0.000041U	No Sample	<0.000039U	<0.000051U
D-BHC	---	<0.000087U	<0.000086U	Not Sampled	<0.000099U	<0.000087U	<0.000092U	No Sample	<0.000088U	<0.00011U
Dieldrin	---	<0.000019U	<0.000019U	Not Sampled	<0.000022U	<0.000019U	<0.000020U	No Sample	<0.000020U	<0.000025U
Disulfoton	---	<0.00068U	<0.00067U	Not Sampled	<0.00077U	<0.00068U	<0.00071U	No Sample	<0.00069U	<0.00089U
Endosulfan sulfate	---	<0.00064U	<0.00063U	Not Sampled	<0.00073U	<0.00064U	<0.00067U	No Sample	<0.00065U	<0.00084U
Endrin	0.002(P)	<0.000058U	<0.000057U	Not Sampled	<0.000066U	<0.000058U	<0.000061U	No Sample	<0.000059U	<0.000076U
Endrin Aldehyde	---	<0.00022U	<0.00022U	Not Sampled	<0.00025U	<0.00022U	<0.00023U	No Sample	<0.00023U	<0.00029U
Ethyl Parathion	---	<0.00058U	<0.00057U	Not Sampled	<0.00066U	<0.00058U	<0.00061U	No Sample	<0.00059U	<0.00076U
Famphur	---	<0.0012U	<0.0011U	Not Sampled	<0.0013U	<0.0012U	<0.0012U	No Sample	<0.0012U	<0.0015U
G-BHC	---	<0.000039U	<0.000038U	Not Sampled	<0.000044U	<0.000039U	<0.000041U	No Sample	<0.000039U	<0.000051U
g-CHLORDANE	0.002(F)	<0.000049U	<0.000048U	Not Sampled	<0.000055U	<0.000049U	<0.000051U	No Sample	<0.000049U	<0.000063U
Heptachlor	0.0004(F)	<0.000029U	<0.000029U	Not Sampled	<0.000033U	<0.000029U	<0.000031U	No Sample	0.000013J	<0.000038U
Heptachlor Epoxide	0.0002(F)	0.000004J	<0.00079U	Not Sampled	<0.00091U	<0.00081U	<0.00085U	No Sample	<0.00081U	<0.0011U
KEPONE	---	<0.0058U	<0.0057U	Not Sampled	<0.0066U	<0.0058U	<0.0061U	No Sample	<0.0059U	<0.0076U
Methoxychlor	0.04(F)	<0.0017U	<0.0017U	Not Sampled	<0.0019U	<0.0017U	<0.0018U	No Sample	<0.0017U	<0.0022U
Methyl Parathion	---	<0.0012U	<0.0011U	Not Sampled	<0.0013U	<0.0012U	<0.0012U	No Sample	<0.0012U	<0.0015U
PCB-1016	0.0005(F)	<0.0006U	<0.0006U	Not Sampled	<0.0007U	<0.0006U	<0.0007U	No Sample	<0.0006U	<0.0008U
PCB-1221	0.0005(F)	<0.0006U	<0.0006U	Not Sampled	<0.0007U	<0.0006U	<0.0007U	No Sample	<0.0006U	<0.0008U
PCB-1232	0.0005(F)	<0.0006U	<0.0006U	Not Sampled	<0.0007U	<0.0006U	<0.0007U	No Sample	<0.0006U	<0.0008U
PCB-1242	0.0005(F)	<0.0006U	<0.0006U	Not Sampled	<0.0007U	<0.0006U	<0.0007U	No Sample	<0.0006U	<0.0008U
PCB-1248	0.0005(F)	<0.0006U	<0.0006U	Not Sampled	<0.0007U	<0.0006U	<0.0007U	No Sample	<0.0006U	<0.0008U
PCB-1254	0.0005(F)	<0.0013U	<0.0012U	Not Sampled	<0.0014U	0.00027J	<0.0013U	No Sample	0.00019J	0.00024J
PCB-1260	0.0005(F)	<0.0013U	<0.0012U	Not Sampled	<0.0014U	<0.0013U	<0.0013U	No Sample	<0.0013U	<0.0016U
Phorate	---	<0.00039U	<0.00038U	Not Sampled	<0.00044U	<0.00039U	<0.00041U	No Sample	<0.00039U	<0.00051U
PPDDD	---	<0.00011U	<0.00010U	Not Sampled	<0.00012U	<0.00011U	<0.00011U	No Sample	<0.00011U	<0.00014U
PPDDE	---	<0.000039U	<0.000038U	Not Sampled	<0.000044U	<0.000039U	<0.000041U	No Sample	<0.000039U	<0.000051U
PPDDT	---	<0.00012U	<0.00011U	Not Sampled	<0.00013U	<0.00012U	<0.00012U	No Sample	<0.00012U	<0.00015U
Toxaphene	0.003(F)	<0.0023U	<0.0023U	Not Sampled	<0.0026U	<0.0023U	<0.0024U	No Sample	<0.0024U	<0.0030U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10591	10592		10593	10594	10696		10697
	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		05/14/91	05/14/91		05/14/91	05/14/91	05/16/91		05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	<0.000033U	<0.000029U	No Sample	<0.000036U	<0.000030U	<0.000032U	No Sample	<0.000032U
a-CHLORDANE	0.002(F)	No Sample	<0.000055U	<0.000048U	No Sample	<0.000060U	<0.000050U	<0.000054U	No Sample	<0.000054U
A-Endosulfan	---	No Sample	<0.00015U	<0.00013U	No Sample	<0.00017U	<0.00014U	<0.00015U	No Sample	<0.00015U
Aldrin	---	No Sample	<0.000044U	<0.000038U	No Sample	<0.000048U	<0.000040U	<0.000043U	No Sample	<0.000043U
B-BHC	---	No Sample	<0.000066U	<0.000057U	No Sample	<0.000072U	<0.000059U	<0.000065U	No Sample	<0.000065U
B-Endosulfan	---	No Sample	<0.000044U	<0.000038U	No Sample	<0.000048U	<0.000040U	<0.000043U	No Sample	<0.000043U
D-BHC	---	No Sample	<0.000099U	<0.000086U	No Sample	<0.00011U	<0.000089U	<0.000097U	No Sample	<0.000097U
Dieldrin	---	No Sample	<0.000022U	<0.000019U	No Sample	<0.000024U	<0.000020U	<0.000022U	No Sample	<0.000022U
Disulfoton	---	No Sample	<0.00077U	<0.00067U	No Sample	<0.00084U	<0.00069U	<0.00075U	No Sample	<0.00075U
Endosulfan sulfate	---	No Sample	<0.00073U	<0.00063U	No Sample	<0.00080U	<0.00065U	<0.00071U	No Sample	<0.00071U
Endrin	0.002(P)	No Sample	<0.000066U	<0.000057U	No Sample	<0.000072U	<0.000059U	<0.000065U	No Sample	<0.000065U
Endrin Aldehyde	---	No Sample	<0.00025U	<0.00022U	No Sample	<0.00028U	<0.00023U	<0.00025U	No Sample	<0.00025U
Ethyl Parathion	---	No Sample	<0.00066U	<0.00057U	No Sample	<0.00072U	<0.00059U	<0.00064U	No Sample	<0.00064U
Famphur	---	No Sample	<0.0013U	<0.0011U	No Sample	<0.0014U	<0.0012U	<0.0013U	No Sample	<0.0013U
G-BHC	---	No Sample	<0.000044U	<0.000038U	No Sample	<0.000048U	<0.000040U	<0.000043U	No Sample	<0.000043U
g-CHLORDANE	0.002(F)	No Sample	<0.000055U	<0.000048U	No Sample	<0.000060U	<0.000050U	<0.000054U	No Sample	<0.000054U
Heptachlor	0.0004(F)	No Sample	<0.000033U	<0.000029U	No Sample	<0.000036U	0.000025J	<0.000032U	No Sample	<0.000032U
Heptachlor Epoxide	0.0002(F)	No Sample	<0.00091U	<0.00079U	No Sample	<0.0010U	0.000014J	<0.00089U	No Sample	<0.00089U
KEPONE	---	No Sample	<0.0066U	<0.0057U	No Sample	<0.0072U	<0.0059U	<0.0065U	No Sample	<0.0065U
Methoxychlor	0.04(F)	No Sample	<0.0019U	<0.0017U	No Sample	<0.0021U	<0.0017U	<0.0019U	No Sample	<0.0019U
Methyl Parathion	---	No Sample	<0.0013U	<0.0011U	No Sample	<0.0014U	<0.0012U	<0.0013U	No Sample	<0.0013U
PCB-1016	0.0005(F)	No Sample	<0.0007U	<0.0006U	No Sample	<0.0008U	<0.0006U	<0.0007U	No Sample	<0.0007U
PCB-1221	0.0005(F)	No Sample	<0.0007U	<0.0006U	No Sample	<0.0008U	<0.0006U	<0.0007U	No Sample	<0.0007U
PCB-1232	0.0005(F)	No Sample	<0.0007U	<0.0006U	No Sample	<0.0008U	<0.0006U	<0.0007U	No Sample	<0.0007U
PCB-1242	0.0005(F)	No Sample	<0.0007U	<0.0006U	No Sample	<0.0008U	<0.0006U	<0.0007U	No Sample	<0.0007U
PCB-1248	0.0005(F)	No Sample	<0.0007U	<0.0006U	No Sample	<0.0008U	<0.0006U	<0.0007U	No Sample	<0.0007U
PCB-1254	0.0005(F)	No Sample	0.00055J	0.00047J	No Sample	0.00020J	0.00046J	0.00013J	No Sample	<0.0014U
PCB-1260	0.0005(F)	No Sample	<0.0014U	<0.0012U	No Sample	<0.0016U	<0.0013U	<0.0014U	No Sample	<0.0014U
Phorate	---	No Sample	<0.00044U	<0.00038U	No Sample	<0.00048U	<0.00040U	<0.00043U	No Sample	<0.00043U
PPDDD	---	No Sample	<0.00012U	<0.00010U	No Sample	<0.00013U	<0.00011U	0.000004J	No Sample	<0.00012U
PPDDE	---	No Sample	<0.000044U	<0.000038U	No Sample	<0.000048U	<0.000040U	<0.000043U	No Sample	<0.000043U
PPDDT	---	No Sample	<0.00013U	<0.00011U	No Sample	<0.00014U	<0.00012U	<0.00013U	No Sample	<0.00013U
Toxaphene	0.003(F)	No Sample	<0.0026U	<0.0023U	No Sample	<0.0029U	<0.0024U	<0.0026U	No Sample	<0.0026U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10698		10699	10700	10701			10702
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		05/16/91		05/16/91	05/16/91	05/16/91			05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	<0.000031U	No Sample	<0.000029U	<0.000033U	<0.000031U	Not Sampled	No Sample	<0.000029U
a-CHLORDANE	0.002(F)	No Sample	<0.000051U	No Sample	<0.000048U	<0.000054U	<0.000052U	Not Sampled	No Sample	<0.000049U
A-Endosulfan	---	No Sample	<0.00014U	No Sample	<0.00013U	<0.00015U	<0.00015U	Not Sampled	No Sample	<0.00014U
Aldrin	---	No Sample	<0.000041U	No Sample	<0.000038U	<0.000043U	<0.000042U	Not Sampled	No Sample	<0.000039U
B-BHC	---	No Sample	<0.000061U	No Sample	<0.000058U	<0.000065U	<0.000063U	Not Sampled	No Sample	<0.000058U
B-Endosulfan	---	No Sample	<0.000041U	No Sample	<0.000038U	<0.000043U	<0.000042U	Not Sampled	No Sample	<0.000039U
D-BHC	---	No Sample	<0.000092U	No Sample	<0.000087U	<0.000098U	<0.000094U	Not Sampled	No Sample	<0.000087U
Dieldrin	---	No Sample	<0.000020U	No Sample	<0:000019U	<0.000022U	<0.000021U	Not Sampled	No Sample	<0.000019U
Disulfoton	---	No Sample	<0.00071U	No Sample	<0.00067U	<0.00076U	<0.00073U	Not Sampled	No Sample	<0.00068U
Endosulfan sulfate	---	No Sample	<0.00067U	No Sample	<0.00063U	<0.00072U	<0.00069U	Not Sampled	No Sample	<0.00064U
Endrin	0.002(P)	No Sample	<0.000061U	No Sample	<0.000058U	<0.000065U	<0.000063U	Not Sampled	No Sample	<0.000058U
Endrin Aldehyde	---	No Sample	<0.00023U	No Sample	<0.00022U	<0.00025U	<0.00024U	Not Sampled	No Sample	<0.00022U
Ethyl Parathion	---	No Sample	<0.00061U	No Sample	<0.00058U	<0.00065U	<0.00062U	Not Sampled	No Sample	<0.00058U
Famphur	---	No Sample	<0.0012U	No Sample	<0.0012U	<0.0013U	<0.0012U	Not Sampled	No Sample	<0.0012U
G-BHC	---	No Sample	<0.000041U	No Sample	<0.000038U	<0.000043U	<0.000042U	Not Sampled	No Sample	<0.000039U
g-CHLORDANE	0.002(F)	No Sample	<0.000051U	No Sample	<0.000048U	<0.000054U	<0.000052U	Not Sampled	No Sample	<0.000049U
Heptachlor	0.0004(F)	No Sample	<0.000031U	No Sample	<0.000029U	<0.000033U	<0.000031U	Not Sampled	No Sample	<0.000029U
Heptachlor Epoxide	0.0002(F)	No Sample	<0.00085U	No Sample	<0.00080U	<0.00090U	<0.00086U	Not Sampled	No Sample	<0.00081U
KEPONE	---	No Sample	<0.0061U	No Sample	<0.0058U	<0.0065U	<0.0063U	Not Sampled	No Sample	<0.0058U
Methoxychlor	0.04(F)	No Sample	<0.0018U	No Sample	<0.0017U	<0.0019U	<0.0018U	Not Sampled	No Sample	<0.0017U
Methyl Parathion	---	No Sample	<0.0012U	No Sample	<0.0012U	<0.0013U	<0.0012U	Not Sampled	No Sample	<0.0012U
PCB-1016	0.0005(F)	No Sample	<0.0007U	No Sample	<0.0006U	<0.0007U	<0.0007U	Not Sampled	No Sample	<0.0006U
PCB-1221	0.0005(F)	No Sample	<0.0007U	No Sample	<0.0006U	<0.0007U	<0.0007U	Not Sampled	No Sample	<0.0006U
PCB-1232	0.0005(F)	No Sample	<0.0007U	No Sample	<0.0006U	<0.0007U	<0.0007U	Not Sampled	No Sample	<0.0006U
PCB-1242	0.0005(F)	No Sample	<0.0007U	No Sample	<0.0006U	<0.0007U	<0.0007U	Not Sampled	No Sample	<0.0006U
PCB-1248	0.0005(F)	No Sample	<0.0007U	No Sample	<0.0006U	<0.0007U	<0.0007U	Not Sampled	No Sample	<0.0006U
PCB-1254	0.0005(F)	No Sample	<0.0013U	No Sample	<0.0012U	0.00045J	0.00015J	Not Sampled	No Sample	<0.0013U
PCB-1260	0.0005(F)	No Sample	<0.0013U	No Sample	<0.0012U	<0.0014U	<0.0014U	Not Sampled	No Sample	<0.0013U
Phorate	---	No Sample	<0.00041U	No Sample	<0.00036U	<0.00043U	<0.00042U	Not Sampled	No Sample	<0.00039U
PPDDD	---	No Sample	<0.00011U	No Sample	<0.00011U	<0.00012U	<0.00011U	Not Sampled	No Sample	<0.00011U
PPDDE	---	No Sample	<0.000041U	No Sample	<0.000038U	<0.000043U	<0.000042U	Not Sampled	No Sample	<0.000039U
PPDDT	---	No Sample	<0.00012U	No Sample	<0.00012U	<0.00013U	<0.00013U	Not Sampled	No Sample	<0.00012U
Toxaphene	0.003(F)	No Sample	<0.0024U	No Sample	<0.0023U	<0.0026U	<0.0025U	Not Sampled	No Sample	<0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10703				10595		10704
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			05/16/91				05/14/91		05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	Not Sampled	No Sample	<0.000029U	Not Sampled	No Sample	No Sample	<0.000029U	No Sample	<0.000030U
a-CHLORDANE	0.002(F)	Not Sampled	No Sample	<0.000048U	Not Sampled	No Sample	No Sample	<0.000048U	No Sample	<0.000050U
A-Endosulfan	---	Not Sampled	No Sample	<0.00013U	Not Sampled	No Sample	No Sample	<0.00013U	No Sample	<0.00014U
Aldrin	---	Not Sampled	No Sample	<0.000038U	Not Sampled	No Sample	No Sample	<0.000038U	No Sample	<0.000040U
B-BHC	---	Not Sampled	No Sample	<0.000058U	Not Sampled	No Sample	No Sample	<0.000058U	No Sample	<0.000059U
B-Endosulfan	---	Not Sampled	No Sample	<0.000038U	Not Sampled	No Sample	No Sample	<0.000038U	No Sample	<0.000040U
D-BHC	---	Not Sampled	No Sample	<0.000087U	Not Sampled	No Sample	No Sample	<0.000087U	No Sample	<0.000089U
Dieldrin	---	Not Sampled	No Sample	<0.000019U	Not Sampled	No Sample	No Sample	<0.000019U	No Sample	<0.000020U
Disulfoton	---	Not Sampled	No Sample	<0.00067U	Not Sampled	No Sample	No Sample	<0.00067U	No Sample	<0.00069U
Endosulfan sulfate	---	Not Sampled	No Sample	<0.00063U	Not Sampled	No Sample	No Sample	<0.00063U	No Sample	<0.00065U
Endrin	0.002(P)	Not Sampled	No Sample	<0.000058U	Not Sampled	No Sample	No Sample	<0.000058U	No Sample	<0.000059U
Endrin Aldehyde	---	Not Sampled	No Sample	<0.00022U	Not Sampled	No Sample	No Sample	<0.00022U	No Sample	<0.00023U
Ethyl Parathion	---	Not Sampled	No Sample	<0.00058U	Not Sampled	No Sample	No Sample	<0.00058U	No Sample	<0.00059U
Famphur	---	Not Sampled	No Sample	<0.0012U	Not Sampled	No Sample	No Sample	<0.0012U	No Sample	<0.0012U
G-BHC	---	Not Sampled	No Sample	<0.000038U	Not Sampled	No Sample	No Sample	<0.000038U	No Sample	<0.000040U
g-CHLORDANE	0.002(F)	Not Sampled	No Sample	<0.000048U	Not Sampled	No Sample	No Sample	<0.000048U	No Sample	<0.000050U
Heptachlor	0.0004(F)	Not Sampled	No Sample	<0.000029U	Not Sampled	No Sample	No Sample	<0.000029U	No Sample	<0.000030U
Heptachlor Epoxide	0.0002(F)	Not Sampled	No Sample	<0.00080U	Not Sampled	No Sample	No Sample	<0.00080U	No Sample	<0.00082U
KEPONE	---	Not Sampled	No Sample	<0.0058U	Not Sampled	No Sample	No Sample	<0.0058U	No Sample	<0.0059U
Methoxychlor	0.04(F)	Not Sampled	No Sample	<0.0017U	Not Sampled	No Sample	No Sample	<0.0017U	No Sample	<0.0017U
Methyl Parathion	---	Not Sampled	No Sample	<0.0012U	Not Sampled	No Sample	No Sample	<0.0012U	No Sample	<0.0012U
PCB-1016	0.0005(F)	Not Sampled	No Sample	<0.0006U	Not Sampled	No Sample	No Sample	<0.0006U	No Sample	<0.0006U
PCB-1221	0.0005(F)	Not Sampled	No Sample	<0.0006U	Not Sampled	No Sample	No Sample	<0.0006U	No Sample	<0.0006U
PCB-1232	0.0005(F)	Not Sampled	No Sample	<0.0006U	Not Sampled	No Sample	No Sample	<0.0006U	No Sample	<0.0006U
PCB-1242	0.0005(F)	Not Sampled	No Sample	<0.0006U	Not Sampled	No Sample	No Sample	<0.0006U	No Sample	<0.0006U
PCB-1248	0.0005(F)	Not Sampled	No Sample	<0.0006U	Not Sampled	No Sample	No Sample	<0.0006U	No Sample	<0.0006U
PCB-1254	0.0005(F)	Not Sampled	No Sample	<0.0012U	Not Sampled	No Sample	No Sample	0.00015J	No Sample	<0.0013U
PCB-1260	0.0005(F)	Not Sampled	No Sample	<0.0012U	Not Sampled	No Sample	No Sample	<0.0012U	No Sample	<0.0013U
Phorate	---	Not Sampled	No Sample	<0.00038U	Not Sampled	No Sample	No Sample	<0.00038U	No Sample	<0.00040U
PPDDD	---	Not Sampled	No Sample	<0.00011U	Not Sampled	No Sample	No Sample	<0.00011U	No Sample	<0.00011U
PPDDE	---	Not Sampled	No Sample	<0.000038U	Not Sampled	No Sample	No Sample	<0.000038U	No Sample	<0.000040U
PPDDT	---	Not Sampled	No Sample	<0.00012U	Not Sampled	No Sample	No Sample	<0.00012U	No Sample	<0.00012U
Toxaphene	0.003(F)	Not Sampled	No Sample	<0.0023U	Not Sampled	No Sample	No Sample	<0.0023U	No Sample	<0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C22P3 / 10705 / 03/23/91 / 05/16/91
PESTICIDES/PCBs	MCL	
A-BHC	---	<0.000029U
a-CHLORDANE	0.002(F)	<0.000048U
A-Endosulfan	---	<0.00013U
Aldrin	---	<0.000038U
B-BHC	---	<0.000058U
B-Endosulfan	---	<0.000038U
D-BHC	---	<0.000087U
Dieldrin	---	<0.000019U
Disulfoton	---	<0.00087U
Endosulfan sulfate	---	<0.00083U
Endrin	0.002(P)	<0.000058U
Endrin Aldehyde	---	<0.00022U
Ethyl Parathion	---	<0.00059U
Famphur	---	<0.0012U
G-BHC	---	<0.000038U
g-CHLORDANE	0.002(F)	<0.000048U
Heptachlor	0.0004(F)	<0.000029U
Heptachlor Epoxide	0.0002(F)	<0.00080U
KEPONE	---	<0.0058U
Methoxychlor	0.04(F)	<0.0017U
Methyl Parathion	---	<0.0012U
PCB-1016	0.0005(F)	<0.0008U
PCB-1221	0.0005(F)	<0.0008U
PCB-1232	0.0005(F)	<0.0008U
PCB-1242	0.0005(F)	<0.0008U
PCB-1248	0.0005(F)	<0.0008U
PCB-1254	0.0005(F)	<0.0012U
PCB-1260	0.0005(F)	<0.0012U
Phorate	---	<0.00038U
PPDDD	---	<0.00011U
PPDDE	---	<0.000038U
PPDDT	---	<0.00012U
Toxaphene	0.003(F)	<0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09549	10775		10776	10777	10778	10552	10779	10780
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91	03/22/91	03/23/91	03/23/91
	Date Analyzed:	03/15/91	04/06/91		04/06/91	04/06/91	04/06/91	04/04/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.018BJ	0.007BJ	Not Sampled	0.0093BJ	0.0094BJ	0.0060BJ	0.0091BJ	0.0049BJ	0.0049BJ
Benzene	---	<0.005U	0.0020BJ	Not Sampled	0.0022BJ	0.0012BJ	0.0009BJ	0.0077B	0.00096BJ	0.0015BJ
Bromodichloromethane	0.1(L)	<0.005U	0.013	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	0.11	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Cis-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.028B	0.0042BJ	Not Sampled	0.0044BJ	0.0026BJ	0.0071B	0.0058B	0.0046BJ	0.011B
Styrene	0.1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
4-Methyl-2-Pentanone	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10781	10553		10554	10555	10556	10782	10783	10784
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	04/06/91	04/04/91		04/04/91	04/04/91	04/04/91	04/06/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.0061BJ	0.0054BJ	Not Sampled	<0.10U	0.0022BJ	<0.10U	0.017BJ	0.0017BJ	<0.10U
Benzene	---	0.0026BJ	0.0031BJ	Not Sampled	0.0053B	0.0066B	0.0089B	0.00092BJ	0.0020BJ	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.005U
Chloroform	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Cis-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.0017BJ
Methylene Chloride	0.005(P)	0.0079B	0.0061B	Not Sampled	0.0032BJ	0.0028BJ	0.0039BJ	0.0017BJ	0.0012BJ	<0.005U
Styrene	0.1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.0014BJ
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
4-Methyl-2-Pentanone	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:	10557	10558	10559	10560	10561	10562	10785	10786	10787
	Date Sampled:	03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	04/04/91	04/04/91	04/04/91	04/04/91	04/04/91	04/04/91	04/06/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.023BJ	0.0078BJ	0.0024BJ	0.0025BJ	<0.10U	0.0016BJ	0.0044BJ	0.0056BJ	0.0020BJ
Benzene	---	0.0086B	0.0023BJ	0.0037BJ	<0.005U	0.0030BJ	0.0032BJ	0.00095BJ	0.0022BJ	0.00081BJ
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0043BJ	0.0029BJ	0.0029BJ	0.0021BJ	0.0024BJ	0.0037BJ	0.0013BJ	0.0020BJ	0.0030BJ
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	0.0035J	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.0031J	0.0018J	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	0.0015J	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
4-Methyl-2-Pentanone	---	<0.050U	<0.005U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10788	10789	10790	10791	10792	10793		10794	10795
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	04/06/91	04/06/91	04/06/91	04/06/91	04/06/91	04/06/91		04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	<0.005U	0.017BJ	0.0086BJ	0.0096BJ	0.0047BJ	0.0042BJ	Not Sampled	0.0026BJ	0.0031BJ
Benzene	---	0.0018BJ	0.0064B	0.005B	0.0052B	0.0028BJ	0.0081B	Not Sampled	0.0041BJ	0.0099B
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0045BJ	0.0031BJ	0.0062B	0.0070B	0.013B	0.029B	Not Sampled	0.0057B	0.010B
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Vinyl Acetate	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U
2-Hexanone	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
4-Methyl-2-Pentanone	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10796	10797			10563	10564		10798
	Date Sampled:		03/23/91	03/23/91			03/22/91	03/22/91		03/23/91
	Date Analyzed:		04/06/91	04/06/91			04/04/91	04/04/91		04/06/91
VOLATILES	MCL									
Acetone	---	Not Sampled	0.0065BJ	0.0064BJ	Not Sampled	No Sample	<0.10U	0.0097BJ	Not Sampled	0.0032BJ
Benzene	---	Not Sampled	0.0076B	0.0055B	Not Sampled	No Sample	0.0090B	0.0016BJ	Not Sampled	0.0066B
Bromodichloromethane	0.1(L)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Bromoform	0.1(L)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Bromomethane	---	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U
Carbon Tetrachloride	0.005(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Carbondisulfide	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Chlorobenzene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Chloroethane	---	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U
Chloroform	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	0.0021J	<0.005U	Not Sampled	<0.005U
Chloromethane	---	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U
cis-1,2-Dichloroethene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Cis-1,3-Dichloropropene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Dibromochloromethane	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Ethylbenzene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Methylene Chloride	0.005(P)	Not Sampled	0.0040BJ	0.0038BJ	Not Sampled	No Sample	0.0045BJ	0.0089B	Not Sampled	0.0020BJ
Styrene	0.1(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Tetrachloroethene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Toluene	1(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Trans-1,2-Dichloroethene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Trans-1,3-Dichloropropene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Trichloroethene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
T-Xylene	10(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
Vinyl Acetate	---	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U
Vinyl Chloride	0.002(F)	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U
1,1-Dichloroethane	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,1-Dichloroethene	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,1,1-Trichloroethane	0.2(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,1,2-Trichloroethane	0.005(P)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,1,2,2-Tetrachloroethane	---	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,2-Dichloroethane	0.005(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
1,2-Dichloropropane	0.005(F)	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	<0.005U	Not Sampled	<0.005U
2-Butanone	---	Not Sampled	<0.10U	<0.10U	Not Sampled	No Sample	<0.10U	<0.10U	Not Sampled	<0.10U
2-Hexanone	---	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U
4-Methyl-2-Pentanone	---	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C22P3
	Lab Sample No:	10799
	Date Sampled:	03/23/91
	Date Analyzed:	04/06/91
VOLATILES	MCL	
Acetone	---	0.016BJ
Benzene	---	0.0053B
Bromodichloromethane	0.1(L)	<0.005U
Bromoform	0.1(L)	<0.005U
Bromomethane	---	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U
Carbondisulfide	---	<0.005U
Chlorobenzene	---	<0.005U
Chloroethane	---	<0.010U
Chloroform	---	0.0011J
Chloromethane	---	<0.010U
cis-1,2-Dichloroethene	---	<0.005U
Cis-1,3-Dichloropropene	---	<0.005U
Dibromochloromethane	---	<0.005U
Ethylbenzene	---	<0.005U
Methylene Chloride	0.005(P)	0.0035BJ
Styrene	0.1(F)	<0.005U
Tetrachloroethene	---	<0.005U
Toluene	1(F)	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U
Trichloroethene	---	<0.005U
T-Xylene	10(F)	<0.005U
Vinyl Acetate	---	<0.050U
Vinyl Chloride	0.002(F)	<0.010U
1,1-Dichloroethane	---	<0.005U
1,1-Dichloroethene	---	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U
2-Butanone	---	<0.10U
2-Hexanone	---	<0.050U
4-Methyl-2-Pentanone	---	<0.050U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09519	10668		10669	10670	10671		10672	10673
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/16/91	04/13/91		04/13/91	04/13/91	04/13/91		04/13/91	04/13/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Aniline	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
Anthracene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzidine	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010U	0.0011BJ	Not Sampled	0.0019BJ	0.0029BJ	0.0014BJ	No Sample	0.0019J	0.010U
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Diethyl Phthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dimethyl Phthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Fluorene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Isophorone	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09519	10668		10669	10670	10671		10672	10673
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/16/91	04/13/91		04/13/91	04/13/91	04/13/91		04/13/91	04/13/91
BNA	MCL									
Phenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Pyrene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Chlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Methylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2-Nitrophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
3-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Chloroaniline	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Methylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
4-Nitrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10674	10576		10577	10578	10579		10675	10676
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	04/12/91		04/12/91	04/12/91	04/12/91		04/13/91	04/13/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Aniline	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
Anthracene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzidine	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010U	0.0068BJ	Not Sampled	0.0073BJ	0.0042BJ	0.0020BJ	No Sample	0.0017J	0.0097J
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Diethyl Phthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Dimethyl Phthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Fluorene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Isophorone	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10674	10576		10577	10578	10579		10675	10676
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	04/12/91		04/12/91	04/12/91	04/12/91		04/13/91	04/13/91
BNA	MCL									
Phenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
Pyrene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Chlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Methylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2-Nitrophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
3-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Chloroaniline	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Methylphenol	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	No Sample	0.010U	0.010U
4-Nitroaniline	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
4-Nitrophenol	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10580	10581	10582	10583	10584	10677		10678
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		04/12/91	04/12/91	04/12/91	04/12/91	04/12/91	04/13/91		04/13/91
BNA	MCL									
Acenaphthene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Acenaphthylene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Aniline	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
Anthracene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzidine	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
Benzoic Acid	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzo(G,H,I)Perylene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Benzyl Alcohol	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0038BJ	0.0016BJ	0.0079BJ	0.0016BJ	0.0023BJ	0.0067J	No Sample	0.0021J
Butylbenzylphthalate	0.1(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Chrysene	0.0002(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Dibenzofuran	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Dibutylphthalate	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Diethyl Phthalate	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Dimethyl Phthalate	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Di-N-Octylphthalate	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Fluoranthene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Fluorene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Hexachlorobenzene	0.001(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Hexachlorobutadiene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Hexachloroethane	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Isophorone	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Naphthalene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Nitrobenzene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
N-Nitrosodimethylamine	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
N-Nitrosodiphenyl Amine	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Pentachlorophenol	0.001(F)	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
Phenanthrene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10580	10581	10582	10583	10584	10677		10678
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		04/12/91	04/12/91	04/12/91	04/12/91	04/12/91	04/13/91		04/13/91
BNA	MCL									
Phenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
Pyrene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
1,2-Diphenylhydrazine	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
1,3-Dichlorobenzene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
1,4-Dichlorobenzene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2-Chloronaphthalene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2-Chlorophenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
2-Methylnaphthalene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2-Methylphenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2-Nitroaniline	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
2-Nitrophenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,4-Dichlorophenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,4-Dimethylphenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,4-Dinitrophenol	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
2,4-Dinitrotoluene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,4,5-Trichlorophenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,4,6-Trichlorophenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
2,6-Dinitrotoluene	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
3-Nitroaniline	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
3,3'Dichlorobenzidine	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
4-Bromophenyl Ether	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
4-Chloro-3-Methylphenol	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
4-Chloroaniline	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
4-Methylphenol	---	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	No Sample	0.010U
4-Nitroaniline	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
4-Nitrophenol	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10679		10680	10681	10682			10683
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		04/13/91		04/13/91	04/13/91	04/13/91			04/13/91
BNA	MCL									
Acenaphthene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Acenaphthylene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Aniline	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sample	No Sample	0.020U
Anthracene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzidine	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
Benzoic Acid	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzo(G,H,I)Perylene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Benzyl Alcohol	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sample	No Sample	0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0027J	No Sample	0.0035J	0.0039J	0.0044J	Not Sample	No Sample	0.0081J
Butylbenzylphthalate	0.1(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Chrysene	0.0002(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Dibenzofuran	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Dibutylphthalate	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Diethyl Phthalate	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Dimethyl Phthalate	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Di-N-Octylphthalate	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Fluoranthene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Fluorene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Hexachlorobenzene	0.001(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Hexachlorobutadiene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Hexachloroethane	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Isophorone	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Naphthalene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Nitrobenzene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
N-Nitrosodimethylamine	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
N-Nitrosodiphenyl Amine	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Pentachlorophenol	0.001(F)	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
Phenanthrene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10679		10680	10681	10682			10683
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		04/13/91		04/13/91	04/13/91	04/13/91			04/13/91
BNA	MCL									
Phenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
Pyrene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
1,2-Diphenylhydrazine	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
1,3-Dichlorobenzene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
1,4-Dichlorobenzene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2-Chloronaphthalene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2-Chlorophenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
2-Methylnaphthalene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2-Methylphenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2-Nitroaniline	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
2-Nitrophenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,4-Dichlorophenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,4-Dimethylphenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,4-Dinitrophenol	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
2,4-Dinitrotoluene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,4,5-Trichlorophenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,4,6-Trichlorophenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
2,6-Dinitrotoluene	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
3-Nitroaniline	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
3,3'Dichlorobenzidine	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sample	No Sample	0.020U
4-Bromophenyl Ether	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
4-Chloro-3-Methylphenol	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sample	No Sample	0.020U
4-Chloroaniline	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sample	No Sample	0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
4-Methylphenol	---	No Sample	0.010U	No Sample	0.010U	0.010U	0.010U	Not Sample	No Sample	0.010U
4-Nitroaniline	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U
4-Nitrophenol	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sample	No Sample	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10684				10586		10685
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			04/13/91				04/12/91		04/13/91
BNA	MCL									
Acenaphthene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Acenaphthylene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Aniline	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	No Sample	0.020U	Not Sampled	0.020U
Anthracene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzidine	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
Benzoic Acid	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
Benzo(a)Anthracene	0.0001(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzo(a)Pyrene	0.0002(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzo(b)Fluoranthene	0.0002(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzo(G,H,I)Perylene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzo(k)Fluoranthene	0.0002(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Benzyl Alcohol	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	No Sample	0.020U	Not Sampled	0.020U
Bis(2-Chloroethoxy)Methane	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Bis(2-Chloroethyl)Ether	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Bis(2-Chloroisopropyl)Ether	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Bis(2-Ethylhexyl)Phthalate	---	Not Sampled	No Sample	0.0062J	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.0061J
Butylbenzylphthalate	0.1(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Chrysene	0.0002(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Dibenzofuran	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Dibutylphthalate	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Diethyl Phthalate	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Dimethyl Phthalate	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Di-N-Octylphthalate	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Fluoranthene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Fluorene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Hexachlorobenzene	0.001(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Hexachlorobutadiene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Hexachlorocyclopentadiene	0.05(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Hexachloroethane	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Isophorone	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Naphthalene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Nitrobenzene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
N-Nitrosodimethylamine	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
N-Nitroso-Di-N-Propylamine	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
N-Nitrosodiphenyl Amine	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Pentachlorophenol	0.001(F)	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
Phenanthrene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10684				10686		10685
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			04/13/91				04/12/91		04/13/91
BNA	MCL									
Phenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
Pyrene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
1,2-Dichlorobenzene	0.6(L)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
1,2-Diphenylhydrazine	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
1,2,4-Trichlorobenzene	0.07(P)	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
1,3-Dichlorobenzene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
1,4-Dichlorobenzene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2-Chloronaphthalene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2-Chlorophenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2-Methyl-4,6-Dinotrophenol	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
2-Methylnaphthalene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2-Methylphenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2-Nitroaniline	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
2-Nitrophenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,4-Dichlorophenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,4-Dimethylphenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,4-Dinitrophenol	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
2,4-Dinitrotoluene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,4,5-Trichlorophenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,4,6-Trichlorophenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
2,6-Dinitrotoluene	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
3-Nitroaniline	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
3,3'Dichlorobenzidine	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	No Sample	0.020U	Not Sampled	0.020U
4-Bromophenyl Ether	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
4-Chloro-3-Methylphenol	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	No Sample	0.020U	Not Sampled	0.020U
4-Chloroaniline	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	No Sample	0.020U	Not Sampled	0.020U
4-Chlorophenyl Phenyl Ether	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
4-Methylphenol	---	Not Sampled	No Sample	0.010U	Not Sampled	No Sample	No Sample	0.010U	Not Sampled	0.010U
4-Nitroaniline	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U
4-Nitrophenol	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	No Sample	0.050U	Not Sampled	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C22P3
	Lab Sample No:	10686
	Date Sampled:	03/23/91
	Date Analyzed:	04/13/91
BNA	MCL	
Acenaphthene	---	0.010U
Acenaphthylene	---	0.010U
Aniline	---	0.020U
Anthracene	---	0.010U
Benzidine	---	0.050U
Benzoic Acid	---	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U
Benzo(G,H,I)Perylene	---	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U
Benzyl Alcohol	---	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010B
Butylbenzylphthalate	0.1(P)	0.010U
Chrysene	0.0002(P)	0.010U
Dibenzofuran	---	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U
Dibutylphthalate	---	0.010U
Diethyl Phthalate	---	0.010U
Dimethyl Phthalate	---	0.010U
Di-N-Octylphthalate	---	0.010U
Fluoranthene	---	0.010U
Fluorene	---	0.010U
Hexachlorobenzene	0.001(P)	0.010U
Hexachlorobutadiene	---	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U
Hexachloroethane	---	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U
Isophorone	---	0.010U
Naphthalene	---	0.010U
Nitrobenzene	---	0.010U
N-Nitrosodimethylamine	---	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U
N-Nitrosodiphenyl Amine	---	0.010U
Pentachlorophenol	0.001(F)	0.050U
Phenanthrene	---	0.010U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C22P3 / 10686 / 03/23/91 / 04/13/91
BNA	MCL	
Phenol	—	0.010U
Pyrene	—	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U
1,2-Diphenylhydrazine	—	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U
1,3-Dichlorobenzene	—	0.010U
1,4-Dichlorobenzene	—	0.010U
2-Chloronaphthalene	—	0.010U
2-Chlorophenol	—	0.010U
2-Methyl-4,6-Dinotrophenol	—	0.050U
2-Methylnaphthalene	—	0.010U
2-Methylphenol	—	0.010U
2-Nitroaniline	—	0.050U
2-Nitrophenol	—	0.010U
2,4-Dichlorophenol	—	0.010U
2,4-Dimethylphenol	—	0.010U
2,4-Dinitrophenol	—	0.050U
2,4-Dinitrotoluene	—	0.010U
2,4,5-Trichlorophenol	—	0.010U
2,4,6-Trichlorophenol	—	0.010U
2,6-Dinitrotoluene	—	0.010U
3-Nitroaniline	—	0.050U
3,3'Dichlorobenzidine	—	0.020U
4-Bromophenyl Ether	—	0.010U
4-Chloro-3-Methylphenol	—	0.020U
4-Chloroaniline	—	0.020U
4-Chlorophenyl Phenyl Ether	—	0.010U
4-Methylphenol	—	0.010U
4-Nitroaniline	—	0.050U
4-Nitrophenol	—	0.050U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09509	10649		10650	10651	10652		10653	10654
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	3/23/91
	Date Analyzed:	03/13/91	03/28/91		03/28/91	03/28/91	03/28/91		03/28/91	
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
HMX	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
RDX	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
TETRYL	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
TNB	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
TNT	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10655	10565		10566	10567	10568		10656	10657
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	03/28/91	03/27/91		03/27/91	03/27/91	03/27/91		03/28/91	03/28/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
HMX	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
RDX	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
TETRYL	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	No Sample	0.050U	0.050U
TNB	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
TNT	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10569	10570	10571	10572	10573	10658		10659
	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		03/27/91	03/27/91	03/27/91	03/27/91	03/27/91	03/28/91		03/28/91
EXPLOSIVES	MCL									
DNB	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
HMX	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
RDX	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
TETRYL	---	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	No Sample	0.050U
TNB	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
TNT	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U
2,4-DNT	---	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	No Sample	0.020U

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10660		10661	10662	10663			10664
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		03/28/91		03/28/91	03/28/91	03/28/91			03/28/91
EXPLOSIVES	MCL									
DNB	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U
HMX	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U
RDX	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U
TETRYL	---	No Sample	0.050U	No Sample	0.050U	0.050U	0.050U	Not Sampled	No Sample	0.050U
TNB	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U
TNT	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U
2,4-DNT	---	No Sample	0.020U	No Sample	0.020U	0.020U	0.020U	Not Sampled	No Sample	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10665			10574	10575		10666
	Date Sampled:			03/23/91			03/22/91	03/22/91		03/23/91
	Date Analyzed:			03/28/91			03/27/91	03/27/91		03/28/91
EXPLOSIVES	MCL									
DNB	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U
HMX	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U
RDX	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U
TETRYL	---	Not Sampled	No Sample	0.050U	Not Sampled	No Sample	0.050U	0.050U	Not Sampled	0.050U
TNB	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U
TNT	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U
2,4-DNT	---	Not Sampled	No Sample	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U

Analyte	Well No:	02C22P3
	Lab Sample No:	10667
	Date Sampled:	03/23/91
	Date Analyzed:	03/28/91
EXPLOSIVES	MCL	
DNB	---	0.020U
HMX	---	0.020U
RDX	---	0.020U
TETRYL	---	0.050U
TNB	---	0.020U
TNT	---	0.020U
2,4-DNT	---	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09539	10706		10707	10708	10709		10710	10711
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	03/31/91	06/07/91		06/07/91	06/07/91	06/07/91		06/07/91	06/07/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	0.00020JR	Not Sampled	0.000022JR	0.00017JR	0.012R	No Sample	0.012R	0.000019JR
2,4,5-T	---	0.0019R	0.00019BR	Not Sampled	0.000049BR	0.00018BR	0.000055BR	No Sample	0.00011BR	0.00028BR
2,4,5-TP	0.05(F)	0.0017R	0.00072BR	Not Sampled	0.00060BR	0.00069BR	0.00056BR	No Sample	0.00059BR	0.00065BR
Dinoseb	0.007(P)	0.00068R	0.00069R	Not Sampled	0.000031JR	0.000013JR	0.00071R	No Sample	0.00068R	0.00067R

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09570	10750		10751	10752	10753		10754	10755
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Anal. (Cn):	03/26/91	04/03/91		03/29/91	03/29/91	03/29/91		03/29/91	03/29/91
	Date Anal. (S):	03/19/91	03/28/91		04/03/91	04/03/91	04/03/91		04/03/91	04/03/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	No Sample	0.005U	0.005U
Sulfide	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	No Sample	0.020U	0.020U

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10712			10596	10597	10598		10713	10714
	Date Sampled:	03/23/91			03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	06/07/91			06/06/91	06/06/91	06/06/91		06/06/91	06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	No Sample	Not Sampled	0.00019JR	0.012R	0.012R	No Sample	0.012R	0.000046BR
2,4,5-T	---	0.00014BR	No Sample	Not Sampled	0.00013BR	0.00011BR	0.000097BR	No Sample	0.000060BR	0.000039JR
2,4,5-TP	0.05(F)	0.000608R	No Sample	Not Sampled	0.000718R	0.00057BR	0.00021BR	No Sample	0.00057BR	0.00039BR
Dinoseb	0.007(P)	0.00072R	No Sample	Not Sampled	0.00011JR	0.00067R	0.00069R	No Sample	0.00069R	0.000004BR

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10756	10615		10616	10617	10618	10757	10758	10759
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Anal. (Cn):	04/03/91	04/03/91		04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91
	Date Anal. (S):	03/29/91	03/26/91		03/26/91	03/26/91	03/26/91	03/29/91	03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Sulfide	---	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U

	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10599	10600		10601	10602	10715		10716
Analyte	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		06/06/91	06/06/91		06/06/91	06/06/91	06/06/91		06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	NO SAMPLE	0.00025JR	0.012R	No Sample	0.00013JR	0.012R	0.000051BR	No Sample	0.012R
2,4,5-T	---	NO SAMPLE	0.00014BR	0.00012BR	No Sample	0.00013BR	0.000017BR	0.00027JR	No Sample	0.00020JR
2,4,5-TP	0.05(F)	NO SAMPLE	0.00076BR	0.00020BR	No Sample	0.00066BR	0.00055BR	0.0035BR	No Sample	0.00056BR
Dinoseb	0.007(P)	NO SAMPLE	0.000028JR	0.000004JR	No Sample	0.0007BR	0.00070R	0.000039BR	No Sample	0.000002BR

	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10619	10620	10621	10622	10623	10760	10761	10762
Analyte	Date Sampled:		03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Anal. (Cn):		04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91
	Date Anal. (S):		03/26/91	03/26/91	03/26/91	03/26/91	03/26/91	03/29/91	03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	NO SAMPLE	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Sulfide	---	NO SAMPLE	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10717		10718	10719	10720			10721
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		06/06/91		06/06/91	06/06/91	06/06/91			06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	No Sample	0.000002BR	No Sample	0.00023BR	0.000001BR	0.012R	Not Sampled	No Sample	0.0000568R
2,4,5-T	---	No Sample	0.000034JR	No Sample	0.000022JR	0.000013JR	0.000004JR	Not Sampled	No Sample	0.0020R
2,4,5-TP	0.05(F)	No Sample	0.00043BR	No Sample	0.00048BR	0.00043BR	0.00041BR	Not Sampled	No Sample	0.00031BR
Dinoseb	0.007(P)	No Sample	0.00067R	No Sample	0.000021BR	0.000004BR	0.00069R	Not Sampled	No Sample	0.000020BR

	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10763	10764	10765	10766	10767	10768		10769	10770
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Anal. (Cn):	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91	04/03/91		04/03/91	04/03/91
	Date Anal. (S):	03/29/91	03/29/91	03/29/91	03/29/91	03/29/91	03/29/91		03/29/91	03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Sulfide	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.025	0.020U

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10722				10603		10723
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			06/06/91				06/06/91		06/06/91
HERBICIDES	MCL									
2,4-D	0.07(F)	Not Sampled	No Sample	0.00018BR	Not Sampled	No Sample	No Sample	0.012R	Not Sampled	0.000020BR
2,4,5-T	---	Not Sampled	No Sample	0.000022JR	Not Sampled	No Sample	No Sample	0.000024BR	Not Sampled	0.00011JR
2,4,5-TP	0.05(F)	Not Sampled	No Sample	0.00037BR	Not Sampled	No Sample	No Sample	0.00052BR	Not Sampled	0.00046BR
Dinoseb	0.007(P)	Not Sampled	No Sample	0.000066BR	Not Sampled	No Sample	No Sample	0.000032JR	Not Sampled	0.00071BR

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10770	10772			10624	10625		10773
	Date Sampled:		03/23/91	03/23/91			03/22/91	03/22/91		03/23/91
	Date Anal. (Cn):		04/03/91	04/03/91			04/03/91	04/03/91		04/03/91
	Date Anal. (S):		03/29/91	03/29/91			03/26/91	03/26/91		03/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Sulfide	---	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	0.020U	Not Sampled	0.020U

	Well No:	02C22P3
	Lab Sample No:	10724
Analyte	Date Sampled:	03/23/91
	Date Analyzed:	06/06/91
HERBICIDES	MCL	
2,4-D	0.07(F)	0.000061BR
2,4,5-T	---	0.000006JR
2,4,5-TP	0.05(F)	0.00043BR
Dinoseb	0.007(P)	0.00068R

	Well No:	02C22P3
	Lab Sample No:	10774
	Date Sampled:	03/23/91
	Date Anal. (Cn):	04/03/91
	Date Anal. (S):	03/29/91
CYANIDE and SULFIDE	MCL	
Cyanide	0.2(P)	0.005U
Sulfide	---	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	F82	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09560	10725		10726	10727	10728		10729	10730
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	04/13/91	06/21/91		06/21/91	06/21/91	06/21/91		06/21/91	06/21/91
METALS	MCL									
Aluminum	---	0.010U	0.170B	Not Sampled	0.010U	0.010U	4.63	No Sample	0.356	0.010U
Antimony	0.01(P)	0.0030U	0.0030U	Not Sampled	0.0030UW	0.0123B	0.0030B	No Sample	0.0030U	0.0032B
Arsenic	0.05(F)	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	No Sample	0.0020U	0.0020U
Barium	2.0(F)	0.010U	0.010U	Not Sampled	0.016B	0.015B	0.010U	No Sample	0.010U	0.010U
Beryllium	0.001(P)	0.002U	0.001U	Not Sampled	0.001U	0.001U	0.001U	No Sample	0.001U	0.001U
Cadmium	0.005(F)	0.004U	0.004U	Not Sampled	0.004U	0.004U	0.004U	No Sample	0.004U	0.004U
Calcium	---	0.050U	15.5	Not Sampled	318	172	331	No Sample	577	363
Chromium	0.1(F)	0.012U	0.005U	Not Sampled	0.005U	0.005U	0.005U	No Sample	0.005U	0.005U
Cobalt	---	0.005U	0.015B	Not Sampled	0.036B	0.024B	0.327	No Sample	0.63B	0.039B
Copper	1.3(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	No Sample	0.005U	0.005U
Iron	---	0.010U	0.010U	Not Sampled	0.343	0.013B	0.583	No Sample	0.526	0.017B
Lead	0.015(F)	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	No Sample	0.0010U	0.0010U
Magnesium	---	0.130U	2.87B	Not Sampled	80.2	47.2	109	No Sample	333	115
Manganese	---	0.005U	0.005U	Not Sampled	3.55	0.316	3.49	No Sample	14.8	0.005U
Mercury	0.002(F)	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	No Sample	0.0002U	0.0002U
Nickel	0.1(P)	0.005U	0.005U	Not Sampled	0.034B	0.005U	1.15	No Sample	1.67	0.005U
Potassium	---	2.50	1.00U	Not Sampled	4.21B	3.39B	5.22	No Sample	5.70	2.31B
Selenium	0.05(F)	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	No Sample	0.0022B	0.0043B
Silver	---	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	No Sample	0.0010U	0.0010U
Sodium	---	0.065B	4.41B	Not Sampled	32.4	14.1	45.2	No Sample	71.5	53.9
Thallium	0.002(P)	0.0020U	0.0020UW	Not Sampled	0.0020UW	0.0020UW	0.0020UW	No Sample	0.0020UW	0.0020UW
Tin	---	0.025U	0.035U	Not Sampled	0.035U	0.035U	0.035U	No Sample	0.035U	0.035U
Vanadium	---	0.020U	0.005U	Not Sampled	0.005U	0.005U	0.005U	No Sample	0.005U	0.005U
Zinc	---	0.006B	0.006U	Not Sampled	0.006U	0.006U	0.755	No Sample	1.17	0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10731	10604		10605	10606	10607	10732	10733	10734
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	06/21/91	06/11/91		06/11/91	06/11/91	06/11/91	06/21/91	06/21/91	06/21/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	Not Sampled	0.010U	0.093B	0.010U	0.010U	0.039B	29.5
Antimony	0.01(P)	0.0116B	0.0187B	Not Sampled	0.0113B	0.0142B	0.0042B	0.0216B	0.0099B	0.0123B
Arsenic	0.05(F)	0.0020U	0.0023B	Not Sampled	0.0114B	0.0022B	0.0020U	0.0126	0.0020U	0.0020U
Barium	2.0(F)	0.010U	0.026B	Not Sampled	0.010U	0.037B	0.019B	0.033B	0.025B	0.010U
Beryllium	0.001(P)	0.001U	0.001U	Not Sampled	0.001U	0.001U	0.001U	0.001U	0.001U	0.005
Cadmium	0.005(F)	0.004U	0.004U	Not Sampled	0.004U	0.004U	0.004U	0.004U	0.004U	0.005
Calcium	---	496	63.7	Not Sampled	83.8	125	27.7	6.99	163	166
Chromium	0.1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Cobalt	---	0.048B	0.006U	Not Sampled	0.006U	0.006U	0.006U	0.028B	0.051	0.442
Copper	1.3(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.010B
Iron	---	0.055B	0.024B	Not Sampled	0.023B	0.671B	0.350	0.044B	0.022B	4.70
Lead	0.015(F)	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0036B	0.0010U	0.0160
Magnesium	---	162	50.4	Not Sampled	65.2	83.5	209	1.68B	27.7	68.2
Manganese	---	1.22	0.017	Not Sampled	0.020	0.179	1.47	0.005U	0.415	1.92
Mercury	0.002(F)	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	0.057	0.005B	Not Sampled	0.005B	0.005U	0.005U	0.005U	0.139	0.944
Potassium	---	3.17B	7.70	Not Sampled	10.2	8.48	1.00U	72.8	5.55	4.55B
Selenium	0.05(F)	0.0029B	0.0023B	Not Sampled	0.0032B	0.0020U	0.0020U	0.0069B	0.0020U	0.0020U
Silver	---	0.0010U	0.0010UW	Not Sampled	0.0010U	0.0010UW	0.0010UW	0.0010UW	0.0010UW	0.0010U
Sodium	---	63.3	69.6	Not Sampled	266	24.1	27.4	194	41.9	49.7
Thallium	0.002(P)	0.0020UW	0.0020UW	Not Sampled	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW
Tin	---	0.035U	0.035U	Not Sampled	0.035U	0.035U	0.035U	0.035U	0.035U	0.035U
Vanadium	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Zinc	---	0.070	0.006U	Not Sampled	0.006U	0.006U	0.027	0.006U	0.178	1.78

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10608	10609		10610	10611	10735	10736	10737
	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:		06/11/91	06/11/91		06/11/91	06/11/91	06/21/91	06/21/91	06/21/91
METALS	MCL									
Aluminum	---	No Sample	0.018B	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U
Antimony	0.01(P)	No Sample	0.0070B	0.0137B	No Sample	0.0063B	0.0030B	0.0041B	0.0233B	0.0128B
Arsenic	0.05(F)	No Sample	0.0020U	0.0020U	No Sample	0.0020U	0.0020U	0.0052B	0.0020U	0.0020U
Barium	2.0(F)	No Sample	0.050B	0.017B	No Sample	0.029B	0.020B	0.013B	0.043B	0.010U
Beryllium	0.001(P)	No Sample	0.001U	0.001U	No Sample	0.001U	0.001U	0.001U	0.001U	0.001U
Cadmium	0.005(F)	No Sample	0.004U	0.004U	No Sample	0.004U	0.004U	0.004U	0.004U	0.004U
Calcium	---	No Sample	127	251	No Sample	263	13.9	37.7	236	24.1
Chromium	0.1(F)	No Sample	0.005U	0.005U	No Sample	0.005U	0.005U	0.005U	0.005U	0.005U
Cobalt	---	No Sample	0.012B	0.006B	No Sample	0.028B	0.006U	0.026B	0.029B	0.019B
Copper	1.3(F)	No Sample	0.005U	0.005U	No Sample	0.005U	0.005U	0.005U	0.005U	0.005U
Iron	---	No Sample	0.010B	0.070B	No Sample	1.08	0.172	0.010U	0.010U	0.010U
Lead	0.015(F)	No Sample	0.0010U	0.0010UW	No Sample	0.0010UW	0.0010U	0.0010U	0.0020B	0.0010B
Magnesium	---	No Sample	0.150U	194	No Sample	177	10.1	45.0	0.452B	7.83
Manganese	---	No Sample	0.005U	1.35	No Sample	2.25	0.265	0.005U	0.005U	0.074
Mercury	0.002(F)	No Sample	0.0002U	0.0002U	No Sample	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	No Sample	0.005U	0.011B	No Sample	0.029B	0.006B	0.005U	0.005U	0.005U
Potassium	---	No Sample	8.54	25.5	No Sample	7.49	1.00U	12.3	12.3	1.00U
Selenium	0.05(F)	No Sample	0.0020U	0.0020U	No Sample	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U
Silver	---	No Sample	0.0010UW	0.0010UW	No Sample	0.0010UW	0.0010UW	0.0010U	0.0010U	0.0010U
Sodium	---	No Sample	89.5	174	No Sample	80.0	33.2	74.1	22.9	8.54
Thallium	0.002(P)	No Sample	0.0020UW	0.0020UW	No Sample	0.0020UW	0.0020UW	0.0020UW	0.0080UW	0.0020UW
Tin	---	No Sample	0.035U	0.035U	No Sample	0.035U	0.035U	0.035U	0.035U	0.035U
Vanadium	---	No Sample	0.005U	0.005U	No Sample	0.005U	0.005U	0.005U	0.007B	0.005U
Zinc	---	No Sample	0.006U	0.007B	No Sample	0.006U	0.006U	0.006U	0.006U	0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10738	10739	10740	10741	10742	10743		10744	10745
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	06/21/91	06/21/91	06/21/91	06/21/91	06/21/91	06/21/91		06/21/91	06/21/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.010U	0.703	0.010U	0.010U	Not Sampled	0.010U	0.010U
Antimony	0.01(P)	0.0207B	0.0041B	0.0103B	0.0127B	0.0036B	0.0037B	Not Sampled	0.0173B	0.0178B
Arsenic	0.05(F)	0.0020U	0.0028B	0.0020U	0.0022B	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Barium	2.0(F)	0.019B	0.013B	0.027B	0.010U	0.012B	0.010U	Not Sampled	0.010U	0.010U
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	Not Sampled	0.001U	0.001U
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	Not Sampled	0.004U	0.004U
Calcium	---	35.6	184	9.78	69.9	94.4	495	Not Sampled	72.2	379
Chromium	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Cobalt	---	0.018B	0.066	0.024B	0.046B	0.028B	0.085	Not Sampled	0.031B	0.067
Copper	1.3(F)	0.017B	0.005U	0.005U	0.006B	0.005U	0.005U	Not Sampled	0.005U	0.005U
Iron	---	0.010U	4.15	0.010U	0.045B	0.010U	0.306	Not Sampled	0.118	3.04
Lead	0.015(F)	0.0016B	0.0010U	0.0010U	0.0014B	0.0010U	0.0010U	Not Sampled	0.0011B	0.0010U
Magnesium	---	53.7	39.0	25.8	29.3	45.5	189	Not Sampled	26.1	115
Manganese	---	0.007B	1.43	0.005U	0.464	0.015	1.14	Not Sampled	0.073	1.55
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U
Nickel	0.1(P)	0.005U	0.066	0.005U	0.224	0.005U	0.116	Not Sampled	0.005U	0.093
Potassium	---	35.9	6.21	50.5	3.13B	7.85	7.10	Not Sampled	6.91	7.70
Selenium	0.05(F)	0.0042B	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U
Sodium	---	46.1	22.3	71.6	20.5	55.8	77.0	Not Sampled	90.7	51.4
Thallium	0.002(P)	0.0080U	0.0080U	0.0080U	0.0080U	0.0080U	0.0080UW	Not Sampled	0.0080U	0.0080U
Tin	---	0.035U	0.035U	0.035U	0.035U	0.035U	0.035U	Not Sampled	0.035U	0.035U
Vanadium	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.006B	Not Sampled	0.005U	0.005U
Zinc	---	0.006U	0.037	0.006U	0.069	0.006U	0.116	Not Sampled	0.006U	0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10746	10747		10614	10612	10613		10748
	Date Sampled:		03/23/91	03/23/91		03/22/91	03/22/91	03/22/91		03/23/91
	Date Analyzed:		06/21/91	06/21/91		06/11/91	06/11/91	06/11/91		06/21/91
METALS	MCL									
Aluminum	---	Not Sampled	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	0.010U
Antimony	0.01(P)	Not Sampled	0.0068B	0.0041B	Not Sampled	0.0191B	0.0069B	0.0051B	Not Sampled	0.0046B
Arsenic	0.05(F)	Not Sampled	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U
Barium	2.0(F)	Not Sampled	0.010U	0.010U	Not Sampled	0.047B	0.041B	0.010U	Not Sampled	0.010U
Beryllium	0.001(P)	Not Sampled	0.001U	0.001U	Not Sampled	0.001U	0.001U	0.001U	Not Sampled	0.001U
Cadmium	0.005(F)	Not Sampled	0.004U	0.004U	Not Sampled	0.004U	0.004U	0.004U	Not Sampled	0.004U
Calcium	---	Not Sampled	21.9	157	Not Sampled	13.5	10.3	203	Not Sampled	14.3
Chromium	0.1(F)	Not Sampled	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	0.005U
Cobalt	---	Not Sampled	0.023B	0.048B	Not Sampled	0.006U	0.006U	0.012B	Not Sampled	0.016B
Copper	1.3(F)	Not Sampled	0.005U	0.005U	Not Sampled	0.015B	0.005U	0.005U	Not Sampled	0.005U
Iron	---	Not Sampled	0.010U	3.26	Not Sampled	0.042B	0.010U	0.0261B	Not Sampled	0.010U
Lead	0.015(F)	Not Sampled	0.0010U	0.0010U	Not Sampled	0.0016B	0.0010U	0.0010UW	Not Sampled	0.0010U
Magnesium	---	Not Sampled	38.7	69.6	Not Sampled	2.33B	1.71B	178	Not Sampled	9.86
Manganese	---	Not Sampled	0.005U	2.49	Not Sampled	0.005U	0.005U	0.445	Not Sampled	0.005U
Mercury	0.002(F)	Not Sampled	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U
Nickel	0.1(P)	Not Sampled	0.005U	0.081	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	0.005U
Potassium	---	Not Sampled	16.4	6.02	Not Sampled	46.8	49.9	3.47B	Not Sampled	4.61B
Selenium	0.05(F)	Not Sampled	0.0020U	0.0020U	Not Sampled	0.0033B	0.0033B	0.0020U	Not Sampled	0.0020U
Silver	---	Not Sampled	0.0010U	0.0010U	Not Sampled	0.0010UW	0.0010UW	0.0010UW	Not Sampled	0.0010U
Sodium	---	Not Sampled	37.2	34.1	Not Sampled	52.5	53.4	163	Not Sampled	2.45B
Thallium	0.002(P)	Not Sampled	0.0080U	0.0080U	Not Sampled	0.0020UW	0.0020UW	0.0020UW	Not Sampled	0.0080U
Tin	---	Not Sampled	0.035U	0.035U	Not Sampled	0.035U	0.035U	0.035U	Not Sampled	0.035U
Vanadium	---	Not Sampled	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	0.005U
Zinc	---	Not Sampled	0.006U	0.006U	Not Sampled	0.006U	0.006U	0.006U	Not Sampled	0.006U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C22P3 / 10749 / 03/23/91 / 06/21/91
METALS	MCL	
Aluminum	---	0.963
Antimony	0.01(P)	0.0156B
Arsenic	0.05(F)	0.0028B
Barium	2.0(F)	0.010U
Beryllium	0.001(P)	0.005
Cadmium	0.005(F)	0.004U
Calcium	---	350
Chromium	0.1(F)	0.005U
Cobalt	---	0.224
Copper	1.3(F)	0.005U
Iron	---	103
Lead	0.015(F)	0.0024B
Magnesium	---	297
Manganese	---	30.1
Mercury	0.002(F)	0.0002U
Nickel	0.1(P)	0.593
Potassium	---	14.3
Selenium	0.05(F)	0.0020U
Silver	---	0.0010U
Sodium	---	22.5
Thallium	0.002(P)	0.0080U
Tin	---	0.035U
Vanadium	---	0.006B
Zinc	---	0.373

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09529	10687		10688	10689	10690		10691	10692
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	05/04/91	05/16/91		05/16/91	05/16/91	05/16/91		05/16/91	05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000030R	0.000030R	Not Sampled	0.000030R	0.000030R	0.000029R	No Sample	0.000032R	0.000029R
a-CHLORDANE	0.002(F)	0.000051R	0.000050R	Not Sampled	0.000051R	0.000050R	0.000049R	No Sample	0.000054R	0.000048R
A-Endosulfan	---	0.00014R	0.00014R	Not Sampled	0.00014R	0.000004JR	0.00014R	No Sample	0.00015R	0.00013R
Aldrin	---	0.000040R	0.000040R	Not Sampled	0.000040R	0.000040R	0.000039R	No Sample	0.000043R	0.000038R
B-BHC	---	0.000061R	0.000059R	Not Sampled	0.000061R	0.000060R	0.000058R	No Sample	0.000065R	0.000058R
B-Endosulfan	---	0.000040R	0.000040R	Not Sampled	0.000040R	0.000040R	0.000039R	No Sample	0.000043R	0.000038R
D-BHC	---	0.000091R	0.000089R	Not Sampled	0.000091R	0.000090R	0.000087R	No Sample	0.000097R	0.000087R
Dieldrin	---	0.000020R	0.000020R	Not Sampled	0.000020R	0.000020R	0.000019R	No Sample	0.000022R	0.000019R
Disulfoton	---	0.00071R	0.00069R	Not Sampled	0.00071R	0.00070R	0.00068R	No Sample	0.00075R	0.00067R
Endosulfan sulfate	---	0.00067R	0.00065R	Not Sampled	0.00067R	0.00066R	0.00064R	No Sample	0.00071R	0.00063R
Endrin	0.002(F)	0.000061R	0.000002JR	Not Sampled	0.000061R	0.000060R	0.000058R	No Sample	0.000065R	0.000058R
Endrin Aldehyde	---	0.00023R	0.00023R	Not Sampled	0.00023R	0.00023R	0.00022R	No Sample	0.00025R	0.00022R
Ethyl Parathion	---	0.00061R	0.00059R	Not Sampled	0.00061R	0.00060R	0.00058R	No Sample	0.00064R	0.00058R
Famphur	---	0.0012R	0.0012R	Not Sampled	0.0012R	0.0012R	0.0012R	No Sample	0.0013R	0.0012R
G-BHC	---	0.000040R	0.000040R	Not Sampled	0.000040R	0.000040R	0.000039R	No Sample	0.000043R	0.000038R
g-CHLORDANE	0.002(F)	0.000051R	0.000050R	Not Sampled	0.000051R	0.000050R	0.000049R	No Sample	0.000054R	0.000048R
Heptachlor	0.0004(F)	0.000030R	0.000030R	Not Sampled	0.000025JR	0.000030R	0.000029R	No Sample	0.000032R	0.000009JR
Heptachlor Epoxide	0.0002(F)	0.00084R	0.00082R	Not Sampled	0.00084R	0.00083R	0.00081R	No Sample	0.000004JR	0.00080R
KEPONE	---	0.0061R	0.0059R	Not Sampled	0.0061R	0.0060R	0.0058R	No Sample	0.0065R	0.0058R
Methoxychlor	0.04(F)	0.0018R	0.0017R	Not Sampled	0.0018R	0.0018R	0.0017R	No Sample	0.0019R	0.0017R
Methyl Parathion	---	0.0012R	0.0012R	Not Sampled	0.0012R	0.0012R	0.0012R	No Sample	0.0013R	0.0012R
PCB-1016	0.0005(F)	0.0007R	0.0006R	Not Sampled	0.0007R	0.0007R	0.0006R	No Sample	0.0007R	0.0006R
PCB-1221	0.0005(F)	0.0007R	0.0006R	Not Sampled	0.0007R	0.0007R	0.0006R	No Sample	0.0007R	0.0006R
PCB-1232	0.0005(F)	0.0007R	0.0006R	Not Sampled	0.0007R	0.0007R	0.0006R	No Sample	0.0007R	0.0006R
PCB-1242	0.0005(F)	0.0007R	0.0006R	Not Sampled	0.0007R	0.0007R	0.0006R	No Sample	0.0007R	0.0006R
PCB-1248	0.0005(F)	0.0007R	0.0006R	Not Sampled	0.0007R	0.0007R	0.0006R	No Sample	0.0007R	0.0006R
PCB-1254	0.0005(F)	0.0013R	0.0013R	Not Sampled	0.0013R	0.0013R	0.0013R	No Sample	0.0014R	0.0012R
PCB-1260	0.0005(F)	0.0013R	0.0013R	Not Sampled	0.0013R	0.0013R	0.0013R	No Sample	0.0014R	0.0012R
Phorate	---	0.00040R	0.00040R	Not Sampled	0.00040R	0.00040R	0.00039R	No Sample	0.00043R	0.00038R
PPDDD	---	0.00011R	0.00011R	Not Sampled	0.00011R	0.00011R	0.00011R	No Sample	0.00012R	0.00011R
PPDDE	---	0.000040R	0.000040R	Not Sampled	0.000040R	0.000040R	0.000039R	No Sample	0.000043R	0.000038R
PPDDT	---	0.00012R	0.00012R	Not Sampled	0.00012R	0.00012R	0.00012R	No Sample	0.00013R	0.00012R
Toxaphene	0.003(F)	0.0024R	0.0024R	Not Sampled	0.0024R	0.0024R	0.0023R	No Sample	0.0026R	0.0023R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10693	10587		10588	10589	10590		10694	10695
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91		03/23/91	03/23/91
	Date Analyzed:	05/16/91	05/14/91		05/14/91	05/14/91	05/14/91		05/16/91	05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029R	0.000029R	Not Sampled	0.000033R	0.000029R	0.000031R	No Sample	0.000029R	0.000038R
a-CHLORDANE	0.002(F)	0.000049R	0.000048R	Not Sampled	0.000055R	0.000049R	0.000051R	No Sample	0.000049R	0.000063R
A-Endosulfan	---	0.00014R	0.00013R	Not Sampled	0.00015R	0.00014R	0.00014R	No Sample	0.00014R	0.00001JR
Aldrin	---	0.000039R	0.000038R	Not Sampled	0.000044R	0.000039R	0.000041R	No Sample	0.000039R	0.000051R
B-BHC	---	0.000058R	0.000057R	Not Sampled	0.000066R	0.000058R	0.000061R	No Sample	0.000059R	0.000076R
B-Endosulfan	---	0.000039R	0.000038R	Not Sampled	0.000044R	0.000039R	0.000041R	No Sample	0.000039R	0.000051R
D-BHC	---	0.000087R	0.000086R	Not Sampled	0.000099R	0.000087R	0.000092R	No Sample	0.000088R	0.00011R
Dieldrin	---	0.000019R	0.000019R	Not Sampled	0.000022R	0.000019R	0.000020R	No Sample	0.000020R	0.000025R
Disulfoton	---	0.00068R	0.00067R	Not Sampled	0.00077R	0.00068R	0.00071R	No Sample	0.00069R	0.00089R
Endosulfan sulfate	---	0.00064R	0.00063R	Not Sampled	0.00073R	0.00064R	0.00067R	No Sample	0.00065R	0.00084R
Endrin	0.002(P)	0.000058R	0.000057R	Not Sampled	0.000066R	0.000058R	0.000061R	No Sample	0.000059R	0.000076R
Endrin Aldehyde	---	0.00022R	0.00022R	Not Sampled	0.00025R	0.00022R	0.00023R	No Sample	0.00023R	0.00029R
Ethyl Parathion	---	0.00058R	0.00057R	Not Sampled	0.00066R	0.00058R	0.00061R	No Sample	0.00059R	0.00076R
Famphur	---	0.0012R	0.0011R	Not Sampled	0.0013R	0.0012R	0.0012R	No Sample	0.0012R	0.0015R
G-BHC	---	0.000039R	0.000038R	Not Sampled	0.000044R	0.000039R	0.000041R	No Sample	0.000039R	0.000051R
g-CHLORDANE	0.002(F)	0.000049R	0.000048R	Not Sampled	0.000055R	0.000049R	0.000051R	No Sample	0.000049R	0.000063R
Heptachlor	0.0004(F)	0.000029R	0.000029R	Not Sampled	0.000033R	0.000029R	0.000031R	No Sample	0.000013JR	0.000038R
Heptachlor Epoxide	0.0002(F)	0.000004JR	0.00079R	Not Sampled	0.00091R	0.00081R	0.00085R	No Sample	0.00081R	0.0011R
KEPONE	---	0.0058R	0.0057R	Not Sampled	0.0066R	0.0058R	0.0061R	No Sample	0.0059R	0.0076R
Methoxychlor	0.04(F)	0.0017R	0.0017R	Not Sampled	0.0019R	0.0017R	0.0018R	No Sample	0.0017R	0.0022R
Methyl Parathion	---	0.0012R	0.0011R	Not Sampled	0.0013R	0.0012R	0.0012R	No Sample	0.0012R	0.0015R
PCB-1016	0.0005(F)	0.0006R	0.0006R	Not Sampled	0.0007R	0.0006R	0.0007R	No Sample	0.0006R	0.0008R
PCB-1221	0.0005(F)	0.0006R	0.0006R	Not Sampled	0.0007R	0.0006R	0.0007R	No Sample	0.0006R	0.0008R
PCB-1232	0.0005(F)	0.0006R	0.0006R	Not Sampled	0.0007R	0.0006R	0.0007R	No Sample	0.0006R	0.0008R
PCB-1242	0.0005(F)	0.0006R	0.0006R	Not Sampled	0.0007R	0.0006R	0.0007R	No Sample	0.0006R	0.0008R
PCB-1248	0.0005(F)	0.0006R	0.0006R	Not Sampled	0.0007R	0.0006R	0.0007R	No Sample	0.0006R	0.0008R
PCB-1254	0.0005(F)	0.0013R	0.0012R	Not Sampled	0.0014R	0.00027JR	0.0013R	No Sample	0.00019JR	0.00024JR
PCB-1260	0.0005(F)	0.0013R	0.0012R	Not Sampled	0.0014R	0.0013R	0.0013R	No Sample	0.0013R	0.0016R
Phorate	---	0.00039R	0.00038R	Not Sampled	0.00044R	0.00039R	0.00041R	No Sample	0.00039R	0.00051R
PPDDD	---	0.00011R	0.00010R	Not Sampled	0.00012R	0.00011R	0.00011R	No Sample	0.00011R	0.00014R
PPDDE	---	0.000039R	0.000038R	Not Sampled	0.000044R	0.000039R	0.000041R	No Sample	0.000039R	0.000051R
PPDDT	---	0.00012R	0.00011R	Not Sampled	0.00013R	0.00012R	0.00012R	No Sample	0.00012R	0.00015R
Toxaphene	0.003(F)	0.0023R	0.0023R	Not Sampled	0.0026R	0.0023R	0.0024R	No Sample	0.0024R	0.0030R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:		10591	10592		10593	10594	10696		10697
	Date Sampled:		03/22/91	03/22/91		03/22/91	03/22/91	03/23/91		03/23/91
	Date Analyzed:		05/14/91	05/14/91		05/14/91	05/14/91	05/16/91		05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	0.000033R	0.000029R	No Sample	0.000036R	0.000030R	0.000032R	No Sample	0.000032R
a-CHLORDANE	0.002(F)	No Sample	0.000055R	0.000048R	No Sample	0.000060R	0.000050R	0.000054R	No Sample	0.000054R
A-Endosulfan	---	No Sample	0.00015R	0.00013R	No Sample	0.00017R	0.00014R	0.00015R	No Sample	0.00015R
Aldrin	---	No Sample	0.000044R	0.000038R	No Sample	0.000048R	0.000040R	0.000043R	No Sample	0.000043R
B-BHC	---	No Sample	0.000066R	0.000057R	No Sample	0.000072R	0.000059R	0.000065R	No Sample	0.000065R
B-Endosulfan	---	No Sample	0.000044R	0.000038R	No Sample	0.000048R	0.000040R	0.000043R	No Sample	0.000043R
D-BHC	---	No Sample	0.000099R	0.000086R	No Sample	0.00011R	0.000089R	0.000097R	No Sample	0.000097R
Dieldrin	---	No Sample	0.000022R	0.000019R	No Sample	0.000024R	0.000020R	0.000022R	No Sample	0.000022R
Disulfoton	---	No Sample	0.00077R	0.00067R	No Sample	0.00084R	0.00069R	0.00075R	No Sample	0.00075R
Endosulfan sulfate	---	No Sample	0.00073R	0.00063R	No Sample	0.00080R	0.00065R	0.00071R	No Sample	0.00071R
Endrin	0.002(P)	No Sample	0.000066R	0.000057R	No Sample	0.000072R	0.000059R	0.000065R	No Sample	0.000065R
Endrin Aldehyde	---	No Sample	0.00025R	0.00022R	No Sample	0.00028R	0.00023R	0.00025R	No Sample	0.00025R
Ethyl Parathion	---	No Sample	0.00066R	0.00057R	No Sample	0.00072R	0.00059R	0.00064R	No Sample	0.00064R
Famphur	---	No Sample	0.0013R	0.0011R	No Sample	0.0014R	0.0012R	0.0013R	No Sample	0.0013R
G-BHC	---	No Sample	0.000044R	0.000038R	No Sample	0.000048R	0.000040R	0.000043R	No Sample	0.000043R
g-CHLORDANE	0.002(F)	No Sample	0.000055R	0.000048R	No Sample	0.000060R	0.000050R	0.000054R	No Sample	0.000054R
Heptachlor	0.0004(F)	No Sample	0.000033R	0.000029R	No Sample	0.000036R	0.000025JR	0.000032R	No Sample	0.000032R
Heptachlor Epoxide	0.0002(F)	No Sample	0.00091R	0.00079R	No Sample	0.0010R	0.000014JR	0.00089R	No Sample	0.00089R
KEPONE	---	No Sample	0.0066R	0.0057R	No Sample	0.0072R	0.0059R	0.0065R	No Sample	0.0065R
Methoxychlor	0.04(F)	No Sample	0.0019R	0.0017R	No Sample	0.0021R	0.0017R	0.0019R	No Sample	0.0019R
Methyl Parathion	---	No Sample	0.0013R	0.0011R	No Sample	0.0014R	0.0012R	0.0013R	No Sample	0.0013R
PCB-1016	0.0005(F)	No Sample	0.0007R	0.0006R	No Sample	0.0008R	0.0006R	0.0007R	No Sample	0.0007R
PCB-1221	0.0005(F)	No Sample	0.0007R	0.0006R	No Sample	0.0008R	0.0006R	0.0007R	No Sample	0.0007R
PCB-1232	0.0005(F)	No Sample	0.0007R	0.0006R	No Sample	0.0008R	0.0006R	0.0007R	No Sample	0.0007R
PCB-1242	0.0005(F)	No Sample	0.0007R	0.0006R	No Sample	0.0008R	0.0006R	0.0007R	No Sample	0.0007R
PCB-1248	0.0005(F)	No Sample	0.0007R	0.0006R	No Sample	0.0008R	0.0006R	0.0007R	No Sample	0.0007R
PCB-1254	0.0005(F)	No Sample	0.00055JR	0.00047JR	No Sample	0.00020JR	0.00046JR	0.00013JR	No Sample	0.0014R
PCB-1260	0.0005(F)	No Sample	0.0014R	0.0012R	No Sample	0.0016R	0.0013R	0.0014R	No Sample	0.0014R
Phorate	---	No Sample	0.00044R	0.00038R	No Sample	0.00048R	0.00040R	0.00043R	No Sample	0.00043R
PPDDD	---	No Sample	0.00012R	0.00010R	No Sample	0.00013R	0.00011R	0.000004JR	No Sample	0.00012R
PPDDE	---	No Sample	0.000044R	0.000038R	No Sample	0.000048R	0.000040R	0.000043R	No Sample	0.000043R
PPDDT	---	No Sample	0.00013R	0.00011R	No Sample	0.00014R	0.00012R	0.00013R	No Sample	0.00013R
Toxaphene	0.003(F)	No Sample	0.0026R	0.0023R	No Sample	0.0029R	0.0024R	0.0026R	No Sample	0.0026R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:		10698		10699	10700	10701			10702
	Date Sampled:		03/23/91		03/23/91	03/23/91	03/23/91			03/23/91
	Date Analyzed:		05/16/91		05/16/91	05/16/91	05/16/91			05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	0.000031R	NO SAMPLE	0.000029R	0.000033R	0.000031R	Not Sampled	No Sample	0.000029R
a-CHLORDANE	0.002(F)	No Sample	0.000051R	NO SAMPLE	0.000048R	0.000054R	0.000052R	Not Sampled	No Sample	0.000049R
A-Endosulfan	---	No Sample	0.00014R	NO SAMPLE	0.00013R	0.00015R	0.00015R	Not Sampled	No Sample	0.00014R
Aldrin	---	No Sample	0.000041R	NO SAMPLE	0.000038R	0.000043R	0.000042R	Not Sampled	No Sample	0.000039R
B-BHC	---	No Sample	0.000061R	NO SAMPLE	0.000058R	0.000065R	0.000063R	Not Sampled	No Sample	0.000058R
B-Endosulfan	---	No Sample	0.000041R	NO SAMPLE	0.000038R	0.000043R	0.000042R	Not Sampled	No Sample	0.000039R
D-BHC	---	No Sample	0.000092R	NO SAMPLE	0.000087R	0.000098R	0.000094R	Not Sampled	No Sample	0.000087R
Dieldrin	---	No Sample	0.000020R	NO SAMPLE	0.000019R	0.000022R	0.000021R	Not Sampled	No Sample	0.000019R
Disulfoton	---	No Sample	0.00071R	NO SAMPLE	0.00067R	0.00076R	0.00073R	Not Sampled	No Sample	0.00068R
Endosulfan sulfate	---	No Sample	0.00067R	NO SAMPLE	0.00063R	0.00072R	0.00069R	Not Sampled	No Sample	0.00064R
Endrin	0.002(P)	No Sample	0.000061R	NO SAMPLE	0.000058R	0.000065R	0.000063R	Not Sampled	No Sample	0.000058R
Endrin Aldehyde	---	No Sample	0.00023R	NO SAMPLE	0.00022R	0.00025R	0.00024R	Not Sampled	No Sample	0.00022R
Ethyl Parathion	---	No Sample	0.00061R	NO SAMPLE	0.00058R	0.00065R	0.00062R	Not Sampled	No Sample	0.00058R
Famphur	---	No Sample	0.0012R	NO SAMPLE	0.0012R	0.0013R	0.0012R	Not Sampled	No Sample	0.0012R
G-BHC	---	No Sample	0.000041R	NO SAMPLE	0.000038R	0.000043R	0.000042R	Not Sampled	No Sample	0.000039R
g-CHLORDANE	0.002(F)	No Sample	0.000051R	NO SAMPLE	0.000048R	0.000054R	0.000052R	Not Sampled	No Sample	0.000049R
Heptachlor	0.0004(F)	No Sample	0.000031R	NO SAMPLE	0.000029R	0.000033R	0.000031R	Not Sampled	No Sample	0.000029R
Heptachlor Epoxide	0.0002(F)	No Sample	0.00085R	NO SAMPLE	0.00080R	0.00090R	0.00086R	Not Sampled	No Sample	0.00081R
KEPONE	---	No Sample	0.0061R	NO SAMPLE	0.0058R	0.0065R	0.0063R	Not Sampled	No Sample	0.0058R
Methoxychlor	0.04(F)	No Sample	0.0018R	NO SAMPLE	0.0017R	0.0019R	0.0018R	Not Sampled	No Sample	0.0017R
Methyl Parathion	---	No Sample	0.0012R	NO SAMPLE	0.0012R	0.0013R	0.0012R	Not Sampled	No Sample	0.0012R
PCB-1016	0.0005(F)	No Sample	0.0007R	NO SAMPLE	0.0006R	0.0007R	0.0007R	Not Sampled	No Sample	0.0006R
PCB-1221	0.0005(F)	No Sample	0.0007R	NO SAMPLE	0.0006R	0.0007R	0.0007R	Not Sampled	No Sample	0.0006R
PCB-1232	0.0005(F)	No Sample	0.0007R	NO SAMPLE	0.0006R	0.0007R	0.0007R	Not Sampled	No Sample	0.0006R
PCB-1242	0.0005(F)	No Sample	0.0007R	NO SAMPLE	0.0006R	0.0007R	0.0007R	Not Sampled	No Sample	0.0006R
PCB-1248	0.0005(F)	No Sample	0.0007R	NO SAMPLE	0.0006R	0.0007R	0.0007R	Not Sampled	No Sample	0.0006R
PCB-1254	0.0005(F)	No Sample	0.0013R	NO SAMPLE	0.0012R	0.00045J	0.00015JR	Not Sampled	No Sample	0.0013R
PCB-1260	0.0005(F)	No Sample	0.0013R	NO SAMPLE	0.0012R	0.0014R	0.0014R	Not Sampled	No Sample	0.0013R
Phorate	---	No Sample	0.00041R	NO SAMPLE	0.00038R	0.00043R	0.00042R	Not Sampled	No Sample	0.00039R
PPDDD	---	No Sample	0.00011R	NO SAMPLE	0.00011R	0.00012R	0.00011R	Not Sampled	No Sample	0.00011R
PPDDE	---	No Sample	0.000041R	NO SAMPLE	0.000038R	0.000043R	0.000042R	Not Sampled	No Sample	0.000039R
PPDDT	---	No Sample	0.00012R	NO SAMPLE	0.00012R	0.00013R	0.00013R	Not Sampled	No Sample	0.00012R
Toxaphene	0.003(F)	No Sample	0.0024R	NO SAMPLE	0.0023R	0.0026R	0.0025R	Not Sampled	No Sample	0.0023R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:			10703				10595		10704
	Date Sampled:			03/23/91				03/22/91		03/23/91
	Date Analyzed:			05/16/91				05/14/91		05/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	Not Sampled	No Sample	0.000029R	Not Sampled	No Sample	No Sample	0.000029R	No Sample	0.000030R
a-CHLORDANE	0.002(F)	Not Sampled	No Sample	0.000048R	Not Sampled	No Sample	No Sample	0.000048R	No Sample	0.000050R
A-Endosulfan	---	Not Sampled	No Sample	0.00013R	Not Sampled	No Sample	No Sample	0.00013R	No Sample	0.00014R
Aldrin	---	Not Sampled	No Sample	0.000038R	Not Sampled	No Sample	No Sample	0.000038R	No Sample	0.000040R
B-BHC	---	Not Sampled	No Sample	0.000058R	Not Sampled	No Sample	No Sample	0.000058R	No Sample	0.000059R
B-Endosulfan	---	Not Sampled	No Sample	0.000038R	Not Sampled	No Sample	No Sample	0.000038R	No Sample	0.000040R
D-BHC	---	Not Sampled	No Sample	0.000087R	Not Sampled	No Sample	No Sample	0.000087R	No Sample	0.000089R
Dieldrin	---	Not Sampled	No Sample	0.000019R	Not Sampled	No Sample	No Sample	0.000019R	No Sample	0.000020R
Disulfoton	---	Not Sampled	No Sample	0.00067R	Not Sampled	No Sample	No Sample	0.00067R	No Sample	0.00069R
Endosulfan sulfate	---	Not Sampled	No Sample	0.00063R	Not Sampled	No Sample	No Sample	0.00063R	No Sample	0.00065R
Endrin	0.002(P)	Not Sampled	No Sample	0.000058R	Not Sampled	No Sample	No Sample	0.000058R	No Sample	0.000059R
Endrin Aldehyde	---	Not Sampled	No Sample	0.00022R	Not Sampled	No Sample	No Sample	0.00022R	No Sample	0.00023R
Ethyl Parathion	---	Not Sampled	No Sample	0.00058R	Not Sampled	No Sample	No Sample	0.00058R	No Sample	0.00059R
Famphur	---	Not Sampled	No Sample	0.0012R	Not Sampled	No Sample	No Sample	0.0012R	No Sample	0.0012R
G-BHC	---	Not Sampled	No Sample	0.000038R	Not Sampled	No Sample	No Sample	0.000038R	No Sample	0.000040R
g-CHLORDANE	0.002(F)	Not Sampled	No Sample	0.000048R	Not Sampled	No Sample	No Sample	0.000048R	No Sample	0.000050R
Heptachlor	0.0004(F)	Not Sampled	No Sample	0.000029R	Not Sampled	No Sample	No Sample	0.000029R	No Sample	0.000030R
Heptachlor Epoxide	0.0002(F)	Not Sampled	No Sample	0.00080R	Not Sampled	No Sample	No Sample	0.00080R	No Sample	0.00082R
KEPONE	---	Not Sampled	No Sample	0.0058R	Not Sampled	No Sample	No Sample	0.0058R	No Sample	0.0059R
Methoxychlor	0.04(F)	Not Sampled	No Sample	0.0017R	Not Sampled	No Sample	No Sample	0.0017R	No Sample	0.0017R
Methyl Parathion	---	Not Sampled	No Sample	0.0012R	Not Sampled	No Sample	No Sample	0.0012R	No Sample	0.0012R
PCB-1016	0.0005(F)	Not Sampled	No Sample	0.0006R	Not Sampled	No Sample	No Sample	0.0006R	No Sample	0.0006R
PCB-1221	0.0005(F)	Not Sampled	No Sample	0.0006R	Not Sampled	No Sample	No Sample	0.0006R	No Sample	0.0006R
PCB-1232	0.0005(F)	Not Sampled	No Sample	0.0006R	Not Sampled	No Sample	No Sample	0.0006R	No Sample	0.0006R
PCB-1242	0.0005(F)	Not Sampled	No Sample	0.0006R	Not Sampled	No Sample	No Sample	0.0006R	No Sample	0.0006R
PCB-1248	0.0005(F)	Not Sampled	No Sample	0.0006R	Not Sampled	No Sample	No Sample	0.0006R	No Sample	0.0006R
PCB-1254	0.0005(F)	Not Sampled	No Sample	0.0012R	Not Sampled	No Sample	No Sample	0.00015JR	No Sample	0.0013R
PCB-1260	0.0005(F)	Not Sampled	No Sample	0.0012R	Not Sampled	No Sample	No Sample	0.0012R	No Sample	0.0013R
Phorate	---	Not Sampled	No Sample	0.00038R	Not Sampled	No Sample	No Sample	0.00038R	No Sample	0.00040R
PPDDD	---	Not Sampled	No Sample	0.00011R	Not Sampled	No Sample	No Sample	0.00011R	No Sample	0.00011R
PPDDE	---	Not Sampled	No Sample	0.000038R	Not Sampled	No Sample	No Sample	0.000038R	No Sample	0.000040R
PPDDT	---	Not Sampled	No Sample	0.00012R	Not Sampled	No Sample	No Sample	0.00012R	No Sample	0.00012R
Toxaphene	0.003(F)	Not Sampled	No Sample	0.0023R	Not Sampled	No Sample	No Sample	0.0023R	No Sample	0.0024R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C22P3 / 10705 / 03/23/91 / 05/16/91
PESTICIDES/PCBs	MCL	
A-BHC	—	0.000029R
a-CHLORDANE	0.002(F)	0.000048R
A-Endosulfan	—	0.00013R
Aldrin	—	0.000039R
B-BHC	—	0.000058R
B-Endosulfan	—	0.000038R
D-BHC	—	0.000087R
Dieldrin	—	0.000019R
Disulfoton	—	0.00067R
Endosulfan sulfate	—	0.00063R
Endrin	0.002(P)	0.000058R
Endrin Aldehyde	—	0.00022R
Ethyl Parathion	—	0.00059R
Famphur	—	0.0012R
G-BHC	—	0.000038R
g-CHLORDANE	0.002(F)	0.000048R
Heptachlor	0.0004(F)	0.000029R
Heptachlor Epoxide	0.0002(F)	0.00080R
KEPONE	—	0.0058R
Methoxychlor	0.04(F)	0.0017R
Methyl Parathion	—	0.0012R
PCB-1016	0.0005(F)	0.0006R
PCB-1221	0.0005(F)	0.0006R
PCB-1232	0.0005(F)	0.0006R
PCB-1242	0.0005(F)	0.0006R
PCB-1248	0.0005(F)	0.0006R
PCB-1254	0.0005(F)	0.0012R
PCB-1260	0.0005(F)	0.0012R
Phorate	—	0.00038R
PPDDD	—	0.00011R
PPDDE	—	0.000038R
PPDDT	—	0.00012R
Toxaphene	0.003(F)	0.0023R

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB2	R12B	02-01	02-02	02-03	02-04	02-05	02-06	02-07
	Lab Sample No:	09549	10775		10776	10777	10778	10552	10779	10780
	Date Sampled:	03/11/91	03/23/91		03/23/91	03/23/91	03/23/91	03/22/91	03/23/91	03/23/91
	Date Analyzed:	03/15/91	04/06/91		04/06/91	04/06/91	04/06/91	04/04/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.018BJ	0.007BJ	Not Sampled	0.0093BJ	0.0094BJ	0.0060BJ	0.0091BJ	0.0049BJ	0.0049BJ
Benzene	---	0.005U	0.0020BJ	Not Sampled	0.0022BJ	0.0012BJ	0.0009BJ	0.0077B	0.00096BJ	0.0015BJ
Bromodichloromethane	0.1(L)	0.005U	0.013	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	0.11	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Cis-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Methylene Chloride	0.005(P)	0.026B	0.0042BJ	Not Sampled	0.0044BJ	0.0026BJ	0.0071B	0.0058B	0.0048BJ	0.011B
Styrene	0.1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vinyl Chloride	0.002(F)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
4-Methyl-2-Pentanone	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U

INS 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-08	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3
	Lab Sample No:	10781	10553		10554	10555	10556	10782	10783	10784
	Date Sampled:	03/23/91	03/22/91		03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	04/06/91	04/04/91		04/04/91	04/04/91	04/04/91	04/06/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.0061BJ	0.0054BJ	Not Sampled	0.10U	0.0022BJ	0.10U	0.017BJ	0.0017BJ	0.10U
Benzene	---	0.0026BJ	0.0031BJ	Not Sampled	0.0053B	0.0068B	0.0089B	0.00092BJ	0.0020BJ	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.005U
Chloroform	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Cis-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.0017BJ
Methylene Chloride	0.005(P)	0.0079B	0.0061B	Not Sampled	0.0032BJ	0.0028BJ	0.0039BJ	0.0017BJ	0.0012BJ	0.005U
Styrene	0.1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vinyl Chloride	0.002(F)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.0014BJ
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
4-Methyl-2-Pentanone	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3
	Lab Sample No:	10557	10558	10559	10560	10561	10562	10785	10786	10787
	Date Sampled:	03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/22/91	03/23/91	03/23/91	03/23/91
	Date Analyzed:	04/04/91	04/04/91	04/04/91	04/04/91	04/04/91	04/04/91	04/06/91	04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.023BJ	0.0078BJ	0.0024BJ	0.0025BJ	0.10U	0.0016BJ	0.0044BJ	0.0056BJ	0.0020BJ
Benzene	---	0.0086B	0.0023BJ	0.0037BJ	0.005U	0.0030BJ	0.0032BJ	0.00095BJ	0.0022BJ	0.00081BJ
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0043BJ	0.0029BJ	0.0029BJ	0.0021BJ	0.0024BJ	0.0037BJ	0.0013BJ	0.0020BJ	0.0030BJ
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.0035J	0.005U	0.005U	0.005U	0.005U	0.005U	0.0031J	0.0018J	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.0015J	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
4-Methyl-2-Pentanone	---	0.050U	0.005U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2
	Lab Sample No:	10788	10789	10790	10791	10792	10793		10794	10795
	Date Sampled:	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91	03/23/91		03/23/91	03/23/91
	Date Analyzed:	04/06/91	04/06/91	04/06/91	04/06/91	04/06/91	04/06/91		04/06/91	04/06/91
VOLATILES	MCL									
Acetone	---	0.005U	0.017BJ	0.0086BJ	0.0096BJ	0.0047BJ	0.0042BJ	Not Sampled	0.0026BJ	0.0031BJ
Benzene	---	0.0018BJ	0.0064B	0.005B	0.0052B	0.0028BJ	0.0081B	Not Sampled	0.0041BJ	0.0099B
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0045BJ	0.0031BJ	0.0062B	0.0070B	0.013B	0.029B	Not Sampled	0.0057B	0.010B
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Vinyl Acetate	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U
2-Hexanone	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
4-Methyl-2-Pentanone	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
								Not Sampled		

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C18P3	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2
	Lab Sample No:		10796	10797		---	10563	10564		10798
	Date Sampled:		03/23/91	03/23/91			03/22/91	03/22/91		03/23/91
	Date Analyzed:		04/06/91	04/06/91			04/04/91	04/04/91		04/06/91
VOLATILES	MCL									
Acetone	---	Not Sampled	0.0065BJ	0.0064BJ	Not Sampled	No Sample	0.10U	0.0097BJ	Not Sampled	0.0032BJ
Benzene	---	Not Sampled	0.0076B	0.0055B	Not Sampled	No Sample	0.0090B	0.0016BJ	Not Sampled	0.0066B
Bromodichloromethane	0.1(L)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Bromoform	0.1(L)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Bromomethane	---	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	0.010U	Not Sampled	0.010U
Carbon Tetrachloride	0.005(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Carbondisulfide	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Chlorobenzene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Chloroethane	---	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	0.010U	Not Sampled	0.010U
Chloroform	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.0021J	0.005U	Not Sampled	0.005U
Chloromethane	---	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	0.010U	Not Sampled	0.010U
cis-1,2-Dichloroethene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Cis-1,3-Dichloropropene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Dibromochloromethane	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Ethylbenzene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Methylene Chloride	0.005(P)	Not Sampled	0.0040BJ	0.0038BJ	Not Sampled	No Sample	0.0045BJ	0.0089B	Not Sampled	0.0020BJ
Styrene	0.1(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Tetrachloroethene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Toluene	1(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Trans-1,2-Dichloroethene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Trans-1,3-Dichloropropene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Trichloroethene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
T-Xylene	10(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
Vinyl Acetate	---	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	0.050U	Not Sampled	0.050U
Vinyl Chloride	0.002(F)	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	0.010U	Not Sampled	0.010U
1,1-Dichloroethane	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,1-Dichloroethene	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,1,1-Trichloroethane	0.2(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,1,2-Trichloroethane	0.005(P)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,1,2,2-Tetrachloroethane	---	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,2-Dichloroethane	0.005(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
1,2-Dichloropropane	0.005(F)	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	0.005U	Not Sampled	0.005U
2-Butanone	---	Not Sampled	0.10U	0.10U	Not Sampled	No Sample	0.10U	0.10U	Not Sampled	0.10U
2-Hexanone	---	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	0.050U	Not Sampled	0.050U
4-Methyl-2-Pentanone	---	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	0.050U	Not Sampled	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 1 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C22P3
	Lab Sample No:	10799
	Date Sampled:	03/23/91
	Date Analyzed:	04/06/91
VOLATILES	MCL	
Acetone	---	0.016BJ
Benzene	---	0.0053B
Bromodichloromethane	0.1(L)	0.005U
Bromoform	0.1(L)	0.005U
Bromomethane	---	0.010U
Carbon Tetrachloride	0.005(F)	0.005U
Carbondisulfide	---	0.005U
Chlorobenzene	---	0.005U
Chloroethane	---	0.010U
Chloroform	---	0.0011J
Chloromethane	---	0.010U
cis-1,2-Dichloroethene	---	0.005U
Cis-1,3-Dichloropropene	---	0.005U
Dibromochloromethane	---	0.005U
Ethylbenzene	---	0.005U
Methylene Chloride	0.005(P)	0.0035BJ
Styrene	0.1(F)	0.005U
Tetrachloroethene	---	0.005U
Toluene	1(F)	0.005U
Trans-1,2-Dichloroethene	---	0.005U
Trans-1,3-Dichloropropene	---	0.005U
Trichloroethene	---	0.005U
T-Xylene	10(F)	0.005U
Vinyl Acetate	---	0.050U
Vinyl Chloride	0.002(F)	0.010U
1,1-Dichloroethane	---	0.005U
1,1-Dichloroethene	---	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U
1,2-Dichloroethane	0.005(F)	0.005U
1,2-Dichloropropane	0.005(F)	0.005U
2-Butanone	---	0.10U
2-Hexanone	---	0.050U
4-Methyl-2-Pentanone	---	0.050U

IN5 170 023 498

Round 2

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12361	12997	12442	12899	12823	12998		12984	12985
	Date Sampled:	06/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/07/91	06/29/91	06/06/91	06/10/91	06/15/91	06/29/91		06/29/91	06/29/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	0.0011J	<0.010U	Not Sampled	<0.010U	0.001J
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	<0.010U	0.0021BJ	<0.010U	<0.010U	<0.010U	Not Sampled	0.014B	0.011B
Dimethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	0.0024J	<0.010U	Not Sampled	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12361	12997	12442	12699	12823	12998		12984	12985
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/07/91	06/29/91	06/06/91	06/10/91	06/15/91	06/29/91		06/29/91	06/29/91
BNA	MCL									
Phenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Pyrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12811	12812	12986	12987	12988	12813		12427	12428
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/15/91	06/15/91	06/29/91	06/29/91	06/29/91	06/15/91		06/06/91	06/06/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	<0.010U	<0.010U	<0.010U	0.0055J	0.0016J	0.0017J	Not Sampled	0.0016BJ	0.0011BJ
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	<0.010U	0.012B	0.0095BJ	0.0085BJ	<0.010U	Not Sampled	0.0045BJ	0.0048BJ
Dimethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12811	12812	12986	12987	12988	12813		12427	12428
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/15/91	06/15/91	06/29/91	06/29/91	06/29/91	06/15/91		06/06/91	06/06/91
BNA	MCL									
Phenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Pyrene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12429		12814	12815		12816	12817	12430	12431
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/06/91		06/15/91	06/15/91		06/15/91	06/15/91	06/06/91	06/06/91
BNA	MCL									
Acenaphthene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Aniline	---	<0.020U	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
Anthracene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzidine	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0066BJ	No Sample	0.0026J	0.0031J	Not Sampled	0.0032J	<0.010U	0.0044BJ	0.0026BJ
Butylbenzylphthalate	0.1(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Diethyl Phthalate	---	0.0047BJ	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	0.0044BJ	0.0043BJ
Dimethyl Phthalate	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Fluoranthene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Fluorene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Isophorone	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Naphthalene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
Phenanthrene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12429		12814	12815		12816	12817	12430	12431
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/06/91		06/15/91	06/15/91		06/15/91	06/15/91	06/06/91	06/06/91
BNA	MCL									
Phenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Pyrene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	No Sample	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	No Sample	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	No Sample	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12432	12818	12819	12820		12989		12990	12991
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/06/91	06/15/91	06/15/91	06/15/91		06/29/91		06/29/91	06/29/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0025BJ	0.0061J	0.0033J	<0.010U	Not Sampled	0.0016J	No Sample	0.0022J	0.0021J
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Diethyl Phthalate	---	0.0040BJ	<0.010U	<0.010U	<0.010U	Not Sampled	0.0091BJ	No Sample	0.0083	<0.010U
Dimethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12432	12818	12819	12820		12989		12990	12991
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/08/91	06/15/91	06/15/91	06/15/91		06/29/91		06/29/91	06/29/91
BNA	MCL									
Phenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
Pyrene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	No Sample	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12992		12993	12994			12995		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/29/91		06/29/91	06/29/91			06/29/91		
BNA	MCL									
Acenaphthene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Acenaphthylene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Aniline	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
Anthracene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzidine	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
Benzoic Acid	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
Benzo(a)Anthracene	0.0001(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzo(a)Pyrene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzo(G,H,I)Perylene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Benzyl Alcohol	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
Bis(2-Chloroethoxy)Methane	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Bis(2-Chloroethyl)Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0025J	Not Sampled	0.0064J	0.0030J	Not Sampled	No Sample	0.0032J	Not Sampled	Not Sampled
Butylbenzylphthalate	0.1(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Chrysene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Dibenzofuran	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Dibutylphthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Diethyl Phthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Dimethyl Phthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Di-N-Octylphthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Fluoranthene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Fluorene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Hexachlorobenzene	0.001(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Hexachlorobutadiene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Hexachloroethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Isophorone	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Naphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Nitrobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
N-Nitrosodimethylamine	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
N-Nitroso-Di-N-Propylamine	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
N-Nitrosodiphenyl Amine	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Pentachlorophenol	0.001(F)	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
Phenanthrene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12992		12993	12994			12995		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/29/91		06/29/91	06/29/91			06/29/91		
BNA	MCL									
Phenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Pyrene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,2-Dichlorobenzene	0.6(L)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,2-Diphenylhydrazine	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,3-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,4-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2-Chloronaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2-Chlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
2-Methylnaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
2-Nitrophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,4-Dichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,4-Dimethylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,4-Dinitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
2,4-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,4,5-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,4,6-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
2,6-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
3-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
3,3'Dichlorobenzidine	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
4-Bromophenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
4-Chloro-3-Methylphenol	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
4-Chloroaniline	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
4-Chlorophenyl Phenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
4-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
4-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
4-Nitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
									Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12433			12996
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/06/91			06/29/91
BNA	MCL					
Acenaphthene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Acenaphthylene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Aniline	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
Anthracene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzidine	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
Benzoic Acid	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
Benzo(a)Anthracene	0.0001(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(a)Pyrene	0.0002(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(G,H,I)Perylene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzyl Alcohol	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
Bis(2-Chloroethoxy)Methane	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Chloroethyl)Ether	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Chloroisopropyl)Ether	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Butylbenzylphthalate	0.1(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Chrysene	0.0002(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibenzofuran	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibutylphthalate	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Diethyl Phthalate	---	Not Sampled	0.023B	Not Sampled	Not Sampled	<0.010U
Dimethyl Phthalate	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Di-N-Octylphthalate	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Fluoranthene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Fluorene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorobenzene	0.001(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorobutadiene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorocyclopentadiene	0.05(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachloroethane	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Isophorone	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Naphthalene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Nitrobenzene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitrosodimethylamine	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitroso-Di-N-Propylamine	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitrosodiphenyl Amine	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Pentachlorophenol	0.001(F)	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
Phenanthrene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12433			12996
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/06/91			06/29/91
BNA	MCL					
Phenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Pyrene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2-Dichlorobenzene	0.6(L)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2-Diphenylhydrazine	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,3-Dichlorobenzene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,4-Dichlorobenzene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Chloronaphthalene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Chlorophenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Methyl-4,6-Dinotrophenol	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
2-Methylnaphthalene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Methylphenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Nitroaniline	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
2-Nitrophenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dichlorophenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dimethylphenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dinitrophenol	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
2,4-Dinitrotoluene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4,5-Trichlorophenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4,6-Trichlorophenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
2,6-Dinitrotoluene	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
3-Nitroaniline	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
3,3'Dichlorobenzidine	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Bromophenyl Ether	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Chloro-3-Methylphenol	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Chloroaniline	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Chlorophenyl Phenyl Ether	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Methylphenol	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Nitroaniline	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
4-Nitrophenol	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12354	12982	12422	12423	12810	12983		12969	12970
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/05/91	06/27/91	06/04/91	06/04/91	06/08/91	06/27/91		06/27/91	06/27/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12797	12798	12971	12972	12973	12799		12407	12408
	Date Sampled:	06/06/91	06/05/91	06/25/91	060/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/08/91	06/08/91	06/27/91	06/27/91	06/27/91	06/08/91		06/04/91	06/04/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12409	12800	12801	12802		12803	12804	12410	12411
	Date Sampled:	06/01/91	06/05/91	06/05/91	06/05/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/04/91	06/08/91	06/08/91	06/08/91		06/08/91	06/08/91	06/04/91	06/04/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12412	12805	12806	12807		12974		12975	12976
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/04/91	06/08/91	06/08/91	06/08/91		06/27/91		06/27/91	06/27/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	No Sample	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	No Sample	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12977		12978	12979			12980		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/27/91		06/27/91	06/27/91			06/27/91		
EXPLOSIVES	MCL									
DNB	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
HMX	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
RDX	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
TETRYL	---	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	No Sample	<0.050U	Not Sampled	Not Sampled
TNB	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
TNT	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled
2,4-DNT	---	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	No Sample	<0.020U	Not Sampled	Not Sampled

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12413			12981
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/04/91			06/27/91
EXPLOSIVES	MCL					
DNB	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
HMX	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
RDX	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
TETRYL	---	Not Sampled	<0.050U	Not Sampled	Not Sampled	<0.050U
TNB	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
TNT	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U
2,4-DNT	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12375	13025	12480	12481	12849	13026		13013	
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	
	Date Analyzed:	07/23/91	08/21/91	07/23/91	07/23/91	07/23/91	08/21/91		08/21/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	<0.012U	<0.012U	<0.012U	<0.012U	<0.012U	Not Sampled	0.012R	No Sample
2,4,5-T	---	<0.0019U	<0.0019U	<0.0020U	<0.0019U	<0.0020U	<0.0019U	Not Sampled	0.0019R	No Sample
2,4,5-TP	0.05(F)	<0.0017U	<0.0019U	0.00047J	0.0016U	<0.0017U	<0.0019U	Not Sampled	0.0019R	No Sample
Dinoseb	0.007(P)	<0.00068U	<0.00068U	<0.00069U	<0.00067U	<0.00070U	<0.00068U	Not Sampled	0.00068R	No Sample

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12390	13077	12541	12542	12892	13078		13062	13063
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Anal. (Cn):	06/11/91	07/01/91	06/11/91	06/14/91	06/14/91	07/01/91		07/01/91	07/01/91
	Date Anal. (S):	06/02/91	06/29/91	06/04/91	06/10/91	06/10/91	06/29/91		06/29/91	06/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12837	12838	13014	13015	13016	12839		12466	12467
	Date Sampled:	06/06/91	06/05/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/23/91	07/23/91	08/21/91	08/21/91	08/21/91	07/23/91		07/23/91	07/23/91
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	<0.015U	0.012R	0.013R	0.012R	<0.014U	Not Sampled	0.011R	0.012R
2,4,5-T	---	<0.0025U	<0.0025U	0.019R	0.0021R	0.0019R	<0.0024U	Not Sampled	0.0019R	0.0019R
2,4,5-TP	0.05(F)	<0.0017U	0.00062J	0.019R	0.0021R	0.0019R	<0.0020U	Not Sampled	0.0019R	0.0019R
Dinoseb	0.007(P)	<0.00070U	<0.00086U	0.00068R	0.00074R	0.00068R	<0.00083U	Not Sampled	0.00067R	0.00068R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12879	12880	13064	13065	13066	12881		12526	12527
	Date Sampled:	06/06/91	06/05/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Anal. (Cn):	06/14/91	06/14/91	07/01/91	07/01/91	07/01/91	06/14/91		06/11/91	06/11/91
	Date Anal. (S):	06/10/91	06/10/91	06/29/91	06/29/91	06/29/91	06/10/91		06/04/91	06/04/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	<0.020U	0.249	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12468		12840	12841		12842	12843		12469
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/06/91	06/06/91		06/01/91
	Date Analyzed:	07/23/91		07/23/91	07/23/91		07/23/91	07/23/91		07/23/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	Not Sampled	<0.016U	<0.013U	Not Sampled	<0.014U	<0.012U	Not Sampled	0.012R
2,4,5-T	---	0.0020R	Not Sampled	<0.0026U	<0.0021U	Not Sampled	<0.0024U	<0.0019U	Not Sampled	0.0019R
2,4,5-TP	0.05(F)	0.0017R	Not Sampled	<0.0022U	0.00067J	Not Sampled	<0.0020U	<0.0017U	Not Sampled	0.0016R
Dinoseb	0.007(P)	0.00069R	Not Sampled	<0.00091U	<0.00074U	Not Sampled	<0.00084U	<0.00068U	Not Sampled	0.00067R

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12528	12882	12883	12884		12885	12886	12529	12530
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Anal. (Cn):	06/11/91	06/14/91	06/14/91	06/14/91		06/14/91	06/14/91	06/11/91	06/11/91
	Date Anal. (S):	06/04/91	06/10/91	06/10/91	06/10/91		06/10/91	06/10/91	06/04/91	06/04/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	0.054

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12470	12844	12845	12486		13017		13018	13019
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	07/23/91	07/23/91	07/23/91	07/23/91		07/21/91		07/21/91	07/21/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	<0.012U	<0.012U	<0.012U	Not Sampled	<0.012U	Not Sampled	<0.012U	<0.011U
2,4,5-T	---	0.0019R	<0.0019U	<0.0019U	<0.0019U	Not Sampled	<0.0019U	Not Sampled	<0.0019U	<0.0019U
2,4,5-TP	0.05(F)	0.0016R	<0.0017U	<0.0017U	<0.0017U	Not Sampled	<0.0019U	Not Sampled	<0.0019U	<0.0019U
Dinoseb	0.007(P)	0.00067R	<0.00068U	<0.00068U	<0.00068U	Not Sampled	<0.00067U	Not Sampled	<0.00068U	<0.00067U

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12531	12887	12888	12889		13067	13068	13069	13070
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Anal. (Cn):	06/11/91	06/14/91	06/14/91	06/14/91		07/01/91	07/01/91	07/01/91	07/01/91
	Date Anal. (S):	06/04/91	06/10/91	06/10/91	06/10/91		06/29/91	06/29/91	06/29/91	06/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	0.041	<0.020U	0.070

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13020		13021	13022			13023		
	Date Sampled:	06/25/91		06/25/90	06/25/91			06/25/91		
	Date Analyzed:	08/21/91		08/21/91	08/21/91			08/21/91		
HERBICIDES	MCL									
2,4-D	0.07	<0.012U	Not Sampled	0.019R	0.012R	Not Sampled	Not Sampled	0.012R	Not Sampled	Not Sampled
2,4,5-T	---	<0.0021U	Not Sampled	0.00031R	0.0019R	Not Sampled	Not Sampled	0.0019R	Not Sampled	Not Sampled
2,4,5-TP	0.05	<0.0021U	Not Sampled	0.0031R	0.0019R	Not Sampled	Not Sampled	0.0019R	Not Sampled	Not Sampled
Dinoseb	0.007(P)	<0.00072U	Not Sampled	0.0011R	0.00067R	Not Sampled	Not Sampled	0.00068R	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13071		13072	13073		13074	13075		
	Date Sampled:	06/25/91		06/25/91	06/25/91		06/25/91	06/25/91		
	Date Anal. (Cn):	07/01/91		07/01/91	07/01/91		07/01/91	07/01/91		
	Date Anal. (S):	06/29/91		06/29/91	06/29/91		06/29/91	06/29/91		
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	Not Sampled
Sulfide	---	<0.020U	Not Sampled	0.093	<0.020U	Not Sampled	0.083	0.148	Not Sampled	Not Sampled

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12471			13024
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		07/23/91			08/21/91
HERBICIDES	MCL					
2,4-D	0.07	Not Sampled	0.012R	Not Sampled	0.000020BR	0.012R
2,4,5-T	---	Not Sampled	0.0019R	Not Sampled	0.00011JR	0.0020R
2,4,5-TP	0.05	Not Sampled	0.0016R	Not Sampled	0.00046BR	0.0020R
Dinoseb	0.007(P)	Not Sampled	0.00067R	Not Sampled	0.00071BR	0.00069R

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12532			13076
	Date Sampled:		06/01/91			06/25/91
	Date Anal. (Cn):		06/11/91			07/01/91
	Date Anal. (S):		06/04/91			06/29/91
CYANIDE and SULFIDE	MCL					
Cyanide	0.2(P)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Sulfide	---	Not Sampled	<0.020U	Not Sampled	Not Sampled	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	16269	13060	12521	12522	12878	13061		13045	13046
	Date Sampled:	11/13/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	11/26/91	08/08/91	07/30/91	07/30/91	08/06/91	08/08/91		07/17/91	07/17/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	0.118B	0.224	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Antimony	0.01(P)	0.0158B	<0.0030U	0.0230B	0.0047B	0.0210B	0.0301	Not Sampled	0.0082BW	0.0184B
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Barium	2.0(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	0.030B	0.047B
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004UN	<0.004UN	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U
Calcium	---	0.158B	0.080B	8.95	9.28	0.700B	0.111B	Not Sampled	346	184
Chromium	0.1(F)	0.005BN	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Cobalt	---	<0.010U	<0.006U	<0.006U	<0.006U	0.006UN	<0.006U	Not Sampled	0.007B	<0.006U
Copper	1.3(F)	0.020B	<0.005U	<0.005U	<0.005U	0.011B	<0.005U	Not Sampled	<0.005U	<0.005U
Iron	---	<0.010U	0.174	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	0.077B	<0.010U
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	0.0033BW	0.0012B
Magnesium	---	<0.200U	<0.150U	1.74B	1.60B	0.152B	<0.150U	Not Sampled	96	53.6
Manganese	---	0.007B	<0.005U	<0.005UN	<0.005UN	0.008B	<0.005U	Not Sampled	1.30	<0.005U
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U
Nickel	0.1(P)	<0.005U	<0.005U	0.005B	<0.005U	<0.005U	<0.005U	Not Sampled	0.010B	<0.005U
Potassium	---	<1.00U	<1.00U	<1.00U	<1.00U	<1.00U	<1.00U	Not Sampled	4.81B	5.79
Selenium	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U
Sodium	---	0.215B	<0.062U	2.13	1.90	0.486	0.124B	Not Sampled	33.7	23.9
Thallium	0.002(P)	<0.0020U	<0.0080U	<0.0080U	<0.0080U	<0.0080U	<0.0080U	Not Sampled	<0.0080U	<0.0080U
Tin	---	<0.050U	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U
Vanadium	---	<0.010U	<0.005U	<0.005U	<0.005U	<0.005UN	<0.005U	Not Sampled	<0.005U	<0.005U
Zinc	---	<0.005U	0.006UN	0.006B	0.006UN	<0.006U	0.006UN	Not Sampled	0.006UN	0.006UN

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12865	12866	13047	13048	13049	12867		12506	12507
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/11/91	07/11/91	07/17/91	07/17/91	07/17/91	07/11/91		07/30/91	07/30/91
METALS	MCL									
Aluminum	---	1.19	<0.010U	0.704	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Antimony	0.01(P)	0.0143BW	0.0162BW	0.0171BW	0.0083BW	0.0110BW	0.0217B	Not Sampled	0.0147B	0.0139B
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	0.0032B	<0.0020U
Barium	2.0(F)	0.028BN	0.024BN	0.010B	0.015B	0.012B	0.020BN	Not Sampled	<0.010U	0.028B
Beryllium	0.001(P)	<0.001U	<0.001U	0.001B	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U
Cadmium	0.005(F)	0.006	0.008	0.013	<0.004U	0.004B	<0.004U	Not Sampled	<0.004U	<0.004U
Calcium	---	442	649	676	397	622	64.7	Not Sampled	86.0	137
Chromium	0.1(F)	<0.005U	0.006B	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Cobalt	---	0.226	0.032B	0.605	0.011B	0.015B	<0.006U	Not Sampled	0.006B	<0.006U
Copper	1.3(F)	0.006B	0.018B	<0.005U	<0.005U	<0.005U	0.016B	Not Sampled	<0.005U	0.017B
Iron	---	0.144N	0.303N	2.99	0.034B	0.048B	0.010UN	Not Sampled	0.013B	0.020B
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U
Magnesium	---	113	215	413	137	215	52.0	Not Sampled	64.5	67.9
Manganese	---	4.06	7.1	16.4	0.005B	0.007B	0.011B	Not Sampled	0.022N	0.149N
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U
Nickel	0.1(P)	0.905	0.048	1.84	<0.005U	0.027B	<0.005U	Not Sampled	0.005B	<0.005U
Potassium	---	5.42	8.47	7.08	2.83B	4.28B	7.16	Not Sampled	13.5	7.95
Selenium	0.05(F)	<0.0020U	<0.0020U	<0.0020U	0.0054	0.0046BW	0.0020B	Not Sampled	0.0094	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010UW	<0.0010UW	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U
Sodium	---	40.6	52.0	81.0	60.1	70.0	57.1	Not Sampled	269	22.1
Thallium	0.002(P)	<0.0080U	<0.0080U	0.0080UW	0.0080UW	<0.0080U	0.0080UW	Not Sampled	<0.0080U	<0.0080U
Tin	---	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U
Vanadium	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Zinc	---	0.418	<0.006U	1.58N	0.006UN	0.058N	<0.006U	Not Sampled	<0.006U	0.007B

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12508	12868	12869	12870		12871	12872	12509	12510
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/17/91	07/11/91	07/11/91	07/11/91		07/01/91	07/11/91	07/30/91	07/30/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	<0.010U	21.4	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Antimony	0.01(P)	0.0120B	0.0390B	0.0116B	0.0147B	Not Sampled	0.0176B	0.0140B	0.0234B	0.0144B
Arsenic	0.05(F)	<0.0020U	0.0068BW	<0.0020U	<0.0020U	Not Sampled	0.0020UW	<0.0020U	<0.0020U	<0.0020U
Barium	2.0(F)	0.017B	0.025BN	0.031BN	0.010UN	Not Sampled	0.045BN	0.018BN	0.018B	0.030B
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	0.005	Not Sampled	<0.001U	<0.001U	<0.001U	<0.001U
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	0.011	Not Sampled	<0.004U	0.006	<0.004U	<0.004U
Calcium	---	29.0	5.79	170	197	Not Sampled	124	337	22.8	245
Chromium	0.1(F)	<0.005U	0.007B	0.005B	0.006B	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Cobalt	---	0.018B	<0.006U	0.029B	0.389	Not Sampled	<0.006U	0.035B	0.007B	0.034B
Copper	1.3(F)	0.011B	0.014B	0.022B	0.014B	Not Sampled	0.025	0.021B	0.009B	0.021B
Iron	---	1.44	0.010UN	0.010UN	4.91N	Not Sampled	0.010UN	0.010UN	0.013B	1.06
Lead	0.015(F)	<0.0010U	0.0016B	<0.0010U	0.0079W	Not Sampled	<0.0010U	0.0010BW	<0.0010U	<0.0010U
Magnesium	---	19.8	11.2	37.9	81.6	Not Sampled	0.239B	234	31.2	142
Manganese	---	1.66N	0.006B	0.226	1.79	Not Sampled	<0.005U	1.26	0.008BN	1.86N
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	0.007B	<0.005U	0.122	0.923	Not Sampled	<0.005U	0.014B	0.007B	0.039B
Potassium	---	1.46B	58.8	3.81B	4.81	Not Sampled	8.72	34.5	18.1	8.59
Selenium	0.05(F)	<0.0020U	0.0058	<0.0020U	<0.0020U	Not Sampled	0.0022B	<0.0020U	0.032B	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Sodium	---	26.9	174	38.7	58.7	Not Sampled	85.6	138	41.7	72.3
Thallium	0.002(P)	<0.0080U	0.0080UW	0.0080UW	<0.0080U	Not Sampled	<0.0080U	<0.0080U	<0.0080U	0.0080UW
Tin	---	<0.035U	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U	<0.035U	<0.035U
Vanadium	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Zinc	---	0.031	<0.006U	0.118	1.39	Not Sampled	<0.006U	<0.006U	0.007B	0.037B

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12511	12873	12874	12875		13050	13051	13052	13053
	Date Sampled:	06/01/91	06/05/91	06/05/91	06/05/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Analyzed:	07/30/91	07/11/91	07/11/91	07/11/91		07/17/91	07/17/91	07/17/91	07/17/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	<0.010U	0.702	Not Sampled	0.320	<0.010U	0.883	<0.010U
Antimony	0.01(P)	0.0124B	0.0291B	0.0192B	0.0061B	Not Sampled	0.0152B	0.0180B	0.0131B	0.0158B
Arsenic	0.05(F)	<0.0020U	0.0030B	<0.0020U	<0.0020U	Not Sampled	<0.0020U	0.0024B	<0.0020U	0.0020UW
Barium	2.0(F)	0.018B	0.048BN	0.081BN	0.031B	Not Sampled	0.022B	0.040B	<0.010U	0.029B
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U	<0.001U	<0.001U	<0.001U
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	<0.004U
Calcium	---	12.9	38.2	249	298	Not Sampled	164	17.1	62.2	88.8
Chromium	0.1(F)	<0.005U	<0.005U	0.005B	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Cobalt	---	0.012B	<0.006U	0.008B	0.162N	Not Sampled	0.057	<0.006U	0.024B	<0.006U
Copper	1.3(F)	0.029	0.052	0.020B	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Iron	---	0.418	0.010UN	0.010UN	1.12	Not Sampled	4.38	0.035B	0.014B	<0.010U
Lead	0.015(F)	<0.0010U	0.0013B	<0.0010U	0.0014B	Not Sampled	<0.0010U	0.0018B	<0.0010U	<0.0010U
Magnesium	---	8.51	50.1	0.225B	97.4	Not Sampled	29.8	39.7	26.8	42.6
Manganese	---	0.319N	0.018	0.008B	2.48	Not Sampled	0.770	<0.005U	0.484	0.010B
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	0.016B	<0.005U	<0.005U	0.514	Not Sampled	0.088	<0.005U	0.250	<0.005U
Potassium	---	1.14B	20.0	7.51	3.69B	Not Sampled	6.42	43.1	3.14B	5.75
Selenium	0.05(F)	<0.0020U	<0.0020U	0.0020UN	<0.0020U	Not Sampled	<0.0020U	<0.0020U	0.0020UW	0.0020UW
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Sodium	---	39.0	56.1	20.2	32.5	Not Sampled	24.1	74.4	20.1	55.0
Thallium	0.002(P)	0.0080UW	0.0080UW	<0.0080U	<0.0080U	Not Sampled	<0.0080U	<0.0080U	<0.0080U	<0.0080U
Tin	---	<0.035U	<0.035U	<0.035U	<0.035U	Not Sampled	<0.035U	<0.035U	<0.035U	<0.035U
Vanadium	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Zinc	---	0.021	<0.006U	<0.006U	0.075	Not Sampled	0.183	0.006UN	0.043N	0.006UN

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13054		13055	13056					
	Date Sampled:	06/25/91		06/25/91	06/25/91					
	Date Analyzed:	07/18/91		07/18/91	07/18/91					
METALS	MCL									
Aluminum	---	0.076B	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Antimony	0.01(P)	0.0132BW	Not Sampled	0.0222B	0.0184B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Arsenic	0.05(F)	<0.0020U	Not Sampled	<0.0020U	<0.0020U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Barium	2.0(F)	<0.010U	Not Sampled	0.012B	<0.010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Beryllium	0.001(P)	<0.001U	Not Sampled	<0.001U	<0.001U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Cadmium	0.005(F)	0.006	Not Sampled	<0.004U	0.004B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Calcium	---	580	Not Sampled	79.1	403	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Chromium	0.1(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Cobalt	---	0.069	Not Sampled	<0.006U	0.035B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Copper	1.3(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Iron	---	0.313	Not Sampled	0.033B	2.48	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Lead	0.015(F)	<0.0010U	Not Sampled	0.0021B	<0.0010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Magnesium	---	218	Not Sampled	28.4	127	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Manganese	---	0.841	Not Sampled	0.054	1.84	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Mercury	0.002(F)	<0.0002U	Not Sampled	<0.0002U	<0.0002U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Nickel	0.1(P)	0.118	Not Sampled	<0.005U	0.078	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Potassium	---	6.97	Not Sampled	5.51	7.74	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Selenium	0.05(F)	0.0022B	Not Sampled	0.0082	<0.0020U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Silver	---	<0.0010U	Not Sampled	<0.0010UW	<0.0010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Sodium	---	82.7	Not Sampled	97.7	53.1	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Thallium	0.002(P)	<0.0080U	Not Sampled	<0.0080U	<0.0080U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Tin	---	<0.035U	Not Sampled	<0.035U	<0.035U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Vanadium	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Zinc	---	0.152N	Not Sampled	0.006UN	0.014BN	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12512			
	Date Sampled:		06/01/91			
	Date Analyzed:		07/30/91			
METALS	MCL					
Aluminum	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	No Sample
Antimony	0.01(P)	Not Sampled	0.0076B	Not Sampled	Not Sampled	No Sample
Arsenic	0.05(F)	Not Sampled	<0.0020U	Not Sampled	Not Sampled	No Sample
Barium	2.0(F)	Not Sampled	<0.010U	Not Sampled	Not Sampled	No Sample
Beryllium	0.001(P)	Not Sampled	<0.001U	Not Sampled	Not Sampled	No Sample
Cadmium	0.005(F)	Not Sampled	<0.004U	Not Sampled	Not Sampled	No Sample
Calcium	---	Not Sampled	175	Not Sampled	Not Sampled	No Sample
Chromium	0.1(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	No Sample
Cobalt	---	Not Sampled	0.017B	Not Sampled	Not Sampled	No Sample
Copper	1.3(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	No Sample
Iron	---	Not Sampled	0.160	Not Sampled	Not Sampled	No Sample
Lead	0.015(F)	Not Sampled	<0.0010U	Not Sampled	Not Sampled	No Sample
Magnesium	---	Not Sampled	161	Not Sampled	Not Sampled	No Sample
Manganese	---	Not Sampled	0.403N	Not Sampled	Not Sampled	No Sample
Mercury	0.002(F)	Not Sampled	<0.0002U	Not Sampled	Not Sampled	No Sample
Nickel	0.1(P)	Not Sampled	0.014B	Not Sampled	Not Sampled	No Sample
Potassium	---	Not Sampled	3.81B	Not Sampled	Not Sampled	No Sample
Selenium	0.05(F)	Not Sampled	<0.0020U	Not Sampled	Not Sampled	No Sample
Silver	---	Not Sampled	<0.0010U	Not Sampled	Not Sampled	No Sample
Sodium	---	Not Sampled	141	Not Sampled	Not Sampled	No Sample
Thallium	0.002(P)	Not Sampled	0.0080UW	Not Sampled	Not Sampled	No Sample
Tin	---	Not Sampled	<0.035U	Not Sampled	Not Sampled	No Sample
Vanadium	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	No Sample
Zinc	---	Not Sampled	0.006B	Not Sampled	Not Sampled	No Sample

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12368	13011	12461	12462	12836	13012		12999	
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	
	Date Analyzed:	07/21/91	10/18/91	07/06/91	07/06/91	07/02/91	10/18/91		09/18/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000029U	<0.000029U	<0.000029U	<0.000029U	<0.000029U	<0.000029U	Not Sampled	0.000029R	No Sample
a-CHLORDANE	0.002(F)	0.000048U	<0.000049U	<0.000049U	<0.000049U	<0.000049U	<0.000049U	Not Sampled	0.000049R	No Sample
A-Endosulfan	---	<0.00013U	<0.00014U	<0.00014U	<0.00014U	<0.00014U	<0.00014U	Not Sampled	0.00014R	No Sample
Aldrin	---	0.000038U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample
B-BHC	---	<0.000058U	<0.000059U	<0.000059U	<0.000059U	<0.000059U	<0.000059U	Not Sampled	0.000059R	No Sample
B-Endosulfan	---	0.000038U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample
D-BHC	---	<0.000087U	<0.000087U	<0.000087U	<0.000087U	<0.000087U	<0.000087U	Not Sampled	0.000087R	No Sample
Dieldrin	---	<0.000019U	<0.000019U	<0.000019U	<0.000019U	<0.000019U	<0.000019U	Not Sampled	0.000019R	No Sample
Disulfoton	---	0.00067U	<0.00069U	<0.00069U	<0.00069U	<0.00069U	<0.00069U	Not Sampled	0.00069R	No Sample
Endosulfan sulfate	---	0.00063U	<0.00064U	<0.00064U	<0.00064U	<0.00064U	<0.00064U	Not Sampled	0.00064R	No Sample
Endrin	0.002(P)	<0.000058U	<0.000058U	<0.000058U	<0.000058U	<0.000058U	<0.000058U	Not Sampled	0.000058R	No Sample
Endrin Aldehyde	---	<0.00022U	<0.00022U	<0.00022U	<0.00022U	<0.00022U	<0.00022U	Not Sampled	0.00022R	No Sample
Ethyl Parathion	---	<0.00058U	<0.00058U	<0.00058U	<0.00058U	<0.00058U	<0.00058U	Not Sampled	0.00058R	No Sample
Famphur	---	0.0011U	<0.0012U	<0.0012U	<0.0012U	<0.0012U	<0.0012U	Not Sampled	0.0012R	No Sample
G-BHC	---	0.000038U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample
g-CHLORDANE	0.002(F)	0.000048U	<0.000049U	<0.000049U	<0.000049U	<0.000049U	<0.000049U	Not Sampled	0.000049R	No Sample
Heptachlor	0.0004(F)	<0.000029U	<0.000029U	<0.000029U	<0.000029U	<0.000029U	<0.000029U	Not Sampled	0.000029R	No Sample
Heptachlor Epoxide	0.0002(F)	0.00080U	<0.00081U	<0.00081U	<0.00081U	<0.00081U	<0.00081U	Not Sampled	0.00081R	No Sample
KEPONE	---	<0.0058U	<0.0058U	<0.0058U	<0.0058U	<0.0058U	<0.0058U	Not Sampled	0.0058R	No Sample
Methoxychlor	0.04(F)	<0.0017U	<0.0017U	<0.0017U	<0.0017U	<0.0017U	<0.0017U	Not Sampled	0.0017R	No Sample
Methyl Parathion	---	<0.0012U	<0.0012U	<0.0012U	<0.0012U	<0.0012U	<0.0012U	Not Sampled	0.0012R	No Sample
PCB-1016	0.0005(F)	0.00060U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample
PCB-1221	0.0005(F)	0.00060U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample
PCB-1232	0.0005(F)	0.00060U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample
PCB-1242	0.0005(F)	0.00060U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample
PCB-1248	0.0005(F)	0.00060U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample
PCB-1254	0.0005(F)	<0.0012U	<0.0013U	0.00013BJ	0.00024BJ	<0.0013U	<0.0013U	Not Sampled	0.0013R	No Sample
PCB-1260	0.0005(F)	<0.0012U	<0.0013U	<0.0013U	<0.0013U	<0.0013U	<0.0013U	Not Sampled	0.0013R	No Sample
Phorate	---	<0.00039U	<0.00039U	<0.00039U	<0.00039U	<0.00039U	<0.00039U	Not Sampled	0.00039R	No Sample
PPDDD	---	<0.00011U	<0.00011U	<0.00011U	<0.00011U	<0.00011U	<0.00011U	Not Sampled	0.00011R	No Sample
PPDDE	---	0.000038U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample
PPDDT	---	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	Not Sampled	0.00012R	No Sample
Toxaphene	0.003(F)	<0.0023U	<0.0023U	<0.0023U	<0.0023U	<0.0023U	<0.0023U	Not Sampled	0.0023R	No Sample

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12824	12825	13000	13001	13002	12826		12447	12448
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/02/91	07/02/91	09/18/91	09/18/91	09/18/91	06/15/91		07/06/91	07/06/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000029U	<0.000029U	0.000029R	0.000029R	0.000029R	<0.000029U	Not Sampled	<0.000029U	<0.000029U
a-CHLORDANE	0.002(F)	<0.000049U	<0.000049U	0.000049R	0.000049R	0.000049R	<0.000049U	Not Sampled	<0.000049U	<0.000049U
A-Endosulfan	---	<0.00014U	<0.00014U	0.00014R	0.00014R	0.00014R	<0.00014U	Not Sampled	<0.00014U	<0.00014U
Aldrin	---	<0.000039U	<0.000039U	0.000039R	0.000039R	0.000039R	<0.000039U	Not Sampled	<0.000039U	<0.000039U
B-BHC	---	<0.000059U	<0.000059U	0.000059R	0.000059R	0.000059R	<0.000059U	Not Sampled	<0.000059U	<0.000059U
B-Endosulfan	---	<0.000039U	<0.000039U	0.000039R	0.000039R	0.000039R	<0.000039U	Not Sampled	<0.000039U	<0.000039U
D-BHC	---	<0.000087U	<0.000087U	0.000087R	0.000087R	0.000087R	<0.000087U	Not Sampled	<0.000087U	<0.000087U
Dieldrin	---	<0.000019U	<0.000019U	0.000019R	0.000019R	0.000019R	<0.000019U	Not Sampled	<0.000019U	<0.000019U
Disulfoton	---	<0.00069U	<0.00069U	0.00069R	0.00069R	0.00069R	<0.00069U	Not Sampled	<0.00069U	<0.00069U
Endosulfan sulfate	---	<0.00064U	<0.00064U	0.00064R	0.00064R	0.00064R	<0.00064U	Not Sampled	<0.00064U	<0.00064U
Endrin	0.002(P)	<0.000058U	<0.000058U	0.000058R	0.000058R	0.000058R	<0.000058U	Not Sampled	<0.000058U	<0.000058U
Endrin Aldehyde	---	<0.00022U	<0.00022U	0.00012JR	0.00022R	0.00022R	<0.00022U	Not Sampled	<0.00022U	<0.00022U
Ethyl Parathion	---	<0.00058U	<0.00058U	0.00058R	0.00058R	0.00058R	<0.00058U	Not Sampled	<0.00058U	<0.00058U
Famphur	---	<0.0012U	<0.0012U	0.0012R	0.0012R	0.0012R	<0.0012U	Not Sampled	<0.0012U	<0.0012U
G-BHC	---	<0.000039U	<0.000039U	0.000039R	0.000039R	0.000039R	<0.000039U	Not Sampled	<0.000039U	<0.000039U
g-CHLORDANE	0.002(F)	<0.000049U	<0.000049U	0.000049R	0.000049R	0.000049R	<0.000049U	Not Sampled	<0.000049U	<0.000049U
Heptachlor	0.0004(F)	<0.000029U	0.00004J	0.000029R	0.000029R	0.000029R	<0.000029U	Not Sampled	<0.000029U	<0.000029U
Heptachlor Epoxide	0.0002(F)	<0.00081U	<0.00081U	0.00081R	0.00081R	0.00081R	<0.00081U	Not Sampled	<0.00081U	<0.00081U
KEPONE	---	<0.0058U	<0.0058U	0.0058R	0.0058R	0.0058R	<0.0058U	Not Sampled	<0.0058U	<0.0058U
Methoxychlor	0.04(F)	<0.0017U	<0.0017U	0.0017R	0.0017R	0.0017R	<0.0017U	Not Sampled	<0.0017U	<0.0017U
Methyl Parathion	---	<0.0012U	<0.0012U	0.0012R	0.0012R	0.0012R	<0.0012U	Not Sampled	<0.0012U	<0.0012U
PCB-1016	0.0005(F)	<0.0006U	<0.0006U	0.0006R	0.0006R	0.0006R	<0.0006U	Not Sampled	<0.0006U	<0.0006U
PCB-1221	0.0005(F)	<0.0006U	<0.0006U	0.0006R	0.0006R	0.0006R	<0.0006U	Not Sampled	<0.0006U	<0.0006U
PCB-1232	0.0005(F)	<0.0006U	<0.0006U	0.0006R	0.0006R	0.0006R	<0.0006U	Not Sampled	<0.0006U	<0.0006U
PCB-1242	0.0005(F)	<0.0006U	<0.0006U	0.0006R	0.0006R	0.0006R	<0.0006U	Not Sampled	<0.0006U	<0.0006U
PCB-1248	0.0005(F)	<0.0006U	<0.0006U	0.0006R	0.0006R	0.0006R	<0.0006U	Not Sampled	<0.0006U	<0.0006U
PCB-1254	0.0005(F)	<0.0013U	<0.0013U	0.0013R	0.0013R	0.0013R	<0.0013U	Not Sampled	<0.0013U	<0.0013U
PCB-1260	0.0005(F)	<0.0013U	<0.0013U	0.0013R	0.0013R	0.0013R	<0.0013U	Not Sampled	<0.0013U	<0.0013U
Phorate	---	<0.00039U	<0.00039U	0.00039R	0.00039R	0.00039R	<0.00039U	Not Sampled	<0.00039U	<0.00039U
PPDDD	---	<0.00011U	<0.00011U	0.00011R	0.00011R	0.00011R	<0.00011U	Not Sampled	<0.00011U	<0.00011U
PPDDE	---	<0.000039U	<0.000039U	0.000039R	0.000039R	0.000039R	<0.000039U	Not Sampled	<0.000039U	<0.000039U
PPDDT	---	<0.00012U	<0.00012U	0.00012R	0.00012R	0.00012R	<0.00012U	Not Sampled	<0.00012U	<0.00012U
Toxaphene	0.003(F)	<0.0023U	<0.0023U	0.0023R	0.0023R	0.0023R	<0.0023U	Not Sampled	<0.0023U	<0.0023U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12449		12872	12873		16382	16249		12450
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/06/91	06/06/91		06/01/91
	Date Analyzed:	07/06/91		07/02/91	07/02/91		07/02/91	07/02/91		07/06/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000029U	No Sample	<0.000029U	<0.000029U	Not Sampled	<0.000029U	<0.000029U	No Sample	<0.000029U
a-CHLORDANE	0.002(F)	<0.000049U	No Sample	<0.000049U	<0.000049U	Not Sampled	<0.000049U	<0.000049U	No Sample	<0.000049U
A-Endosulfan	---	<0.00014U	No Sample	<0.00014U	<0.00014U	Not Sampled	<0.00014U	0.000021J	No Sample	<0.00014U
Aldrin	---	<0.000039U	No Sample	<0.000039U	<0.000039U	Not Sampled	<0.000039U	<0.000039U	No Sample	<0.000039U
B-BHC	---	<0.000059U	No Sample	<0.000059U	<0.000059U	Not Sampled	<0.000059U	<0.000059U	No Sample	<0.000059U
B-Endosulfan	---	<0.000039U	No Sample	<0.000039U	<0.000039U	Not Sampled	<0.000039U	<0.000039U	No Sample	<0.000039U
D-BHC	---	<0.000087U	No Sample	<0.000087U	<0.000087U	Not Sampled	<0.000087U	<0.000087U	No Sample	<0.000087U
Dieldrin	---	<0.000019U	No Sample	<0.000019U	<0.000019U	Not Sampled	<0.000019U	<0.000019U	No Sample	<0.000019U
Disulfoton	---	<0.00069U	No Sample	<0.00069U	<0.00069U	Not Sampled	<0.00069U	<0.00069U	No Sample	<0.00069U
Endosulfan sulfate	---	<0.00064U	No Sample	<0.00064U	<0.00064U	Not Sampled	<0.00064U	<0.00064U	No Sample	<0.00064U
Endrin	0.002(P)	<0.000058U	No Sample	<0.000058U	<0.000058U	Not Sampled	<0.000058U	<0.000058U	No Sample	<0.000058U
Endrin Aldehyde	---	<0.00022U	No Sample	<0.00022U	<0.00022U	Not Sampled	<0.00022U	<0.00022U	No Sample	<0.00022U
Ethyl Parathion	---	<0.00058U	No Sample	<0.00058U	<0.00058U	Not Sampled	<0.00058U	<0.00058U	No Sample	<0.00058U
Famphur	---	<0.0012U	No Sample	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	No Sample	<0.0012U
G-BHC	---	<0.000039U	No Sample	<0.000039U	<0.000039U	Not Sampled	<0.000039U	<0.000039U	No Sample	<0.000039U
g-CHLORDANE	0.002(F)	<0.000049U	No Sample	<0.000049U	<0.000049U	Not Sampled	<0.000049U	<0.000049U	No Sample	<0.000049U
Heptachlor	0.0004(F)	<0.000029U	No Sample	0.000046J	<0.000029U	Not Sampled	<0.000029U	0.00014	No Sample	<0.000029U
Heptachlor Epoxide	0.0002(F)	<0.00081U	No Sample	<0.00081U	<0.00081U	Not Sampled	<0.00081U	<0.00081U	No Sample	<0.00081U
KEPONE	---	<0.0058U	No Sample	<0.0058U	<0.0058U	Not Sampled	<0.0058U	<0.0058U	No Sample	<0.0058U
Methoxychlor	0.04(F)	<0.0017U	No Sample	<0.0017U	<0.0017U	Not Sampled	<0.0017U	<0.0017U	No Sample	<0.0017U
Methyl Parathion	---	<0.0012U	No Sample	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	No Sample	<0.0012U
PCB-1016	0.0005(F)	<0.0006U	No Sample	<0.0006U	<0.0006U	Not Sampled	<0.0006U	<0.0006U	No Sample	<0.0006U
PCB-1221	0.0005(F)	<0.0006U	No Sample	<0.0006U	<0.0006U	Not Sampled	<0.0006U	<0.0006U	No Sample	<0.0006U
PCB-1232	0.0005(F)	<0.0006U	No Sample	<0.0006U	<0.0006U	Not Sampled	<0.0006U	<0.0006U	No Sample	<0.0006U
PCB-1242	0.0005(F)	<0.0006U	No Sample	<0.0006U	<0.0006U	Not Sampled	<0.0006U	<0.0006U	No Sample	<0.0006U
PCB-1248	0.0005(F)	<0.0006U	No Sample	<0.0006U	<0.0006U	Not Sampled	<0.0006U	<0.0006U	No Sample	<0.0006U
PCB-1254	0.0005(F)	<0.0013U	No Sample	<0.0013U	<0.0013U	Not Sampled	<0.0013U	<0.0013U	No Sample	<0.0013U
PCB-1260	0.0005(F)	<0.0013U	No Sample	<0.0013U	<0.0013U	Not Sampled	<0.0013U	<0.0013U	No Sample	<0.0013U
Phorate	---	<0.00039U	No Sample	<0.00039U	<0.00039U	Not Sampled	<0.00039U	<0.00039U	No Sample	<0.00039U
PPDDD	---	<0.00011U	No Sample	<0.00011U	<0.00011U	Not Sampled	<0.00011U	<0.00011U	No Sample	<0.00011U
PPDDE	---	<0.000039U	No Sample	<0.000039U	<0.000039U	Not Sampled	<0.000039U	<0.000039U	No Sample	<0.000039U
PPDDT	---	<0.00012U	No Sample	<0.00012U	<0.00012U	Not Sampled	<0.00012U	<0.00012U	No Sample	<0.00012U
Toxaphene	0.003(F)	<0.0023U	No Sample	<0.0023U	<0.0023U	Not Sampled	<0.0023U	<0.0023U	No Sample	<0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12451	12831	12832	12833		13003		13004	13005
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	07/06/91	07/02/91	07/02/91	07/02/91		09/18/91		09/18/91	09/18/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000029U	<0.000029U	<0.000029U	<0.000029U	Not Sampled	0.000029R	No Sample	0.000029R	0.000029R
a-CHLORDANE	0.002(F)	<0.000049U	<0.000049U	<0.000049U	<0.000049U	Not Sampled	0.000049R	No Sample	0.000049R	0.000049R
A-Endosulfan	---	<0.00014U	<0.00014U	<0.00014U	<0.00014U	Not Sampled	0.00014R	No Sample	0.00014R	0.00014R
Aldrin	---	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
B-BHC	---	<0.000059U	<0.000059U	<0.000059U	<0.000059U	Not Sampled	0.000059R	No Sample	0.000059R	0.000059R
B-Endosulfan	---	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
D-BHC	---	<0.000087U	<0.000087U	<0.000087U	<0.000087U	Not Sampled	0.000087R	No Sample	0.000087R	0.000087R
Dieldrin	---	<0.000019U	<0.000019U	<0.000019U	<0.000019U	Not Sampled	0.000019R	No Sample	0.000019R	0.000019R
Disulfoton	---	<0.00069U	<0.00069U	<0.00069U	<0.00069U	Not Sampled	0.00069R	No Sample	0.00069R	0.00069R
Endosulfan sulfate	---	<0.00064U	<0.00064U	<0.00064U	<0.00064U	Not Sampled	0.00064R	No Sample	0.00064R	0.00064R
Endrin	0.002(P)	<0.000058U	<0.000058U	<0.000058U	<0.000058U	Not Sampled	0.000058R	No Sample	0.000058R	0.000058R
Endrin Aldehyde	---	<0.00022U	<0.00022U	<0.00022U	0.000076J	Not Sampled	0.00011JR	No Sample	0.000085JR	0.00022R
Ethyl Parathion	---	<0.00058U	<0.00058U	<0.00058U	<0.00058U	Not Sampled	0.00058R	No Sample	0.00058R	0.00058R
Famphur	---	<0.0012U	<0.0012U	<0.0012U	<0.0012U	Not Sampled	0.0012R	No Sample	0.0012R	0.0012R
G-BHC	---	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
g-CHLORDANE	0.002(F)	<0.000049U	<0.000049U	<0.000049U	<0.000049U	Not Sampled	0.000049R	No Sample	0.000049R	0.000049R
Heptachlor	0.0004(F)	<0.000029U	<0.000029U	0.000076	<0.000029U	Not Sampled	0.000029R	No Sample	0.000029R	0.000010JR
Heptachlor Epoxide	0.0002(F)	<0.00081U	<0.00081U	<0.00081U	<0.00081U	Not Sampled	0.00081R	No Sample	0.00081R	0.00081R
KEPONE	---	<0.0058U	<0.0058U	<0.0058U	<0.0058U	Not Sampled	0.0058R	No Sample	0.0058R	0.0058R
Methoxychlor	0.04(F)	<0.0017U	<0.0017U	<0.0017U	<0.0017U	Not Sampled	0.0017R	No Sample	0.0017R	0.0017R
Methyl Parathion	---	<0.0012U	<0.0012U	<0.0012U	<0.0012U	Not Sampled	0.0012R	No Sample	0.0012R	0.0012R
PCB-1016	0.0005(F)	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1221	0.0005(F)	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1232	0.0005(F)	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1242	0.0005(F)	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1248	0.0005(F)	<0.0006U	<0.0006U	<0.0006U	<0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1254	0.0005(F)	<0.0013U	0.000024J	0.00093J	<0.0013U	Not Sampled	0.0013R	No Sample	0.0013R	0.0013R
PCB-1260	0.0005(F)	<0.0013U	<0.0013U	<0.0013U	<0.0013U	Not Sampled	0.0013R	No Sample	0.0013R	0.0013R
Phorate	---	<0.00039U	<0.00039U	<0.00039U	<0.00039U	Not Sampled	0.00039R	No Sample	0.00039R	0.00039R
PPDDD	---	<0.00011U	<0.00011U	<0.00011U	<0.00011U	Not Sampled	0.00011R	No Sample	0.00011R	0.00011R
PPDDE	---	<0.000039U	<0.000039U	<0.000039U	<0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
PPDDT	---	<0.00012U	<0.00012U	<0.00012U	<0.00012U	Not Sampled	0.00012R	No Sample	0.00012R	0.00012R
Toxaphene	0.003(F)	<0.0023U	<0.0023U	<0.0023U	<0.0023U	Not Sampled	0.0023R	No Sample	0.0023R	0.0023R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13006		13007	13008			16730		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	09/18/91		09/18/91	09/18/91			09/18/91		
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029R	Not Sampled	0.000029R	0.000029R	Not Sampled	No Sample	0.000029R	Not Sampled	Not Sampled
a-CHLORDANE	0.002(F)	0.000049R	Not Sampled	0.000049R	0.000049R	Not Sampled	No Sample	0.000049R	Not Sampled	Not Sampled
A-Endosulfan	---	0.00014R	Not Sampled	0.00014R	0.00014R	Not Sampled	No Sample	0.00014R	Not Sampled	Not Sampled
Aldrin	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
B-BHC	---	0.000059R	Not Sampled	0.000059R	0.000059R	Not Sampled	No Sample	0.000059R	Not Sampled	Not Sampled
B-Endosulfan	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
D-BHC	---	0.000087R	Not Sampled	0.000087R	0.000087R	Not Sampled	No Sample	0.000087R	Not Sampled	Not Sampled
Dieldrin	---	0.000019R	Not Sampled	0.000019R	0.000019R	Not Sampled	No Sample	0.000019R	Not Sampled	Not Sampled
Disulfoton	---	0.00069R	Not Sampled	0.00069R	0.00069R	Not Sampled	No Sample	0.00069R	Not Sampled	Not Sampled
Endosulfan sulfate	---	0.00064R	Not Sampled	0.00064R	0.00064R	Not Sampled	No Sample	0.00064R	Not Sampled	Not Sampled
Endrin	0.002(P)	0.000058R	Not Sampled	0.000058R	0.000058R	Not Sampled	No Sample	0.000058R	Not Sampled	Not Sampled
Endrin Aldehyde	---	0.00022R	Not Sampled	0.000093JR	0.00022R	Not Sampled	No Sample	0.000092JR	Not Sampled	Not Sampled
Ethyl Parathion	---	0.00058R	Not Sampled	0.00058R	0.00058R	Not Sampled	No Sample	0.00058R	Not Sampled	Not Sampled
Famphur	---	0.0012R	Not Sampled	0.0012R	0.0012R	Not Sampled	No Sample	0.0012R	Not Sampled	Not Sampled
G-BHC	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
g-CHLORDANE	0.002(F)	0.000049R	Not Sampled	0.000049R	0.000049R	Not Sampled	No Sample	0.000049R	Not Sampled	Not Sampled
Heptachlor	0.0004(F)	0.000029R	Not Sampled	0.000029R	0.000029R	Not Sampled	No Sample	0.000029R	Not Sampled	Not Sampled
Heptachlor Epoxide	0.0002(F)	0.00081R	Not Sampled	0.00081R	0.00081R	Not Sampled	No Sample	0.00081R	Not Sampled	Not Sampled
KEPONE	---	0.0058R	Not Sampled	0.0058R	0.0058R	Not Sampled	No Sample	0.0058R	Not Sampled	Not Sampled
Methoxychlor	0.04(F)	0.0017R	Not Sampled	0.0017R	0.0017R	Not Sampled	No Sample	0.0017R	Not Sampled	Not Sampled
Methyl Parathion	---	0.0012R	Not Sampled	0.0012R	0.0012R	Not Sampled	No Sample	0.0012R	Not Sampled	Not Sampled
PCB-1016	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1221	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1232	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1242	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1248	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1254	0.0005(F)	0.0013R	Not Sampled	0.0013R	0.0013R	Not Sampled	No Sample	0.0013R	Not Sampled	Not Sampled
PCB-1260	0.0005(F)	0.0013R	Not Sampled	0.0013R	0.0013R	Not Sampled	No Sample	0.0013R	Not Sampled	Not Sampled
Phorate	---	0.00039R	Not Sampled	0.00039R	0.00039R	Not Sampled	No Sample	0.00039R	Not Sampled	Not Sampled
PPDDD	---	0.00011R	Not Sampled	0.00011R	0.00011R	Not Sampled	No Sample	0.00011R	Not Sampled	Not Sampled
PPDDE	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
PPDDT	---	0.00012R	Not Sampled	0.00012R	0.00012R	Not Sampled	No Sample	0.00012R	Not Sampled	Not Sampled
Toxaphene	0.003(F)	0.0023R	Not Sampled	0.0023R	0.0023R	Not Sampled	No Sample	0.0023R	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12452			13010
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		07/06/91			09/18/91
PESTICIDES/PCBs	MCL					
A-BHC	---	Not Sampled	<0.000029U	Not Sampled	Not Sampled	0.000029R
a-CHLORDANE	0.002(F)	Not Sampled	<0.000049U	Not Sampled	Not Sampled	0.000049R
A-Endosulfan	---	Not Sampled	<0.00014U	Not Sampled	Not Sampled	0.00014R
Aldrin	---	Not Sampled	<0.000039U	Not Sampled	Not Sampled	0.000039R
B-BHC	---	Not Sampled	<0.000059U	Not Sampled	Not Sampled	0.000059R
B-Endosulfan	---	Not Sampled	<0.000039U	Not Sampled	Not Sampled	0.000039R
D-BHC	---	Not Sampled	<0.000087U	Not Sampled	Not Sampled	0.000087R
Dieldrin	---	Not Sampled	<0.000019U	Not Sampled	Not Sampled	0.000019R
Disulfoton	---	Not Sampled	<0.00069U	Not Sampled	Not Sampled	0.00069R
Endosulfan sulfate	---	Not Sampled	<0.00064U	Not Sampled	Not Sampled	0.00064R
Endrin	0.002(P)	Not Sampled	<0.000058U	Not Sampled	Not Sampled	0.000058R
Endrin Aldehyde	---	Not Sampled	<0.00022U	Not Sampled	Not Sampled	0.00022R
Ethyl Parathion	---	Not Sampled	<0.00058U	Not Sampled	Not Sampled	0.00058R
Famphur	---	Not Sampled	<0.0012U	Not Sampled	Not Sampled	0.0012R
G-BHC	---	Not Sampled	<0.000039U	Not Sampled	Not Sampled	0.000039R
g-CHLORDANE	0.002(F)	Not Sampled	<0.000049U	Not Sampled	Not Sampled	0.000049R
Heptachlor	0.0004(F)	Not Sampled	<0.000029U	Not Sampled	Not Sampled	0.000029R
Heptachlor Epoxide	0.0002(F)	Not Sampled	<0.00081U	Not Sampled	Not Sampled	0.00081R
KEPONE	---	Not Sampled	<0.0058U	Not Sampled	Not Sampled	0.0058R
Methoxychlor	0.04(F)	Not Sampled	<0.0017U	Not Sampled	Not Sampled	0.0017R
Methyl Parathion	---	Not Sampled	<0.0012U	Not Sampled	Not Sampled	0.0012R
PCB-1016	0.0005(F)	Not Sampled	<0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1221	0.0005(F)	Not Sampled	<0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1232	0.0005(F)	Not Sampled	<0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1242	0.0005(F)	Not Sampled	<0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1248	0.0005(F)	Not Sampled	<0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1254	0.0005(F)	Not Sampled	<0.0013U	Not Sampled	Not Sampled	0.0013R
PCB-1260	0.0005(F)	Not Sampled	<0.0013U	Not Sampled	Not Sampled	0.0013R
Phorate	---	Not Sampled	<0.00039U	Not Sampled	Not Sampled	0.00039R
PPDDD	---	Not Sampled	<0.00011U	Not Sampled	Not Sampled	0.00011R
PPDDE	---	Not Sampled	<0.000039U	Not Sampled	Not Sampled	0.000039R
PPDDT	---	Not Sampled	<0.00012U	Not Sampled	Not Sampled	0.00012R
Toxaphene	0.003(F)	Not Sampled	<0.0023U	Not Sampled	Not Sampled	0.0023R

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12382	13042	12500	12501	12863	13043		13027	13028
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/10/91	06/28/91	06/10/91	06/10/91	06/19/91	06/28/91		06/28/91	06/28/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0037BJ	0.0056BJ	0.015BJ	0.018BJ	0.054BJ	0.024BJ	Not Sampled	<0.10U	<0.10U
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	0.0021J	0.0024J	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	0.022	0.021	0.0017J	<0.005U	Not Sampled	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0026BJ	0.0020BJ	0.0069B	0.0049BJ	0.0015BJ	0.00082BJ	Not Sampled	0.0087B	0.018B
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	0.001J	<0.005U	Not Sampled	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	0.010J	0.010J	0.0056BJ	<0.10U	Not Sampled	<0.10U	<0.10U
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12850	12851	13029	13030	13031	12852		12485	12486
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/19/91	06/19/91	06/28/91	06/28/91	06/28/91	06/19/91		06/10/91	06/10/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.011J	0.007J	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	0.00087BJ	0.0025BJ
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0011BJ	0.0013BJ	0.0040BJ	0.0032BJ	0.0018B	0.0008BJ	Not Sampled	0.0025BJ	0.0020BJ
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12487	12853	12854	12855		12856	12857	12488	12489
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/10/91	06/19/91	06/19/91	06/19/91		06/19/91	06/19/91	06/10/91	06/10/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0039BJ	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	0.0020BJ	0.0017BJ
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	0.001J	0.001J
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0049BJ	0.0005BJ	0.0005BJ	0.0028BJ	Not Sampled	0.0011BJ	0.0004BJ	0.0061B	0.0079B
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12490	12858	12859	12860		13032	13033	13034	13035
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Analyzed:	06/10/91	06/19/91	06/19/91	06/19/91		06/28/91	06/28/91	06/28/91	06/28/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0071BJ	<0.10U	<0.10U	0.0095BJ	Not Sampled	<0.10U	0.042BJ	<0.10U	0.0088BJ
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	0.0011J	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.0076B	0.0050B	0.0042BJ	0.0045BJ	Not Sampled	0.0019BJ	0.0042B	0.0026BJ	0.0013BJ
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C17P2 13036 06/25/91 06/28/91	02C17P3	02C18 13037 06/25/91 06/28/91	02C18P2 13038 06/25/91 06/28/91	02C18P3	02C19	02C19P2 13040 06/25/91 06/28/91	02C19P3	02C20
VOLATILE ORGANICS	MCL									
Acetone	---	0.0088BJ	Not Sampled	0.0054BJ	0.0055BJ	Not Sampled	No Sample	0.0032BJ	Not Sampled	Not Sampled
Benzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Bromodichloromethane	0.1(L)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Bromoform	0.1(L)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Bromomethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Carbon Tetrachloride	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Carbondisulfide	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Chlorobenzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Chloroethene	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
Chloroform	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Chloromethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
cis-1,2-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
cis-1,3-Dichloropropene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Dibromochloromethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Ethylbenzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Methylene Chloride	0.005(P)	0.0027BJ	Not Sampled	0.0094B	0.0052B	Not Sampled	No Sample	0.0025BJ	Not Sampled	Not Sampled
Styrene	0.1(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Tetrachloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Toluene	1(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Trans-1,2-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Trans-1,3-Dichloropropene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Trichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
T-Xylene	10(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Vinyl Acetate	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
Vinyl Chloride	0.002(F)	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	No Sample	<0.010U	Not Sampled	Not Sampled
1,1-Dichloroethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,1-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,1,1-Trichloroethane	0.2(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,1,2-Trichloroethane	0.005(P)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,1,2,2-Tetrachloroethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,2-Dichloroethane	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
1,2-Dichloropropane	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
2-Butanone	---	<0.10U	Not Sampled	<0.10U	<0.10U	Not Sampled	No Sample	<0.10U	Not Sampled	Not Sampled
2-Hexanone	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled
4-Methyl-2-Pentanone	---	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	No Sample	<0.005U	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12491			13041
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/10/91			06/28/91
VOLATILE ORGANICS	MCL					
Acetone	---	Not Sampled	0.0077BJ	Not Sampled	Not Sampled	0.0024BJ
Benzene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromodichloromethane	0.1(L)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromoform	0.1(L)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromomethane	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Carbon Tetrachloride	0.005(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Carbondisulfide	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Chlorobenzene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Chloroethane	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
Chloroform	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Chloromethane	---	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
cis-1,2-Dichloroethene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
cis-1,3-Dichloropropene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Dibromochloromethane	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Ethylbenzene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Methylene Chloride	0.005(P)	Not Sampled	0.0064B	Not Sampled	Not Sampled	0.0015BJ
Styrene	0.1(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Tetrachloroethene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Toluene	1(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Trans-1,2-Dichloroethene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Trans-1,3-Dichloropropene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Trichloroethene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
T-Xylene	10(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Vinyl Acetate	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
Vinyl Chloride	0.002(F)	Not Sampled	<0.010U	Not Sampled	Not Sampled	<0.010U
1,1-Dichloroethane	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1-Dichloroethene	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,1-Trichloroethane	0.2(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,2-Trichloroethane	0.005(P)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,2,2-Tetrachloroethane	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,2-Dichloroethane	0.005(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
1,2-Dichloropropane	0.005(F)	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
2-Butanone	---	Not Sampled	<0.10U	Not Sampled	Not Sampled	<0.10U
2-Hexanone	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U
4-Methyl-2-Pentanone	---	Not Sampled	<0.005U	Not Sampled	Not Sampled	<0.005U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12361	12997	12442	12699	12823	12898		12984	12985
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/07/91	06/29/91	06/06/91	06/10/91	06/15/91	06/29/91		06/29/91	06/29/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Aniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
Anthracene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzidine	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.0011J	0.010U	Not Sampled	0.010U	0.001J
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Diethyl Phthalate	---	0.010U	0.010U	0.0021BJ	0.010U	0.010U	0.010U	Not Sampled	0.014B	0.011B
Dimethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.0024J	0.010U	Not Sampled	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Fluorene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Isophorone	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12361	12997	12442	12699	12823	12998		12984	12985
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/07/91	06/29/91	06/06/91	06/10/91	06/15/91	06/29/91		06/29/91	06/29/91
BNA	MCL									
Phenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Pyrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2-Dichlorobenzene	0.8(L)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Chlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2-Nitrophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
3-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Chloroaniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
4-Nitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12811	12812	12886	12887	12888	12813		12427	12428
	Date Sampled:	06/06/61	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/15/91	06/15/91	06/29/91	06/29/91	06/29/91	06/15/91		06/06/91	06/06/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Aniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
Anthracene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzidine	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010U	0.010U	0.010U	0.0055J	0.0016J	0.0017J	Not Sampled	0.0016BJ	0.0011BJ
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Diethyl Phthalate	---	0.010U	0.010U	0.012B	0.0095BJ	0.0085BJ	0.010U	Not Sampled	0.0045BJ	0.0048BJ
Dimethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Fluorene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Isophorone	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12811	12812	12986	12987	12988	12813		12427	12428
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/15/91	06/15/91	06/29/91	06/29/91	06/29/91	06/15/91		06/06/91	06/06/91
BNA	MCL									
Phenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Pyrene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Chlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2-Nitrophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
3-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Chloroaniline	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
4-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
4-Nitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12429		12814	12815		12816	12817	12430	12431
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/06/91		06/15/91	06/15/91		06/15/91	06/15/91	06/06/91	06/06/91
BNA	MCL									
Acenaphthene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Acenaphthylene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Aniline	---	0.020U	No Sample	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
Anthracene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzidine	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
Benzoic Acid	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Benzyl Alcohol	---	0.020U	No Sample	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0066BJ	No Sample	0.0026J	0.0031J	Not Sampled	0.0032J	0.010U	0.0044BJ	0.0026BJ
Butylbenzylphthalate	0.1(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Dibenzofuran	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Dibutylphthalate	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Diethyl Phthalate	---	0.0047BJ	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.0044BJ	0.0043BJ
Dimethyl Phthalate	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Fluoranthene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Fluorene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Hexachloroethane	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Isophorone	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Naphthalene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Nitrobenzene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
Phenanthrene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12429		12814	12815		12816	12817	12430	12431
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/06/91		06/15/91	06/15/91		06/15/91	06/15/91	06/06/91	06/06/91
BNA	MCL									
Phenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Pyrene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2-Chlorophenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2-Methylphenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2-Nitroaniline	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
2-Nitrophenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
3-Nitroaniline	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	No Sample	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	No Sample	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
4-Chloroaniline	---	0.020U	No Sample	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
4-Methylphenol	---	0.010U	No Sample	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
4-Nitroaniline	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
4-Nitrophenol	---	0.050U	No Sample	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12432	12818	12819	12820		12989		12990	12991
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/06/91	06/15/91	06/15/91	06/15/91		06/29/91		06/29/91	06/29/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Aniline	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
Anthracene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzidine	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0025BJ	0.0061J	0.0033J	0.010U	Not Sampled	0.0016J	No Sample	0.0022J	0.0021J
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Diethyl Phthalate	---	0.0040BJ	0.010U	0.010U	0.010U	Not Sampled	0.0091BJ	No Sample	0.0083	0.010U
Dimethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Fluorene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Isophorone	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12432	12818	12819	12820		12989		12990	12991
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/06/91	06/15/91	06/15/91	06/15/91		06/29/91		06/29/91	06/29/91
BNA	MCL									
Phenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
Pyrene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2-Chlorophenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
2-Nitrophenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
3-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
4-Chloroaniline	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
4-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	No Sample	0.010U	0.010U
4-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
4-Nitrophenol	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12992		12993	12994			12995		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/29/91		06/29/91	06/29/91			06/29/91		
BNA	MCL									
Acenaphthene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Acenaphthylene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Aniline	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
Anthracene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzidine	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
Benzoic Acid	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
Benzo(a)Anthracene	0.0001(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzo(a)Pyrene	0.0002(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzo(G,H,I)Perylene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Benzyl Alcohol	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
Bis(2-Chloroethoxy)Methane	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Bis(2-Chloroethyl)Ether	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0025J	Not Sampled	0.0064J	0.0030J	Not Sampled	No Sample	0.0032J	Not Sampled	Not Sampled
Butylbenzylphthalate	0.1(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Chrysene	0.0002(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Dibenzofuran	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Dibutylphthalate	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Diethyl Phthalate	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Dimethyl Phthalate	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Di-N-Octylphthalate	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Fluoranthene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Fluorene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Hexachlorobenzene	0.001(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Hexachlorobutadiene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Hexachloroethane	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Isophorone	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Naphthalene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Nitrobenzene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
N-Nitrosodimethylamine	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
N-Nitroso-Di-N-Propylamine	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
N-Nitrosodiphenyl Amine	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Pentachlorophenol	0.001(F)	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
Phenanthrene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12992		12993	12994			12995		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/29/91		06/29/91	06/29/91			06/29/91		
BNA	MCL									
Phenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Pyrene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,2-Dichlorobenzene	0.6(L)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,2-Diphenylhydrazine	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,3-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,4-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2-Chloronaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2-Chlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
2-Methylnaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
2-Nitrophenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,4-Dichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,4-Dimethylphenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,4-Dinitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
2,4-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,4,5-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,4,6-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
2,6-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
3-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
3,3'Dichlorobenzidine	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
4-Bromophenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
4-Chloro-3-Methylphenol	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
4-Chloroaniline	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
4-Chlorophenyl Phenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
4-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
4-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
4-Nitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
									Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12433			12996
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/06/91			06/29/91
BNA	MCL					
Acenaphthene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Acenaphthylene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Aniline	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
Anthracene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzidine	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
Benzoic Acid	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
Benzo(a)Anthracene	0.0001(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(a)Pyrene	0.0002(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(b)Fluoranthene	0.0002(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(G,H,I)Perylene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(k)Fluoranthene	0.0002(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Benzyl Alcohol	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
Bis(2-Chloroethoxy)Methane	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Chloroethyl)Ether	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Chloroisopropyl)Ether	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Ethylhexyl)Phthalate	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Butylbenzylphthalate	0.1(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Chrysene	0.0002(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Dibenzofuran	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Dibutylphthalate	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Diethyl Phthalate	---	Not Sampled	0.023B	Not Sampled	Not Sampled	0.010U
Dimethyl Phthalate	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Di-N-Octylphthalate	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Fluoranthene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Fluorene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorobenzene	0.001(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorobutadiene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorocyclopentadiene	0.05(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Hexachloroethane	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Isophorone	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Naphthalene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Nitrobenzene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitrosodimethylamine	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitroso-Di-N-Propylamine	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitrosodiphenyl Amine	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Pentachlorophenol	0.001(F)	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
Phenanthrene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12433			12996
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/06/91			06/29/91
BNA	MCL					
Phenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Pyrene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,2-Dichlorobenzene	0.6(L)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,2-Diphenylhydrazine	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,2,4-Trichlorobenzene	0.07(P)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,3-Dichlorobenzene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,4-Dichlorobenzene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2-Chloronaphthalene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2-Chlorophenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2-Methyl-4,6-Dinotrophenol	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
2-Methylnaphthalene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2-Methylphenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2-Nitroaniline	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
2-Nitrophenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dichlorophenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dimethylphenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dinitrophenol	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
2,4-Dinitrotoluene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,4,5-Trichlorophenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,4,6-Trichlorophenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
2,6-Dinitrotoluene	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
3-Nitroaniline	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
3,3'Dichlorobenzidine	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
4-Bromophenyl Ether	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
4-Chloro-3-Methylphenol	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
4-Chloroaniline	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
4-Chlorophenyl Phenyl Ether	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
4-Methylphenol	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
4-Nitroaniline	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
4-Nitrophenol	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12364	12982	12422	12423	12810	12983		12969	12970
	Date Sampled:	06/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/05/91	06/27/91	06/04/91	06/04/91	06/08/91	06/27/91		06/27/91	06/27/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
HMX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
RDX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
TETRYL	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
TNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
TNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12797	12798	12971	12972	12973	12799		12407	12408
	Date Sampled:	06/06/91	06/05/91	06/25/91	060/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/08/91	06/08/91	06/27/91	06/27/91	06/27/91	06/08/91		06/04/91	06/04/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
HMX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
RDX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
TETRYL	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
TNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
TNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12409	12800	12801	12802		12803	12804	12410	12411
	Date Sampled:	06/01/91	06/05/91	06/05/91	06/05/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/04/91	06/08/91	06/08/91	06/08/91		06/08/91	06/08/91	06/04/91	06/04/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
HMX	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
RDX	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
TETRYL	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U
TNB	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
TNT	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12412	12805	12806	12807		12974		12975	12976
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/04/91	06/08/91	06/08/91	06/08/91		06/27/91		06/27/91	06/27/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
HMX	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
RDX	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
TETRYL	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	No Sample	0.050U	0.050U
TNB	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
TNT	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	No Sample	0.020U	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	12977		12978	12979			12980		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/27/91		06/27/91	06/27/91			06/27/91		
EXPLOSIVES	MCL									
DNB	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
HMX	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
RDX	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
TETRYL	---	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	No Sample	0.050U	Not Sampled	Not Sampled
TNB	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
TNT	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled
2,4-DNT	---	0.020U	Not Sampled	0.020U	0.020U	Not Sampled	No Sample	0.020U	Not Sampled	Not Sampled

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12413			12981
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/04/91			06/27/91
EXPLOSIVES	MCL					
DNB	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
HMX	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
RDX	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
TETRYL	---	Not Sampled	0.050U	Not Sampled	Not Sampled	0.050U
TNB	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
TNT	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U
2,4-DNT	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12375	13025	12480	12481	12849	13026		13013	
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	
	Date Analyzed:	07/23/91	08/21/91	07/23/91	07/23/91	07/23/91	08/21/91		08/21/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	Not Sampled	0.012R	No Sample
2,4,5-T	---	0.0019U	0.0019U	0.0020U	0.0019U	0.0020U	0.0019U	Not Sampled	0.0019R	No Sample
2,4,5-TP	0.05(F)	0.0017U	0.0019U	0.00047J	0.0016U	0.0017U	0.0019U	Not Sampled	0.0019R	No Sample
Dinoseb	0.007(P)	0.00068U	0.00068U	0.00069U	0.00067U	0.00070U	0.00068U	Not Sampled	0.00068R	No Sample

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12390	13077	12541	12542	12892	13078		13062	13063
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/05/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Anal. (Cn):	06/11/91	07/01/91	06/11/91	06/14/91	06/14/91	07/01/91		07/01/91	07/01/91
	Date Anal. (S):	06/02/91	06/29/91	06/04/91	06/10/91	06/10/91	06/29/91		06/29/91	06/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Sulfide	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12837	12838	13014	13015	13016	12839		12466	12467
	Date Sampled:	06/06/91	06/05/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/23/91	07/23/91	08/21/91	08/21/91	08/21/91	07/23/91		07/23/91	07/23/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012U	0.015U	0.012R	0.013R	0.012R	0.014U	Not Sampled	0.011R	0.012R
2,4,5-T	---	0.0025U	0.0025U	0.019R	0.0021R	0.0019R	0.0024U	Not Sampled	0.0019R	0.0019R
2,4,5-TP	0.05(F)	0.0017U	0.00062J	0.019R	0.0021R	0.0019R	0.0020U	Not Sampled	0.0019R	0.0019R
Dinoseb	0.007(P)	0.00070U	0.00086U	0.00068R	0.00074R	0.00068R	0.00083U	Not Sampled	0.00067R	0.00068R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12879	12880	13064	13065	13066	12881		12526	12527
	Date Sampled:	06/06/91	06/05/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Anal. (Cn):	06/14/91	06/14/91	07/01/91	07/01/91	07/01/91	06/14/91		06/11/91	06/11/91
	Date Anal. (S):	06/10/91	06/10/91	06/29/91	06/29/91	06/29/91	06/10/91		06/04/91	06/04/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Sulfide	---	0.020U	0.020U	0.020U	0.249	0.020U	0.020U	Not Sampled	0.020U	0.020U

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12468		12840	12841		12842	12843		12469
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/06/91	06/06/91		06/01/91
	Date Analyzed:	07/23/91		07/23/91	07/23/91		07/23/91	07/23/91		07/23/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	Not Sampled	0.016U	0.013U	Not Sampled	0.014U	0.012U	Not Sampled	0.012R
2,4,5-T	---	0.0020R	Not Sampled	0.0026U	0.0021U	Not Sampled	0.0024U	0.0019U	Not Sampled	0.0019R
2,4,5-TP	0.05(F)	0.0017R	Not Sampled	0.0022U	0.00067J	Not Sampled	0.0020U	0.0017U	Not Sampled	0.0016R
Dinoseb	0.007(P)	0.00069R	Not Sampled	0.00091U	0.00074U	Not Sampled	0.00084U	0.00068U	Not Sampled	0.00067R

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12528	12882	12883	12884		12885	12886	12529	12530
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Anal. (Cn):	06/11/91	06/14/91	06/14/91	06/14/91		06/14/91	06/14/91	06/11/91	06/11/91
	Date Anal. (S):	06/04/91	06/10/91	06/10/91	06/10/91		06/10/91	06/10/91	06/04/91	06/04/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Sulfide	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.054

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12470	12844	12845	12486		13017		13018	13019
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	07/23/91	07/23/91	07/23/91	07/23/91		07/21/91		07/21/91	07/21/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012R	0.012U	0.012U	0.012U	Not Sampled	0.012U	Not Sampled	0.012U	0.011U
2,4,5-T	---	0.0019R	0.0019U	0.0019U	0.0019U	Not Sampled	0.0019U	Not Sampled	0.0019U	0.0019U
2,4,5-TP	0.05(F)	0.0016R	0.0017U	0.0017U	0.0017U	Not Sampled	0.0019U	Not Sampled	0.0019U	0.0019U
Dinoseb	0.007(P)	0.00067R	0.00068U	0.00068U	0.00068U	Not Sampled	0.00067U	Not Sampled	0.00068U	0.00067U

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12531	12887	12888	12889		13067	13068	13069	13070
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Anal. (Cn):	06/11/91	06/14/91	06/14/91	06/14/91		07/01/91	07/01/91	07/01/91	07/01/91
	Date Anal. (S):	06/04/91	06/10/91	06/10/91	06/10/91		06/29/91	06/29/91	06/29/91	06/29/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Sulfide	---	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.041	0.020U	0.070

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13020		13021	13022			13023		
	Date Sampled:	06/25/91		06/25/90	06/25/91			06/25/91		
	Date Analyzed:	08/21/91		08/21/91	08/21/91			08/21/91		
HERBICIDES	MCL									
2,4-D	0.07	0.012U	Not Sampled	0.019R	0.012R	Not Sampled	Not Sampled	0.012R	Not Sampled	Not Sampled
2,4,5-T	---	0.0021U	Not Sampled	0.00031R	0.0019R	Not Sampled	Not Sampled	0.0019R	Not Sampled	Not Sampled
2,4,5-TP	0.05	0.0021U	Not Sampled	0.0031R	0.0019R	Not Sampled	Not Sampled	0.0019R	Not Sampled	Not Sampled
Dinoseb	0.007(P)	0.00072U	Not Sampled	0.0011R	0.00067R	Not Sampled	Not Sampled	0.00068R	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13071		13072	13073		13074	13075		
	Date Sampled:	06/25/91		06/25/91	06/25/91		06/25/91	06/25/91		
	Date Anal. (Cn):	07/01/91		07/01/91	07/01/91		07/01/91	07/01/91		
	Date Anal. (S):	06/29/91		06/29/91	06/29/91		06/29/91	06/29/91		
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	Not Sampled
Sulfide	---	0.020U	Not Sampled	0.093	0.020U	Not Sampled	0.083	0.148	Not Sampled	Not Sampled

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12471			13024
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		07/23/91			08/21/91
HERBICIDES	MCL					
2,4-D	0.07	Not Sampled	0.012R	Not Sampled	0.000020BR	0.012R
2,4,5-T	---	Not Sampled	0.0019R	Not Sampled	0.00011JR	0.0020R
2,4,5-TP	0.05	Not Sampled	0.0016R	Not Sampled	0.00046BR	0.0020R
Dinoseb	0.007(P)	Not Sampled	0.00067R	Not Sampled	0.00071BR	0.00069R

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12532			13076
	Date Sampled:		06/01/91			06/25/91
	Date Anal. (Cn):		06/11/91			07/01/91
	Date Anal. (S):		06/04/91			06/29/91
CYANIDE and SULFIDE	MCL					
Cyanide	0.2(P)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Sulfide	---	Not Sampled	0.020U	Not Sampled	Not Sampled	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	16269	13060	12521	12522	12878	13061		13045	13046
	Date Sampled:	11/13/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	11/26/91	08/08/91	07/30/91	07/30/91	08/06/91	08/08/91		07/17/91	07/17/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.118B	0.224	0.010U	0.010U	Not Sampled	0.010U	0.010U
Antimony	0.01(P)	0.0159B	0.0030U	0.0230B	0.0047B	0.0210B	0.0301	Not Sampled	0.0082BW	0.0184B
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Barium	2.0(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.030B	0.047B
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	Not Sampled	0.001U	0.001U
Cadmium	0.005(F)	0.004U	0.004U	0.004UN	0.004UN	0.004U	0.004U	Not Sampled	0.004U	0.004U
Calcium	---	0.158B	0.080B	8.95	9.28	0.700B	0.111B	Not Sampled	346	184
Chromium	0.1(F)	0.005BN	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Cobalt	---	0.010U	0.006U	0.006U	0.006U	0.006UN	0.006U	Not Sampled	0.007B	0.006U
Copper	1.3(F)	0.020B	0.005U	0.005U	0.005U	0.011B	0.005U	Not Sampled	0.005U	0.005U
Iron	---	0.010U	0.174	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.077B	0.010U
Lead	0.015(F)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0033BW	0.0012B
Magnesium	---	0.200U	0.150U	1.74B	1.60B	0.152B	0.150U	Not Sampled	96	53.6
Manganese	---	0.007B	0.005U	0.005UN	0.005UN	0.008B	0.005U	Not Sampled	1.30	0.005U
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U
Nickel	0.1(P)	0.005U	0.005U	0.005B	0.005U	0.005U	0.005U	Not Sampled	0.010B	0.005U
Potassium	---	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	Not Sampled	4.81B	5.79
Selenium	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U
Sodium	---	0.215B	0.062U	2.13	1.90	0.486	0.124B	Not Sampled	33.7	23.9
Thallium	0.002(P)	0.0020U	0.0080U	0.0080U	0.0080U	0.0080U	0.0080U	Not Sampled	0.0080U	0.0080U
Tin	---	0.050U	0.035U	0.035U	0.035U	0.035U	0.035U	Not Sampled	0.035U	0.035U
Vanadium	---	0.010U	0.005U	0.005U	0.005U	0.005UN	0.005U	Not Sampled	0.005U	0.005U
Zinc	---	0.005U	0.006UN	0.006B	0.006UN	0.006U	0.006UN	Not Sampled	0.006UN	0.006UN

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12865	12866	13047	13048	13049	12867		12506	12507
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/11/91	07/11/91	07/17/91	07/17/91	07/17/91	07/11/91		07/30/91	07/30/91
METALS	MCL									
Aluminum	---	1.19	0.010U	0.704	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Antimony	0.01(P)	0.0143BW	0.0162BW	0.0171BW	0.0083BW	0.0110BW	0.0217B	Not Sampled	0.0147B	0.0139B
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0032B	0.0020U
Barium	2.0(F)	0.028BN	0.024BN	0.010B	0.015B	0.012B	0.020BN	Not Sampled	0.010U	0.028B
Beryllium	0.001(P)	0.001U	0.001U	0.001B	0.001U	0.001U	0.001U	Not Sampled	0.001U	0.001U
Cadmium	0.005(F)	0.006	0.008	0.013	0.004U	0.004B	0.004U	Not Sampled	0.004U	0.004U
Calcium	---	442	649	676	397	622	64.7	Not Sampled	86.0	137
Chromium	0.1(F)	0.005U	0.006B	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Cobalt	---	0.226	0.032B	0.605	0.011B	0.015B	0.006U	Not Sampled	0.006B	0.006U
Copper	1.3(F)	0.006B	0.018B	0.005U	0.005U	0.005U	0.016B	Not Sampled	0.005U	0.017B
Iron	---	0.144N	0.303N	2.99	0.034B	0.048B	0.010UN	Not Sampled	0.013B	0.020B
Lead	0.015(F)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U
Magnesium	---	113	215	413	137	215	52.0	Not Sampled	64.5	67.9
Manganese	---	4.06	7.1	16.4	0.005B	0.007B	0.011B	Not Sampled	0.022N	0.149N
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U
Nickel	0.1(P)	0.905	0.048	1.84	0.005U	0.027B	0.005U	Not Sampled	0.005B	0.005U
Potassium	---	5.42	8.47	7.08	2.83B	4.28B	7.16	Not Sampled	13.5	7.95
Selenium	0.05(F)	0.0020U	0.0020U	0.0020U	0.0054	0.0046BW	0.0020B	Not Sampled	0.0094	0.0020U
Silver	---	0.0010U	0.0010U	0.0010UW	0.0010UW	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U
Sodium	---	40.6	52.0	81.0	60.1	70.0	57.1	Not Sampled	269	22.1
Thallium	0.002(P)	0.0080U	0.0080U	0.0080UW	0.0080UW	0.0080U	0.0080UW	Not Sampled	0.0080U	0.0080U
Tin	---	0.035U	0.035U	0.035U	0.035U	0.035U	0.035U	Not Sampled	0.035U	0.035U
Vanadium	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Zinc	---	0.418	0.006U	1.58N	0.006UN	0.058N	0.006U	Not Sampled	0.006U	0.007B

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12508	12868	12869	12870		12871	12872	12509	12510
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/17/91	07/11/91	07/11/91	07/11/91		07/01/91	07/11/91	07/30/91	07/30/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.010U	21.4	Not Sampled	0.010U	0.010U	0.010U	0.010U
Antimony	0.01(P)	0.0120B	0.0390B	0.0116B	0.0147B	Not Sampled	0.0178B	0.0140B	0.0234B	0.0144B
Arsenic	0.05(F)	0.0020U	0.0068BW	0.0020U	0.0020U	Not Sampled	0.0020UW	0.0020U	0.0020U	0.0020U
Barium	2.0(F)	0.017B	0.025BN	0.031BN	0.010UN	Not Sampled	0.045BN	0.018BN	0.018B	0.030B
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.005	Not Sampled	0.001U	0.001U	0.001U	0.001U
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.011	Not Sampled	0.004U	0.006	0.004U	0.004U
Calcium	---	29.0	5.79	170	197	Not Sampled	124	337	22.8	245
Chromium	0.1(F)	0.005U	0.007B	0.005B	0.006B	Not Sampled	0.005U	0.005U	0.005U	0.005U
Cobalt	---	0.018B	0.006U	0.029B	0.389	Not Sampled	0.006U	0.035B	0.007B	0.034B
Copper	1.3(F)	0.011B	0.014B	0.022B	0.014B	Not Sampled	0.025	0.021B	0.009B	0.021B
Iron	---	1.44	0.010UN	0.010UN	4.91N	Not Sampled	0.010UN	0.010UN	0.013B	1.06
Lead	0.015(F)	0.0010U	0.0016B	0.0010U	0.0079W	Not Sampled	0.0010U	0.0010BW	0.0010U	0.0010U
Magnesium	---	19.8	11.2	37.9	81.6	Not Sampled	0.239B	234	31.2	142
Manganese	---	1.66N	0.006B	0.226	1.79	Not Sampled	0.005U	1.26	0.008BN	1.86N
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	0.007B	0.005U	0.122	0.923	Not Sampled	0.005U	0.014B	0.007B	0.039B
Potassium	---	1.46B	58.8	3.81B	4.81	Not Sampled	8.72	34.5	16.1	8.59
Selenium	0.05(F)	0.0020U	0.005B	0.0020U	0.0020U	Not Sampled	0.0022B	0.0020U	0.032B	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0010U
Sodium	---	26.9	174	38.7	58.7	Not Sampled	85.6	138	41.7	72.3
Thallium	0.002(P)	0.0080U	0.0080UW	0.0080UW	0.0080U	Not Sampled	0.0080U	0.0080U	0.0080U	0.0080UW
Tin	---	0.035U	0.035U	0.035U	0.035U	Not Sampled	0.035U	0.035U	0.035U	0.035U
Vanadium	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Zinc	---	0.031	0.006U	0.118	1.39	Not Sampled	0.006U	0.006U	0.007B	0.037B

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12511	12873	12874	12875		13050	13051	13052	13053
	Date Sampled:	06/01/91	06/05/91	06/05/91	06/05/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Analyzed:	07/30/91	07/11/91	07/11/91	07/11/91		07/17/91	07/17/91	07/17/91	07/17/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.010U	0.702	Not Sampled	0.320	0.010U	0.883	0.010U
Antimony	0.01(P)	0.0124B	0.0291B	0.0192B	0.0061B	Not Sampled	0.0152B	0.0180B	0.0131B	0.0158B
Arsenic	0.05(F)	0.0020U	0.0030B	0.0020U	0.0020U	Not Sampled	0.0020U	0.0024B	0.0020U	0.0020UW
Barium	2.0(F)	0.018B	0.048BN	0.081BN	0.031B	Not Sampled	0.022B	0.040B	0.010U	0.029B
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U	Not Sampled	0.001U	0.001U	0.001U	0.001U
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.004U	Not Sampled	0.004U	0.004U	0.004U	0.004U
Calcium	---	12.9	36.2	249	298	Not Sampled	164	17.1	62.2	88.8
Chromium	0.1(F)	0.005U	0.005U	0.005B	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Cobalt	---	0.012B	0.006U	0.008B	0.162N	Not Sampled	0.057	0.006U	0.024B	0.006U
Copper	1.3(F)	0.029	0.052	0.020B	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Iron	---	0.418	0.010UN	0.010UN	1.12	Not Sampled	4.38	0.035B	0.014B	0.010U
Lead	0.015(F)	0.0010U	0.0013B	0.0010U	0.0014B	Not Sampled	0.0010U	0.0018B	0.0010U	0.0010U
Magnesium	---	8.51	50.1	0.225B	97.4	Not Sampled	29.8	39.7	26.8	42.6
Manganese	---	0.319N	0.018	0.006B	2.48	Not Sampled	0.770	0.005U	0.484	0.010B
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	0.016B	0.005U	0.005U	0.514	Not Sampled	0.088	0.005U	0.250	0.005U
Potassium	---	1.14B	20.0	7.51	3.69B	Not Sampled	6.42	43.1	3.14B	5.75
Selenium	0.05(F)	0.0020U	0.0020U	0.0020UN	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020UW	0.0020UW
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0010U
Sodium	---	39.0	56.1	20.2	32.5	Not Sampled	24.1	74.4	20.1	55.0
Thallium	0.002(P)	0.0080UW	0.0080UW	0.0080U	0.0080U	Not Sampled	0.0080U	0.0080U	0.0080U	0.0080U
Tin	---	0.035U	0.035U	0.035U	0.035U	Not Sampled	0.035U	0.035U	0.035U	0.035U
Vanadium	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Zinc	---	0.021	0.006U	0.006U	0.075	Not Sampled	0.183	0.006UN	0.043N	0.006UN

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13054		13055	13056					
	Date Sampled:	06/25/91		06/25/91	06/25/91					
	Date Analyzed:	07/18/91		07/18/91	07/18/91					
METALS	MCL									
Aluminum	---	0.076B	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Antimony	0.01(P)	0.0132BW	Not Sampled	0.0222B	0.0184B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Arsenic	0.05(F)	0.0020U	Not Sampled	0.0020U	0.0020U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Barium	2.0(F)	0.010U	Not Sampled	0.012B	0.010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Beryllium	0.001(P)	0.001U	Not Sampled	0.001U	0.001U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Cadmium	0.005(F)	0.006	Not Sampled	0.004U	0.004B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Calcium	---	580	Not Sampled	79.1	403	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Chromium	0.1(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Cobalt	---	0.069	Not Sampled	0.006U	0.035B	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Copper	1.3(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Iron	---	0.313	Not Sampled	0.033B	2.48	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Lead	0.015(F)	0.0010U	Not Sampled	0.0021B	0.0010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Magnesium	---	218	Not Sampled	28.4	127	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Manganese	---	0.841	Not Sampled	0.054	1.64	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Mercury	0.002(F)	0.0002U	Not Sampled	0.0002U	0.0002U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Nickel	0.1(P)	0.118	Not Sampled	0.005U	0.078	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Potassium	---	6.97	Not Sampled	5.51	7.74	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Selenium	0.05(F)	0.0022B	Not Sampled	0.0082	0.0020U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Silver	---	0.0010U	Not Sampled	0.0010UW	0.0010U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Sodium	---	82.7	Not Sampled	97.7	53.1	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Thallium	0.002(P)	0.0080U	Not Sampled	0.0080U	0.0080U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Tin	---	0.035U	Not Sampled	0.035U	0.035U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Vanadium	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled
Zinc	---	0.152N	Not Sampled	0.006UN	0.014BN	Not Sampled	No Sample	No Sample	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12512			
	Date Sampled:		06/01/91			
	Date Analyzed:		07/30/91			
METALS	MCL					
Aluminum	---	Not Sampled	0.010U	Not Sampled	Not Sampled	No Sample
Antimony	0.01(P)	Not Sampled	0.0076B	Not Sampled	Not Sampled	No Sample
Arsenic	0.05(F)	Not Sampled	0.0020U	Not Sampled	Not Sampled	No Sample
Barium	2.0(F)	Not Sampled	0.010U	Not Sampled	Not Sampled	No Sample
Beryllium	0.001(P)	Not Sampled	0.001U	Not Sampled	Not Sampled	No Sample
Cadmium	0.005(F)	Not Sampled	0.004U	Not Sampled	Not Sampled	No Sample
Calcium	---	Not Sampled	175	Not Sampled	Not Sampled	No Sample
Chromium	0.1(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	No Sample
Cobalt	---	Not Sampled	0.017B	Not Sampled	Not Sampled	No Sample
Copper	1.3(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	No Sample
Iron	---	Not Sampled	0.160	Not Sampled	Not Sampled	No Sample
Lead	0.015(F)	Not Sampled	0.0010U	Not Sampled	Not Sampled	No Sample
Magnesium	---	Not Sampled	161	Not Sampled	Not Sampled	No Sample
Manganese	---	Not Sampled	0.403N	Not Sampled	Not Sampled	No Sample
Mercury	0.002(F)	Not Sampled	0.0002U	Not Sampled	Not Sampled	No Sample
Nickel	0.1(P)	Not Sampled	0.014B	Not Sampled	Not Sampled	No Sample
Potassium	---	Not Sampled	3.81B	Not Sampled	Not Sampled	No Sample
Selenium	0.05(F)	Not Sampled	0.0020U	Not Sampled	Not Sampled	No Sample
Silver	---	Not Sampled	0.0010U	Not Sampled	Not Sampled	No Sample
Sodium	---	Not Sampled	141	Not Sampled	Not Sampled	No Sample
Thallium	0.002(P)	Not Sampled	0.0080UW	Not Sampled	Not Sampled	No Sample
Tin	---	Not Sampled	0.035U	Not Sampled	Not Sampled	No Sample
Vanadium	---	Not Sampled	0.005U	Not Sampled	Not Sampled	No Sample
Zinc	---	Not Sampled	0.006B	Not Sampled	Not Sampled	No Sample

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12368	13011	12461	12462	12838	13012		12998	
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	
	Date Analyzed:	07/21/91	10/18/91	07/06/91	07/06/91	07/02/91	10/18/91		09/18/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029U	0.000029U	0.000029U	0.000029U	0.000029U	0.000029U	Not Sampled	0.000029R	No Sample
a-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049U	0.000049U	0.000049U	0.000049U	Not Sampled	0.000049R	No Sample
A-Endosulfan	---	0.00013U	0.00014U	0.00014U	0.00014U	0.00014U	0.00014U	Not Sampled	0.00014R	No Sample
Aldrin	---	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample
B-BHC	---	0.000059U	0.000059U	0.000059U	0.000059U	0.000059U	0.000059U	Not Sampled	0.000059R	No Sample
B-Endosulfan	---	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample
D-BHC	---	0.000087U	0.000087U	0.000087U	0.000087U	0.000087U	0.000087U	Not Sampled	0.000087R	No Sample
Dieldrin	---	0.000019U	0.000019U	0.000019U	0.000019U	0.000019U	0.000019U	Not Sampled	0.000019R	No Sample
Disulfoton	---	0.00067U	0.00069U	0.00069U	0.00069U	0.00069U	0.00069U	Not Sampled	0.00069R	No Sample
Endosulfan sulfate	---	0.00063U	0.00064U	0.00064U	0.00064U	0.00064U	0.00064U	Not Sampled	0.00064R	No Sample
Endrin	0.002(P)	0.000058U	0.000058U	0.000058U	0.000058U	0.000058U	0.000058U	Not Sampled	0.000058R	No Sample
Endrin Aldehyde	---	0.00022U	0.00022U	0.00022U	0.00022U	0.00022U	0.00022U	Not Sampled	0.00022R	No Sample
Ethyl Parathion	---	0.00058U	0.00058U	0.00058U	0.00058U	0.00058U	0.00058U	Not Sampled	0.00058R	No Sample
Famphur	---	0.0011U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012R	No Sample
G-BHC	---	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample
g-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049U	0.000049U	0.000049U	0.000049U	Not Sampled	0.000049R	No Sample
Heptachlor	0.0004(F)	0.000029U	0.000029U	0.000029U	0.000029U	0.000029U	0.000029U	Not Sampled	0.000029R	No Sample
Heptachlor Epoxide	0.0002(F)	0.00080U	0.00081U	0.00081U	0.00081U	0.00081U	0.00081U	Not Sampled	0.00081R	No Sample
KEPONE	---	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	0.0058U	Not Sampled	0.0058R	No Sample
Methoxychlor	0.04(F)	0.0017U	0.0017U	0.0017U	0.0017U	0.0017U	0.0017U	Not Sampled	0.0017R	No Sample
Methyl Parathion	---	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012R	No Sample
PCB-1016	0.0005(F)	0.00060U	0.0006U	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample
PCB-1221	0.0005(F)	0.00060U	0.0006U	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample
PCB-1232	0.0005(F)	0.00060U	0.0006U	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample
PCB-1242	0.0005(F)	0.00060U	0.0006U	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample
PCB-1248	0.0005(F)	0.00060U	0.0006U	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample
PCB-1254	0.0005(F)	0.0012U	0.0013U	0.00013BJ	0.00024BJ	0.0013U	0.0013U	Not Sampled	0.0013R	No Sample
PCB-1260	0.0005(F)	0.0012U	0.0013U	0.0013U	0.0013U	0.0013U	0.0013U	Not Sampled	0.0013R	No Sample
Phorate	---	0.00039U	0.00039U	0.00039U	0.00039U	0.00039U	0.00039U	Not Sampled	0.00039R	No Sample
PPDDD	---	0.00011U	0.00011U	0.00011U	0.00011U	0.00011U	0.00011U	Not Sampled	0.00011R	No Sample
PPDDE	---	0.000038U	0.000039U	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample
PPDDT	---	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	Not Sampled	0.00012R	No Sample
Toxaphene	0.003(F)	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	0.0023U	Not Sampled	0.0023R	No Sample

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12824	12825	13000	13001	13002	12826		12447	12448
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	07/02/91	07/02/91	09/18/91	09/18/91	09/18/91	06/15/91		07/06/91	07/06/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029U	0.000029U	0.000029R	0.000029R	0.000029R	0.000029U	Not Sampled	0.000029U	0.000029U
a-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049R	0.000049R	0.000049R	0.000049U	Not Sampled	0.000049U	0.000049U
A-Endosulfan	---	0.00014U	0.00014U	0.00014R	0.00014R	0.00014R	0.00014U	Not Sampled	0.00014U	0.00014U
Aldrin	---	0.000039U	0.000039U	0.000039R	0.000039R	0.000039R	0.000039U	Not Sampled	0.000039U	0.000039U
B-BHC	---	0.000059U	0.000059U	0.000059R	0.000059R	0.000059R	0.000059U	Not Sampled	0.000059U	0.000059U
B-Endosulfan	---	0.000039U	0.000039U	0.000039R	0.000039R	0.000039R	0.000039U	Not Sampled	0.000039U	0.000039U
D-BHC	---	0.000087U	0.000087U	0.000087R	0.000087R	0.000087R	0.000087U	Not Sampled	0.000087U	0.000087U
Dieldrin	---	0.000019U	0.000019U	0.000019R	0.000019R	0.000019R	0.000019U	Not Sampled	0.000019U	0.000019U
Disulfoton	---	0.00069U	0.00069U	0.00069R	0.00069R	0.00069R	0.00069U	Not Sampled	0.00069U	0.00069U
Endosulfan sulfate	---	0.00064U	0.00064U	0.00064R	0.00064R	0.00064R	0.00064U	Not Sampled	0.00064U	0.00064U
Endrin	0.002(P)	0.000058U	0.000058U	0.000058R	0.000058R	0.000058R	0.000058U	Not Sampled	0.000058U	0.000058U
Endrin Aldehyde	---	0.00022U	0.00022U	0.00012JR	0.00022R	0.00022R	0.00022U	Not Sampled	0.00022U	0.00022U
Ethyl Parathion	---	0.00058U	0.00058U	0.00058R	0.00058R	0.00058R	0.00058U	Not Sampled	0.00058U	0.00058U
Famphur	---	0.0012U	0.0012U	0.0012R	0.0012R	0.0012R	0.0012U	Not Sampled	0.0012U	0.0012U
G-BHC	---	0.000039U	0.000039U	0.000039R	0.000039R	0.000039R	0.000039U	Not Sampled	0.000039U	0.000039U
g-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049R	0.000049R	0.000049R	0.000049U	Not Sampled	0.000049U	0.000049U
Heptachlor	0.0004(F)	0.000029U	0.00004J	0.000029R	0.000029R	0.000029R	0.000029U	Not Sampled	0.000029U	0.000029U
Heptachlor Epoxide	0.0002(F)	0.00081U	0.00081U	0.00081R	0.00081R	0.00081R	0.00081U	Not Sampled	0.00081U	0.00081U
KEPONE	---	0.0058U	0.0058U	0.0058R	0.0058R	0.0058R	0.0058U	Not Sampled	0.0058U	0.0058U
Methoxychlor	0.04(F)	0.0017U	0.0017U	0.0017R	0.0017R	0.0017R	0.0017U	Not Sampled	0.0017U	0.0017U
Methyl Parathion	---	0.0012U	0.0012U	0.0012R	0.0012R	0.0012R	0.0012U	Not Sampled	0.0012U	0.0012U
PCB-1016	0.0005(F)	0.0006U	0.0006U	0.0006R	0.0006R	0.0006R	0.0006U	Not Sampled	0.0006U	0.0006U
PCB-1221	0.0005(F)	0.0006U	0.0006U	0.0006R	0.0006R	0.0006R	0.0006U	Not Sampled	0.0006U	0.0006U
PCB-1232	0.0005(F)	0.0006U	0.0006U	0.0006R	0.0006R	0.0006R	0.0006U	Not Sampled	0.0006U	0.0006U
PCB-1242	0.0005(F)	0.0006U	0.0006U	0.0006R	0.0006R	0.0006R	0.0006U	Not Sampled	0.0006U	0.0006U
PCB-1248	0.0005(F)	0.0006U	0.0006U	0.0006R	0.0006R	0.0006R	0.0006U	Not Sampled	0.0006U	0.0006U
PCB-1254	0.0005(F)	0.0013U	0.0013U	0.0013R	0.0013R	0.0013R	0.0013U	Not Sampled	0.0013U	0.0013U
PCB-1260	0.0005(F)	0.0013U	0.0013U	0.0013R	0.0013R	0.0013R	0.0013U	Not Sampled	0.0013U	0.0013U
Phorate	---	0.00039U	0.00039U	0.00039R	0.00039R	0.00039R	0.00039U	Not Sampled	0.00039U	0.00039U
PPDDD	---	0.00011U	0.00011U	0.00011R	0.00011R	0.00011R	0.00011U	Not Sampled	0.00011U	0.00011U
PPDDE	---	0.000039U	0.000039U	0.000039R	0.000039R	0.000039R	0.000039U	Not Sampled	0.000039U	0.000039U
PPDDT	---	0.00012U	0.00012U	0.00012R	0.00012R	0.00012R	0.00012U	Not Sampled	0.00012U	0.00012U
Toxaphene	0.003(F)	0.0023U	0.0023U	0.0023R	0.0023R	0.0023R	0.0023U	Not Sampled	0.0023U	0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12449		12872	12873		16382	16249		12450
	Date Sampled:	06/01/91		06/06/91	06/06/91		06/06/91	06/06/91		06/01/91
	Date Analyzed:	07/06/91		07/02/91	07/02/91		07/02/91	07/02/91		07/06/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029U	No Sample	0.000029U	0.000029U	Not Sampled	0.000029U	0.000029U	No Sample	0.000029U
a-CHLORDANE	0.002(F)	0.000049U	No Sample	0.000049U	0.000049U	Not Sampled	0.000049U	0.000049U	No Sample	0.000049U
A-Endosulfan	---	0.00014U	No Sample	0.00014U	0.00014U	Not Sampled	0.00014U	0.000021J	No Sample	0.00014U
Aldrin	---	0.000039U	No Sample	0.000039U	0.000039U	Not Sampled	0.000039U	0.000039U	No Sample	0.000039U
B-BHC	---	0.000059U	No Sample	0.000059U	0.000059U	Not Sampled	0.000059U	0.000059U	No Sample	0.000059U
B-Endosulfan	---	0.000039U	No Sample	0.000039U	0.000039U	Not Sampled	0.000039U	0.000039U	No Sample	0.000039U
D-BHC	---	0.000087U	No Sample	0.000087U	0.000087U	Not Sampled	0.000087U	0.000087U	No Sample	0.000087U
Dieldrin	---	0.000019U	No Sample	0.000019U	0.000019U	Not Sampled	0.000019U	0.000019U	No Sample	0.000019U
Disulfoton	---	0.00069U	No Sample	0.00069U	0.00069U	Not Sampled	0.00069U	0.00069U	No Sample	0.00069U
Endosulfan sulfate	---	0.00064U	No Sample	0.00064U	0.00064U	Not Sampled	0.00064U	0.00064U	No Sample	0.00064U
Endrin	0.002(P)	0.000058U	No Sample	0.000058U	0.000058U	Not Sampled	0.000058U	0.000058U	No Sample	0.000058U
Endrin Aldehyde	---	0.00022U	No Sample	0.00022U	0.00022U	Not Sampled	0.00022U	0.00022U	No Sample	0.00022U
Ethyl Parathion	---	0.00058U	No Sample	0.00058U	0.00058U	Not Sampled	0.00058U	0.00058U	No Sample	0.00058U
Famphur	---	0.0012U	No Sample	0.0012U	0.0012U	Not Sampled	0.0012U	0.0012U	No Sample	0.0012U
G-BHC	---	0.000039U	No Sample	0.000039U	0.000039U	Not Sampled	0.000039U	0.000039U	No Sample	0.000039U
g-CHLORDANE	0.002(F)	0.000049U	No Sample	0.000049U	0.000049U	Not Sampled	0.000049U	0.000049U	No Sample	0.000049U
Heptachlor	0.0004(F)	0.000029U	No Sample	0.000046J	0.000029U	Not Sampled	0.000029U	0.00014	No Sample	0.000029U
Heptachlor Epoxide	0.0002(F)	0.00081U	No Sample	0.00081U	0.00081U	Not Sampled	0.00081U	0.00081U	No Sample	0.00081U
KEPONE	---	0.0058U	No Sample	0.0058U	0.0058U	Not Sampled	0.0058U	0.0058U	No Sample	0.0058U
Methoxychlor	0.04(F)	0.0017U	No Sample	0.0017U	0.0017U	Not Sampled	0.0017U	0.0017U	No Sample	0.0017U
Methyl Parathion	---	0.0012U	No Sample	0.0012U	0.0012U	Not Sampled	0.0012U	0.0012U	No Sample	0.0012U
PCB-1016	0.0005(F)	0.0006U	No Sample	0.0006U	0.0006U	Not Sampled	0.0006U	0.0006U	No Sample	0.0006U
PCB-1221	0.0005(F)	0.0006U	No Sample	0.0006U	0.0006U	Not Sampled	0.0006U	0.0006U	No Sample	0.0006U
PCB-1232	0.0005(F)	0.0006U	No Sample	0.0006U	0.0006U	Not Sampled	0.0006U	0.0006U	No Sample	0.0006U
PCB-1242	0.0005(F)	0.0006U	No Sample	0.0006U	0.0006U	Not Sampled	0.0006U	0.0006U	No Sample	0.0006U
PCB-1248	0.0005(F)	0.0006U	No Sample	0.0006U	0.0006U	Not Sampled	0.0006U	0.0006U	No Sample	0.0006U
PCB-1254	0.0005(F)	0.0013U	No Sample	0.0013U	0.0013U	Not Sampled	0.0013U	0.0013U	No Sample	0.0013U
PCB-1260	0.0005(F)	0.0013U	No Sample	0.0013U	0.0013U	Not Sampled	0.0013U	0.0013U	No Sample	0.0013U
Phorate	---	0.00039U	No Sample	0.00039U	0.00039U	Not Sampled	0.00039U	0.00039U	No Sample	0.00039U
PPDDD	---	0.00011U	No Sample	0.00011U	0.00011U	Not Sampled	0.00011U	0.00011U	No Sample	0.00011U
PPDDE	---	0.000039U	No Sample	0.000039U	0.000039U	Not Sampled	0.000039U	0.000039U	No Sample	0.000039U
PPDDT	---	0.00012U	No Sample	0.00012U	0.00012U	Not Sampled	0.00012U	0.00012U	No Sample	0.00012U
Toxaphene	0.003(F)	0.0023U	No Sample	0.0023U	0.0023U	Not Sampled	0.0023U	0.0023U	No Sample	0.0023U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12451	12831	12832	12833		13003		13004	13005
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91		06/25/91	06/25/91
	Date Analyzed:	07/06/91	07/02/91	07/02/91	07/02/91		09/18/91		09/18/91	09/18/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029U	0.000029U	0.000029U	0.000029U	Not Sampled	0.000029R	No Sample	0.000029R	0.000029R
a-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049U	0.000049U	Not Sampled	0.000049R	No Sample	0.000049R	0.000049R
A-Endosulfan	---	0.00014U	0.00014U	0.00014U	0.00014U	Not Sampled	0.00014R	No Sample	0.00014R	0.00014R
Aldrin	---	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
B-BHC	---	0.000059U	0.000059U	0.000059U	0.000059U	Not Sampled	0.000059R	No Sample	0.000059R	0.000059R
B-Endosulfan	---	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
D-BHC	---	0.000087U	0.000087U	0.000087U	0.000087U	Not Sampled	0.000087R	No Sample	0.000087R	0.000087R
Dieldrin	---	0.000019U	0.000019U	0.000019U	0.000019U	Not Sampled	0.000019R	No Sample	0.000019R	0.000019R
Disulfoton	---	0.00069U	0.00069U	0.00069U	0.00069U	Not Sampled	0.00069R	No Sample	0.00069R	0.00069R
Endosulfan sulfate	---	0.00064U	0.00064U	0.00064U	0.00064U	Not Sampled	0.00064R	No Sample	0.00064R	0.00064R
Endrin	0.002(P)	0.000058U	0.000058U	0.000058U	0.000058U	Not Sampled	0.000058R	No Sample	0.000058R	0.000058R
Endrin Aldehyde	---	0.00022U	0.00022U	0.00022U	0.000076J	Not Sampled	0.00011JR	No Sample	0.000085JR	0.00022R
Ethyl Parathion	---	0.00058U	0.00058U	0.00058U	0.00058U	Not Sampled	0.00058R	No Sample	0.00058R	0.00058R
Famphur	---	0.0012U	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012R	No Sample	0.0012R	0.0012R
G-BHC	---	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
g-CHLORDANE	0.002(F)	0.000049U	0.000049U	0.000049U	0.000049U	Not Sampled	0.000049R	No Sample	0.000049R	0.000049R
Heptachlor	0.0004(F)	0.000029U	0.000029U	0.000076	0.000029U	Not Sampled	0.000029R	No Sample	0.000029R	0.000010JR
Heptachlor Epoxide	0.0002(F)	0.00081U	0.00081U	0.00081U	0.00081U	Not Sampled	0.00081R	No Sample	0.00081R	0.00081R
KEPONE	---	0.0058U	0.0058U	0.0058U	0.0058U	Not Sampled	0.0058R	No Sample	0.0058R	0.0058R
Methoxychlor	0.04(F)	0.0017U	0.0017U	0.0017U	0.0017U	Not Sampled	0.0017R	No Sample	0.0017R	0.0017R
Methyl Parathion	---	0.0012U	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012R	No Sample	0.0012R	0.0012R
PCB-1016	0.0005(F)	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1221	0.0005(F)	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1232	0.0005(F)	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1242	0.0005(F)	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1248	0.0005(F)	0.0006U	0.0006U	0.0006U	0.0006U	Not Sampled	0.0006R	No Sample	0.0006R	0.0006R
PCB-1254	0.0005(F)	0.0013U	0.000024J	0.00093J	0.0013U	Not Sampled	0.0013R	No Sample	0.0013R	0.0013R
PCB-1260	0.0005(F)	0.0013U	0.0013U	0.0013U	0.0013U	Not Sampled	0.0013R	No Sample	0.0013R	0.0013R
Phorate	---	0.00039U	0.00039U	0.00039U	0.00039U	Not Sampled	0.00039R	No Sample	0.00039R	0.00039R
PPDDD	---	0.00011U	0.00011U	0.00011U	0.00011U	Not Sampled	0.00011R	No Sample	0.00011R	0.00011R
PPDDE	---	0.000039U	0.000039U	0.000039U	0.000039U	Not Sampled	0.000039R	No Sample	0.000039R	0.000039R
PPDDT	---	0.00012U	0.00012U	0.00012U	0.00012U	Not Sampled	0.00012R	No Sample	0.00012R	0.00012R
Toxaphene	0.003(F)	0.0023U	0.0023U	0.0023U	0.0023U	Not Sampled	0.0023R	No Sample	0.0023R	0.0023R

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13006		13007	13008			16730		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	09/18/91		09/18/91	09/18/91			09/18/91		
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000029R	Not Sampled	0.000029R	0.000029R	Not Sampled	No Sample	0.000029R	Not Sampled	Not Sampled
a-CHLORDANE	0.002(F)	0.000049R	Not Sampled	0.000049R	0.000049R	Not Sampled	No Sample	0.000049R	Not Sampled	Not Sampled
A-Endosulfan	---	0.00014R	Not Sampled	0.00014R	0.00014R	Not Sampled	No Sample	0.00014R	Not Sampled	Not Sampled
Aldrin	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
B-BHC	---	0.000059R	Not Sampled	0.000059R	0.000059R	Not Sampled	No Sample	0.000059R	Not Sampled	Not Sampled
B-Endosulfan	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
D-BHC	---	0.000087R	Not Sampled	0.000087R	0.000087R	Not Sampled	No Sample	0.000087R	Not Sampled	Not Sampled
Dieldrin	---	0.000019R	Not Sampled	0.000019R	0.000019R	Not Sampled	No Sample	0.000019R	Not Sampled	Not Sampled
Disulfoton	---	0.00069R	Not Sampled	0.00069R	0.00069R	Not Sampled	No Sample	0.00069R	Not Sampled	Not Sampled
Endosulfan sulfate	---	0.00064R	Not Sampled	0.00064R	0.00064R	Not Sampled	No Sample	0.00064R	Not Sampled	Not Sampled
Endrin	0.002(P)	0.000058R	Not Sampled	0.000058R	0.000058R	Not Sampled	No Sample	0.000058R	Not Sampled	Not Sampled
Endrin Aldehyde	---	0.00022R	Not Sampled	0.000093JR	0.00022R	Not Sampled	No Sample	0.000092JR	Not Sampled	Not Sampled
Ethyl Parathion	---	0.00058R	Not Sampled	0.00058R	0.00058R	Not Sampled	No Sample	0.00058R	Not Sampled	Not Sampled
Famphur	---	0.0012R	Not Sampled	0.0012R	0.0012R	Not Sampled	No Sample	0.0012R	Not Sampled	Not Sampled
G-BHC	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
g-CHLORDANE	0.002(F)	0.000049R	Not Sampled	0.000049R	0.000049R	Not Sampled	No Sample	0.000049R	Not Sampled	Not Sampled
Heptachlor	0.0004(F)	0.000029R	Not Sampled	0.000029R	0.000029R	Not Sampled	No Sample	0.000029R	Not Sampled	Not Sampled
Heptachlor Epoxide	0.0002(F)	0.00081R	Not Sampled	0.00081R	0.00081R	Not Sampled	No Sample	0.00081R	Not Sampled	Not Sampled
KEPONE	---	0.0058R	Not Sampled	0.0058R	0.0058R	Not Sampled	No Sample	0.0058R	Not Sampled	Not Sampled
Methoxychlor	0.04(F)	0.0017R	Not Sampled	0.0017R	0.0017R	Not Sampled	No Sample	0.0017R	Not Sampled	Not Sampled
Methyl Parathion	---	0.0012R	Not Sampled	0.0012R	0.0012R	Not Sampled	No Sample	0.0012R	Not Sampled	Not Sampled
PCB-1016	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1221	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1232	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1242	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1248	0.0005(F)	0.0006R	Not Sampled	0.0006R	0.0006R	Not Sampled	No Sample	0.0006R	Not Sampled	Not Sampled
PCB-1254	0.0005(F)	0.0013R	Not Sampled	0.0013R	0.0013R	Not Sampled	No Sample	0.0013R	Not Sampled	Not Sampled
PCB-1260	0.0005(F)	0.0013R	Not Sampled	0.0013R	0.0013R	Not Sampled	No Sample	0.0013R	Not Sampled	Not Sampled
Phorate	---	0.00039R	Not Sampled	0.00039R	0.00039R	Not Sampled	No Sample	0.00039R	Not Sampled	Not Sampled
PPDDD	---	0.00011R	Not Sampled	0.00011R	0.00011R	Not Sampled	No Sample	0.00011R	Not Sampled	Not Sampled
PPDDE	---	0.000039R	Not Sampled	0.000039R	0.000039R	Not Sampled	No Sample	0.000039R	Not Sampled	Not Sampled
PPDDT	---	0.00012R	Not Sampled	0.00012R	0.00012R	Not Sampled	No Sample	0.00012R	Not Sampled	Not Sampled
Toxaphene	0.003(F)	0.0023R	Not Sampled	0.0023R	0.0023R	Not Sampled	No Sample	0.0023R	Not Sampled	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12452			13010
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		07/06/91			09/18/91
PESTICIDES/PCBs	MCL					
A-BHC	---	Not Sampled	0.000029U	Not Sampled	Not Sampled	0.000029R
a-CHLORDANE	0.002(F)	Not Sampled	0.000049U	Not Sampled	Not Sampled	0.000049R
A-Endosulfan	---	Not Sampled	0.00014U	Not Sampled	Not Sampled	0.00014R
Aldrin	---	Not Sampled	0.000039U	Not Sampled	Not Sampled	0.000039R
B-BHC	---	Not Sampled	0.000059U	Not Sampled	Not Sampled	0.000059R
B-Endosulfan	---	Not Sampled	0.000039U	Not Sampled	Not Sampled	0.000039R
D-BHC	---	Not Sampled	0.000087U	Not Sampled	Not Sampled	0.000087R
Dieldrin	---	Not Sampled	0.000019U	Not Sampled	Not Sampled	0.000019R
Disulfoton	---	Not Sampled	0.00069U	Not Sampled	Not Sampled	0.00069R
Endosulfan sulfate	---	Not Sampled	0.00064U	Not Sampled	Not Sampled	0.00064R
Endrin	0.002(P)	Not Sampled	0.000058U	Not Sampled	Not Sampled	0.000058R
Endrin Aldehyde	---	Not Sampled	0.00022U	Not Sampled	Not Sampled	0.00022R
Ethyl Parathion	---	Not Sampled	0.00058U	Not Sampled	Not Sampled	0.00058R
Famphur	---	Not Sampled	0.0012U	Not Sampled	Not Sampled	0.0012R
G-BHC	---	Not Sampled	0.000039U	Not Sampled	Not Sampled	0.000039R
g-CHLORDANE	0.002(F)	Not Sampled	0.000049U	Not Sampled	Not Sampled	0.000049R
Heptachlor	0.0004(F)	Not Sampled	0.000029U	Not Sampled	Not Sampled	0.000029R
Heptachlor Epoxide	0.0002(F)	Not Sampled	0.00081U	Not Sampled	Not Sampled	0.00081R
KEPONE	---	Not Sampled	0.0058U	Not Sampled	Not Sampled	0.0058R
Methoxychlor	0.04(F)	Not Sampled	0.0017U	Not Sampled	Not Sampled	0.0017R
Methyl Parathion	---	Not Sampled	0.0012U	Not Sampled	Not Sampled	0.0012R
PCB-1016	0.0005(F)	Not Sampled	0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1221	0.0005(F)	Not Sampled	0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1232	0.0005(F)	Not Sampled	0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1242	0.0005(F)	Not Sampled	0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1248	0.0005(F)	Not Sampled	0.0006U	Not Sampled	Not Sampled	0.0006R
PCB-1254	0.0005(F)	Not Sampled	0.0013U	Not Sampled	Not Sampled	0.0013R
PCB-1260	0.0005(F)	Not Sampled	0.0013U	Not Sampled	Not Sampled	0.0013R
Phorate	---	Not Sampled	0.00039U	Not Sampled	Not Sampled	0.00039R
PPDDD	---	Not Sampled	0.00011U	Not Sampled	Not Sampled	0.00011R
PPDDE	---	Not Sampled	0.000039U	Not Sampled	Not Sampled	0.000039R
PPDDT	---	Not Sampled	0.00012U	Not Sampled	Not Sampled	0.00012R
Toxaphene	0.003(F)	Not Sampled	0.0023U	Not Sampled	Not Sampled	0.0023R

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	FB4	R1	R2	R3	R4	02-01	02-02	02-03
	Lab Sample No:	12382	13042	12500	12501	12863	13043		13027	13028
	Date Sampled:	05/30/91	06/25/91	06/01/91	06/02/91	06/06/91	06/25/91		06/25/91	06/25/91
	Date Analyzed:	06/10/91	06/28/91	06/10/91	06/10/91	06/19/91	06/28/91		06/28/91	06/28/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0037BJ	0.0056BJ	0.015BJ	0.018BJ	0.054BJ	0.024BJ	Not Sampled	0.10U	0.10U
Benzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.0021J	0.0024J	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.022	0.021	0.0017J	0.005U	Not Sampled	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0026BJ	0.0020BJ	0.0069B	0.0049BJ	0.0015BJ	0.00082BJ	Not Sampled	0.0087B	0.018B
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.001J	0.005U	Not Sampled	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.010J	0.010J	0.0056BJ	0.10U	Not Sampled	0.10U	0.10U
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02-04	02-05	02-06	02-07	02-08	02C09	02C09P2	02C10	02C10P2
	Lab Sample No:	12850	12851	13029	13030	13031	12852		12485	12486
	Date Sampled:	06/06/91	06/06/91	06/25/91	06/25/91	06/25/91	06/05/91		06/01/91	06/01/91
	Date Analyzed:	06/19/91	06/19/91	06/28/91	06/28/91	06/28/91	06/19/91		06/10/91	06/10/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.011J	0.007J	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.0087BJ	0.0025BJ
Benzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0011BJ	0.0013BJ	0.00408J	0.0032BJ	0.0018B	0.0008BJ	Not Sampled	0.0025BJ	0.0020BJ
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2	02C12P3	02C13	02C13P2
	Lab Sample No:	12487	12853	12854	12855		12856	12857	12488	12489
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/05/91	06/05/91	06/01/91	06/01/91
	Date Analyzed:	06/10/91	06/19/91	06/19/91	06/19/91		06/19/91	06/19/91	06/10/91	06/10/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0039BJ	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.0020BJ	0.0017BJ
Benzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.001J	0.001J
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0049BJ	0.0005BJ	0.0005BJ	0.0028BJ	Not Sampled	0.0011BJ	0.0004BJ	0.0061B	0.0079B
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2	02C16	02C16P2	02C17
	Lab Sample No:	12490	12858	12859	12860		13032	13033	13034	13035
	Date Sampled:	06/01/91	06/06/91	06/06/91	06/06/91		06/25/91	06/25/91	06/25/91	06/25/91
	Date Analyzed:	06/10/91	06/19/91	06/19/91	06/19/91		06/28/91	06/28/91	06/28/91	06/28/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0071BJ	0.10U	0.10U	0.0095BJ	Not Sampled	0.10U	0.042BJ	0.10U	0.0086BJ
Benzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.0011J	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Methylene Chloride	0.005(P)	0.0075B	0.0050B	0.0042BJ	0.0045BJ	Not Sampled	0.0019BJ	0.0042B	0.0026BJ	0.0013BJ
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19	02C19P2	02C19P3	02C20
	Lab Sample No:	13036		13037	13038			13040		
	Date Sampled:	06/25/91		06/25/91	06/25/91			06/25/91		
	Date Analyzed:	06/28/91		06/28/91	06/28/91			06/28/91		
VOLATILE ORGANICS	MCL									
Acetone	---	0.0088BJ	Not Sampled	0.0054BJ	0.0055BJ	Not Sampled	No Sample	0.0032BJ	Not Sampled	Not Sampled
Benzene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Bromodichloromethane	0.1(L)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Bromoform	0.1(L)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Bromomethane	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Carbon Tetrachloride	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Carbondisulfide	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Chlorobenzene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Chloroethane	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
Chloroform	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Chloromethane	---	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
cis-1,2-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
cis-1,3-Dichloropropene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Dibromochloromethane	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Ethylbenzene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Methylene Chloride	0.005(P)	0.0027BJ	Not Sampled	0.0094B	0.0052B	Not Sampled	No Sample	0.0025BJ	Not Sampled	Not Sampled
Styrene	0.1(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Tetrachloroethene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Toluene	1(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Trans-1,2-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Trans-1,3-Dichloropropene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Trichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
T-Xylene	10(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Vinyl Acetate	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
Vinyl Chloride	0.002(F)	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	No Sample	0.010U	Not Sampled	Not Sampled
1,1-Dichloroethane	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,1-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,1,1-Trichloroethane	0.2(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,1,2-Trichloroethane	0.005(P)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,1,2,2-Tetrachloroethane	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,2-Dichloroethane	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
1,2-Dichloropropane	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
2-Butanone	---	0.10U	Not Sampled	0.10U	0.10U	Not Sampled	No Sample	0.10U	Not Sampled	Not Sampled
2-Hexanone	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled
4-Methyl-2-Pentanone	---	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	No Sample	0.005U	Not Sampled	Not Sampled

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 2 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		12491			13041
	Date Sampled:		06/01/91			06/25/91
	Date Analyzed:		06/10/91			06/28/91
VOLATILE ORGANICS	MCL					
Acetone	---	Not Sampled	0.0077BJ	Not Sampled	Not Sampled	0.0024BJ
Benzene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Bromodichloromethane	0.1(L)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Bromoform	0.1(L)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Bromomethane	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Carbon Tetrachloride	0.005(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Carbondisulfide	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Chlorobenzene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Chloroethane	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
Chloroform	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Chloromethane	---	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
cis-1,2-Dichloroethane	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
cis-1,3-Dichloropropene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Dibromochloromethane	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Ethylbenzene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Methylene Chloride	0.005(P)	Not Sampled	0.0064B	Not Sampled	Not Sampled	0.0015BJ
Styrene	0.1(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Tetrachloroethene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Toluene	1(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Trans-1,2-Dichloroethene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Trans-1,3-Dichloropropene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Trichloroethene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
T-Xylene	10(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Vinyl Acetate	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
Vinyl Chloride	0.002(F)	Not Sampled	0.010U	Not Sampled	Not Sampled	0.010U
1,1-Dichloroethane	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,1-Dichloroethene	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,1,1-Trichloroethane	0.2(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,1,2-Trichloroethane	0.005(P)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,1,2,2-Tetrachloroethane	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,2-Dichloroethane	0.005(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
1,2-Dichloropropane	0.005(F)	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
2-Butanone	---	Not Sampled	0.10U	Not Sampled	Not Sampled	0.10U
2-Hexanone	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U
4-Methyl-2-Pentanone	---	Not Sampled	0.005U	Not Sampled	Not Sampled	0.005U

Round 3

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16230	16354		16355	16356	16231	16357	16358	16359
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	11/25/91		11/25/91	11/25/91	11/26/91	11/25/91	11/25/91	11/25/91
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Aniline	---	<0.020U	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
Anthracene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzidine	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	<0.010U	0.0013BJ	No Sample	0.0025BJ	0.0029BJ	0.016B	0.0007BJ	<0.010U	0.0016BJ
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dimethyl Phthalate	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	<0.010U	No Sample	<0.010U	0.0008J	<0.010U	<0.010U	<0.010U	<0.010U
Fluoranthene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Fluorene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Isophorone	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Naphthalene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Phenanthrene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16230	16354		16355	16356	16231	16357	16358	16359
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	11/25/91		11/25/91	11/25/91	11/26/91	11/25/91	11/25/91	11/25/91
BNA	MCL									
Phenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Pyrene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	<0.020U	No Sample	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	<0.010U	No Sample	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	<0.050U	No Sample	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16232		16233	16234	16235	16360	16361	16362	16363
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	11/27/91	11/27/91	11/27/91	11/27/91
BNA	MCL									
Acenaphthene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Acenaphthylene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Aniline	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
Anthracene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzidine	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Benzoic Acid	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Benzo(a)Anthracene	0.0001(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(a)Pyrene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(G,H,I)Perylene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Benzyl Alcohol	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
Bis(2-Chloroethoxy)Methane	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroethyl)Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Chloroisopropyl)Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0014BJ	Not Sampled	0.0032BJ	0.0075BJ	0.0017BJ	0.013B	0.0029BJ	0.0032BJ	<0.010U
Butylbenzylphthalate	0.1(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chrysene	0.0002(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzofuran	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dibutylphthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Diethyl Phthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Dimethyl Phthalate	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Di-N-Octylphthalate	---	<0.010U	Not Sampled	0.0013J	<0.010U	<0.010U	<0.010U	0.0009J	0.0009J	<0.010U
Fluoranthene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Fluorene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobenzene	0.001(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorobutadiene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachlorocyclopentadiene	0.05(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Hexachloroethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Isophorone	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Naphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Nitrobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodimethylamine	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitroso-Di-N-Propylamine	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
N-Nitrosodiphenyl Amine	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Pentachlorophenol	0.001(F)	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Phenanthrene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16232		16233	16234	16235	16360	16361	16362	16363
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	11/27/91	11/27/91	11/27/91	11/27/91
BNA	MCL									
Phenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Pyrene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Dichlorobenzene	0.6(L)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2-Diphenylhydrazine	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,3-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,4-Dichlorobenzene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Chloronaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Chlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Methyl-4,6-Dinotrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2-Methylnaphthalene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2-Nitrophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dimethylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4-Dinitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
2,4-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4,5-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,4,6-Trichlorophenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
2,6-Dinitrotoluene	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
3-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
3,3'Dichlorobenzidine	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Bromophenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Chloro-3-Methylphenol	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Chloroaniline	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
4-Chlorophenyl Phenyl Ether	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Methylphenol	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
4-Nitroaniline	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
4-Nitrophenol	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16364	16236	16237	16238	16239	16365	16366	16367	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/27/91	11/26/91	11/25/91	11/25/91	11/25/91	11/27/91	11/27/91	11/27/91	
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Acenaphthylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Aniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled
Anthracene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzidine	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
Benzoic Acid	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	0.002J	<0.050U	<0.050U	Not Sampled
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Benzyl Alcohol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0018BJ	0.0026BJ	0.029B	0.15B	0.0029BJ	0.0085BJ	0.033B	0.0012BJ	Not Sampled
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Chrysene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Dibenzofuran	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Dibutylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Diethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Dimethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Di-N-Octylphthalate	---	0.0017J	<0.010U	<0.010U	0.0018J	0.0011J	0.0025J	<0.010U	<0.010U	Not Sampled
Fluoranthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Fluorene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Hexachlorobutadiene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Hexachloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Isophorone	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Naphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Nitrobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
N-Nitrosodimethylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
Phenanthrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C12P2 16364 11/14/91 11/27/91	02C12P3 16236 11/14/91 11/26/91	02C13 16237 11/13/91 11/25/91	02C13P2 16238 11/13/91 11/25/91	02C13P3 16239 11/13/91 11/25/91	02C14 16365 11/14/91 11/27/91	02C14P2 16366 11/14/91 11/27/91	02C14P3 16367 11/14/91 11/27/91	02C15
BNA	MCL									
Phenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Pyrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,3-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,4-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2-Chloronaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2-Chlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
2-Methylnaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
2-Nitrophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,4-Dichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,4-Dimethylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,4-Dinitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
2,4-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
2,6-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
3-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled
4-Bromophenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled
4-Chloroaniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
4-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
4-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
4-Nitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16369	16370	16371	16709	16710		16712	16713	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/02/91	12/02/91	12/02/91	12/03/91	12/03/91		12/04/91	12/04/91	
BNA	MCL									
Acenaphthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Acenaphthylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Aniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled
Anthracene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzidine	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
Benzoic Acid	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
Benzo(a)Anthracene	0.0001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzo(a)Pyrene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzo(G,H,I)Perylene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Benzyl Alcohol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled
Bis(2-Chloroethoxy)Methane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Bis(2-Chloroethyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0014J	0.0048J	0.0013J	0.0032J	0.0018BJ	Not Sampled	0.0021BJ	0.0024BJ	Not Sampled
Butylbenzylphthalate	0.1(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Chrysene	0.0002(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Dibenzofuran	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Dibutylphthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Diethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Dimethyl Phthalate	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Di-N-Octylphthalate	---	<0.010U	0.0010J	<0.010U	0.0010J	<0.010U	Not Sampled	0.0010J	<0.010U	Not Sampled
Fluoranthene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Fluorene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Hexachlorobenzene	0.001(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Hexachlorobutadiene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Hexachloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Isophorone	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Naphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Nitrobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
N-Nitrosodimethylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
N-Nitroso-Di-N-Propylamine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
N-Nitrosodiphenyl Amine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Pentachlorophenol	0.001(F)	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
Phenanthrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16369	16370	16371	16709	16710		16712	16713	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/02/91	12/02/91	12/02/91	12/03/91	12/03/91		12/04/91	12/04/91	
BNA	MCL									
Phenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Pyrene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,2-Dichlorobenzene	0.6(L)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,2-Diphenylhydrazine	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,3-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,4-Dichlorobenzene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2-Chloronaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2-Chlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
2-Methylnaphthalene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
2-Nitrophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,4-Dichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,4-Dimethylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,4-Dinitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
2,4-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,4,5-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,4,6-Trichlorophenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
2,6-Dinitrotoluene	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
3-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
3,3'Dichlorobenzidine	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled
4-Bromophenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
4-Chloro-3-Methylphenol	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled
4-Chloroaniline	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled
4-Chlorophenyl Phenyl Ether	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
4-Methylphenol	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
4-Nitroaniline	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
4-Nitrophenol	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16714		16240	16241	16242			16715
	Date Sampled:		11/16/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/04/91		11/26/91	11/26/91	11/26/91			12/04/91
BNA	MCL									
Acenaphthene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Acenaphthylene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Aniline	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
Anthracene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzidine	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
Benzoic Acid	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(G,H,I)Perylene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Benzyl Alcohol	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0026BJ	Not Sampled	0.0060BJ	0.0093BJ	<0.010U	Not Sampled	Not Sampled	0.0069BJ
Butylbenzylphthalate	0.1(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Chrysene	0.0002(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibenzofuran	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Dibutylphthalate	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Diethyl Phthalate	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Dimethyl Phthalate	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Di-N-Octylphthalate	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	0.0017J	Not Sampled	Not Sampled	<0.010U
Fluoranthene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Fluorene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorobenzene	0.001(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorobutadiene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Hexachloroethane	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Isophorone	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Naphthalene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Nitrobenzene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitrosodimethylamine	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
N-Nitrosodiphenyl Amine	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Pentachlorophenol	0.001(F)	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
Phenanthrene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16714		16240	16241	16242			16715
	Date Sampled:		11/16/91		11/13/91	11/13/91	11/13/91			11/16/91
	Date Analyzed:		12/04/91		11/26/91	11/26/91	11/26/91			12/04/91
BNA	MCL									
Phenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Pyrene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2-Diphenylhydrazine	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,3-Dichlorobenzene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,4-Dichlorobenzene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Chloronaphthalene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Chlorophenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
2-Methylnaphthalene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Methylphenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2-Nitroaniline	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
2-Nitrophenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dichlorophenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dimethylphenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4-Dinitrophenol	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
2,4-Dinitrotoluene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4,5-Trichlorophenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,4,6-Trichlorophenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
2,6-Dinitrotoluene	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
3-Nitroaniline	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
3,3'Dichlorobenzidine	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Bromophenyl Ether	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Chloro-3-Methylphenol	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Chloroaniline	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Methylphenol	---	No Sample	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
4-Nitroaniline	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
4-Nitrophenol	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16217	16335	16353	16336	16337	16218	16338	16339	16340
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/15/91	11/16/91	11/18/91	11/16/91	11/16/91	11/15/91	11/16/91	11/16/91	11/16/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
2,6-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16219		16220	16221	16222	16341	16342	16343	16344
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/15/91		11/15/91	11/15/91	11/15/91	11/16/91	11/16/91	11/16/91	11/16/91
EXPLOSIVES	MCL									
DNB	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
HMX	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
RDX	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
TETRYL	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
TNB	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
TNT	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
2,4-DNT	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U
2,6-DNT	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15	
	Lab Sample No:	16345	16223	16224	16225	16226	16346	16347	16348		
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91		
	Date Analyzed:	11/18/91	11/15/91	11/15/91	11/15/91	11/15/91	11/18/91	11/18/91	11/18/91		
EXPLOSIVES	MCL										
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	ED
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED
2,6-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	ED

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3	
	Lab Sample No:	16350	16351	16352	16693	16694		16696	16697		
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91		
	Date Analyzed:	11/18/91	11/18/91	11/18/91	11/19/91	11/19/91		11/19/91	11/19/91		
EXPLOSIVES	MCL										
DNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
HMX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
RDX	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
TETRYL	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	ED
TNB	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
TNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
2,4-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED
2,6-DNT	---	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	Not Sampled	<0.020U	<0.020U	Not Sampled	ED

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16698		16227	16228	16229			16699
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		11/19/91		11/15/91	11/15/91	11/15/91			11/19/91
EXPLOSIVES	MCL									
DNB	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
HMX	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
RDX	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
TETRYL	---	No Sample	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
TNB	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
TNT	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
2,4-DNT	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U
2,6-DNT	---	No Sample	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	Not Sampled	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16256	16389		16390	16391	16257	16392	16393	16394
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	12/31/91	12/31/91		12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	<0.012U	No Sample	<0.012U	<0.012U	<0.012U	<0.014U	<0.012U	<0.012U
2,4,5-T	---	<0.0020U	<0.0020U	No Sample	<0.0020U	<0.0020U	<0.0020U	<0.0023U	<0.0020U	<0.0020U
2,4,5-TP	0.05(F)	<0.0017U	<0.00050J	No Sample	<0.0017U	0.00065J	<0.0017U	<0.0020U	<0.0017U	0.00052J
Dinoseb	0.007(P)	<0.00070U	<0.00070U	No Sample	<0.00070U	<0.00070U	<0.00070U	<0.00080U	<0.00070U	<0.00070U

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16282	16426	16445	16427	16428	16283	16429	16430	16431
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	<0.020U	0.162	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	0.249	<0.020U

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16258		16259	16260	16261	16395	16396	16397	16398
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	12/31/91		12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.012U	Not Sampled	<0.012U	<0.012U	<0.012U	<0.016U	<0.012U	<0.012U	<0.013U
2,4,5-T	---	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	<0.0027U	<0.0020U	<0.0020U	<0.0022U
2,4,5-TP	0.05(F)	<0.0017U	Not Sampled	<0.0017U	<0.0017U	<0.0017U	0.00077J	0.00051J	<0.0017U	<0.0019U
Dinoseb	0.007(P)	<0.00070U	Not Sampled	<0.00070U	<0.00070U	<0.00070U	0.00096U	<0.00070U	<0.00070U	<0.00078U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16284		16285	16286	16287	16432	16433	16434	16435
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Anal. (Cn):	11/21/91		11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91
	Date Anal. (S):	11/19/91		11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Sulfide	---	<0.020U	Not Sampled	<0.020U	<0.020U	<0.020U	<0.020U	<0.020U	0.023	<0.020U

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16399	16262	16263	16264	16265	16400	16401	16402	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.017U	<0.012U	<0.012U	<0.012U	<0.012U	<0.012U	<0.012U	<0.012U	Not Sampled
2,4,5-T	---	<0.0028U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0019U	<0.0020U	<0.0020U	Not Sampled
2,4,5-TP	0.05(F)	<0.0024U	<0.0017U	<0.0017U	<0.0017U	<0.0017U	0.00034J	<0.0017U	<0.0017U	Not Sampled
Dinoseb	0.007(P)	<0.00099U	<0.00070U	<0.00070U	<0.00070U	<0.00070U	<0.00068U	<0.00070U	<0.00070U	Not Sampled

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16436	16288	16289	16290	16291	16438	16439	16440	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Sulfide	---	<0.020U	<0.020U	<0.020U	0.054	<0.020U	0.028	<0.020U	<0.020U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16404		16405	16741	16742		16744	16745	
	Date Sampled:	11/15/91		11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/31/91		12/31/91	12/31/91	12/31/91		12/31/91	12/31/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	<0.014U	No Sample	<0.013U	<0.012U	<0.012U	Not Sampled	<0.013U	<0.013U	Not Sampled
2,4,5-T	---	<0.0023U	No Sample	<0.0021U	<0.0020U	<0.0020U	Not Sampled	<0.0022U	<0.0022U	Not Sampled
2,4,5-TP	0.05(F)	0.00062J	No Sample	<0.0018U	<0.0017U	<0.0017U	Not Sampled	<0.0019U	<0.0019U	Not Sampled
Dinoseb	0.007(P)	<0.00081U	No Sample	<0.00074U	<0.00070U	<0.00070U	Not Sampled	<0.00079U	<0.00077U	Not Sampled

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16442	16443	16444	16775	16776		16778	16779	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91		11/21/91	11/21/91	
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91		11/19/91	11/19/91	
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Sulfide	---	<0.020U	0.041	<0.020U	0.070	<0.020U	Not Sampled	0.093	<0.020U	Not Sampled

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:				16266	16267	16268			16747
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/31/91		12/31/91	12/31/91	12/31/91			12/31/91
HERBICIDES	MCL									
2,4-D	0.07	Not Sampled	<0.013U	Not Sampled	<0.012U	<0.012U	<0.012U	Not Sampled	Not Sampled	<0.013U
2,4,5-T	---	Not Sampled	<0.0022U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	Not Sampled	Not Sampled	<0.0020U
2,4,5-TP	0.05	Not Sampled	0.00038J	Not Sampled	<0.0017U	<0.0017U	<0.0017U	Not Sampled	Not Sampled	<0.0017U
Dinoseb	0.007(P)	Not Sampled	<0.00070U	Not Sampled	<0.00070U	<0.00070U	<0.00068U	Not Sampled	Not Sampled	<0.00070U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16783	16784		16292	16293	16294			16781
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Anal. (Cn):	11/21/91	11/21/91		11/21/91	11/21/91	11/21/91			11/21/91
	Date Anal. (S):	11/19/91	11/19/91		11/19/91	11/19/91	11/19/91			11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Sulfide	---	0.083	0.148	Not Sampled	<0.020U	<0.020U	0.040	Not Sampled	Not Sampled	0.030

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16269	16406	16425	16407	16408	16270	16409	16410	16411
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	12/07/91	12/07/91	12/07/91	12/07/91	11/26/91	12/07/91	12/07/91	12/07/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	<0.010U	<0.010U	1.14	<0.010U	0.614	<0.010U	<0.010U
Antimony	0.01(P)	0.0159B	<0.0030U	0.0194B	0.0128B	0.0113B	0.0120BW	0.0133B	0.0136B	0.0152B
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Barium	2.0(F)	<0.010U	0.017BN	0.043BN	0.042BN	0.019BN	0.015	0.011BN	0.014BN	0.016BN
Beryllium	0.001(P)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	0.002B	<0.0010U	<0.0010U
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U
Calcium	---	0.158B	237	410	179	407	605	549	410	521
Chromium	0.1(F)	0.005BN	<0.005U	<0.005U	<0.005U	<0.005U	0.005BN	<0.005U	<0.005U	<0.005U
Cobalt	---	<0.010U	0.040B	0.034B	0.013B	0.272	0.033B	0.697	0.042B	0.043B
Copper	1.3(F)	0.020B	<0.005U	0.044	0.041	<0.005U	0.033	0.032	0.036	0.039
Iron	---	<0.010U	<0.010U	0.043B	<0.010U	0.165	0.443	17.6	0.038B	<0.010U
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Magnesium	---	<0.200U	126	122	56.3	140	220	384	165	201
Manganese	---	0.007B	0.025	0.757	0.024	3.53	6.29	13.0	0.034	0.013B
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002	<0.0002	<0.0002
Nickel	0.1(P)	<0.005U	0.007B	0.023	<0.005U	0.955	0.038B	1.85	0.012B	0.043
Potassium	---	<1.00U	3.36B	5.48	4.77B	6.54	8.75	8.31	4.14B	4.91B
Selenium	0.05(F)	<0.0020U	0.009	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	0.0030B	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010UW	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Sodium	---	0.215B	213	37.2	17.2	42.6	57.8	77.0	55.1	62.5
Thallium	0.002(P)	<0.0020U	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vanadium	---	<0.010U	<0.010U	<0.010U	0.011B	<0.010U	<0.010	<0.010U	<0.010U	<0.010U
Zinc	---	<0.005U	<0.005U	<0.005U	<0.005U	0.484	0.015B	1.61	0.005B	0.062

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16271		16272	16273	16274	16412	16413	16414	16415
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	12/07/91	12/07/91	12/07/91	12/09/91
METALS	MCL									
Aluminum	---	<0.010U	Not Sampled	<0.010U	<0.010U	0.019B	<0.010U	<0.010U	25.6	0.023B
Antimony	0.01(P)	0.0130B	Not Sampled	0.0192BW	0.0123B	0.0131B	0.0257B	0.0161B	0.0127B	0.0311B
Arsenic	0.05(F)	<0.0020U	Not Sampled	0.0030B	<0.0020U	<0.0020U	0.0043B	<0.0020U	<0.0020U	0.0217
Barium	2.0(F)	0.012B	Not Sampled	<0.010U	0.022B	<0.010U	0.017BN	0.040BN	<0.010UN	0.028BN
Beryllium	0.001(P)	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	0.005	<0.0010U
Cadmium	0.005(F)	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	0.005	<0.004U
Calcium	---	60.5	Not Sampled	84.5	135	16.9	8.67	182	214	4.32
Chromium	0.1(F)	<0.005UN	Not Sampled	<0.005UN	<0.005UN	<0.005UN	<0.005U	<0.005U	<0.005U	0.011
Cobalt	---	0.022B	Not Sampled	0.031B	0.011B	0.018B	0.029B	0.046B	0.462	0.029B
Copper	1.3(F)	<0.005U	Not Sampled	0.033	0.016B	0.025	0.038	0.025	0.031	0.029
Iron	---	<0.010U	Not Sampled	<0.010U	<0.010U	0.347	<0.010U	<0.010U	5.62	<0.010U
Lead	0.015(F)	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	0.0043	0.0042
Magnesium	---	47.8	Not Sampled	64.1	68.6	14.2	13.5	52.0	93.7	0.114B
Manganese	---	0.005B	Not Sampled	0.027	0.297	0.721	0.011B	0.253	1.85	<0.005U
Mercury	0.002(F)	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	0.1(P)	<0.005U	Not Sampled	0.008B	<0.005U	0.008B	<0.005U	0.156	0.985	<0.005U
Potassium	---	4.31B	Not Sampled	9.37	6.31	1.17B	48.8	4.33B	5.90	650
Selenium	0.05(F)	0.0022B	Not Sampled	0.0032BW	<0.0020U	<0.0020U	0.0026B	<0.0020U	<0.0020U	0.0086
Silver	---	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	<0.0010UW	<0.0010U	<0.0010U	<0.0010U
Sodium	---	57.4	Not Sampled	256	21.2	29.0	155	36.1	48.7	247
Thallium	0.002(P)	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020U	<0.0020UW	<0.0020UW
Tin	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vanadium	---	<0.010	Not Sampled	<0.010	<0.010	<0.010U	<0.010U	<0.010U	0.010B	0.011B
Zinc	---	<0.005U	Not Sampled	<0.005U	<0.005U	0.030	<0.005U	0.193	1.61	<0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16416	16275	16276	16277	16278	16418	16419	16420	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/09/91	11/26/91	11/26/91	11/26/91	11/26/91	12/09/91	12/09/91	12/09/91	
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	0.768	Not Sampled
Antimony	0.01(P)	0.0184B	0.0065B	0.0198B	0.0138B	0.0166B	0.0211B	0.0161B	0.0221B	Not Sampled
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	0.0047B	<0.0020U	<0.0020U	Not Sampled
Barium	2.0(F)	0.053BN	<0.010U	0.013B	<0.010U	0.015B	0.038BN	0.079BN	0.012BN	Not Sampled
Beryllium	0.001(P)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	Not Sampled
Calcium	---	142	303	29.4	250	19.6	46.9	266	261	Not Sampled
Chromium	0.1(F)	<0.005U	<0.005U	0.005B	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Cobalt	---	0.027B	0.036	0.018B	0.043B	0.028B	0.020B	0.018B	0.167	Not Sampled
Copper	1.3(F)	0.034	<0.005U	0.043	0.013B	0.026	0.059	0.031	0.056	Not Sampled
Iron	---	<0.010U	0.179	<0.010U	0.843	8.22	<0.010U	<0.010U	3.31	Not Sampled
Lead	0.015(F)	<0.001U	<0.0010U	0.0016B	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled
Magnesium	---	0.353B	241	32.9	154	15.3	47.8	0.290B	93.8	Not Sampled
Manganese	---	0.009B	2.03	0.013B	1.71	0.846	0.010B	0.007B	2.38	Not Sampled
Mercury	0.002(F)	<0.0002	<0.0002	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled
Nickel	0.1(P)	<0.005U	0.014B	<0.005U	0.043	0.011B	<0.005U	<0.005U	0.524	Not Sampled
Potassium	---	11.4	14.9	10.1	7.88	1.34B	17.0	7.24	4.64B	Not Sampled
Selenium	0.05(F)	0.0086	<0.0020U	0.058	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010UW	<0.0010UW	<0.0010U	Not Sampled
Sodium	---	88.6	129	34.4	65.5	34.8	57.3	19.6	34.3	Not Sampled
Thallium	0.002(P)	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020U	<0.0020UW	<0.0020UW	Not Sampled
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled
Vanadium	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	0.013B	<0.010U	Not Sampled
Zinc	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.109	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16422	16423	16424	16757	16758		16760	16761	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/09/91	12/07/91	12/09/91	12/14/91	12/15/91		12/15/91	12/15/91	
METALS	MCL									
Aluminum	---	0.087B	<0.010U	0.675	<0.0010U	0.318B	Not Sampled	<0.010U	<0.010U	Not Sampled
Antimony	0.01(P)	0.0148B	0.0174B	0.0055B	0.0180B	0.0138B	Not Sampled	0.0133B	0.0045B	Not Sampled
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	Not Sampled
Barium	2.0(F)	0.022BN	0.032BN	<0.010UN	0.037B	0.010B	Not Sampled	0.017B	0.011B	Not Sampled
Beryllium	0.001(P)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	Not Sampled
Cadmium	0.005(F)	<0.004U	<0.004U	<0.004U	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	Not Sampled
Calcium	---	144	17.7	58.3	76.2	549	Not Sampled	82.8	396	Not Sampled
Chromium	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Cobalt	---	0.072	0.032	0.046B	0.020B	0.100	Not Sampled	0.024B	0.040B	Not Sampled
Copper	1.3(F)	0.027	0.036	<0.005U	0.028	<0.005U	Not Sampled	0.039	<0.005U	Not Sampled
Iron	---	2.79	0.013	0.274	<0.010UN	0.345N	Not Sampled	<0.010UN	5.60	Not Sampled
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010UW	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	Not Sampled
Magnesium	---	31.1	31.5	26.0	34.0	216	Not Sampled	30.5	120	Not Sampled
Manganese	---	0.815	0.014	0.436	0.025	0.911	Not Sampled	0.051	1.51	Not Sampled
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	Not Sampled
Nickel	0.1(P)	0.098	<0.005U	0.231	<0.005U	0.176	Not Sampled	0.005B	0.067	Not Sampled
Potassium	---	6.52B	41.2	4.59B	8.96	8.81	Not Sampled	7.53	8.52	Not Sampled
Selenium	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	0.0022	Not Sampled	0.0030B	<0.0020U	Not Sampled
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	Not Sampled
Sodium	---	26.6	64.2	20.7	57.5	81.8	Not Sampled	106	53.8	Not Sampled
Thallium	0.002(P)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	Not Sampled
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled
Vanadium	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Zinc	---	0.185	<0.005U	0.042	0.007B	0.266	Not Sampled	<0.005U	0.006B	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16785	16782		16279	16280	16281			16783
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:	12/15/91	12/15/91		11/26/91	11/26/91	11/26/91			12/15/91
METALS	MCL									
Aluminum	---	<0.010U	<0.010U	Not Sampled	0.064B	<0.010U	<0.010U	Not Sampled	Not Sampled	2.14
Antimony	0.01(P)	0.0178B	0.0127B	Not Sampled	0.0166B	0.0201B	0.0128B	Not Sampled	Not Sampled	0.0130B
Arsenic	0.05(F)	<0.0020U	<0.0020U	Not Sampled	0.0020B	<0.0020U	<0.0020U	Not Sampled	Not Sampled	<0.0020U
Barium	2.0(F)	0.011B	<0.010U	Not Sampled	0.014B	0.022B	<0.010U	Not Sampled	Not Sampled	<0.010U
Beryllium	0.001(P)	<0.001U	<0.001U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	Not Sampled	Not Sampled	0.006
Cadmium	0.005(F)	<0.004U	<0.004U	Not Sampled	<0.004U	<0.004U	<0.004U	Not Sampled	Not Sampled	<0.004U
Calcium	---	20.5	192	Not Sampled	19.0	7.60	218	Not Sampled	Not Sampled	334
Chromium	0.1(F)	0.005B	<0.005U	Not Sampled	0.007B	<0.005U	<0.005U	Not Sampled	Not Sampled	0.010
Cobalt	---	0.014B	0.044B	Not Sampled	0.031B	0.016B	0.034B	Not Sampled	Not Sampled	0.224
Copper	1.3(F)	0.031	0.029	Not Sampled	<0.005U	0.015B	0.021B	Not Sampled	Not Sampled	0.047
Iron	---	<0.010U	6.22	Not Sampled	0.032B	<0.010U	0.378	Not Sampled	Not Sampled	121.0
Lead	0.015(F)	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	0.0011BW	Not Sampled	Not Sampled	<0.0010UW
Magnesium	---	41.7	90.9	Not Sampled	21.4	3.26B	192	Not Sampled	Not Sampled	281
Manganese	---	0.012B	3.24	Not Sampled	0.011B	0.006B	0.490	Not Sampled	Not Sampled	30.1
Mercury	0.002(F)	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	Not Sampled	Not Sampled	<0.0002U
Nickel	0.1(P)	<0.005U	0.144	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	0.615
Potassium	---	15.6	7.31	Not Sampled	60.5	38.6	4.08B	Not Sampled	Not Sampled	15.4
Selenium	0.05(F)	<0.0020U	<0.0020U	Not Sampled	<0.0020U	0.0043B	<0.0020U	Not Sampled	Not Sampled	<0.0020U
Silver	---	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	<0.0010U	Not Sampled	Not Sampled	<0.0010U
Sodium	---	39.4	20.9	Not Sampled	137	43.2	153	Not Sampled	Not Sampled	21.8
Thallium	0.002(P)	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020UW	Not Sampled	Not Sampled	<0.0020U
Tin	---	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	Not Sampled	<0.050U
Vanadium	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Zinc	---	<0.005U	0.021	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	0.396

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16243	16372			16374	16244	16375	16376	16377
	Date Sampled:	11/13/91	11/14/91			11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	12/19/91	12/10/91			12/10/91	12/19/91	12/10/91	12/10/91	12/10/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000030U	<0.000029	No Sample	No Sample	<0.000041U	<0.000030U	<0.000030U	<0.000030U	<0.000030U
a-CHLORDANE	0.002(F)	<0.000050U	<0.00005U	No Sample	No Sample	<0.000068U	<0.000050U	<0.000050U	<0.000050U	<0.000050U
A-Endosulfan	---	<0.00014U	<0.00014U	No Sample	No Sample	<0.00019U	<0.00014U	<0.00014U	<0.00014U	<0.00014U
Aldrin	---	<0.000040U	<0.000038	No Sample	No Sample	<0.000054U	<0.000040U	<0.000040U	<0.000040U	<0.000040U
B-BHC	---	<0.000060U	<0.000057	No Sample	No Sample	<0.000059U	<0.000060U	<0.000059U	<0.000059U	<0.000059U
B-Endosulfan	---	<0.000040U	<0.000040	No Sample	No Sample	<0.000054U	<0.000040U	<0.000040U	<0.000040U	<0.000040U
D-BHC	---	<0.000090U	<0.000086	No Sample	No Sample	<0.00012U	<0.000090U	<0.000089U	<0.000089U	<0.000089U
Dieldrin	---	<0.000020U	<0.000020	No Sample	No Sample	<0.000027U	<0.000020U	<0.000020U	<0.000020U	<0.000020U
Disulfoton	---	<0.00070U	<0.0007U	No Sample	No Sample	<0.00095U	<0.00070U	<0.00070U	<0.00070U	<0.00070U
Endosulfan sulfate	---	<0.00066U	<0.00063U	No Sample	No Sample	<0.00089U	<0.00066U	<0.00065U	<0.00065U	<0.00065U
Endrin	0.002(P)	<0.000060U	<0.000057	No Sample	No Sample	<0.000081U	<0.000060U	<0.000059U	<0.000059U	<0.000059U
Endrin Aldehyde	---	<0.00023U	<0.00022U	No Sample	No Sample	<0.00031U	<0.00023U	<0.00023U	<0.00023U	<0.00023U
Ethyl Parathion	---	<0.00060U	<0.00060U	No Sample	No Sample	<0.00081U	<0.00060U	<0.00060U	<0.00060U	<0.00060U
Famphur	---	<0.0012U	<0.00012U	No Sample	No Sample	<0.0016U	<0.0012U	<0.0012U	<0.0012U	<0.0012U
G-BHC	---	<0.000040U	<0.000038	No Sample	No Sample	<0.000054U	<0.000040U	<0.000040U	<0.000040U	<0.000040U
g-CHLORDANE	0.002(F)	<0.000050U	<0.00005U	No Sample	No Sample	<0.000068U	<0.000050U	<0.000050U	<0.000050U	<0.000050U
Heptachlor	0.0004(F)	<0.000030U	<0.000030	No Sample	No Sample	<0.000041U	<0.000030U	<0.000030U	<0.000030U	<0.000030U
Heptachlor Epoxide	0.0002(F)	<0.00083U	<0.00079U	No Sample	No Sample	<0.0011U	<0.00083U	<0.00082U	<0.00082U	<0.00082U
KEPONE	---	<0.0060U	<0.0060U	No Sample	No Sample	<0.00081U	<0.0060U	<0.0060U	<0.0060U	<0.0060U
Methoxychlor	0.04(F)	<0.0018U	<0.0017U	No Sample	No Sample	<0.0024U	<0.0018U	<0.0017U	<0.0017U	<0.0017U
Methyl Parathion	---	<0.0012U	<0.0012U	No Sample	No Sample	<0.0016U	<0.0012U	<0.0012U	<0.0012U	<0.0012U
PCB-1016	0.0005(F)	<0.0007U	<0.0007U	No Sample	No Sample	<0.0009U	<0.0007U	<0.0006U	<0.0006U	<0.0006U
PCB-1221	0.0005(F)	<0.0007U	<0.0007U	No Sample	No Sample	<0.0009U	<0.0007U	<0.0006U	<0.0006U	<0.0006U
PCB-1232	0.0005(F)	<0.0007U	<0.0007U	No Sample	No Sample	<0.0009U	<0.0007U	<0.0006U	<0.0006U	<0.0006U
PCB-1242	0.0005(F)	<0.0007U	<0.0007U	No Sample	No Sample	<0.0009U	<0.0007U	<0.0006U	<0.0006U	<0.0006U
PCB-1248	0.0005(F)	<0.0007U	<0.0007U	No Sample	No Sample	<0.0009U	<0.0007U	<0.0006U	<0.0006U	<0.0006U
PCB-1254	0.0005(F)	<0.0013U	<0.0013U	No Sample	No Sample	<0.0018U	<0.0013U	<0.0013U	<0.0013U	<0.0013U
PCB-1260	0.0005(F)	<0.0013U	<0.0013U	No Sample	No Sample	<0.0018U	<0.0013U	<0.0013U	<0.0013U	<0.0013U
Phorate	---	<0.00040U	<0.0004U	No Sample	No Sample	<0.00054U	<0.00040U	<0.00040U	<0.00040U	<0.00040U
PPDDD	---	<0.00011U	<0.00010U	No Sample	No Sample	<0.00015U	<0.00011U	<0.00011U	<0.00011U	<0.00011U
PPDDE	---	<0.000040U	<0.000040	No Sample	No Sample	<0.000054U	<0.000040U	<0.000040U	<0.000040U	<0.000040U
PPDDT	---	<0.00012U	<0.00011U	No Sample	No Sample	<0.00016U	<0.00012U	<0.00012U	<0.00012U	<0.00012U
Toxaphene	0.003(F)	<0.0024U	<0.0024U	No Sample	No Sample	<0.0032U	<0.0024U	<0.0024U	<0.0024U	<0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16245		16246	16247	16248	16378	16379	16380	16381
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	12/19/91		12/19/91	12/19/91	12/19/91	12/10/91	12/10/91	12/10/91	12/19/91
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000030U	Not Sampled	<0.000030U	<0.000030U	<0.000030U	<0.000037U	<0.000030U	<0.000032U	<0.000030U
a-CHLORDANE	0.002(F)	<0.000050U	Not Sampled	<0.000050U	<0.000050U	<0.000050U	<0.000061U	<0.000051U	<0.000054U	<0.000050U
A-Endosulfan	---	<0.00014U	Not Sampled	<0.00014U	<0.00014U	<0.00014U	<0.00017U	<0.00014U	<0.00014U	<0.00014U
Aldrin	---	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	<0.000049U	<0.000040U	<0.000043U	<0.000040U
B-BHC	---	<0.000060U	Not Sampled	<0.000060U	<0.000060U	<0.000060U	<0.000073U	<0.000061U	<0.000065U	<0.000060U
B-Endosulfan	---	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	<0.000049U	<0.000040U	<0.000040U	<0.000040U
D-BHC	---	<0.000090U	Not Sampled	<0.000090U	<0.000090U	<0.000090U	<0.00011U	<0.000091U	<0.000097U	<0.000090U
Dieldrin	---	<0.000020U	Not Sampled	<0.000020U	<0.000020U	<0.000020U	<0.000024U	<0.000020U	<0.000020U	<0.000020U
Disulfoton	---	<0.00070U	Not Sampled	<0.00070U	<0.00070U	<0.00070U	<0.00085U	<0.00070U	<0.00070U	<0.00070U
Endosulfan sulfate	---	<0.00066U	Not Sampled	<0.00066U	<0.00066U	<0.00066U	<0.00080U	<0.00067U	<0.00071U	<0.00066U
Endrin	0.002(P)	<0.000060U	Not Sampled	<0.000060U	<0.000060U	<0.000060U	<0.000073U	<0.000061U	<0.000065U	<0.000060U
Endrin Aldehyde	---	<0.00023U	Not Sampled	<0.00023U	<0.00023U	<0.00023U	<0.00028U	<0.00023U	<0.00025U	<0.00023U
Ethyl Parathion	---	<0.00060U	Not Sampled	<0.00060U	<0.00060U	<0.00060U	<0.00073U	<0.00060U	<0.00060U	<0.00060U
Famphur	---	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	<0.0015U	<0.0012U	<0.0012U	<0.0012U
G-BHC	---	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	<0.000049U	<0.000040U	<0.000043U	<0.000040U
g-CHLORDANE	0.002(F)	<0.000050U	Not Sampled	<0.000050U	<0.000050U	<0.000050U	<0.000061U	<0.000051U	<0.000054U	0.000021BJ
Heptachlor	0.0004(F)	<0.000030U	Not Sampled	<0.000030U	<0.000030U	<0.000030U	<0.000037U	<0.000030U	<0.000030U	<0.000030U
Heptachlor Epoxide	0.0002(F)	<0.00083U	Not Sampled	<0.00083U	<0.00083U	<0.00083U	<0.0010U	<0.00084U	<0.00089U	<0.00083U
KEPONE	---	<0.0060U	Not Sampled	<0.0060U	<0.0060U	<0.0060U	<0.0073U	<0.0061U	<0.0065U	<0.0060U
Methoxychlor	0.04(F)	<0.0018U	Not Sampled	<0.0018U	<0.0018U	<0.0018U	<0.0021U	<0.0018U	<0.0019U	<0.0018U
Methyl Parathion	---	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	<0.0015U	<0.0012U	<0.0012U	<0.0012U
PCB-1016	0.0005(F)	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	<0.0008U	<0.0007U	<0.0007U	<0.0007U
PCB-1221	0.0005(F)	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	<0.0008U	<0.0007U	<0.0007U	<0.0007U
PCB-1232	0.0005(F)	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	<0.0008U	<0.0007U	<0.0007U	<0.0007U
PCB-1242	0.0005(F)	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	<0.0008U	<0.0007U	<0.0007U	<0.0007U
PCB-1248	0.0005(F)	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	<0.0008U	<0.0007U	<0.0007U	<0.0007U
PCB-1254	0.0005(F)	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	<0.0016U	<0.0013U	<0.0013U	0.0013BJ
PCB-1260	0.0005(F)	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	<0.0016U	<0.0013U	<0.0013U	<0.0013U
Phorate	---	<0.00040U	Not Sampled	<0.00040U	<0.00040U	<0.00040U	<0.00049U	<0.00040U	<0.00040U	<0.00040U
PPDDD	---	<0.00011U	Not Sampled	<0.00011U	<0.00011U	<0.00011U	<0.00013U	<0.00011U	<0.00012U	<0.00011U
PPDDE	---	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	<0.000049U	<0.000040U	<0.000040U	<0.000040U
PPDDT	---	<0.00012U	Not Sampled	<0.00012U	<0.00012U	<0.00012U	<0.00015U	<0.00012U	<0.00012U	<0.00012U
Toxaphene	0.003(F)	<0.0024U	Not Sampled	<0.0024U	<0.0024U	<0.0024U	<0.0029U	<0.0024U	<0.0024U	<0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16382	16249	16250	16251	16252	16383	16384	16385	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000030U	<0.000030U	<0.000030U	<0.000030U	<0.000030U	<0.000030U	<0.000030U	<0.000030U	Not Sampled
a-CHLORDANE	0.002(F)	<0.000050U	<0.000050U	<0.000050U	<0.000050U	<0.000056U	<0.000050U	<0.000050U	<0.000050U	Not Sampled
A-Endosulfan	---	<0.00014U	<0.00014U	<0.00014U	<0.00014U	<0.00016U	<0.00014U	<0.00014U	<0.00014U	Not Sampled
Aldrin	---	<0.000040U	<0.000008J	<0.000040U	<0.000040U	<0.000044U	<0.000040U	<0.000040U	<0.000040U	Not Sampled
B-BHC	---	<0.000060U	<0.000060U	<0.000060U	<0.000060U	<0.000067U	<0.000060U	<0.000060U	<0.000060U	Not Sampled
B-Endosulfan	---	<0.000040U	<0.000040U	<0.000040U	<0.000040U	<0.000044U	<0.000040U	<0.000040U	<0.000040U	Not Sampled
D-BHC	---	<0.000090U	<0.000090U	<0.000090U	<0.000090U	<0.000010U	<0.000090U	<0.000090U	<0.000090U	Not Sampled
Dieldrin	---	<0.000020U	<0.000020U	<0.000020U	<0.000020U	<0.000022U	<0.000020U	<0.000020U	<0.000020U	Not Sampled
Disulfoton	---	<0.00070U	<0.00070U	<0.00070U	<0.00070U	<0.00077U	<0.00070U	<0.00070U	<0.00070U	Not Sampled
Endosulfan sulfate	---	<0.00066U	<0.00066U	<0.00066U	<0.00066U	<0.00073U	<0.00066U	<0.00066U	<0.00066U	Not Sampled
Endrin	0.002(P)	<0.000060U	<0.000060U	<0.000060U	<0.000060U	<0.000067U	<0.000060U	<0.000060U	<0.000060U	Not Sampled
Endrin Aldehyde	---	<0.00023U	<0.00023U	<0.00023U	<0.00023U	<0.00026U	<0.00023U	<0.00023U	<0.00023U	Not Sampled
Ethyl Parathion	---	<0.00060U	<0.00060U	<0.00060U	<0.00060U	<0.00066U	<0.00060U	<0.00060U	<0.00060U	Not Sampled
Famphur	---	<0.0012U	<0.0012U	<0.0012U	<0.0012U	<0.0013U	<0.0012U	<0.0012U	<0.0012U	Not Sampled
G-BHC	---	<0.000040U	<0.000040U	<0.000040U	<0.000040U	<0.000044U	<0.000040U	<0.000040U	<0.000040U	Not Sampled
g-CHLORDANE	0.002(F)	0.000021BJ	<0.000050U	<0.000050U	<0.000050U	<0.000056U	0.000021BJ	0.000021BJ	0.000021BJ	Not Sampled
Heptachlor	0.0004(F)	<0.000030U	<0.000030U	<0.000030U	<0.000030U	<0.000033U	<0.000030U	<0.000030U	<0.000030U	Not Sampled
Heptachlor Epoxide	0.0002(F)	<0.00083U	<0.00083U	<0.00083U	<0.00083U	<0.00092U	<0.00083U	<0.00083U	<0.00083U	Not Sampled
KEPONE	---	<0.0060U	<0.0060U	<0.0060U	<0.0060U	<0.0067U	<0.0060U	<0.0060U	<0.0060U	Not Sampled
Methoxychlor	0.04(F)	<0.0018U	<0.0018U	<0.0018U	<0.0018U	<0.0020U	<0.0018U	<0.0018U	<0.0018U	Not Sampled
Methyl Parathion	---	<0.0012U	<0.0012U	<0.0012U	<0.0012U	<0.0013U	<0.0012U	<0.0012U	<0.0012U	Not Sampled
PCB-1016	0.0005(F)	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	Not Sampled
PCB-1221	0.0005(F)	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	Not Sampled
PCB-1232	0.0005(F)	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	Not Sampled
PCB-1242	0.0005(F)	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	Not Sampled
PCB-1248	0.0005(F)	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	<0.0007U	Not Sampled
PCB-1254	0.0005(F)	0.0012BJ	<0.0013U	<0.0013U	<0.0013U	<0.0014U	0.0011BJ	0.00076BJ	0.00078BJ	Not Sampled
PCB-1260	0.0005(F)	<0.0013U	<0.0013U	<0.0013U	<0.0013U	<0.0014U	<0.0013U	<0.0013U	<0.0013U	Not Sampled
Phorate	---	<0.00040U	<0.00040U	<0.00040U	<0.00040U	<0.00044U	<0.00040U	<0.00040U	<0.00040U	Not Sampled
PPDDD	---	<0.00011U	<0.00011U	<0.00011U	<0.00011U	<0.00012U	<0.00011U	<0.00011U	<0.00011U	Not Sampled
PPDDE	---	<0.000040U	<0.000040U	<0.000040U	<0.000040U	<0.000044U	<0.000040U	<0.000040U	<0.000040U	Not Sampled
PPDDT	---	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	<0.00012U	Not Sampled
Toxaphene	0.003(F)	<0.0024U	<0.0024U	<0.0024U	<0.0024U	<0.0027U	<0.0024U	<0.0024U	<0.0024U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16387		16388	16725	16726		16728	16729	
	Date Sampled:	11/15/91		11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/19/91		12/19/91	12/16/91	12/16/91		12/16/91	12/16/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	<0.000030U	No Sample	<0.000030U	<0.000030U	<0.000030U	Not Sampled	<0.000030U	<0.000030U	Not Sampled
a-CHLORDANE	0.002(F)	<0.000050U	No Sample	<0.000050U	<0.000050U	<0.000050U	Not Sampled	<0.000050U	<0.000050U	Not Sampled
A-Endosulfan	---	<0.00014U	No Sample	<0.00014U	<0.00014U	<0.00014U	Not Sampled	<0.00014U	<0.00014U	Not Sampled
Aldrin	---	<0.000040U	No Sample	<0.000040U	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	Not Sampled
B-BHC	---	<0.000060U	No Sample	<0.000060U	<0.000060U	<0.000060U	Not Sampled	<0.000060U	<0.000065U	Not Sampled
B-Endosulfan	---	<0.000040U	No Sample	<0.000040U	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	Not Sampled
D-BHC	---	<0.000090U	No Sample	<0.000090U	<0.000090U	<0.000090U	Not Sampled	<0.000090U	<0.000097U	Not Sampled
Dieldrin	---	<0.000020U	No Sample	<0.000020U	<0.000020U	<0.000020U	Not Sampled	<0.000020U	<0.000020U	Not Sampled
Disulfoton	---	<0.00070U	No Sample	<0.00070U	<0.00070U	<0.00070U	Not Sampled	<0.00070U	<0.00070U	Not Sampled
Endosulfan sulfate	---	<0.00066U	No Sample	<0.00066U	<0.00066U	<0.00066U	Not Sampled	<0.00066U	<0.00071U	Not Sampled
Endrin	0.002(P)	<0.000060U	No Sample	<0.000060U	<0.000060U	<0.000060U	Not Sampled	<0.000060U	<0.000065U	Not Sampled
Endrin Aldehyde	---	<0.00023U	No Sample	<0.00023U	<0.00023U	<0.00023U	Not Sampled	<0.00023U	<0.00026U	Not Sampled
Ethyl Parathion	---	<0.00060U	No Sample	<0.00060U	<0.00060U	<0.00060U	Not Sampled	<0.00060U	<0.00060U	Not Sampled
Famphur	---	<0.0012U	No Sample	<0.0012U	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	Not Sampled
G-BHC	---	<0.000040U	No Sample	<0.000040U	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	Not Sampled
g-CHLORDANE	0.002(F)	0.000021BJ	No Sample	0.000021BJ	<0.000050U	<0.000050U	Not Sampled	<0.000050U	<0.000050U	Not Sampled
Heptachlor	0.0004(F)	<0.000030U	No Sample	<0.000030U	<0.000030U	<0.000030U	Not Sampled	<0.000030U	<0.000030U	Not Sampled
Heptachlor Epoxide	0.0002(F)	<0.00083U	No Sample	<0.00083U	<0.00083U	<0.00083U	Not Sampled	<0.00083U	<0.00089U	Not Sampled
KEPONE	---	<0.0060U	No Sample	<0.0060U	<0.0060U	<0.0060U	Not Sampled	<0.0060U	<0.0060U	Not Sampled
Methoxychlor	0.04(F)	<0.0018U	No Sample	<0.0018U	<0.0018U	<0.0018U	Not Sampled	<0.0018U	<0.0019U	Not Sampled
Methyl Parathion	---	<0.0012U	No Sample	<0.0012U	<0.0012U	<0.0012U	Not Sampled	<0.0012U	<0.0012U	Not Sampled
PCB-1016	0.0005(F)	<0.0007U	No Sample	<0.0007U	<0.0007U	<0.0007U	Not Sampled	<0.0007U	<0.0007U	Not Sampled
PCB-1221	0.0005(F)	<0.0007U	No Sample	<0.0007U	<0.0007U	<0.0007U	Not Sampled	<0.0007U	<0.0007U	Not Sampled
PCB-1232	0.0005(F)	<0.0007U	No Sample	<0.0007U	<0.0007U	<0.0007U	Not Sampled	<0.0007U	<0.0007U	Not Sampled
PCB-1242	0.0005(F)	<0.0007U	No Sample	<0.0007U	<0.0007U	<0.0007U	Not Sampled	<0.0007U	<0.0007U	Not Sampled
PCB-1248	0.0005(F)	<0.0007U	No Sample	<0.0007U	<0.0007U	<0.0007U	Not Sampled	<0.0007U	<0.0007U	Not Sampled
PCB-1254	0.0005(F)	<0.0013U	No Sample	<0.0013U	<0.0013U	0.00020J	Not Sampled	<0.0013U	<0.0013U	Not Sampled
PCB-1260	0.0005(F)	<0.0013U	No Sample	<0.0013U	<0.0013U	<0.0013U	Not Sampled	<0.0013U	<0.0013U	Not Sampled
Phorate	---	<0.00040U	No Sample	<0.00040U	<0.00040U	<0.00040U	Not Sampled	<0.00040U	<0.00040U	Not Sampled
PPDDD	---	<0.00011U	No Sample	<0.00011U	<0.00011U	<0.00011U	Not Sampled	<0.00011U	<0.00011U	Not Sampled
PPDDE	---	<0.000040U	No Sample	<0.000040U	<0.000040U	<0.000040U	Not Sampled	<0.000040U	<0.000040U	Not Sampled
PPDDT	---	<0.00012U	No Sample	<0.00012U	<0.00012U	<0.00012U	Not Sampled	<0.00012U	<0.00012U	Not Sampled
Toxaphene	0.003(F)	<0.0024U	No Sample	<0.0024U	<0.0024U	<0.0024U	Not Sampled	<0.0024U	<0.0024U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16730		16254	16255	16256			16731
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/16/91		12/19/91	12/19/91	12/19/91			12/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	<0.000030U	Not Sampled	<0.000030U	<0.000030U	<0.000030U	Not Sampled	Not Sampled	<0.000030U
a-CHLORDANE	0.002(F)	No Sample	<0.000050U	Not Sampled	<0.000050U	<0.000050U	<0.000050U	Not Sampled	Not Sampled	<0.000050U
A-Endosulfan	---	No Sample	<0.00014U	Not Sampled	<0.00014U	<0.00014U	<0.00014U	Not Sampled	Not Sampled	<0.00014U
Aldrin	---	No Sample	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	Not Sampled	Not Sampled	<0.000040U
B-BHC	---	No Sample	<0.000060U	Not Sampled	<0.000060U	<0.000060U	<0.000060U	Not Sampled	Not Sampled	<0.000060U
B-Endosulfan	---	No Sample	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	Not Sampled	Not Sampled	<0.000040U
D-BHC	---	No Sample	<0.000090U	Not Sampled	<0.000090U	<0.000090U	<0.000090U	Not Sampled	Not Sampled	<0.000090U
Dieldrin	---	No Sample	<0.000020U	Not Sampled	<0.000020U	<0.000020U	<0.000020U	Not Sampled	Not Sampled	<0.000020U
Disulfoton	---	No Sample	<0.00070U	Not Sampled	<0.00070U	<0.00070U	<0.00070U	Not Sampled	Not Sampled	<0.00070U
Endosulfan sulfate	---	No Sample	<0.00066U	Not Sampled	<0.00066U	<0.00066U	<0.00066U	Not Sampled	Not Sampled	<0.00066U
Endrin	0.002(P)	No Sample	<0.000060U	Not Sampled	<0.000060U	<0.000060U	<0.000060U	Not Sampled	Not Sampled	<0.000060U
Endrin Aldehyde	---	No Sample	<0.00023U	Not Sampled	<0.00023U	<0.00023U	<0.00023U	Not Sampled	Not Sampled	<0.00023U
Ethyl Parathion	---	No Sample	<0.00060U	Not Sampled	<0.00060U	<0.00060U	<0.00060U	Not Sampled	Not Sampled	<0.00060U
Famphur	---	No Sample	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	Not Sampled	Not Sampled	<0.0012U
G-BHC	---	No Sample	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	Not Sampled	Not Sampled	<0.000040U
g-CHLORDANE	0.002(F)	No Sample	<0.000050U	Not Sampled	<0.000050U	<0.000050U	<0.000050U	Not Sampled	Not Sampled	<0.000050U
Heptachlor	0.0004(F)	No Sample	<0.000030U	Not Sampled	<0.000030U	<0.000030U	<0.000030U	Not Sampled	Not Sampled	<0.000030U
Heptachlor Epoxide	0.0002(F)	No Sample	<0.00083U	Not Sampled	<0.00083U	<0.00083U	<0.00083U	Not Sampled	Not Sampled	<0.00083U
KEPONE	---	No Sample	<0.0060U	Not Sampled	<0.0060U	<0.0060U	<0.0060U	Not Sampled	Not Sampled	<0.0060U
Methoxychlor	0.04(F)	No Sample	<0.0018U	Not Sampled	<0.0018U	<0.0018U	<0.0018U	Not Sampled	Not Sampled	<0.0018U
Methyl Parathion	---	No Sample	<0.0012U	Not Sampled	<0.0012U	<0.0012U	<0.0012U	Not Sampled	Not Sampled	<0.0012U
PCB-1016	0.0005(F)	No Sample	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	Not Sampled	Not Sampled	<0.0007U
PCB-1221	0.0005(F)	No Sample	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	Not Sampled	Not Sampled	<0.0007U
PCB-1232	0.0005(F)	No Sample	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	Not Sampled	Not Sampled	<0.0007U
PCB-1242	0.0005(F)	No Sample	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	Not Sampled	Not Sampled	<0.0007U
PCB-1248	0.0005(F)	No Sample	<0.0007U	Not Sampled	<0.0007U	<0.0007U	<0.0007U	Not Sampled	Not Sampled	<0.0007U
PCB-1254	0.0005(F)	No Sample	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	Not Sampled	Not Sampled	<0.0013U
PCB-1260	0.0005(F)	No Sample	<0.0013U	Not Sampled	<0.0013U	<0.0013U	<0.0013U	Not Sampled	Not Sampled	<0.0013U
Phorate	---	No Sample	<0.00040U	Not Sampled	<0.00040U	<0.00040U	<0.00040U	Not Sampled	Not Sampled	<0.00040U
PPDDD	---	No Sample	<0.00011U	Not Sampled	<0.00011U	<0.00011U	<0.00011U	Not Sampled	Not Sampled	<0.00011U
PPDDE	---	No Sample	<0.000040U	Not Sampled	<0.000040U	<0.000040U	<0.000040U	Not Sampled	Not Sampled	<0.000040U
PPDDT	---	No Sample	<0.00012U	Not Sampled	<0.00012U	<0.00012U	<0.00012U	Not Sampled	Not Sampled	<0.00012U
Toxaphene	0.003(F)	No Sample	<0.0024U	Not Sampled	<0.0024U	<0.0024U	<0.0024U	Not Sampled	Not Sampled	<0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16295	16296	16461	16446	16447	16297	16448	16449	16450
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/15/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/15/91	11/19/91	11/21/91	11/19/91	11/19/91	11/15/91	11/19/91	11/19/91	11/19/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0047BJ	0.019BJ	0.003BJ	0.006BJ	0.012BJ	0.045BJ	0.013BJ	0.004BJ	0.010BJ
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.014B	0.012B	0.028B	0.005B	0.004BJ	0.009B	0.004BJ	0.004BJ	0.003BJ
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	0.004J	0.004J	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	0.002J	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16298		16299	16300	16301	16451	16452	16453	16302
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/15/91		11/15/91	11/15/91	11/15/91	11/19/91	11/20/91	11/20/91	11/18/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.041BJ	Not Sampled	0.023BJ	0.009BJ	0.008BJ	0.005BJ	0.022BJ	0.029BJ	0.038BJ
Benzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromoform	0.1(L)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Bromomethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Carbondisulfide	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chlorobenzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloroethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
Chloroform	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Chloromethane	---	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Dibromochloromethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Ethylbenzene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Methylene Chloride	0.005(P)	0.013B	Not Sampled	0.014B	0.013B	0.008B	0.007B	0.012B	0.013B	0.007B
Styrene	0.1(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Tetrachloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Toluene	1(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Trichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
T-Xylene	10(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	0.002J	0.004J	0.002J
Vinyl Acetate	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U
1,1-Dichloroethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1-Dichloroethene	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
2-Butanone	---	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	0.007BJ	<0.10U
2-Hexanone	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	0.004J	0.002J	<0.005U	<0.005U

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SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16303	16304	16306	16307	16308	16454	16455	16456	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/18/91	11/18/91	11/18/91	11/18/91	11/18/91	11/20/91	11/20/91	11/20/91	
VOLATILE ORGANICS	MCL									
Acetone	---	0.012BJ	0.001BJ	<0.10	0.005BJ	0.005BJ	0.024BJ	0.039BJ	0.014BJ	Not Sampled
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
Chloroform	---	<0.005U	<0.005U	0.001J	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Methylene Chloride	0.005(P)	0.006B	0.006B	0.004BJ	0.007B	0.008B	0.012B	0.010B	0.010B	Not Sampled
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	0.001J	<0.005U	Not Sampled
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
T-Xylene	10(F)	0.002J	0.002J	0.002J	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16458	16459	16460	16793	16794		16796	16797	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	11/20/91	11/20/91	11/21/91	11/22/91	11/22/91		11/22/91	11/22/91	
VOLATILE ORGANICS	MCL									
Acetone	---	0.051BJ	0.015BJ	0.021BJ	0.003BJ	0.028BJ	Not Sampled	0.004BJ	0.002BJ	Not Sampled
Benzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Bromoform	0.1(L)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Bromomethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Carbondisulfide	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Chlorobenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Chloroethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
Chloroform	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Chloromethane	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Dibromochloromethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Ethylbenzene	---	<0.005U	<0.005U	<0.005U	<0.005U	0.001J	Not Sampled	<0.005U	<0.005U	Not Sampled
Methylene Chloride	0.005(P)	0.012B	0.011B	0.028B	0.012B	0.013B	Not Sampled	0.011B	0.008B	Not Sampled
Styrene	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Tetrachloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Toluene	1(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Trichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
T-Xylene	10(F)	0.007	<0.005U	<0.005U	<0.005U	0.004J	Not Sampled	<0.005U	0.007	Not Sampled
Vinyl Acetate	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled
1,1-Dichloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,1-Dichloroethene	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
2-Butanone	---	<0.10U	<0.10U	<0.10U	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	Not Sampled
2-Hexanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16801	16798		16309	16310	16311			16799
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:	11/22/91	11/22/91		11/18/91	11/18/91	11/18/91			11/22/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.008BJ	0.003BJ	Not Sampled	0.008BJ	0.007BJ	0.009BJ	Not Sampled	Not Sampled	0.003BJ
Benzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromodichloromethane	0.1(L)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromoform	0.1(L)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Bromomethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Carbon Tetrachloride	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Carbondisulfide	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Chlorobenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Chloroethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
Chloroform	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Chloromethane	---	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
cis-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
cis-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Dibromochloromethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Ethylbenzene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Methylene Chloride	0.005(P)	0.004BJ	0.006B	Not Sampled	0.007B	0.007B	0.005B	Not Sampled	Not Sampled	0.002BJ
Styrene	0.1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Tetrachloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Toluene	1(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Trans-1,2-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Trans-1,3-Dichloropropene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Trichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
T-Xylene	10(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Vinyl Acetate	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
Vinyl Chloride	0.002(F)	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	Not Sampled	<0.010U
1,1-Dichloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1-Dichloroethene	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,1-Trichloroethane	0.2(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,2-Trichloroethane	0.005(P)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,1,2,2-Tetrachloroethane	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,2-Dichloroethane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
1,2-Dichloropropane	0.005(F)	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
2-Butanone	---	<0.10U	<0.10U	Not Sampled	<0.10U	<0.10U	<0.10U	Not Sampled	Not Sampled	<0.10U
2-Hexanone	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U
4-Methyl-2-Pentanone	---	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	<0.005U	Not Sampled	Not Sampled	<0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16230	16354		16355	16356	16231	16357	16358	16359
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	11/25/91		11/25/91	11/25/91	11/26/91	11/25/91	11/25/91	11/25/91
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Acenaphthylene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Aniline	---	0.020U	0.020U	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
Anthracene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzidine	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Benzoic Acid	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzyl Alcohol	---	0.020U	0.020U	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.010U	0.0013BJ	No Sample	0.0025BJ	0.0029BJ	0.016B	0.0007BJ	0.010U	0.0016BJ
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibenzofuran	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibutylphthalate	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Diethyl Phthalate	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dimethyl Phthalate	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	0.010U	No Sample	0.010U	0.0008J	0.010U	0.010U	0.010U	0.010U
Fluoranthene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Fluorene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachloroethane	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Isophorone	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Naphthalene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Nitrobenzene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Phenanthrene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16230	16354		16355	16356	16231	16357	16358	16359
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	11/25/91		11/25/91	11/25/91	11/26/91	11/25/91	11/25/91	11/25/91
BNA	MCL									
Phenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Pyrene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Chlorophenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Methylphenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Nitroaniline	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2-Nitrophenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
3-Nitroaniline	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	0.020U	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	0.020U	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Chloroaniline	---	0.020U	0.020U	No Sample	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Methylphenol	---	0.010U	0.010U	No Sample	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Nitroaniline	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
4-Nitrophenol	---	0.050U	0.050U	No Sample	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16232		16233	16234	16235	16360	16361	16362	16363
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	11/27/91	11/27/91	11/27/91	11/27/91
BNA	MCL									
Acenaphthene	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Acenaphthylene	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Aniline	---	0.020U	Not Sampled	<0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
Anthracene	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzidine	---	0.050U	Not Sampled	<0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Benzoic Acid	---	0.050U	Not Sampled	<0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Benzo(a)Anthracene	0.0001(P)	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(a)Pyrene	0.0002(P)	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(b)Fluoranthene	0.0002(P)	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(G,H,I)Perylene	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzo(k)Fluoranthene	0.0002(P)	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Benzyl Alcohol	---	0.020U	Not Sampled	<0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
Bis(2-Chloroethoxy)Methane	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroethyl)Ether	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Chloroisopropyl)Ether	---	0.010U	Not Sampled	<0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Bis(2-Ethylhexyl)Phthalate	---	0.0014BJ	Not Sampled	0.0032BJ	0.0076BJ	0.0017BJ	0.013B	0.0029BJ	0.0032BJ	0.010U
Butylbenzylphthalate	0.1(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chrysene	0.0002(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibenzofuran	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dibutylphthalate	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Diethyl Phthalate	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Dimethyl Phthalate	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Di-N-Octylphthalate	---	0.010U	Not Sampled	0.0013J	0.010U	0.010U	0.010U	0.0009J	0.0009J	0.010U
Fluoranthene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Fluorene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorobenzene	0.001(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorobutadiene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachlorocyclopentadiene	0.05(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Hexachloroethane	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Isophorone	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Naphthalene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Nitrobenzene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitrosodimethylamine	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitroso-Di-N-Propylamine	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
N-Nitrosodiphenyl Amine	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Pentachlorophenol	0.001(F)	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Phenanthrene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16232		16233	16234	16235	16360	16361	16362	16363
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	11/27/91	11/27/91	11/27/91	11/27/91
BNA	MCL									
Phenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Pyrene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2-Dichlorobenzene	0.6(L)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2-Diphenylhydrazine	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,2,4-Trichlorobenzene	0.07(P)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,3-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,4-Dichlorobenzene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Chloronaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Chlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Methyl-4,6-Dinotrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2-Methylnaphthalene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2-Nitrophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dimethylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4-Dinitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
2,4-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4,5-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,4,6-Trichlorophenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
2,6-Dinitrotoluene	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
3-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
3,3'Dichlorobenzidine	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Bromophenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Chloro-3-Methylphenol	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Chloroaniline	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
4-Chlorophenyl Phenyl Ether	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Methylphenol	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
4-Nitroaniline	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
4-Nitrophenol	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16364	16236	16237	16238	16239	16365	16366	16367	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/27/91	11/26/91	11/25/91	11/25/91	11/25/91	11/27/91	11/27/91	11/27/91	
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Acenaphthylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Aniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
Anthracene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzidine	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
Benzoic Acid	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzo(G,H,I)Perylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Benzyl Alcohol	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0018BJ	0.0026BJ	0.029B	0.15B	0.0029BJ	0.0085BJ	0.033B	0.0012BJ	Not Sampled
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Chrysene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Dibenzofuran	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Dibutylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Diethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Dimethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Di-N-Octylphthalate	---	0.0017J	0.010U	0.010U	0.0018J	0.0011J	0.0025J	0.010U	0.010U	Not Sampled
Fluoranthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Fluorene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Hexachlorobenzene	0.001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Hexachlorobutadiene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Hexachloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Isophorone	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Naphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Nitrobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
N-Nitrosodimethylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Pentachlorophenol	0.001(F)	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
Phenanthrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16364	16236	16237	16238	16239	16365	16366	16367	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/27/91	11/26/91	11/25/91	11/25/91	11/25/91	11/27/91	11/27/91	11/27/91	
BNA	MCL									
Phenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Pyrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,2-Diphenylhydrazine	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,3-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,4-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2-Chloronaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2-Chlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
2-Methylnaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
2-Nitrophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,4-Dichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,4-Dimethylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,4-Dinitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
2,4-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,4,5-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,4,6-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
2,6-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
3-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
3,3'Dichlorobenzidine	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
4-Bromophenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
4-Chloro-3-Methylphenol	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
4-Chloroaniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
4-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
4-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
4-Nitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16369	16370	16371	16709	16710		16712	16713	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/02/91	12/02/91	12/02/91	12/03/91	12/03/91		12/04/91	12/04/91	
BNA	MCL									
Acenaphthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Acenaphthylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Aniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
Anthracene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzidine	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
Benzoic Acid	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
Benzo(a)Anthracene	0.0001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzo(a)Pyrene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzo(b)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzo(G,H,I)Perylene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzo(k)Fluoranthene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Benzyl Alcohol	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
Bis(2-Chloroethoxy)Methane	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Bis(2-Chloroethyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Bis(2-Chloroisopropyl)Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Bis(2-Ethylhexyl)Phthalate	---	0.0014J	0.0048J	0.0013J	0.0032J	0.0018BJ	Not Sampled	0.0021BJ	0.0024BJ	Not Sampled
Butylbenzylphthalate	0.1(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Chrysene	0.0002(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Dibenzofuran	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Dibenzo(A,H)Anthracene	0.0003(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Dibutylphthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Diethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Dimethyl Phthalate	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Di-N-Octylphthalate	---	0.010U	0.0010J	0.010U	0.0010J	0.010U	Not Sampled	0.0010J	0.010U	Not Sampled
Fluoranthene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Fluorene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Hexachlorobenzene	0.001(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Hexachlorobutadiene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Hexachlorocyclopentadiene	0.05(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Hexachloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Isophorone	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Naphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Nitrobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
N-Nitrosodimethylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
N-Nitroso-Di-N-Propylamine	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
N-Nitrosodiphenyl Amine	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Pentachlorophenol	0.001(F)	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
Phenanthrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16369	16370	16371	16709	16710		16712	16713	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/02/91	12/02/91	12/02/91	12/03/91	12/03/91		12/04/91	12/04/91	
BNA	MCL									
Phenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Pyrene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,2-Dichlorobenzene	0.6(L)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,2-Diphenylhydrazine	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,2,4-Trichlorobenzene	0.07(P)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,3-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,4-Dichlorobenzene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2-Chloronaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2-Chlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2-Methyl-4,6-Dinotrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
2-Methylnaphthalene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
2-Nitrophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,4-Dichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,4-Dimethylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,4-Dinitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
2,4-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,4,5-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,4,6-Trichlorophenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
2,6-Dinitrotoluene	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
3-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
3,3'Dichlorobenzidine	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
4-Bromophenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
4-Chloro-3-Methylphenol	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
4-Chloroaniline	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
4-Chlorophenyl Phenyl Ether	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
4-Methylphenol	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
4-Nitroaniline	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
4-Nitrophenol	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16714		16240	16241	16242			16715
	Date Sampled:		11/16/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/04/91		11/26/91	11/26/91	11/26/91			12/04/91
BNA	MCL									
Acenaphthene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Acenaphthylene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Aniline	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
Anthracene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzidine	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
Benzoic Acid	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
Benzo(a)Anthracene	0.0001(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(a)Pyrene	0.0002(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(b)Fluoranthene	0.0002(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(G,H,I)Perylene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzo(k)Fluoranthene	0.0002(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Benzyl Alcohol	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
Bis(2-Chloroethoxy)Methane	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Chloroethyl)Ether	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Chloroisopropyl)Ether	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Bis(2-Ethylhexyl)Phthalate	---	No Sample	0.0026BJ	Not Sampled	0.0060BJ	0.0093BJ	0.010U	Not Sampled	Not Sampled	0.0069BJ
Butylbenzylphthalate	0.1(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Chrysene	0.0002(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Dibenzofuran	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Dibenzo(A,H)Anthracene	0.0003(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Dibutylphthalate	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Diethyl Phthalate	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Dimethyl Phthalate	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Di-N-Octylphthalate	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.0017J	Not Sampled	Not Sampled	0.010U
Fluoranthene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Fluorene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorobenzene	0.001(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorobutadiene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Hexachlorocyclopentadiene	0.05(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Hexachloroethane	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Indeno(1,2,3-C,D)Pyrene	0.0004(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Isophorone	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Naphthalene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Nitrobenzene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitrosodimethylamine	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitroso-Di-N-Propylamine	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
N-Nitrosodiphenyl Amine	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Pentachlorophenol	0.001(F)	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
Phenanthrene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No: / Lab Sample No: / Date Sampled: / Date Analyzed:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16714		16240	16241	16242			16715
	Date Sampled:		11/16/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/04/91		11/26/91	11/26/91	11/26/91			12/04/91
BNA	MCL									
Phenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Pyrene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,2-Dichlorobenzene	0.6(L)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,2-Diphenylhydrazine	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,2,4-Trichlorobenzene	0.07(P)	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,3-Dichlorobenzene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,4-Dichlorobenzene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2-Chloronaphthalene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2-Chlorophenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2-Methyl-4,6-Dinotrophenol	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
2-Methylnaphthalene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2-Methylphenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2-Nitroaniline	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
2-Nitrophenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dichlorophenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dimethylphenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,4-Dinitrophenol	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
2,4-Dinitrotoluene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,4,5-Trichlorophenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,4,6-Trichlorophenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
2,6-Dinitrotoluene	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
3-Nitroaniline	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
3,3'Dichlorobenzidine	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
4-Bromophenyl Ether	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
4-Chloro-3-Methylphenol	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
4-Chloroaniline	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
4-Chlorophenyl Phenyl Ether	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
4-Methylphenol	---	No Sample	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
4-Nitroaniline	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
4-Nitrophenol	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16217	16335	16353	16336	16337	16218	16338	16339	16340
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/15/91	11/16/91	11/18/91	11/16/91	11/16/91	11/15/91	11/16/91	11/16/91	11/16/91
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
HMX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
RDX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
TETRYL	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
TNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
TNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
2,6-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16219		16220	16221	16222	16341	16342	16343	16344
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/15/91		11/15/91	11/15/91	11/15/91	11/16/91	11/16/91	11/16/91	11/16/91
EXPLOSIVES	MCL									
DNB	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
HMX	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
RDX	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
TETRYL	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
TNB	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
TNT	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
2,4-DNT	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U
2,6-DNT	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16345	16223	16224	16225	16226	16346	16347	16348	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/18/91	11/15/91	11/15/91	11/15/91	11/15/91	11/18/91	11/18/91	11/18/91	
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
HMX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
RDX	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
TETRYL	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
TNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
TNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled
2,6-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16350	16351	16352	16693	16694		16696	16697	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	11/18/91	11/18/91	11/18/91	11/19/91	11/19/91		11/19/91	11/19/91	
EXPLOSIVES	MCL									
DNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
HMX	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
RDX	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
TETRYL	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
TNB	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
TNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
2,4-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled
2,6-DNT	---	0.020U	0.020U	0.020U	0.020U	0.020U	Not Sampled	0.020U	0.020U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16698		16227	16228	16229			16699
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		11/19/91		11/15/91	11/15/91	11/15/91			11/19/91
EXPLOSIVES	MCL									
DNB	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
HMX	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
RDX	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
TETRYL	---	No Sample	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
TNB	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
TNT	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
2,4-DNT	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U
2,6-DNT	---	No Sample	0.020U	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	Not Sampled	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16256	16389		16390	16391	16257	16392	16393	16394
	Date Sampled:	11/13/91	11/14/91		11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	12/31/91	12/31/91		12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012U	0.012U	No Sample	0.012U	<0.012U	0.012U	0.014U	0.012U	0.012U
2,4,5-T	---	0.0020U	0.0020U	No Sample	0.0020U	<0.0020U	0.0020U	0.0023U	0.0020U	0.0020U
2,4,5-TP	0.05(F)	0.0017U	0.00050J	No Sample	0.0017U	0.00065J	0.0017U	0.0020U	0.0017U	0.00052J
Dinoseb	0.007(P)	0.00070U	0.00070U	No Sample	0.00070U	<0.00070U	0.00070U	0.00080U	0.00070U	0.00070U

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16282	16426	16445	16427	16428	16283	16429	16430	16431
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	<0.005U	0.005U	0.005U	0.005U	0.005U
Sulfide	---	0.020U	0.162	0.020U	0.020U	<0.020U	0.020U	0.020U	0.249	0.020U

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16258		16259	16260	16261	16395	16396	16397	16398
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	12/31/91		12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91
HERBICIDES	MCL									
2,4-D	0.07(F)	0.012U	Not Sampled	0.012U	0.012U	0.012U	0.016U	0.012U	0.012U	0.013U
2,4,5-T	---	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	0.0027U	0.0020U	0.0020U	0.0022U
2,4,5-TP	0.05(F)	0.0017U	Not Sampled	0.0017U	0.0017U	0.0017U	0.00077J	0.00051J	0.0017U	0.0019U
Dinoseb	0.007(P)	0.00070U	Not Sampled	0.00070U	0.00070U	0.00070U	0.00096U	0.00070U	0.00070U	0.00078U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16284		16285	16286	16287	16432	16433	16434	16435
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Anal. (Cn):	11/21/91		11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91
	Date Anal. (S):	11/19/91		11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Sulfide	---	0.020U	Not Sampled	0.020U	0.020U	0.020U	0.020U	0.020U	0.023	0.020U

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16399	16262	16263	16264	16265	16400	16401	16402	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	12/31/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	0.017U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	Not Sampled
2,4,5-T	---	0.0028U	0.0020U	0.0020U	0.0020U	0.0020U	0.0019U	0.0020U	0.0020U	Not Sampled
2,4,5-TP	0.05(F)	0.0024U	0.0017U	0.0017U	0.0017U	0.0017U	0.00034J	0.0017U	0.0017U	Not Sampled
Dinoseb	0.007(P)	0.00099U	0.00070U	0.00070U	0.00070U	0.00070U	0.00068U	0.00070U	0.00070U	Not Sampled

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16436	16288	16289	16290	16291	16438	16439	16440	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91	
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91	
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Sulfide	---	0.020U	0.020U	0.020U	0.054	0.020U	0.028	0.020U	0.020U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16404		16405	16741	16742		16744	16745	
	Date Sampled:	11/15/91		11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/31/91		12/31/91	12/31/91	12/31/91		12/31/91	12/31/91	
HERBICIDES	MCL									
2,4-D	0.07(F)	0.014U	No Sample	0.013U	0.012U	0.012U	Not Sampled	0.013U	0.013U	Not Sampled
2,4,5-T	---	0.0023U	No Sample	0.0021U	0.0020U	0.0020U	Not Sampled	0.0022U	0.0022U	Not Sampled
2,4,5-TP	0.05(F)	0.00062J	No Sample	0.0018U	0.0017U	0.0017U	Not Sampled	0.0019U	0.0019U	Not Sampled
Dinoseb	0.007(P)	0.00081U	No Sample	0.00074U	0.00070U	0.00070U	Not Sampled	0.00079U	0.00077U	Not Sampled

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16442	16443	16444	16775	16776		16778	16779	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Anal. (Cn):	11/21/91	11/21/91	11/21/91	11/21/91	11/21/91		11/21/91	11/21/91	
	Date Anal. (S):	11/19/91	11/19/91	11/19/91	11/19/91	11/19/91		11/19/91	11/19/91	
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Sulfide	---	0.020U	0.041	0.020U	0.070	0.020U	Not Sampled	0.093	0.020U	Not Sampled

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:				16266	16267	16268			16747
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/31/91		12/31/91	12/31/91	12/31/91			12/31/91
HERBICIDES	MCL									
2,4-D	0.07	Not Sampled	0.013U	Not Sampled	0.012U	0.012U	0.012U	Not Sampled	Not Sampled	0.013U
2,4,5-T	---	Not Sampled	0.0022U	Not Sampled	0.0020U	0.0020U	0.0020U	Not Sampled	Not Sampled	0.0020U
2,4,5-TP	0.05	Not Sampled	0.00038J	Not Sampled	0.0017U	0.0017U	0.0017U	Not Sampled	Not Sampled	0.0017U
Dinoseb	0.007(P)	Not Sampled	0.00070U	Not Sampled	0.00070U	0.00070U	0.00068U	Not Sampled	Not Sampled	0.00070U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16783	16784		16292	16293	16294			16781
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Anal. (Cn):	11/21/91	11/21/91		11/21/91	11/21/91	11/21/91			11/21/91
	Date Anal. (S):	11/19/91	11/19/91		11/19/91	11/19/91	11/19/91			11/19/91
CYANIDE and SULFIDE	MCL									
Cyanide	0.2(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Sulfide	---	0.083	0.148	Not Sampled	0.020U	0.020U	0.040	Not Sampled	Not Sampled	0.030

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16269	16406	16425	16407	16408	16270	16409	16410	16411
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/14/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/26/91	12/07/91	12/07/91	12/07/91	12/07/91	11/26/91	12/07/91	12/07/91	12/07/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.010U	0.010U	1.14	0.010U	0.614	0.010U	0.010U
Antimony	0.01(P)	0.0159B	0.0030U	0.0194B	0.0128B	0.0113B	0.0120BW	0.0133B	0.0136B	0.0152B
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U
Barium	2.0(F)	0.010U	0.017BN	0.043BN	0.042BN	0.019BN	0.015	0.011BN	0.014BN	0.016BN
Beryllium	0.001(P)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.002B	0.0010U	0.0010U
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U
Calcium	---	0.158B	237	410	179	407	605	549	410	521
Chromium	0.1(F)	0.005BN	0.005U	0.005U	0.005U	0.005U	0.005BN	0.005U	0.005U	0.005U
Cobalt	---	0.010U	0.040B	0.034B	0.013B	0.272	0.033B	0.697	0.042B	0.043B
Copper	1.3(F)	0.020B	0.005U	0.044	0.041	0.005U	0.033	0.032	0.036	0.039
Iron	---	0.010U	0.010U	0.043B	0.010U	0.165	0.443	17.6	0.038B	0.010U
Lead	0.015(F)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Magnesium	---	0.200U	126	122	56.3	140	220	384	165	201
Manganese	---	0.007B	0.025	0.757	0.024	3.53	6.29	13.0	0.034	0.013B
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002	0.0002	0.0002
Nickel	0.1(P)	0.005U	0.007B	0.023	0.005U	0.955	0.038B	1.85	0.012B	0.043
Potassium	---	1.00U	3.36B	5.48	4.77B	6.54	8.75	8.31	4.14B	4.91B
Selenium	0.05(F)	0.0020U	0.009	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0030B	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010UW	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Sodium	---	0.215B	213	37.2	17.2	42.6	57.8	77.0	55.1	62.5
Thallium	0.002(P)	0.0020U	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW
Tin	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vanadium	---	0.010U	0.010U	0.010U	0.011B	0.010U	0.010	0.010U	0.010U	0.010U
Zinc	---	0.005U	0.005U	0.005U	0.005U	0.484	0.015B	1.61	0.005B	0.062

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16271		16272	16273	16274	16412	16413	16414	16415
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/26/91		11/26/91	11/26/91	11/26/91	12/07/91	12/07/91	12/07/91	12/09/91
METALS	MCL									
Aluminum	---	0.010U	Not Sampled	0.010U	0.010U	0.019B	0.010U	0.010U	25.6	0.023B
Antimony	0.01(P)	0.0130B	Not Sampled	0.0192BW	0.0123B	0.0131B	0.0257B	0.0161B	0.0127B	0.0311B
Arsenic	0.05(F)	0.0020U	Not Sampled	0.0030B	0.0020U	0.0020U	0.0043B	0.0020U	0.0020U	0.0217
Barium	2.0(F)	0.012B	Not Sampled	0.010U	0.022B	0.010U	0.017BN	0.040BN	0.010UN	0.028BN
Beryllium	0.001(P)	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.005	0.0010U
Cadmium	0.005(F)	0.004U	Not Sampled	0.004U	0.004U	0.004U	0.004U	0.004U	0.005	0.004U
Calcium	---	60.5	Not Sampled	84.5	136	16.9	8.67	182	214	4.32
Chromium	0.1(F)	0.005UN	Not Sampled	0.005UN	0.005UN	0.005UN	0.005U	0.005U	0.005U	0.011
Cobalt	---	0.022B	Not Sampled	0.031B	0.011B	0.018B	0.029B	0.046B	0.462	0.029B
Copper	1.3(F)	0.005U	Not Sampled	0.033	0.016B	0.025	0.038	0.025	0.031	0.029
Iron	---	0.010U	Not Sampled	0.010U	0.010U	0.347	0.010U	0.010U	5.62	0.010U
Lead	0.015(F)	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0043	0.0042
Magnesium	---	47.8	Not Sampled	64.1	68.6	14.2	13.5	52.0	93.7	0.114B
Manganese	---	0.005B	Not Sampled	0.027	0.297	0.721	0.011B	0.253	1.85	0.005U
Mercury	0.002(F)	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	0.0002	0.0002	0.0002	0.0002
Nickel	0.1(P)	0.005U	Not Sampled	0.008B	0.005U	0.008B	0.005U	0.156	0.985	0.005U
Potassium	---	4.31B	Not Sampled	9.37	6.31	1.17B	48.8	4.33B	5.90	650
Selenium	0.05(F)	0.0022B	Not Sampled	0.0032BW	0.0020U	0.0020U	0.0026B	0.0020U	0.0020U	0.0086
Silver	---	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	0.0010UW	0.0010U	0.0010U	0.0010U
Sodium	---	57.4	Not Sampled	256	21.2	29.0	155	36.1	48.7	247
Thallium	0.002(P)	0.0020UW	Not Sampled	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020U	0.0020UW	0.0020UW
Tin	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vanadium	---	0.010	Not Sampled	0.010	0.010	0.010U	0.010U	0.010U	0.010B	0.011B
Zinc	---	0.005U	Not Sampled	0.005U	0.005U	0.030	0.005U	0.193	1.61	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16416	16275	16276	16277	16278	16418	16419	16420	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/09/91	11/26/91	11/26/91	11/26/91	11/26/91	12/09/91	12/09/91	12/09/91	
METALS	MCL									
Aluminum	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.768	Not Sampled
Antimony	0.01(P)	0.0184B	0.0065B	0.0198B	0.0138B	0.0166B	0.0211B	0.0161B	0.0221B	Not Sampled
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0047B	0.0020U	0.0020U	Not Sampled
Barium	2.0(F)	0.053BN	0.010U	0.013B	0.010U	0.015B	0.038BN	0.079BN	0.012BN	Not Sampled
Beryllium	0.001(P)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U	Not Sampled
Calcium	---	142	303	29.4	250	19.6	46.9	266	261	Not Sampled
Chromium	0.1(F)	0.005U	0.005U	0.005B	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Cobalt	---	0.027B	0.036	0.016B	0.043B	0.028B	0.020B	0.018B	0.167	Not Sampled
Copper	1.3(F)	0.034	0.005U	0.043	0.013B	0.026	0.059	0.031	0.056	Not Sampled
Iron	---	0.010U	0.179	0.010U	0.843	8.22	0.010U	0.010U	3.31	Not Sampled
Lead	0.015(F)	0.001U	0.0010U	0.0016B	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled
Magnesium	---	0.353B	241	32.9	154	15.3	47.8	0.290B	93.8	Not Sampled
Manganese	---	0.009B	2.03	0.013B	1.71	0.946	0.010B	0.007B	2.38	Not Sampled
Mercury	0.002(F)	0.0002	0.0002	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled
Nickel	0.1(P)	0.005U	0.014B	0.005U	0.043	0.011B	0.005U	0.005U	0.524	Not Sampled
Potassium	---	11.4	14.9	10.1	7.88	1.34B	17.0	7.24	4.64B	Not Sampled
Selenium	0.05(F)	0.0086	0.0020U	0.058	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010UW	0.0010UW	0.0010U	Not Sampled
Sodium	---	88.6	129	34.4	65.5	34.8	57.3	19.6	34.3	Not Sampled
Thallium	0.002(P)	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020U	0.0020UW	0.0020UW	Not Sampled
Tin	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled
Vanadium	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.013B	0.010U	Not Sampled
Zinc	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.109	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16422	16423	16424	16757	16758		16760	16761	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/09/91	12/07/91	12/09/91	12/14/91	12/15/91		12/15/91	12/15/91	
METALS	MCL									
Aluminum	---	0.087B	0.010U	0.675	0.0010U	0.318B	Not Sampled	0.010U	0.010U	Not Sampled
Antimony	0.01(P)	0.0148B	0.0174B	0.0055B	0.0180B	0.0138B	Not Sampled	0.0133B	0.0045B	Not Sampled
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	Not Sampled
Barium	2.0(F)	0.022BN	0.032BN	0.010UN	0.037B	0.010B	Not Sampled	0.017B	0.011B	Not Sampled
Beryllium	0.001(P)	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	Not Sampled
Cadmium	0.005(F)	0.004U	0.004U	0.004U	0.004U	0.004U	Not Sampled	0.004U	0.004U	Not Sampled
Calcium	---	144	17.7	58.3	76.2	549	Not Sampled	82.8	396	Not Sampled
Chromium	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Cobalt	---	0.072	0.032	0.046B	0.020B	0.100	Not Sampled	0.024B	0.040B	Not Sampled
Copper	1.3(F)	0.027	0.036	0.005U	0.028	0.005U	Not Sampled	0.039	0.005U	Not Sampled
Iron	---	2.79	0.013	0.274	0.010UN	0.345N	Not Sampled	0.010UN	5.60	Not Sampled
Lead	0.015(F)	0.0010U	0.0010U	0.0010UW	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	Not Sampled
Magnesium	---	31.1	31.5	26.0	34.0	216	Not Sampled	30.5	120	Not Sampled
Manganese	---	0.815	0.014	0.436	0.025	0.911	Not Sampled	0.051	1.51	Not Sampled
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	Not Sampled
Nickel	0.1(P)	0.098	0.005U	0.231	0.005U	0.176	Not Sampled	0.005B	0.067	Not Sampled
Potassium	---	6.52B	41.2	4.59B	8.96	8.81	Not Sampled	7.53	8.52	Not Sampled
Selenium	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	0.0022	Not Sampled	0.0030B	0.0020U	Not Sampled
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	Not Sampled
Sodium	---	26.6	64.2	20.7	57.5	81.8	Not Sampled	106	53.8	Not Sampled
Thallium	0.002(P)	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	Not Sampled
Tin	---	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled
Vanadium	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Zinc	---	0.185	0.005U	0.042	0.007B	0.266	Not Sampled	0.005U	0.006B	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16765	16762		16279	16280	16281			16763
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:	12/15/91	12/15/91		11/26/91	11/26/91	11/26/91			12/15/91
METALS	MCL									
Aluminum	---	0.010U	0.010U	Not Sampled	0.064B	0.010U	0.010U	Not Sampled	Not Sampled	2.14
Antimony	0.01(P)	0.0178B	0.0127B	Not Sampled	0.0166B	0.0201B	0.0128B	Not Sampled	Not Sampled	0.0130B
Arsenic	0.05(F)	0.0020U	0.0020U	Not Sampled	0.0020B	0.0020U	0.0020U	Not Sampled	Not Sampled	0.0020U
Barium	2.0(F)	0.011B	0.010U	Not Sampled	0.014B	0.022B	0.010U	Not Sampled	Not Sampled	0.010U
Beryllium	0.001(P)	0.001U	0.001U	Not Sampled	0.0010U	0.0010U	0.0010U	Not Sampled	Not Sampled	0.006
Cadmium	0.005(F)	0.004U	0.004U	Not Sampled	0.004U	0.004U	0.004U	Not Sampled	Not Sampled	0.004U
Calcium	---	20.5	192	Not Sampled	19.0	7.60	218	Not Sampled	Not Sampled	334
Chromium	0.1(F)	0.005B	0.005U	Not Sampled	0.007B	0.005U	0.005U	Not Sampled	Not Sampled	0.010
Cobalt	---	0.014B	0.044B	Not Sampled	0.031B	0.016B	0.034B	Not Sampled	Not Sampled	0.224
Copper	1.3(F)	0.031	0.029	Not Sampled	0.005U	0.015B	0.021B	Not Sampled	Not Sampled	0.047
Iron	---	0.010U	6.22	Not Sampled	0.032B	0.010U	0.378	Not Sampled	Not Sampled	121.0
Lead	0.015(F)	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0011BW	Not Sampled	Not Sampled	0.0010UW
Magnesium	---	41.7	90.9	Not Sampled	21.4	3.26B	192	Not Sampled	Not Sampled	281
Manganese	---	0.012B	3.24	Not Sampled	0.011B	0.006B	0.490	Not Sampled	Not Sampled	30.1
Mercury	0.002(F)	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	Not Sampled	Not Sampled	0.0002U
Nickel	0.1(P)	0.005U	0.144	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.615
Potassium	---	15.6	7.31	Not Sampled	60.5	38.6	4.08B	Not Sampled	Not Sampled	15.4
Selenium	0.05(F)	0.0020U	0.0020U	Not Sampled	0.0020U	0.0043B	<0.0020U	Not Sampled	Not Sampled	0.0020U
Silver	---	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	0.0010U	Not Sampled	Not Sampled	0.0010U
Sodium	---	39.4	20.9	Not Sampled	137	43.2	153	Not Sampled	Not Sampled	21.8
Thallium	0.002(P)	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020UW	Not Sampled	Not Sampled	0.0020U
Tin	---	0.050U	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	Not Sampled	0.050U
Vanadium	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Zinc	---	0.005U	0.021	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.396

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16243	16372			16374	16244	16375	16376	16377
	Date Sampled:	11/13/91	11/14/91			11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	12/18/91	12/10/91			12/10/91	12/19/91	12/10/91	12/10/91	12/10/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000030U	0.000029	No Sample	No Sample	0.000041U	0.000030U	0.000030U	0.000030U	0.000030U
a-CHLORDANE	0.002(F)	0.000050U	0.00005U	No Sample	No Sample	0.000068U	0.000050U	0.000050U	0.000050U	0.000050U
A-Endosulfan	---	0.00014U	0.00014U	No Sample	No Sample	0.00019U	0.00014U	0.00014U	0.00014U	0.00014U
Aldrin	---	0.000040U	0.000038	No Sample	No Sample	0.000054U	0.000040U	0.000040U	0.000040U	0.000040U
B-BHC	---	0.000060U	0.000057	No Sample	No Sample	0.000059U	0.000060U	0.000059U	0.000059U	0.000059U
B-Endosulfan	---	0.000040U	0.000040	No Sample	No Sample	0.000054U	0.000040U	0.000040U	0.000040U	0.000040U
D-BHC	---	0.000090U	0.000086	No Sample	No Sample	0.00012U	0.000090U	0.000089U	0.000089U	0.000089U
Dieldrin	---	0.000020U	0.000020	No Sample	No Sample	0.000027U	0.000020U	0.000020U	0.000020U	0.000020U
Disulfoton	---	0.00070U	0.0007U	No Sample	No Sample	0.00095U	0.00070U	0.00070U	0.00070U	0.00070U
Endosulfan sulfate	---	0.00066U	0.00063U	No Sample	No Sample	0.00089U	0.00066U	0.00065U	0.00065U	0.00065U
Endrin	0.002(F)	0.000060U	0.000057	No Sample	No Sample	0.000081U	0.000060U	0.000059U	0.000059U	0.000059U
Endrin Aldehyde	---	0.00023U	0.00022U	No Sample	No Sample	0.00031U	0.00023U	0.00023U	0.00023U	0.00023U
Ethyl Parathion	---	0.00060U	0.00060U	No Sample	No Sample	0.00081U	0.00060U	0.00060U	0.00060U	0.00060U
Famphur	---	0.0012U	0.00012U	No Sample	No Sample	0.0016U	0.0012U	0.0012U	0.0012U	0.0012U
G-BHC	---	0.000040U	0.000038	No Sample	No Sample	0.000054U	0.000040U	0.000040U	0.000040U	0.000040U
g-CHLORDANE	0.002(F)	0.000050U	0.00005U	No Sample	No Sample	0.000068U	0.000050U	0.000050U	0.000050U	0.000050U
Heptachlor	0.0004(F)	0.000030U	0.000030	No Sample	No Sample	0.000041U	0.000030U	0.000030U	0.000030U	0.000030U
Heptachlor Epoxide	0.0002(F)	0.00083U	0.00079U	No Sample	No Sample	0.0011U	0.00083U	0.00082U	0.00082U	0.00082U
KEPONE	---	0.0060U	0.0060U	No Sample	No Sample	0.00081U	0.0060U	0.0060U	0.0060U	0.0060U
Methoxychlor	0.04(F)	0.0018U	0.0017U	No Sample	No Sample	0.0024U	0.0018U	0.0017U	0.0017U	0.0017U
Methyl Parathion	---	0.0012U	0.0012U	No Sample	No Sample	0.0016U	0.0012U	0.0012U	0.0012U	0.0012U
PCB-1016	0.0005(F)	0.0007U	0.0007U	No Sample	No Sample	0.0009U	0.0007U	0.0006U	0.0006U	0.0006U
PCB-1221	0.0005(F)	0.0007U	0.0007U	No Sample	No Sample	0.0009U	0.0007U	0.0006U	0.0006U	0.0006U
PCB-1232	0.0005(F)	0.0007U	0.0007U	No Sample	No Sample	0.0009U	0.0007U	0.0006U	0.0006U	0.0006U
PCB-1242	0.0005(F)	0.0007U	0.0007U	No Sample	No Sample	0.0009U	0.0007U	0.0006U	0.0006U	0.0006U
PCB-1248	0.0005(F)	0.0007U	0.0007U	No Sample	No Sample	0.0009U	0.0007U	0.0006U	0.0006U	0.0006U
PCB-1254	0.0005(F)	0.0013U	0.0013U	No Sample	No Sample	0.0018U	0.0013U	0.0013U	0.0013U	0.0013U
PCB-1260	0.0005(F)	0.0013U	0.0013U	No Sample	No Sample	0.0018U	0.0013U	0.0013U	0.0013U	0.0013U
Phorate	---	0.00040U	0.0004U	No Sample	No Sample	0.00054U	0.00040U	0.00040U	0.00040U	0.00040U
PPDDD	---	0.00011U	0.00010U	No Sample	No Sample	0.00015U	0.00011U	0.00011U	0.00011U	0.00011U
PPDDE	---	0.000040U	0.000040	No Sample	No Sample	0.000054U	0.000040U	0.000040U	0.000040U	0.000040U
PPDDT	---	0.00012U	0.00011U	No Sample	No Sample	0.00016U	0.00012U	0.00012U	0.00012U	0.00012U
Toxaphene	0.003(F)	0.0024U	0.0024U	No Sample	No Sample	0.0032U	0.0024U	0.0024U	0.0024U	0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16245		16246	16247	16248	16378	16379	16380	16381
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	12/19/91		12/19/91	12/19/91	12/19/91	12/10/91	12/10/91	12/10/91	12/19/91
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000030U	Not Sampled	0.000030U	0.000030U	0.000030U	0.000037U	0.000030U	0.000032U	0.000030U
a-CHLORDANE	0.002(F)	0.000050U	Not Sampled	0.000050U	0.000050U	0.000050U	0.000061U	0.000051U	0.000054U	0.000050U
A-Endosulfan	---	0.00014U	Not Sampled	0.00014U	0.00014U	0.00014U	0.00017U	0.00014U	0.00014U	0.00014U
Aldrin	---	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	0.000049U	0.000040U	0.000043U	0.000040U
B-BHC	---	0.000060U	Not Sampled	0.000060U	0.000060U	0.000060U	0.000073U	0.000061U	0.000065U	0.000060U
B-Endosulfan	---	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	0.000049U	0.000040U	0.000040U	0.000040U
D-BHC	---	0.000090U	Not Sampled	0.000090U	0.000090U	0.000090U	0.00011U	0.000091U	0.000097U	0.000090U
Dieldrin	---	0.000020U	Not Sampled	0.000020U	0.000020U	0.000020U	0.000024U	0.000020U	0.000020U	0.000020U
Disulfoton	---	0.00070U	Not Sampled	0.00070U	0.00070U	0.00070U	0.00085U	0.00070U	0.00070U	0.00070U
Endosulfan sulfate	---	0.00066U	Not Sampled	0.00066U	0.00066U	0.00066U	0.00080U	0.00067U	0.00071U	0.00066U
Endrin	0.002(P)	0.000060U	Not Sampled	0.000060U	0.000060U	0.000060U	0.000073U	0.000061U	0.000065U	0.000060U
Endrin Aldehyde	---	0.00023U	Not Sampled	0.00023U	0.00023U	0.00023U	0.00028U	0.00023U	0.00025U	0.00023U
Ethyl Parathion	---	0.00060U	Not Sampled	0.00060U	0.00060U	0.00060U	0.00073U	0.00060U	0.00060U	0.00060U
Famphur	---	0.0012U	Not Sampled	0.0012U	0.0012U	0.0012U	0.0015U	0.0012U	0.0012U	0.0012U
G-BHC	---	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	0.000049U	0.000040U	0.000043U	0.000040U
g-CHLORDANE	0.002(F)	0.000050U	Not Sampled	0.000050U	0.000050U	0.000050U	0.000061U	0.000051U	0.000054U	0.000021BJ
Heptachlor	0.0004(F)	0.000030U	Not Sampled	0.000030U	0.000030U	0.000030U	0.000037U	0.000030U	0.000030U	0.000030U
Heptachlor Epoxide	0.0002(F)	0.00083U	Not Sampled	0.00083U	0.00083U	0.00083U	0.0010U	0.00084U	0.00089U	0.00083U
KEPONE	---	0.0060U	Not Sampled	0.0060U	0.0060U	0.0060U	0.0073U	0.0061U	0.0065U	0.0060U
Methoxychlor	0.04(F)	0.0018U	Not Sampled	0.0018U	0.0018U	0.0018U	0.0021U	0.0018U	0.0019U	0.0018U
Methyl Parathion	---	0.0012U	Not Sampled	0.0012U	0.0012U	0.0012U	0.0015U	0.0012U	0.0012U	0.0012U
PCB-1016	0.0005(F)	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	0.0008U	0.0007U	0.0007U	0.0007U
PCB-1221	0.0005(F)	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	0.0008U	0.0007U	0.0007U	0.0007U
PCB-1232	0.0005(F)	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	0.0008U	0.0007U	0.0007U	0.0007U
PCB-1242	0.0005(F)	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	0.0008U	0.0007U	0.0007U	0.0007U
PCB-1248	0.0005(F)	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	0.0008U	0.0007U	0.0007U	0.0007U
PCB-1254	0.0005(F)	0.0013U	Not Sampled	0.0013U	0.0013U	0.0013U	0.0016U	0.0013U	0.0013U	0.0013BJ
PCB-1260	0.0005(F)	0.0013U	Not Sampled	0.0013U	0.0013U	0.0013U	0.0016U	0.0013U	0.0013U	0.0013U
Phorate	---	0.00040U	Not Sampled	0.00040U	0.00040U	0.00040U	0.00049U	0.00040U	0.00040U	0.00040U
PPDDD	---	0.00011U	Not Sampled	0.00011U	0.00011U	0.00011U	0.00013U	0.00011U	0.00012U	0.00011U
PPDDE	---	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	0.000049U	0.000040U	0.000040U	0.000040U
PPDDT	---	0.00012U	Not Sampled	0.00012U	0.00012U	0.00012U	0.00015U	0.00012U	0.00012U	0.00012U
Toxaphene	0.003(F)	0.0024U	Not Sampled	0.0024U	0.0024U	0.0024U	0.0029U	0.0024U	0.0024U	0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16382	16249	16250	16251	16252	16383	16384	16385	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	12/19/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000030U	0.000030U	0.000030U	0.000030U	0.000030U	0.000030U	0.000030U	0.000030U	Not Sampled
a-CHLORDANE	0.002(F)	0.000050U	0.000050U	0.000050U	0.000050U	0.000056U	0.000050U	0.000050U	0.000050U	Not Sampled
A-Endosulfan	---	0.00014U	0.00014U	0.00014U	0.00014U	0.00016U	0.00014U	0.00014U	0.00014U	Not Sampled
Aldrin	---	0.000040U	0.000006J	0.000040U	0.000040U	0.000044U	0.000040U	0.000040U	0.000040U	Not Sampled
B-BHC	---	0.000060U	0.000060U	0.000060U	0.000060U	0.000067U	0.000060U	0.000060U	0.000060U	Not Sampled
B-Endosulfan	---	0.000040U	0.000040U	0.000040U	0.000040U	0.000044U	0.000040U	0.000040U	0.000040U	Not Sampled
D-BHC	---	0.000090U	0.000090U	0.000090U	0.000090U	0.000010U	0.000090U	0.000090U	0.000090U	Not Sampled
Dieldrin	---	0.000020U	0.000020U	0.000020U	0.000020U	0.000022U	0.000020U	0.000020U	0.000020U	Not Sampled
Disulfoton	---	0.00070U	0.00070U	0.00070U	0.00070U	0.00077U	0.00070U	0.00070U	0.00070U	Not Sampled
Endosulfan sulfate	---	0.00066U	0.00066U	0.00066U	0.00066U	0.00073U	0.00066U	0.00066U	0.00066U	Not Sampled
Endrin	0.002(P)	0.000060U	0.000060U	0.000060U	0.000060U	0.000067U	0.000060U	0.000060U	0.000060U	Not Sampled
Endrin Aldehyde	---	0.00023U	0.00023U	0.00023U	0.00023U	0.00026U	0.00023U	0.00023U	0.00023U	Not Sampled
Ethyl Parathion	---	0.00060U	0.00060U	0.00060U	0.00060U	0.00066U	0.00060U	0.00060U	0.00060U	Not Sampled
Famphur	---	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U	0.0012U	0.0012U	0.0012U	Not Sampled
G-BHC	---	0.000040U	0.000040U	0.000040U	0.000040U	0.000044U	0.000040U	0.000040U	0.000040U	Not Sampled
g-CHLORDANE	0.002(F)	0.000021BJ	0.000050U	0.000050U	0.000050U	0.000056U	0.000021BJ	0.000021BJ	0.000021BJ	Not Sampled
Heptachlor	0.0004(F)	0.000030U	0.000030U	0.000030U	0.000030U	0.000033U	0.000030U	0.000030U	0.000030U	Not Sampled
Heptachlor Epoxide	0.0002(F)	0.00083U	0.00083U	0.00083U	0.00083U	0.00092U	0.00083U	0.00083U	0.00083U	Not Sampled
KEPONE	---	0.0060U	0.0060U	0.0060U	0.0060U	0.0067U	0.0060U	0.0060U	0.0060U	Not Sampled
Methoxychlor	0.04(F)	0.0018U	0.0018U	0.0018U	0.0018U	0.0020U	0.0018U	0.0018U	0.0018U	Not Sampled
Methyl Parathion	---	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U	0.0012U	0.0012U	0.0012U	Not Sampled
PCB-1016	0.0005(F)	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	Not Sampled
PCB-1221	0.0005(F)	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	Not Sampled
PCB-1232	0.0005(F)	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	Not Sampled
PCB-1242	0.0005(F)	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	Not Sampled
PCB-1248	0.0005(F)	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	0.0007U	Not Sampled
PCB-1254	0.0005(F)	0.0012BJ	0.0013U	0.0013U	0.0013U	0.0014U	0.0011BJ	0.00076BJ	0.00078BJ	Not Sampled
PCB-1260	0.0005(F)	0.0013U	0.0013U	0.0013U	0.0013U	0.0014U	0.0013U	0.0013U	0.0013U	Not Sampled
Phorate	---	0.00040U	0.00040U	0.00040U	0.00040U	0.00044U	0.00040U	0.00040U	0.00040U	Not Sampled
PPDDD	---	0.00011U	0.00011U	0.00011U	0.00011U	0.00012U	0.00011U	0.00011U	0.00011U	Not Sampled
PPDDE	---	0.000040U	0.000040U	0.000040U	0.000040U	0.000044U	0.000040U	0.000040U	0.000040U	Not Sampled
PPDDT	---	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	0.00012U	Not Sampled
Toxaphene	0.003(F)	0.0024U	0.0024U	0.0024U	0.0024U	0.0027U	0.0024U	0.0024U	0.0024U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16387		16388	16725	16726		16728	16729	
	Date Sampled:	11/15/91		11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	12/19/91		12/19/91	12/16/91	12/16/91		12/16/91	12/16/91	
PESTICIDES/PCBs	MCL									
A-BHC	---	0.000030U	No Sample	0.000030U	0.000030U	0.000030U	Not Sampled	0.000030U	0.000030U	Not Sampled
a-CHLORDANE	0.002(F)	0.000050U	No Sample	0.000050U	0.000050U	0.000050U	Not Sampled	0.000050U	0.000050U	Not Sampled
A-Endosulfan	---	0.00014U	No Sample	0.00014U	0.00014U	0.00014U	Not Sampled	0.00014U	0.00014U	Not Sampled
Aldrin	---	0.000040U	No Sample	0.000040U	0.000040U	0.000040U	Not Sampled	0.000040U	0.000040U	Not Sampled
B-BHC	---	0.000060U	No Sample	0.000060U	0.000060U	0.000060U	Not Sampled	0.000060U	0.000065U	Not Sampled
B-Endosulfan	---	0.000040U	No Sample	0.000040U	0.000040U	0.000040U	Not Sampled	0.000040U	0.000040U	Not Sampled
D-BHC	---	0.000090U	No Sample	0.000090U	0.000090U	0.000090U	Not Sampled	0.000090U	0.000097U	Not Sampled
Dieldrin	---	0.000020U	No Sample	0.000020U	0.000020U	0.000020U	Not Sampled	0.000020U	0.000020U	Not Sampled
Disulfoton	---	0.00070U	No Sample	0.00070U	0.00070U	0.00070U	Not Sampled	0.00070U	0.00070U	Not Sampled
Endosulfan sulfate	---	0.00066U	No Sample	0.00066U	0.00066U	0.00066U	Not Sampled	0.00066U	0.00071U	Not Sampled
Endrin	0.002(P)	0.000060U	No Sample	0.000060U	0.000060U	0.000060U	Not Sampled	0.000060U	0.000065U	Not Sampled
Endrin Aldehyde	---	0.00023U	No Sample	0.00023U	0.00023U	0.00023U	Not Sampled	0.00023U	0.00025U	Not Sampled
Ethyl Parathion	---	0.00060U	No Sample	0.00060U	0.00060U	0.00060U	Not Sampled	0.00060U	0.00060U	Not Sampled
Famphur	---	0.0012U	No Sample	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012U	0.0012U	Not Sampled
G-BHC	---	0.000040U	No Sample	0.000040U	0.000040U	0.000040U	Not Sampled	0.000040U	0.000040U	Not Sampled
g-CHLORDANE	0.002(F)	0.000021BJ	No Sample	0.000021BJ	0.000050U	0.000050U	Not Sampled	0.000050U	0.000050U	Not Sampled
Heptachlor	0.0004(F)	0.000030U	No Sample	0.000030U	0.000030U	0.000030U	Not Sampled	0.000030U	0.000030U	Not Sampled
Heptachlor Epoxide	0.0002(F)	0.00083U	No Sample	0.00083U	0.00083U	0.00083U	Not Sampled	0.00083U	0.00089U	Not Sampled
KEPONE	---	0.0060U	No Sample	0.0060U	0.0060U	0.0060U	Not Sampled	0.0060U	0.0060U	Not Sampled
Methoxychlor	0.04(F)	0.0018U	No Sample	0.0018U	0.0018U	0.0018U	Not Sampled	0.0018U	0.0018U	Not Sampled
Methyl Parathion	---	0.0012U	No Sample	0.0012U	0.0012U	0.0012U	Not Sampled	0.0012U	0.0012U	Not Sampled
PCB-1016	0.0005(F)	0.0007U	No Sample	0.0007U	0.0007U	0.0007U	Not Sampled	0.0007U	0.0007U	Not Sampled
PCB-1221	0.0005(F)	0.0007U	No Sample	0.0007U	0.0007U	0.0007U	Not Sampled	0.0007U	0.0007U	Not Sampled
PCB-1232	0.0005(F)	0.0007U	No Sample	0.0007U	0.0007U	0.0007U	Not Sampled	0.0007U	0.0007U	Not Sampled
PCB-1242	0.0005(F)	0.0007U	No Sample	0.0007U	0.0007U	0.0007U	Not Sampled	0.0007U	0.0007U	Not Sampled
PCB-1248	0.0005(F)	0.0007U	No Sample	0.0007U	0.0007U	0.0007U	Not Sampled	0.0007U	0.0007U	Not Sampled
PCB-1254	0.0005(F)	0.0013U	No Sample	0.0013U	0.0013U	0.00020J	Not Sampled	0.0013U	0.0013U	Not Sampled
PCB-1260	0.0005(F)	0.0013U	No Sample	0.0013U	0.0013U	0.0013U	Not Sampled	0.0013U	0.0013U	Not Sampled
Phorate	---	0.00040U	No Sample	0.00040U	0.00040U	0.00040U	Not Sampled	0.00040U	0.00040U	Not Sampled
PPDDD	---	0.00011U	No Sample	0.00011U	0.00011U	0.00011U	Not Sampled	0.00011U	0.00011U	Not Sampled
PPDDE	---	0.000040U	No Sample	0.000040U	0.000040U	0.000040U	Not Sampled	0.000040U	0.000040U	Not Sampled
PPDDT	---	0.00012U	No Sample	0.00012U	0.00012U	0.00012U	Not Sampled	0.00012U	0.00012U	Not Sampled
Toxaphene	0.003(F)	0.0024U	No Sample	0.0024U	0.0024U	0.0024U	Not Sampled	0.0024U	0.0024U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:		16730		16254	16255	16256			16731
	Date Sampled:		11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:		12/16/91		12/19/91	12/19/91	12/19/91			12/16/91
PESTICIDES/PCBs	MCL									
A-BHC	---	No Sample	0.000030U	Not Sampled	0.000030U	0.000030U	0.000030U	Not Sampled	Not Sampled	0.000030U
a-CHLORDANE	0.002(F)	No Sample	0.000050U	Not Sampled	0.000050U	0.000050U	0.000050U	Not Sampled	Not Sampled	0.000050U
A-Endosulfan	---	No Sample	0.00014U	Not Sampled	0.00014U	0.00014U	0.00014U	Not Sampled	Not Sampled	0.00014U
Aldrin	---	No Sample	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	Not Sampled	Not Sampled	0.000040U
B-BHC	---	No Sample	0.000060U	Not Sampled	0.000060U	0.000060U	0.000060U	Not Sampled	Not Sampled	0.000060U
B-Endosulfan	---	No Sample	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	Not Sampled	Not Sampled	0.000040U
D-BHC	---	No Sample	0.000090U	Not Sampled	0.000090U	0.000090U	0.000090U	Not Sampled	Not Sampled	0.000090U
Dieldrin	---	No Sample	0.000020U	Not Sampled	0.000020U	0.000020U	0.000020U	Not Sampled	Not Sampled	0.000020U
Disulfoton	---	No Sample	0.00070U	Not Sampled	0.00070U	0.00070U	0.00070U	Not Sampled	Not Sampled	0.00070U
Endosulfan sulfate	---	No Sample	0.00066U	Not Sampled	0.00066U	0.00066U	0.00066U	Not Sampled	Not Sampled	0.00066U
Endrin	0.002(P)	No Sample	0.000060U	Not Sampled	0.000060U	0.000060U	0.000060U	Not Sampled	Not Sampled	0.000060U
Endrin Aldehyde	---	No Sample	0.00023U	Not Sampled	0.00023U	0.00023U	0.00023U	Not Sampled	Not Sampled	0.00023U
Ethyl Parathion	---	No Sample	0.00060U	Not Sampled	0.00060U	0.00060U	0.00060U	Not Sampled	Not Sampled	0.00060U
Famphur	---	No Sample	0.0012U	Not Sampled	0.0012U	0.0012U	0.0012U	Not Sampled	Not Sampled	0.0012U
G-BHC	---	No Sample	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	Not Sampled	Not Sampled	0.000040U
g-CHLORDANE	0.002(F)	No Sample	0.000050U	Not Sampled	0.000050U	0.000050U	0.000050U	Not Sampled	Not Sampled	0.000050U
Heptachlor	0.0004(F)	No Sample	0.000030U	Not Sampled	0.000030U	0.000030U	0.000030U	Not Sampled	Not Sampled	0.000030U
Heptachlor Epoxide	0.0002(F)	No Sample	0.00083U	Not Sampled	0.00083U	0.00083U	0.00083U	Not Sampled	Not Sampled	0.00083U
KEPONE	---	No Sample	0.0060U	Not Sampled	0.0060U	0.0060U	0.0060U	Not Sampled	Not Sampled	0.0060U
Methoxychlor	0.04(F)	No Sample	0.0018U	Not Sampled	0.0018U	0.0018U	0.0018U	Not Sampled	Not Sampled	0.0018U
Methyl Parathion	---	No Sample	0.0012U	Not Sampled	0.0012U	0.0012U	0.0012U	Not Sampled	Not Sampled	0.0012U
PCB-1016	0.0005(F)	No Sample	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	Not Sampled	Not Sampled	0.0007U
PCB-1221	0.0005(F)	No Sample	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	Not Sampled	Not Sampled	0.0007U
PCB-1232	0.0005(F)	No Sample	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	Not Sampled	Not Sampled	0.0007U
PCB-1242	0.0005(F)	No Sample	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	Not Sampled	Not Sampled	0.0007U
PCB-1248	0.0005(F)	No Sample	0.0007U	Not Sampled	0.0007U	0.0007U	0.0007U	Not Sampled	Not Sampled	0.0007U
PCB-1254	0.0005(F)	No Sample	0.0013U	Not Sampled	0.0013U	0.0013U	0.0013U	Not Sampled	Not Sampled	0.0013U
PCB-1260	0.0005(F)	No Sample	0.0013U	Not Sampled	0.0013U	0.0013U	0.0013U	Not Sampled	Not Sampled	0.0013U
Phorate	---	No Sample	0.00040U	Not Sampled	0.00040U	0.00040U	0.00040U	Not Sampled	Not Sampled	0.00040U
PPDDD	---	No Sample	0.00011U	Not Sampled	0.00011U	0.00011U	0.00011U	Not Sampled	Not Sampled	0.00011U
PPDDE	---	No Sample	0.000040U	Not Sampled	0.000040U	0.000040U	0.000040U	Not Sampled	Not Sampled	0.000040U
PPDDT	---	No Sample	0.00012U	Not Sampled	0.00012U	0.00012U	0.00012U	Not Sampled	Not Sampled	0.00012U
Toxaphene	0.003(F)	No Sample	0.0024U	Not Sampled	0.0024U	0.0024U	0.0024U	Not Sampled	Not Sampled	0.0024U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	FB3	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08
	Lab Sample No:	16295	16296	16461	16446	16447	16297	16448	16449	16450
	Date Sampled:	11/13/91	11/14/91	11/15/91	11/15/91	11/14/91	11/14/91	11/15/91	11/15/91	11/15/91
	Date Analyzed:	11/15/91	11/19/91	11/21/91	11/19/91	11/19/91	11/15/91	11/19/91	11/19/91	11/19/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.0047BJ	0.019BJ	0.003BJ	0.006BJ	0.012BJ	0.045BJ	0.013BJ	0.004BJ	0.010BJ
Benzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Methylene Chloride	0.005(P)	0.014B	0.012B	0.028B	0.005B	0.004BJ	0.009B	0.004BJ	0.004BJ	0.003BJ
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	0.004J	0.004J	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	0.002J	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C09	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12
	Lab Sample No:	16298		16299	16300	16301	16451	16452	16453	16302
	Date Sampled:	11/14/91		11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91
	Date Analyzed:	11/15/91		11/15/91	11/15/91	11/15/91	11/19/91	11/20/91	11/20/91	11/18/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.041BJ	Not Sampled	0.023BJ	0.009BJ	0.008BJ	0.005BJ	0.022BJ	0.029BJ	0.038BJ
Benzene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromodichloromethane	0.1(L)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromoform	0.1(L)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Bromomethane	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Carbondisulfide	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chlorobenzene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloroethane	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Chloroform	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Chloromethane	---	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
cis-1,2-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
cis-1,3-Dichloropropene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Dibromochloromethane	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Ethylbenzene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.001J	0.005U
Methylene Chloride	0.005(P)	0.013B	Not Sampled	0.014B	0.013B	0.008B	0.007B	0.012B	0.013B	0.007B
Styrene	0.1(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Tetrachloroethene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Toluene	1(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,2-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trans-1,3-Dichloropropene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Trichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
T-Xylene	10(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.002J	0.004J	0.002J
Vinyl Acetate	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
Vinyl Chloride	0.002(F)	0.010U	Not Sampled	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
1,1-Dichloroethane	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1-Dichloroethene	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
2-Butanone	---	0.10U	Not Sampled	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
2-Hexanone	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
4-Methyl-2-Pentanone	---	0.005U	Not Sampled	0.005U	0.005U	0.005U	0.004J	0.002J	0.005U	0.005U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C12P2	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15
	Lab Sample No:	16303	16304	16306	16307	16308	16454	16455	16456	
	Date Sampled:	11/14/91	11/14/91	11/13/91	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	
	Date Analyzed:	11/18/91	11/18/91	11/18/91	11/18/91	11/18/91	11/20/91	11/20/91	11/20/91	
VOLATILE ORGANICS	MCL									
Acetone	---	0.012BJ	0.001BJ	0.10	0.005BJ	0.005BJ	0.024BJ	0.039BJ	0.014BJ	Not Sampled
Benzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
Chloroform	---	0.005U	0.005U	0.001J	0.005U	0.005U	0.001U	0.005U	0.001U	Not Sampled
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Methylene Chloride	0.005(P)	0.006B	0.006B	0.004BJ	0.007B	0.008B	0.012B	0.010B	0.010B	Not Sampled
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
T-Xylene	10(F)	0.002J	0.002J	0.002J	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	Not Sampled
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C15P2	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3
	Lab Sample No:	16458	16459	16460	16793	16794		16796	16797	
	Date Sampled:	11/15/91	11/15/91	11/15/91	11/15/91	11/15/91		11/15/91	11/15/91	
	Date Analyzed:	11/20/91	11/20/91	11/21/91	11/22/91	11/22/91		11/22/91	11/22/91	
VOLATILE ORGANICS	MCL									
Acetone	---	0.051BJ	0.015BJ	0.021BJ	0.003BJ	0.028BJ	Not Sampled	0.004BJ	0.002BJ	Not Sampled
Benzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Bromodichloromethane	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Bromoform	0.1(L)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Bromomethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Carbondisulfide	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Chlorobenzene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Chloroethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
Chloroform	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Chloromethane	---	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
cis-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
cis-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Dibromochloromethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Ethylbenzene	---	0.005U	0.005U	0.005U	0.005U	0.001J	Not Sampled	0.005U	0.005U	Not Sampled
Methylene Chloride	0.005(P)	0.012B	0.011B	0.028B	0.012B	0.013B	Not Sampled	0.011B	0.008B	Not Sampled
Styrene	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Tetrachloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Toluene	1(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Trans-1,2-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Trans-1,3-Dichloropropene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Trichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
T-Xylene	10(F)	0.007	0.005U	0.005U	0.005U	0.004J	Not Sampled	0.005U	0.007	Not Sampled
Vinyl Acetate	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
Vinyl Chloride	0.002(F)	0.010U	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled
1,1-Dichloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,1-Dichloroethene	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
2-Butanone	---	0.10U	0.10U	0.10U	0.10U	0.10U	Not Sampled	0.10U	0.10U	Not Sampled
2-Hexanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled
4-Methyl-2-Pentanone	---	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 3 Groundwater Samples
Concentrations in mg/l

Analyte	Well No:	02C19	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample No:	16801	16798		16309	16310	16311			16799
	Date Sampled:	11/15/91	11/15/91		11/13/91	11/13/91	11/13/91			11/15/91
	Date Analyzed:	11/22/91	11/22/91		11/18/91	11/18/91	11/18/91			11/22/91
VOLATILE ORGANICS	MCL									
Acetone	---	0.006BJ	0.003BJ	Not Sampled	0.008BJ	0.007BJ	0.009BJ	Not Sampled	Not Sampled	0.003BJ
Benzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Bromodichloromethane	0.1(L)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Bromoform	0.1(L)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Bromomethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Carbon Tetrachloride	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Carbondisulfide	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Chlorobenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Chloroethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
Chloroform	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Chloromethane	---	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
cis-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
cis-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Dibromochloromethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Ethylbenzene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Methylene Chloride	0.005(P)	0.004BJ	0.006B	Not Sampled	0.007B	0.007B	0.005B	Not Sampled	Not Sampled	0.002BJ
Styrene	0.1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Tetrachloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Toluene	1(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Trans-1,2-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Trans-1,3-Dichloropropene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Trichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
T-Xylene	10(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Vinyl Acetate	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
Vinyl Chloride	0.002(F)	0.010U	0.010U	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	Not Sampled	0.010U
1,1-Dichloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,1-Dichloroethene	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,1,1-Trichloroethane	0.2(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,1,2-Trichloroethane	0.005(P)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,1,2,2-Tetrachloroethane	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,2-Dichloroethane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
1,2-Dichloropropane	0.005(F)	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
2-Butanone	---	0.10U	0.10U	Not Sampled	0.10U	0.10U	0.10U	Not Sampled	Not Sampled	0.10U
2-Hexanone	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U
4-Methyl-2-Pentanone	---	0.005U	0.005U	Not Sampled	0.005U	0.005U	0.005U	Not Sampled	Not Sampled	0.005U

IN5 170 023 498

Round 4

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples - Rinsate Blanks
Concentrations in mg/l

Analyte	Blank No:	FB	R1	R2	R3
	Lab Sample No:	19187	19469	19484	19495
	Date Sampled:	03/27/92	03/28/92	03/28/92	03/30/92
	Date Analyzed:	04/25/91	04/24/92	04/24/92	04/22/92
NUTRIENTS	MCL				
Nitrite-Nitrogen	---	0.006	0.010	<0.005	0.012
Nitrate-Nitrogen	---	0.037	<0.020U	<0.020U	<0.020U

Analyte	Blank No:	FB	R1	R2	R3
	Lab Sample:	19169	19427	19442	19453
	Date Sampled:	03/27/92	03/28/92	03/29/92	03/30/92
	Date Analyzed:	06/11/92	07/15/92	07/16/92	09/01/92
METALS	MCL				
Aluminum	---	<0.020U	<0.030UN	<0.030U	<0.030UN
Antimony	0.01(P)	<0.0030U	<0.0030U	<0.0030U	<0.0030U
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Barium	2.0(F)	<0.010U	<0.020U	<0.020U	<0.020U
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U
Cadmium	0.005(F)	<0.00020U	<0.00020U	0.00028B	<0.00020U
Calcium	---	<0.200U	<0.100U	<0.100U	<0.100U
Chromium	0.1(F)	<0.005U	<0.005U	0.005B	<0.005U
Cobalt	---	<0.020U	<0.020U	<0.020U	<0.020U
Copper	1.3(F)	0.013B	0.136	0.054	0.166
Iron	---	<0.020U	<0.040U	<0.040U	<0.040U
Lead	0.015(F)	<0.0010U	<0.0010U	0.0012B	<0.0010U
Magnesium	---	<0.100U	<0.100U	<0.100U	<0.100U
Manganese	---	<0.005U	<0.005U	<0.005U	<0.005U
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	<0.006U	<0.005U	<0.005U	<0.005U
Potassium	---	<0.200U	3.31B	1.44B	3.49
Selenium	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010UW
Sodium	---	<0.100U	1.76B	0.877B	1.33B
Thallium	0.002(P)	<0.0020U	<0.0020UW	<0.0020U	<0.0020UW
Tin	---	<0.060U	<0.050U	<0.050U	<0.050U
Vanadium	---	<0.010U	<0.010U	<0.010U	<0.010U
Zinc	---	<0.010U	<0.010U	<0.010U	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02C09
	Lab Sample:	19443	19454	19455	19456	19428	19444	19445	19446	19429
	Date Sampled:	03/29/92	03/30/92	03/30/92	03/30/92	03/28/92	03/29/92	03/29/92	03/29/92	03/28/92
	Date Analyzed:	07/16/92	09/01/92	09/01/92	09/01/92	07/15/92	07/16/92	07/16/92	07/16/92	07/15/92
METALS	MCL									
Aluminum	---	<0.030U	<0.030UN	<0.030UN	<0.030UN	<0.030UN	0.206	<0.030UN	<0.030UN	<0.030UN
Antimony	0.01(P)	<0.0030U	<0.0030U	<0.0030U	<0.0030U	<0.0030U	<0.0030U	<0.0030U	<0.0030U	<0.0030U
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Barium	2.0(F)	<0.020U	0.031B	0.052B	0.020B	0.022	<0.020U	<0.020U	<0.020U	<0.020U
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	0.001B	<0.001U	<0.001U	<0.001U
Cadmium	0.005(F)	<0.00020U	0.00040B	0.00028B	0.00222B	<0.00020U	0.00456B	<0.00020U	0.00048B	0.00326B
Calcium	---	199	287	190	418	569	570	284	498	57.8
Chromium	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	0.005B	0.008B	<0.005U	<0.005U	0.006B
Cobalt	---	<0.020U	0.030B	0.037B	0.284	0.028B	0.510	0.028B	0.028B	<0.020U
Copper	1.3(F)	<0.005U	0.014B	<0.005U	<0.005U	0.059	0.064	<0.005U	0.037	0.051
Iron	---	<0.040U	<0.040U	<0.040U	0.295	0.462	9.56	0.044B	0.056B	<0.040U
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010U	0.0011B	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Magnesium	---	113	89.5	59.9	123	224	325	142	163	47.4
Manganese	---	<0.005U	0.164	0.019	3.61	6.22	12.4	<0.005U	0.090	0.005B
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	<0.005U	0.013B	0.005B	1.00	0.050	1.43	0.006B	0.047	0.024B
Potassium	---	2.87B	4.87B	4.24B	5.74	11.2	10.4	3.98B	5.71	4.82B
Selenium	0.05(F)	0.0107	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	0.0052	0.0021B	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U
Sodium	---	205	40.5	19.5	41.5	58.3	73.1	62.3	63.8	60.4
Thallium	0.002(P)	<0.0020UW	<0.0020UW	<0.0020U	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vanadium	---	<0.010U	<0.010U	<0.010U	<0.010U	0.023B	<0.010U	<0.010U	<0.010U	0.019B
Zinc	---	<0.010U	<0.010U	<0.010U	0.585	<0.010U	1.14	<0.010U	0.092	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2
	Lab Sample:		19430	19431	19432	19457	19458	19459	19433	19434
	Date Sampled:		03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/28/92	03/28/92
	Date Analyzed:		07/15/92	07/15/92	07/15/92	09/01/91	09/01/91	09/01/91	07/15/92	07/15/92
METALS	MCL									
Aluminum	---	Not Sampled	<0.030UN	<0.030UN	<0.030UN	<0.030UN	<0.030UN	23.1	<0.030UN	0.087BN
Antimony	0.01(P)	Not Sampled	0.0036B	<0.0030U	<0.0030U	<0.0030UW	<0.0030U	<0.0030U	<0.0030U	<0.0030U
Arsenic	0.05(F)	Not Sampled	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U	<0.0020U
Barium	2.0(F)	Not Sampled	<0.020U	0.027B	<0.020U	0.037B	0.038B	<0.020U	<0.020U	0.046B
Beryllium	0.001(P)	Not Sampled	<0.001U	<0.001U	<0.001U	<0.001U	0.001B	0.006	<0.001U	<0.001U
Cadmium	0.005(F)	Not Sampled	<0.00020U	<0.00020U	0.00049B	0.00029B	0.00226B	0.00933	<0.00020U	<0.00020U
Calcium	---	Not Sampled	88.7	132	17.1	19.9	172	183	287	131
Chromium	0.1(F)	Not Sampled	<0.005	<0.005	0.006B	<0.005	<0.005	<0.005	0.013	0.008B
Cobalt	---	Not Sampled	<0.020U	<0.020U	<0.020U	0.046B	0.075	0.493	0.024B	0.021B
Copper	1.3(F)	Not Sampled	0.027	0.039	0.016B	0.036	<0.005U	<0.005U	0.005B	0.230
Iron	---	Not Sampled	<0.040U	0.412	0.843	<0.040U	0.385	5.44	0.241	<0.040U
Lead	0.015(F)	Not Sampled	<0.0010U	<0.0010U	<0.0010U	0.0011B	<0.0010U	0.0028B	<0.0010U	0.0021B
Magnesium	---	Not Sampled	88.3	80.7	14.4	28.1	45.6	82.3	230	1.21B
Manganese	---	Not Sampled	0.020	0.193	0.621	<0.005U	0.366	2.04	1.38	<0.005U
Mercury	0.002(F)	Not Sampled	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U
Nickel	0.1(P)	Not Sampled	0.046	<0.005U	0.018B	0.007B	0.299	1.02	0.034B	0.016B
Potassium	---	Not Sampled	8.39	7.42	1.22B	66.1	7.30	5.41	26.1	14.2
Selenium	0.05(F)	Not Sampled	0.0039BW	<0.0020U	<0.0020U	0.0067	<0.0020U	<0.0020UW	<0.0020U	0.0091
Silver	---	Not Sampled	<0.0010UW	<0.0010U	<0.0010U	<0.0010UW	<0.0010U	<0.0010U	<0.0010U	<0.0010UW
Sodium	---	Not Sampled	24B	18.3	30.0	177	38.9	49.7	138	84.4
Thallium	0.002(P)	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW
Tin	---	Not Sampled	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U
Vanadium	---	Not Sampled	<0.010U	<0.010U	0.018B	<0.010U	<0.010U	<0.010U	0.019B	0.017B
Zinc	---	Not Sampled	<0.010U	<0.010U	0.022	<0.010U	0.428	1.79	0.011B	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2
	Lab Sample:	19435	19436	19437	19438	19460	19461	19462		19463
	Date Sampled:	03/28/92	03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92		03/30/92
	Date Analyzed:	07/16/92	07/16/92	07/16/92	07/16/92	09/01/92	09/01/92	09/01/92		09/01/92
METALS	MCL									
Aluminum	---	<0.030U	<0.030U	<0.030U	<0.030U	<0.020UN	<0.020UN	0.824	Not Sampled	1.26
Antimony	0.01(P)	0.0053BW	<0.0030U	<0.0030U	<0.0030U	<0.0030UW	<0.0030U	<0.0030U	Not Sampled	<0.0030U
Arsenic	0.05(F)	0.0061B	<0.0020U	<0.0020U	<0.0020U	0.0031B	<0.0020U	<0.0020U	Not Sampled	<0.0020U
Barium	2.0(F)	<0.020U	0.022B	<0.020U	<0.020U	0.060B	0.084B	<0.020U	Not Sampled	0.024B
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	<0.001U	0.001B	Not Sampled	0.003B
Cadmium	0.005(F)	<0.00020U	<0.00020U	<0.00020U	0.00027B	<0.00020U	<0.00020U	0.00037B	Not Sampled	0.00308B
Calcium	---	2.26B	30.2	260	12.2	37.3	<0.100U	281	Not Sampled	128
Chromium	0.1(F)	0.021	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U
Cobalt	---	<0.020U	<0.020U	<0.020U	<0.020U	0.046B	0.044B	0.196	Not Sampled	0.160
Copper	1.3(F)	0.032	<0.005U	<0.005U	<0.005U	<0.005U	0.031	<0.005U	Not Sampled	0.006B
Iron	---	<0.040U	<0.040U	0.275	0.189	<0.040U	<0.040U	4.86	Not Sampled	7.63
Lead	0.015(F)	0.0012B	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U
Magnesium	---	1.70B	32.6	155	8.48	43.7	0.142B	108	Not Sampled	31.3
Manganese	---	<0.005U	0.006B	1.54	0.183	0.013B	<0.005U	2.61	Not Sampled	0.961
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U
Nickel	0.1(P)	0.013B	0.013B	0.047	0.013B	<0.005U	<0.005U	0.545	Not Sampled	0.211
Potassium	---	21B	11.3	8.3	0.923B	27.4	6.76	4.06B	Not Sampled	6.03
Selenium	0.05(F)	<0.0040U	0.0546	<0.0020U	<0.0020U	<0.0020UW	<0.0020U	<0.0020U	Not Sampled	<0.0020U
Silver	---	<0.0010U	<0.0010U	<0.0010U	<0.0010U	<0.0010UW	<0.0010U	<0.0010U	Not Sampled	<0.0010U
Sodium	---	213	42.4	67.2	38.3	63.0	19.2	35.1	Not Sampled	32.1
Thallium	0.002(P)	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	Not Sampled	<0.0020UW
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U
Vanadium	---	0.016B	<0.010U	0.011B	<0.010U	<0.010U	0.011B	<0.010U	Not Sampled	<0.010U
Zinc	---	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	<0.010U	0.103	Not Sampled	0.489

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19
	Lab Sample:	19465	19466	19447	19448		19449	19450		19451
	Date Sampled:	03/30/92	03/30/92	03/29/92	03/29/92		03/29/92	03/29/92		03/29/92
	Date Analyzed:	09/01/92	09/01/92	07/16/92	07/16/92		07/16/92	07/16/92		07/16/92
METALS	MCL									
Aluminum	---	<0.030U	0.727	<0.030U	0.833N	Not Sampled	<0.030U	<0.030U	Not Sampled	<0.030U
Antimony	0.01(P)	<0.0030UW	<0.0030UW	<0.0030U	<0.0030U	Not Sampled	<0.0030U	<0.0030U	Not Sampled	0.0033B
Arsenic	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U	Not Sampled	<0.0020U
Barium	2.0(F)	0.046B	<0.020U	0.033B	<0.020U	Not Sampled	0.020B	<0.020U	Not Sampled	0.038B
Beryllium	0.001(P)	<0.001U	<0.001U	<0.001U	0.001B	Not Sampled	<0.001U	<0.001U	Not Sampled	<0.001U
Cadmium	0.005(F)	0.00108B	0.00151B	0.00082B	0.00484B	Not Sampled	<0.00020U	<0.00020U	Not Sampled	<0.00020U
Calcium	---	25.8	56.8	81.9	472	Not Sampled	91.1	360	Not Sampled	50.7
Chromium	0.1(F)	<0.005U	<0.005U	<0.005U	<0.005U	Not Sampled	<0.005U	<0.005U	Not Sampled	0.006B
Cobalt	---	0.051	0.066	0.025B	0.115	Not Sampled	0.039B	0.054	Not Sampled	0.032B
Copper	1.3(F)	0.090	0.012B	0.053	<0.005U	Not Sampled	0.065	0.033	Not Sampled	0.059
Iron	---	<0.040U	0.061B	<0.040U	0.427	Not Sampled	<0.040U	4.71	Not Sampled	0.061B
Lead	0.015(F)	<0.0010U	<0.0010U	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U	Not Sampled	<0.0010U
Magnesium	---	55.6	24.8	34.2	183	Not Sampled	31.2	118	Not Sampled	106
Manganese	---	0.009B	0.410	0.021	0.710	Not Sampled	0.033	1.59	Not Sampled	0.011B
Mercury	0.002(F)	<0.0002U	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U	Not Sampled	<0.0002U
Nickel	0.1(P)	0.002B	0.242	0.013B	0.196	Not Sampled	0.005B	0.104	Not Sampled	<0.005U
Potassium	---	39.8	3.28B	6.64	6.93	Not Sampled	7.72	8.43	Not Sampled	20.1
Selenium	0.05(F)	<0.0020U	<0.0020U	<0.0020U	<0.0020U	Not Sampled	0.0051	<0.0020U	Not Sampled	<0.0020U
Silver	---	<0.0010UW	<0.0010UW	<0.0010UW	<0.0010U	Not Sampled	<0.0010UW	<0.0010U	Not Sampled	<0.0010U
Sodium	---	75.9	19.6	52.2	80.5	Not Sampled	85.4	54.8	Not Sampled	78.6
Thallium	0.002(P)	<0.0020UW	<0.0020UW	<0.0020UW	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW	Not Sampled	<0.0020UW
Tin	---	<0.050U	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U	Not Sampled	<0.050U
Vanadium	---	<0.010U	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U	Not Sampled	<0.010U
Zinc	---	0.035	0.069	0.036	0.344	Not Sampled	<0.010U	0.010B	Not Sampled	<0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample:	19452		19439	19440	19441		19467	19468
	Date Sampled:	03/29/92		03/28/92	03/28/92	03/28/92		03/30/91	03/30/91
	Date Analyzed:	07/16/92		07/16/92	07/16/92	07/16/92		09/01/92	09/01/92
METALS	MCL								
Aluminum	---	<0.030U	Not Sampled	<0.030U	<0.030U	<0.030U	Not Sampled	<0.030U	2.04
Antimony	0.01(P)	<0.0030U	Not Sampled	<0.0030U	<0.0030U	<0.0030U	Not Sampled	<0.0030UW	<0.0030U
Arsenic	0.05(F)	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Barium	2.0(F)	<0.020U	Not Sampled	0.031B	0.037B	<0.020U	Not Sampled	0.029B	<0.020U
Beryllium	0.001(P)	<0.001U	Not Sampled	<0.001U	<0.001U	<0.001U	Not Sampled	<0.001U	0.002B
Cadmium	0.005(F)	0.00181BW	Not Sampled	<0.00020U	<0.00020U	<0.00020U	Not Sampled	0.00037B	0.00134B
Calcium	---	166	Not Sampled	39.7	8.36	213	Not Sampled	22.4	302
Chromium	0.1(F)	<0.005U	Not Sampled	0.005B	0.007B	0.011	Not Sampled	<0.005U	<0.005U
Cobalt	---	0.064	Not Sampled	<0.020U	<0.020U	<0.020U	Not Sampled	0.041B	0.239
Copper	1.3(F)	<0.005U	Not Sampled	0.172	0.019B	0.013B	Not Sampled	0.017B	0.073
Iron	---	7.84	Not Sampled	<0.040U	<0.040U	0.449	Not Sampled	<0.010U	120
Lead	0.015(F)	<0.0010U	Not Sampled	0.0018B	<0.0010U	<0.0010U	Not Sampled	<0.0010U	0.0092
Magnesium	---	76.4	Not Sampled	35.8	9.39	168	Not Sampled	15.0	301
Manganese	---	3.27	Not Sampled	0.020	<0.005B	0.525	Not Sampled	0.012B	28.0
Mercury	0.002(F)	<0.0002U	Not Sampled	<0.0002U	<0.0002U	<0.0002U	Not Sampled	<0.0002U	<0.0002U
Nickel	0.1(P)	0.127	Not Sampled	0.022B	0.019B	0.005B	Not Sampled	<0.005U	0.565
Potassium	---	6.72	Not Sampled	66.0	39.7	4.05B	Not Sampled	7.31	14.4
Selenium	0.05(F)	<0.0020U	Not Sampled	<0.0020U	<0.0020U	<0.0020U	Not Sampled	<0.0020U	<0.0020U
Silver	---	<0.0010U	Not Sampled	<0.0010UW	<0.0010U	<0.0010U	Not Sampled	<0.0010U	<0.0010U
Sodium	---	22.1	Not Sampled	159	55.6	155	Not Sampled	3.28B	22.1
Thallium	0.002(P)	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW	<0.0020UW	Not Sampled	<0.0020UW	<0.0020UW
Tin	---	<0.050U	Not Sampled	<0.050U	<0.050U	<0.050U	Not Sampled	<0.050U	<0.050U
Vanadium	---	<0.010U	Not Sampled	0.021B	<0.010U	<0.010U	Not Sampled	<0.010U	<0.010U
Zinc	---	0.012B	Not Sampled	<0.010U	<0.010U	<0.010U	Not Sampled	<0.010U	0.397

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02C09
	Lab Sample:	19485	19496	19497	19498	19470	19486	19487	19488	19471
	Date Sampled:	03/29/92	03/30/92	03/30/92	03/30/92	03/28/92	03/29/92	03/29/92	03/29/92	03/28/92
	Date Analyzed:	04/24/92	04/22/92	04/22/92	04/22/92	04/24/92	04/24/92	04/24/92	04/24/92	04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	0.008	0.008	0.009	0.008	0.006	0.005	0.005	0.009	0.008
Nitrate-Nitrogen	---	0.669	0.175	<0.020U	<0.020U	<0.020U	0.096	0.238	0.154	0.096

Analyte	Well No:	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2
	Lab Sample:		19472	19473	19474	19499	19500	19501	19475	19476
	Date Sampled:		03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/28/92	03/28/92
	Date Analyzed:		04/24/92	04/24/92	04/24/92	04/22/92	04/22/92	04/22/92	04/24/92	04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	Not Sampled	0.005	0.014	0.009	0.009	0.012	0.006	0.006	0.046
Nitrate-Nitrogen	---	Not Sampled	0.291	0.150	0.044	0.884	<0.020U	0.029	<0.020U	0.250

Analyte	Well No:	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2
	Lab Sample:	19477	19478	19479	19480	19502	19503	19504	19508	19505
	Date Sampled:	03/28/92	03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/30/92	03/30/92
	Date Analyzed:	04/24/92	04/24/92	04/24/92	04/24/92	04/22/92	04/22/92	04/22/92	04/22/92	04/22/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	0.060	<0.005	0.009	<0.005	0.021	0.021	<0.005U	<0.005U	0.007
Nitrate-Nitrogen	---	0.837	4.06	<0.020U	0.187	<0.020U	<0.020U	<0.020U	0.023	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19
	Lab Sample:	19507	19508	19489	19490		19491	19492		19493
	Date Sampled:	03/30/92	03/30/92	03/29/92	03/29/92		03/29/92	03/29/92		03/29/92
	Date Analyzed:	04/22/92	04/22/92	04/24/92	04/24/92		04/24/92	04/24/92		04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	<0.005U	0.007	0.014	0.010	Not Sampled	0.031	0.006	Not Sampled	0.012
Nitrate-Nitrogen	---	2.42	0.031	0.044	0.123	Not Sampled	10.6	<0.020U	Not Sampled	1.17

Analyte	Well No:	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample:	19494		19481	19482	19483		19509	19510
	Date Sampled:	03/29/92		03/28/92	03/28/92	03/28/92		03/30/92	03/30/92
	Date Analyzed:	04/24/92		04/24/92	04/24/92	04/24/92		04/22/92	04/22/92
NUTRIENTS	MCL								
Nitrite-Nitrogen	---	0.009	Not Sampled	0.016	0.106	0.007	Not Sampled	0.005	0.017
Nitrate-Nitrogen	---	<0.020U	Not Sampled	2.87	0.677	<0.020U	Not Sampled	<0.020U	<0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples - Rinsate Blanks
Concentrations in mg/l

Analyte	Blank No:	FB	R1	R2	R3
	Lab Sample No:	19187	19469	19484	19495
	Date Sampled:	03/27/92	03/28/92	03/28/92	03/30/92
	Date Analyzed:	04/25/91	04/24/92	04/24/92	04/22/92
NUTRIENTS	MCL				
Nitrite-Nitrogen	---	0.006	0.010	0.005U	0.012
Nitrate-Nitrogen	---	0.037	0.020U	0.020U	0.020U

Analyte	Blank No:	FB	R1	R2	R3
	Lab Sample:	19169	19427	19442	19453
	Date Sampled:	03/27/92	03/28/92	03/29/92	03/30/92
	Date Analyzed:	06/11/92	07/15/92	07/16/92	09/01/92
METALS	MCL				
Aluminum	---	0.020U	0.030UN	0.030U	0.030UN
Antimony	0.01(P)	0.0030U	0.0030U	0.0030U	0.0030U
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U
Barium	2.0(F)	0.010U	0.020U	0.020U	0.020U
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U
Cadmium	0.005(F)	0.00020U	0.00020U	0.00028B	0.00020U
Calcium	---	0.200U	0.100U	0.100U	0.100U
Chromium	0.1(F)	0.005U	0.005U	0.005B	0.005U
Cobalt	---	0.020U	0.020U	0.020U	0.020U
Copper	1.3(F)	0.013B	0.136	0.054	0.166
Iron	---	0.020U	0.040U	0.040U	0.040U
Lead	0.015(F)	0.0010U	0.0010U	0.0012B	0.0010U
Magnesium	---	0.100U	0.100U	0.100U	0.100U
Manganese	---	0.005U	0.005U	0.005U	0.005U
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	0.006U	0.005U	0.005U	0.005U
Potassium	---	0.200U	3.31B	1.44B	3.49
Selenium	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010UW
Sodium	---	0.100U	1.76B	0.877B	1.33B
Thallium	0.002(P)	0.0020U	0.0020UW	0.0020U	0.0020UW
Tin	---	0.060U	0.050U	0.050U	0.050U
Vanadium	---	0.010U	0.010U	0.010U	0.010U
Zinc	---	0.010U	0.010U	0.010U	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02C09
	Lab Sample:	19443	19454	19455	19456	19428	19444	19445	19446	19429
	Date Sampled:	03/29/92	03/30/92	03/30/92	03/30/92	03/28/92	03/29/92	03/29/92	03/29/92	03/28/92
	Date Analyzed:	07/16/92	09/01/92	09/01/92	09/01/92	07/15/92	07/16/92	07/16/92	07/16/92	07/15/92
METALS	MCL									
Aluminum	---	0.030U	0.030UN	0.030UN	0.030UN	0.030UN	0.206	0.030UN	0.030UN	0.030UN
Antimony	0.01(P)	0.0030U	0.0030U	0.0030U	0.0030U	0.0030U	0.0030U	0.0030U	0.0030U	0.0030U
Arsenic	*0.05(F)*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*	*0.0020U*
Barium	2.0(F)	0.020U	0.031B	0.052B	0.020B	0.022	0.020U	0.020U	0.020U	0.020U
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U	0.001U	0.001B	0.001U	0.001U	0.001U
Cadmium	0.005(F)	0.00020U	0.00040B	0.00028B	0.00222B	0.00020U	0.00456B	0.00020U	0.00048B	0.00326B
Calcium	---	199	287	190	418	569	570	284	498	57.8
Chromium	0.1(F)	0.005U	0.005U	0.005U	0.005U	0.005B	0.008B	0.005U	0.005U	0.006B
Cobalt	---	0.020U	0.030B	0.037B	0.284	0.028B	0.510	0.028B	0.028B	0.020U
Copper	1.3(F)	0.005U	0.014B	0.005U	0.005U	0.059	0.064	0.005U	0.037	0.051
Iron	---	0.040U	0.040U	0.040U	0.295	0.462	8.55	0.044B	0.056B	0.040U
Lead	0.015(F)	0.0010U	0.0010U	0.0010U	0.0011B	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Magnesium	---	113	89.5	59.9	123	224	325	142	163	47.4
Manganese	---	0.005U	0.164	0.019	3.61	6.22	2.4	0.005U	0.090	0.005B
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	0.005U	0.013B	0.005B	1.00	0.050	1.43	0.006B	0.047	0.024B
Potassium	---	2.87B	4.87B	4.24B	5.74	11.2	10.4	3.98B	5.71	4.82B
Selenium	0.05(F)	0.0107	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0052	0.0021B	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Sodium	---	205	40.5	19.5	41.5	58.3	73.1	62.3	63.8	60.4
Thallium	0.002(P)	0.0020UW	0.0020UW	0.0020U	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW
Tin	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vanadium	---	0.010U	0.010U	0.010U	0.010U	0.023B	0.010U	0.010U	0.010U	0.019B
Zinc	---	0.010U	0.010U	0.010U	0.585	0.010U	1.14	0.010U	0.092	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2
	Lab Sample:		19430	19431	19432	19457	19458	19459	19433	19434
	Date Sampled:		03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/28/92	03/28/92
	Date Analyzed:		07/15/92	07/15/92	07/15/92	09/01/91	09/01/91	09/01/91	07/15/92	07/15/92
METALS	MCL									
Aluminum	---	Not Sampled	0.030UN	0.030UN	0.030UN	0.030UN	0.030UN	23.1	0.030UN	0.087BN
Antimony	0.01(P)	Not Sampled	0.0036B	0.0030U	0.0030U	0.0030UW	0.0030U	0.0030U	0.0030U	0.0030U
Arsenic	0.05(F)	Not Sampled	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U	0.0020U
Barium	2.0(F)	Not Sampled	0.020U	0.027B	0.020U	0.037B	0.038B	0.020U	0.020U	0.046B
Beryllium	0.001(P)	Not Sampled	0.001U	0.001U	0.001U	0.001U	0.001B	0.006	0.001U	0.001U
Cadmium	0.005(F)	Not Sampled	0.00020U	0.00020U	0.00049B	0.00029B	0.00226B	0.00933	0.00020U	0.00020U
Calcium	---	Not Sampled	88.7	132	17.1	19.9	172	183	287	131
Chromium	0.1(F)	Not Sampled	0.005	0.005	0.006B	0.005	0.005	0.005	0.013	0.008B
Cobalt	---	Not Sampled	0.020U	0.020U	0.020U	0.046B	0.075	0.493	0.024B	0.021B
Copper	1.3(F)	Not Sampled	0.027	0.039	0.016B	0.036	0.005U	0.005U	0.005B	0.230
Iron	---	Not Sampled	0.040U	0.412	0.843	0.040U	0.385	5.44	0.241	0.040U
Lead	0.015(F)	Not Sampled	0.0010U	0.0010U	0.0010U	0.0011B	0.0010U	0.0028B	0.0010U	0.0021B
Magnesium	---	Not Sampled	68.3	60.7	14.4	28.1	45.6	82.3	230	1.21B
Manganese	---	Not Sampled	0.020	0.193	0.621	0.005U	0.366	2.04	1.38	0.005U
Mercury	0.002(F)	Not Sampled	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U
Nickel	0.1(P)	Not Sampled	0.046	0.005U	0.018B	0.007B	0.299	1.02	0.034B	0.016B
Potassium	---	Not Sampled	8.39	7.42	1.22B	66.1	7.30	5.41	26.1	14.2
Selenium	0.05(F)	Not Sampled	0.0039BW	0.0020U	0.0020U	0.0067	0.0020U	0.0020UW	0.0020U	0.0091
Silver	---	Not Sampled	0.0010UW	0.0010U	0.0010U	0.0010UW	0.0010U	0.0010U	0.0010U	0.0010UW
Sodium	---	Not Sampled	248	18.3	30.0	177	38.9	49.7	138	84.4
Thallium	0.002(P)	Not Sampled	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW
Tin	---	Not Sampled	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U
Vanadium	---	Not Sampled	0.010U	0.010U	0.018B	0.010U	0.010U	0.010U	0.019B	0.017B
Zinc	---	Not Sampled	0.010U	0.010U	0.022	0.010U	0.428	1.79	0.011B	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2
	Lab Sample:	19435	19436	19437	19438	19460	19461	19462		19463
	Date Sampled:	03/28/92	03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92		03/30/92
	Date Analyzed:	07/16/92	07/16/92	07/16/92	07/16/92	09/01/92	09/01/92	09/01/92		09/01/92
METALS	MCL									
Aluminum	---	0.030U	0.030U	0.030U	0.030U	0.020UN	0.020UN	0.824	Not Sampled	1.26
Antimony	0.01(P)	0.0053BW	0.0030U	0.0030U	0.0030U	0.0030UW	0.0030U	0.0030U	Not Sampled	0.0030U
Arsenic	0.05(F)	0.0061B	0.0020U	0.0020U	0.0020U	0.0031B	0.0020U	0.0020U	Not Sampled	0.0020U
Barium	2.0(F)	0.020U	0.022B	0.020U	0.020U	0.060B	0.084B	0.020U	Not Sampled	0.024B
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001B	Not Sampled	0.003B
Cadmium	0.005(F)	0.00020U	0.00020U	0.00020U	0.00027B	0.00020U	0.00020U	0.00037B	Not Sampled	0.00308B
Calcium	---	2.26B	30.2	260	12.2	37.3	0.100U	281	Not Sampled	128
Chromium	0.1(F)	0.021	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U
Cobalt	---	0.020U	0.020U	0.020U	0.020U	0.046B	0.044B	0.196	Not Sampled	0.160
Copper	1.3(F)	0.032	0.005U	0.005U	0.005U	0.005U	0.031	0.005U	Not Sampled	0.006B
Iron	---	0.040U	0.040U	0.275	0.189	0.040U	0.040U	4.86	Not Sampled	7.63
Lead	0.015(F)	0.0012B	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U
Magnesium	---	1.70B	32.6	155	8.48	43.7	0.142B	108	Not Sampled	31.3
Manganese	---	0.005U	0.006B	1.54	0.183	0.013B	0.005U	2.61	Not Sampled	0.961
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U
Nickel	0.1(P)	0.013B	0.013B	0.047	0.013B	0.005U	0.005U	0.545	Not Sampled	0.211
Potassium	---	218	11.3	8.3	0.923B	27.4	6.76	4.06B	Not Sampled	6.03
Selenium	0.05(F)	0.0040U	0.0546	0.0020U	0.0020U	0.0020UW	0.0020U	0.0020U	Not Sampled	0.0020U
Silver	---	0.0010U	0.0010U	0.0010U	0.0010U	0.0010UW	0.0010U	0.0010U	Not Sampled	0.0010U
Sodium	---	213	42.4	67.2	38.3	63.0	19.2	35.1	Not Sampled	32.1
Thallium	0.002(P)	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	0.0020UW	Not Sampled	0.0020UW
Tin	---	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U
Vanadium	---	0.016B	0.010U	0.011B	0.010U	0.010U	0.011B	0.010U	Not Sampled	0.010U
Zinc	---	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.103	Not Sampled	0.489

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19
	Lab Sample:	19465	19466	19447	19448		19449	19450		19451
	Date Sampled:	03/30/92	03/30/92	03/29/92	03/29/92		03/29/92	03/29/92		03/29/92
	Date Analyzed:	09/01/92	09/01/92	07/16/92	07/16/92		07/16/92	07/16/92		07/16/92
METALS	MCL									
Aluminum	---	0.030U	0.727	0.030U	0.833N	Not Sampled	0.030U	0.030U	Not Sampled	0.030U
Antimony	0.01(P)	0.0030UW	0.0030UW	0.0030U	0.0030U	Not Sampled	0.0030U	0.0030U	Not Sampled	0.0033B
Arsenic	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U	Not Sampled	0.0020U
Barium	2.0(F)	0.046B	0.020U	0.033B	0.020U	Not Sampled	0.020B	0.020U	Not Sampled	0.038B
Beryllium	0.001(P)	0.001U	0.001U	0.001U	0.001B	Not Sampled	0.001U	0.001U	Not Sampled	0.001U
Cadmium	0.005(F)	0.00108B	0.00151B	0.00082B	0.00484B	Not Sampled	0.00020U	0.00020U	Not Sampled	0.00020U
Calcium	---	25.8	56.8	81.9	472	Not Sampled	91.1	360	Not Sampled	50.7
Chromium	0.1(F)	0.005U	0.005U	0.005U	0.005U	Not Sampled	0.005U	0.005U	Not Sampled	0.006B
Cobalt	---	0.051	0.066	0.025B	0.115	Not Sampled	0.039B	0.054	Not Sampled	0.032B
Copper	1.3(F)	0.090	0.012B	0.053	0.005U	Not Sampled	0.065	0.033	Not Sampled	0.059
Iron	---	0.040U	0.051B	0.040U	0.427	Not Sampled	0.040U	4.71	Not Sampled	0.061B
Lead	0.015(F)	0.0010U	0.0010U	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U	Not Sampled	0.0010U
Magnesium	---	55.6	24.8	34.2	183	Not Sampled	31.2	118	Not Sampled	106
Manganese	---	0.009B	0.410	0.021	0.710	Not Sampled	0.033	1.59	Not Sampled	0.011B
Mercury	0.002(F)	0.0002U	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U	Not Sampled	0.0002U
Nickel	0.1(P)	0.002B	0.242	0.013B	0.196	Not Sampled	0.005B	0.104	Not Sampled	0.005U
Potassium	---	39.8	3.28B	6.64	6.93	Not Sampled	7.72	8.43	Not Sampled	20.1
Selenium	0.05(F)	0.0020U	0.0020U	0.0020U	0.0020U	Not Sampled	0.0051	0.0020U	Not Sampled	0.0020U
Silver	---	0.0010UW	0.0010UW	0.0010UW	0.0010U	Not Sampled	0.0010UW	0.0010U	Not Sampled	0.0010U
Sodium	---	75.9	19.6	52.2	80.5	Not Sampled	85.4	54.8	Not Sampled	78.6
Thallium	0.002(P)	0.0020UW	0.0020UW	0.0020UW	0.0020UW	Not Sampled	0.0020UW	0.0020UW	Not Sampled	0.0020UW
Tin	---	0.050U	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U	Not Sampled	0.050U
Vanadium	---	0.010U	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.010U	Not Sampled	0.010U
Zinc	---	0.035	0.069	0.036	0.344	Not Sampled	0.010U	0.010B	Not Sampled	0.010U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample:	19452		19439	19440	19441		19467	19468
	Date Sampled:	03/29/92		03/28/92	03/28/92	03/28/92		03/30/91	03/30/91
	Date Analyzed:	07/16/92		07/16/92	07/16/92	07/16/92		09/01/92	09/01/92
METALS	MCL								
Aluminum	---	0.030U	Not Sampled	0.030U	0.030U	0.030U	Not Sampled	0.030U	2.04
Antimony	0.01(P)	0.0030U	Not Sampled	0.0030U	0.0030U	0.0030U	Not Sampled	0.0030UW	0.0030U
Arsenic	0.05(F)	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Barium	2.0(F)	0.020U	Not Sampled	0.031B	0.037B	0.020U	Not Sampled	0.029B	0.020U
Beryllium	0.001(P)	0.001U	Not Sampled	0.001U	0.001U	0.001U	Not Sampled	0.001U	0.002B
Cadmium	0.005(F)	0.00181BW	Not Sampled	0.00020U	0.00020U	0.00020U	Not Sampled	0.00037B	0.001348
Calcium	---	166	Not Sampled	39.7	8.36	213	Not Sampled	22.4	302
Chromium	0.1(F)	0.005U	Not Sampled	0.005B	0.007B	0.011	Not Sampled	0.005U	0.005U
Cobalt	---	0.064	Not Sampled	0.020U	0.020U	0.020U	Not Sampled	0.041B	0.239
Copper	1.3(F)	0.005U	Not Sampled	0.172	0.019B	0.013B	Not Sampled	0.017B	0.073
Iron	---	7.84	Not Sampled	0.040U	0.040U	0.449	Not Sampled	0.010U	120
Lead	0.015(F)	0.0010U	Not Sampled	0.0018B	0.0010U	0.0010U	Not Sampled	0.0010U	0.0092
Magnesium	---	76.4	Not Sampled	35.8	9.39	168	Not Sampled	15.0	301
Manganese	---	3.27	Not Sampled	0.020	0.005B	0.525	Not Sampled	0.012B	28.0
Mercury	0.002(F)	0.0002U	Not Sampled	0.0002U	0.0002U	0.0002U	Not Sampled	0.0002U	0.0002U
Nickel	0.1(P)	0.127	Not Sampled	0.022B	0.019B	0.005B	Not Sampled	0.005U	0.565
Potassium	---	6.72	Not Sampled	66.0	39.7	4.05B	Not Sampled	7.31	14.4
Selenium	0.05(F)	0.0020U	Not Sampled	0.0020U	0.0020U	0.0020U	Not Sampled	0.0020U	0.0020U
Silver	---	0.0010U	Not Sampled	0.0010UW	0.0010U	0.0010U	Not Sampled	0.0010U	0.0010U
Sodium	---	22.1	Not Sampled	159	55.6	155	Not Sampled	3.28B	22.1
Thallium	0.002(P)	0.0020UW	Not Sampled	0.0020UW	0.0020UW	0.0020UW	Not Sampled	0.0020UW	0.0020UW
Tin	---	0.050U	Not Sampled	0.050U	0.050U	0.050U	Not Sampled	0.050U	0.050U
Vanadium	---	0.010U	Not Sampled	0.021B	0.010U	0.010U	Not Sampled	0.010U	0.010U
Zinc	---	0.012B	Not Sampled	0.010U	0.010U	0.010U	Not Sampled	0.010U	0.397

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02C09
	Lab Sample:	19485	19496	19497	19498	19470	19486	19487	19488	19471
	Date Sampled:	03/29/92	03/30/92	03/30/92	03/30/92	03/28/92	03/29/92	03/29/92	03/29/92	03/28/92
	Date Analyzed:	04/24/92	04/22/92	04/22/92	04/22/92	04/24/92	04/24/92	04/24/92	04/24/92	04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	0.008	0.008	0.009	0.008	0.006	0.005	0.005	0.009	0.008
Nitrate-Nitrogen	---	0.669	0.175	0.020U	0.020U	0.020U	0.096	0.238	0.154	0.096

Analyte	Well No:	02C09P2	02C10	02C10P2	02C10P3	02C11	02C11P2	02C11P3	02C12	02C12P2
	Lab Sample:		19472	19473	19474	19499	19500	19501	19475	19476
	Date Sampled:		03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/28/92	03/28/92
	Date Analyzed:		04/24/92	04/24/92	04/24/92	04/22/92	04/22/92	04/22/92	04/24/92	04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	Not Sampled	0.005	0.014	0.009	0.009	0.012	0.006	0.006	0.046
Nitrate-Nitrogen	---	Not Sampled	0.291	0.150	0.044	0.884	0.020U	0.029	0.020U	0.250

Analyte	Well No:	02C12P3	02C13	02C13P2	02C13P3	02C14	02C14P2	02C14P3	02C15	02C15P2
	Lab Sample:	19477	19478	19479	19480	19502	19503	19504	19508	19505
	Date Sampled:	03/28/92	03/28/92	03/28/92	03/28/92	03/30/92	03/30/92	03/30/92	03/30/92	03/30/92
	Date Analyzed:	04/24/92	04/24/92	04/24/92	04/24/92	04/22/92	04/22/92	04/22/92	04/22/92	04/22/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	0.060	0.005U	0.009	0.005U	0.021	0.021	0.005U	0.005U	0.007
Nitrate-Nitrogen	---	0.837	4.06	0.020U	0.187	0.020U	0.020U	0.020U	0.023	0.020U

IN5 170 023 498

SUMMARY TABLE
Project NWSCC - Dye Burial Ground Site
Round 4 Groundwater Samples
Concentrations in mg/L

Analyte	Well No:	02C16	02C16P2	02C17	02C17P2	02C17P3	02C18	02C18P2	02C18P3	02C19
	Lab Sample:	19507	19506	19489	19490		19491	19492		19493
	Date Sampled:	03/30/92	03/30/92	03/29/92	03/29/92		03/29/92	03/29/92		03/29/92
	Date Analyzed:	04/22/92	04/22/92	04/24/92	04/24/92		04/24/92	04/24/92		04/24/92
NUTRIENTS	MCL									
Nitrite-Nitrogen	---	0.005U	0.007	0.014	0.010	Not Sampled	0.031	0.006	Not Sampled	0.012
Nitrate-Nitrogen	---	2.42	0.031	0.044	0.123	Not Sampled	10.6	0.020U	Not Sampled	1.17

Analyte	Well No:	02C19P2	02C19P3	02C20	02C20P2	02C20P3	02C22	02C22P2	02C22P3
	Lab Sample:	19494		19481	19482	19483		19509	19510
	Date Sampled:	03/29/92		03/28/92	03/28/92	03/28/92		03/30/92	03/30/92
	Date Analyzed:	04/24/92		04/24/92	04/24/92	04/24/92		04/22/92	04/22/92
NUTRIENTS	MCL								
Nitrite-Nitrogen	---	0.009	Not Sampled	0.016	0.106	0.007	Not Sampled	0.005	0.017
Nitrate-Nitrogen	---	0.020U	Not Sampled	2.87	0.677	0.020U	Not Sampled	0.020U	0.020U

IN5 170 023 498

IN5 170 023 498

Appendix F
Levels of Metals in Groundwater Samples and in Blanks

Appendix F: Metals in groundwater samples and blanks

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	1	Aluminum	4.63	Rinsate Blank, 0.170B	No
0206	1	Aluminum	0.356	Rinsate Blank, 0.170B	No
02C10P2	1	Aluminum	0.093B		No
02C11P2	1	Aluminum	0.039B	Rinsate Blank, 0.170B	Yes
02C11P3	1	Aluminum	29.5	Rinsate Blank, 0.170B	No
02C12P2	1	Aluminum	0.018B		No
02C16P2	1	Aluminum	0.703	Rinsate Blank, 0.170B	Yes
02C22P2	1	Aluminum	0.963	Rinsate Blank, 0.170B	No
0204	2	Aluminum	1.19		No
0206	2	Aluminum	0.704		No
02C11P3	2	Aluminum	21.4		No
02C14P3	2	Aluminum	0.702		No
02C15P2	2	Aluminum	0.320		No
02C16P2	2	Aluminum	0.883		No
02C17P2	2	Aluminum	0.076B		No
0204	3	Aluminum	1.14		No
0206	3	Aluminum	0.614		No
02C10P3	3	Aluminum	0.019B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P3	3	Aluminum	25.6		No
02C12	3	Aluminum	0.023B		No
02C14P3	3	Aluminum	0.768		No
02C15P2	3	Aluminum	0.087B		No
02C16P2	3	Aluminum	0.675		No
02C17P2	3	Aluminum	0.318B		No
02C20	3	Aluminum	0.064B		No
02C22P3	3	Aluminum	2.14		No
0206	4	Aluminum	0.206		No
02C11P3	4	Aluminum	23.1		No
02C12P2	4	Aluminum	0.087BN		No
02C14P3	4	Aluminum	0.824		No
02C15P2	4	Aluminum	1.26		No
02C16P2	4	Aluminum	0.727		No
02C22P3	4	Aluminum	2.04		No
0203	1	Antimony	0.0123B		No
0204	1	Antimony	0.0030B		No
0207	1	Antimony	0.0032B		No
0208	1	Antimony	0.0116B		No
02C09	1	Antimony	0.0187B		No
02C10	1	Antimony	0.0113B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C10P2	1	Antimony	0.0142B		No
02C10P3	1	Antimony	0.0042B		No
02C11	1	Antimony	0.0216B		No
02C11P2	1	Antimony	0.0099B		No
02C11P3	1	Antimony	0.0123B		No
02C12P2	1	Antimony	0.0070B		No
02C12P3	1	Antimony	0.0137B		No
02C13P2	1	Antimony	0.0063B		No
02C13P3	1	Antimony	0.0030B		No
02C14	1	Antimony	0.0041B		No
02C14P2	1	Antimony	0.0233B		No
02C14P3	1	Antimony	0.0128B		No
02C15	1	Antimony	0.0207B		No
02C15P2	1	Antimony	0.0041B		No
02C16	1	Antimony	0.0103B		No
02C16P2	1	Antimony	0.0127B		No
02C17	1	Antimony	0.0036B		No
02C17P2	1	Antimony	0.0037B		No
02C18	1	Antimony	0.0173B		No
02C18P2	1	Antimony	0.0178B		No
02C19	1	Antimony	0.0068B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C19P2	1	Antimony	0.0041B		No
02C20	1	Antimony	0.0191B		No
02C20P2	1	Antimony	0.0069B		No
02C20P3	1	Antimony	0.0051B		No
02C22P2	1	Antimony	0.0046B		No
02C22P3	1	Antimony	0.0156B		No
0202	2	Antimony	0.0082BW	Rinsate Blank, 0.0301	Yes
0203	2	Antimony	0.0184B	Rinsate Blank, 0.0301	Yes
0204	2	Antimony	0.043BW	Rinsate Blank, 0.0210B	Yes
0205	2	Antimony	0.0162BW	Rinsate Blank, 0.0210B	Yes
0206	2	Antimony	0.0171BW	Rinsate Blank, 0.0301	Yes
0207	2	Antimony	0.0083BW	Rinsate Blank, 0.0301	Yes
0208	2	Antimony	0.0110BW	Rinsate Blank, 0.0301	Yes
02C09	2	Antimony	0.0217B		No
02C10	2	Antimony	0.0147B	Rinsate Blank, 0.0230B	Yes
02C10P2	2	Antimony	0.0139B	Rinsate Blank, 0.0230B	Yes
02C10P3	2	Antimony	0.0120B	Rinsate Blank, 0.0230B	Yes
02C11	2	Antimony	0.0390B	Rinsate Blank, 0.0210B	Yes
02C11P2	2	Antimony	0.0116B	Rinsate Blank, 0.0210B	Yes
02C11P3	2	Antimony	0.0147B	Rinsate Blank, 0.0210B	Yes
02C12P2	2	Antimony	0.0176B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P3	2	Antimony	0.0140B		No
02C13	2	Antimony	0.0234B	Rinsate Blank, 0.0203B	Yes
02C13P2	2	Antimony	0.0144B	Rinsate Blank, 0.0203B	Yes
02C13P3	2	Antimony	0.0124B	Rinsate Blank, 0.0203B	Yes
02C14	2	Antimony	0.0291B		No
02C14P2	2	Antimony	0.0192B		No
02C14P3	2	Antimony	0.0061B		No
02C15P2	2	Antimony	0.0152B	Rinsate Blank, 0.0301	Yes
02C16	2	Antimony	0.0180B	Rinsate Blank, 0.0301	Yes
02C16P2	2	Antimony	0.0131B	Rinsate Blank, 0.0301	Yes
02C17	2	Antimony	0.0158B	Rinsate Blank, 0.0301	Yes
02C17P2	2	Antimony	0.0132BW	Rinsate Blank, 0.0301	Yes
02C18	2	Antimony	0.0222B	Rinsate Blank, 0.0301	Yes
02C18P2	2	Antimony	0.0184B	Rinsate Blank, 0.0301	Yes
02C20P3	2	Antimony	0.0076B	Rinsate Blank, 0.021B	Yes
0202	3	Antimony	0.0194B	Field Blank, 0.0159B	Yes
0203	3	Antimony	0.0128B	As above	Yes
0204	3	Antimony	0.0113B	As above	Yes
0205	3	Antimony	0.0120BW	As above	Yes
0206	3	Antimony	0.0133B	As above	Yes
0207	3	Antimony	0.0136B	As above	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
0208	3	Antimony	0.0152B	Field Blank, 0.0159B	Yes
02C09	3	Antimony	0.0130B	As above	Yes
02C10	3	Antimony	0.0192BW	As above	Yes
02C10P2	3	Antimony	0.0123B	As above	Yes
02C10P3	3	Antimony	0.0131B	As above	Yes
02C11	3	Antimony	0.0257B	As above	Yes
02C11P2	3	Antimony	0.0161B	As above	Yes
02C11P3	3	Antimony	0.0127B	As above	Yes
02C12	3	Antimony	0.0311B	As above	Yes
02C12P2	3	Antimony	0.0184B	As above	Yes
02C12P3	3	Antimony	0.0065B	As above	Yes
02C13	3	Antimony	0.0198B	As above	Yes
02C13P2	3	Antimony	0.0138B	As above	Yes
02C13P3	3	Antimony	0.0166B	As above	Yes
02C14	3	Antimony	0.0211B	As above	Yes
02C14P2	3	Antimony	0.0161B	As above	Yes
02C14P3	3	Antimony	0.0221B	As above	Yes
02C15P2	3	Antimony	0.0148B	As above	Yes
02C16	3	Antimony	0.0174B	As above	Yes
02C16P2	3	Antimony	0.0055B	As above	Yes
02C17	3	Antimony	0.0180B	As above	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C17P2	3	Antimony	0.0138B	Field Blank, 0.0159B	Yes
02C18	3	Antimony	0.0133B	As above	Yes
02C18P2	3	Antimony	0.0045B	As above	Yes
02C19	3	Antimony	0.0178B	As above	Yes
02C19P2	3	Antimony	0.0127B	As above	Yes
02C20	3	Antimony	0.0166B	As above	Yes
02C20P2	3	Antimony	0.0201B	As above	Yes
02C20P3	3	Antimony	0.0128B	As above	Yes
02C22P3	3	Antimony	0.0130B	As above	Yes
02C10	4	Antimony	0.0036B		No
02C12P3	4	Antimony	0.0053BW		No
02C19	4	Antimony	0.0033B		No
02C09	1	Arsenic	0.0023B		No
02C10	1	Arsenic	0.0114B		No
02C10P2	1	Arsenic	0.0022B		No
02C11	1	Arsenic	0.0126		No
02C14	1	Arsenic	0.0052B		No
02C15P2	1	Arsenic	0.0028B		No
02C16P2	1	Arsenic	0.0022B		No
02C22P3	1	Arsenic	0.0028B		No
02C10	2	Arsenic	0.0032B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11	2	Arsenic	0.0068BW		No
02C14	2	Arsenic	0.0030B		No
02C16	2	Arsenic	0.0024B		No
02C10	3	Arsenic	0.0030B		No
02C11	3	Arsenic	0.0043B		No
02C12	3	Arsenic	0.0217		No
02C14	3	Arsenic	0.0047B		No
02C20	3	Arsenic	0.0020B		No
02C12P3	4	Arsenic	0.0061B		No
02C14	4	Arsenic	0.0031B		No
0202	1	Barium	0.016B		No
0203	1	Barium	0.015B		No
02C09	1	Barium	0.026B		No
02C10P2	1	Barium	0.037B		No
02C10P3	1	Barium	0.019B		No
02C11	1	Barium	0.033B		No
02C11P2	1	Barium	0.025B		No
02C12P2	1	Barium	0.050B		No
02C12P3	1	Barium	0.017B		No
02C13P2	1	Barium	0.029B		No
02C13P3	1	Barium	0.020B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14	1	Barium	0.013B		No
02C14P2	1	Barium	0.043B		No
02C15	1	Barium	0.019B		No
02C15P2	1	Barium	0.013B		No
02C16	1	Barium	0.027B		No
02C17	1	Barium	0.012B		No
02C20	1	Barium	0.047B		No
02C20P2	1	Barium	0.041B		No
0202	2	Barium	0.030B		No
0203	2	Barium	0.047B		No
0204	2	Barium	0.028BN		No
0205	2	Barium	0.024BN		No
0206	2	Barium	0.010B		No
0207	2	Barium	0.015B		No
0208	2	Barium	0.012B		No
02C09	2	Barium	0.020BN		No
02C10P2	2	Barium	0.028B		No
02C10P3	2	Barium	0.017B		No
02C11	2	Barium	0.025BN		No
02C11P2	2	Barium	0.031BN		No
02C12P2	2	Barium	0.045BN		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P3	2	Barium	0.018BN		No
02C13	2	Barium	0.018B		No
02C13P2	2	Barium	0.030B		No
02C13P3	2	Barium	0.018B		No
02C14	2	Barium	0.048BN		No
02C14P2	2	Barium	0.081BN		No
02C14P3	2	Barium	0.031B		No
02C15P2	2	Barium	0.022B		No
02C16	2	Barium	0.040B		No
02C17	2	Barium	0.029B		No
02C18	2	Barium	0.012B		No
0201	3	Barium	0.017BN		No
0202	3	Barium	0.043BN		No
0203	3	Barium	0.042BN		No
0204	3	Barium	0.019BN		No
0205	3	Barium	0.015		No
0206	3	Barium	0.011BN		No
0207	3	Barium	0.014BN		No
0208	3	Barium	0.016BN		No
02C09	3	Barium	0.012B		No
02C10P2	3	Barium	0.022B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11	3	Barium	0.017BN		No
02C11P2	3	Barium	0.040BN		No
02C12	3	Barium	0.028BN		No
02C12P2	3	Barium	0.053BN		No
02C13	3	Barium	0.013B		No
02C13P3	3	Barium	0.015B		No
02C14	3	Barium	0.038BN		No
02C14P2	3	Barium	0.079BN		No
02C14P3	3	Barium	0.012BN		No
02C15P2	3	Barium	0.022BN		No
02C16	3	Barium	0.032BN		No
02C17	3	Barium	0.037B		No
02C17P2	3	Barium	0.010B		No
02C18	3	Barium	0.017B		No
02C18P2	3	Barium	0.011B		No
02C19	3	Barium	0.011B		No
02C20	3	Barium	0.014B		No
02C20P2	3	Barium	0.022B		No
0202	4	Barium	0.031B		No
0203	4	Barium	0.052B		No
0204	4	Barium	0.020B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
0205	4	Barium	0.022		No
02C10P2	4	Barium	0.027B		No
02C11	4	Barium	0.037B		No
02C11P2	4	Barium	0.038B		No
02C12P2	4	Barium	0.046B		No
02C13	4	Barium	0.022B		No
02C14	4	Barium	0.060B		No
02C14P2	4	Barium	0.084B		No
02C15P2	4	Barium	0.024B		No
02C16	4	Barium	0.046B		No
02C17	4	Barium	0.033B		No
02C18	4	Barium	0.020B		No
02C19	4	Barium	0.038B		No
02C20	4	Barium	0.031B		No
02C20P2	4	Barium	0.037B		No
02C22P2	4	Barium	0.029B		No
02C11P3	1	Beryllium	0.005		No
02C22P3	1	Beryllium	0.005		No
0206	2	Beryllium	0.001B		No
02C11P3	2	Beryllium	0.005		No
0206	3	Beryllium	0.002B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P3	3	Beryllium	0.005		No
02C22P3	3	Beryllium	0.006		No
02C11P3	1	Cadmium	0.005		No
0204	2	Cadmium	0.006		No
0205	2	Cadmium	0.008		No
0206	2	Cadmium	0.013		No
0208	2	Cadmium	0.004B		No
02C11P3	2	Cadmium	0.011		No
02C12P3	2	Cadmium	0.006		No
02C17P2	2	Cadmium	0.006		No
02C18P2	2	Cadmium	0.004B		No
02C11P3	3	Cadmium	0.005		No
0202	4	Cadmium	0.00040B		No
0203	4	Cadmium	0.00028B		No
0204	4	Cadmium	0.00222B		No
0206	4	Cadmium	0.00456B	Rinsate Blank, 0.00028B	No
0208	4	Cadmium	0.00048B	Rinsate Blank, 0.00028B	Yes
02C09	4	Cadmium	0.00326B		No
02C10P3	4	Cadmium	0.00049B		No
02C11	4	Cadmium	0.00029B		No
02C11P2	4	Cadmium	0.00226B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P3	4	Cadmium	0.00933		No
02C13P3	4	Cadmium	0.00027B		No
02C14P3	4	Cadmium	0.00037B		No
02C15P2	4	Cadmium	0.00308B		No
02C16	4	Cadmium	0.00108B		No
02C16P2	4	Cadmium	0.00151B		No
02C17	4	Cadmium	0.00082B	Rinsate Blank, 0.00028B	Yes
02C17P2	4	Cadmium	0.00484B		No
02C19P2	4	Cadmium	0.00181BW	Rinsate Blank, 0.00028B	No
02C22P2	4	Cadmium	0.00037B		No
02C22P3	4	Cadmium	0.00134B		No
0202	1	Calcium	318	Rinsate Blank, 15.5	No
0203	1	Calcium	172	Rinsate Blank, 15.5	No
0204	1	Calcium	331	Rinsate Blank, 15.5	No
0206	1	Calcium	577	Rinsate Blank, 15.5	No
0207	1	Calcium	363	Rinsate Blank, 15.5	No
0208	1	Calcium	496	Rinsate Blank, 15.5	No
02C09	1	Calcium	63.7		No
02C10	1	Calcium	83.8		No
02C10P2	1	Calcium	125		No
02C10P3	1	Calcium	27.7		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11	1	Calcium	6.99	Rinsate Blank, 15.5	Yes
02C11P2	1	Calcium	163	Rinsate Blank, 15.5	No
02C11P3	1	Calcium	166	Rinsate Blank, 15.5	No
02C12P2	1	Calcium	127		No
02C12P3	1	Calcium	251		No
02C13P2	1	Calcium	263		No
02C13P3	1	Calcium	13.9		No
02C14	1	Calcium	37.7	Rinsate Blank, 15.5	Yes
02C14P2	1	Calcium	236	Rinsate Blank, 15.5	No
02C14P3	1	Calcium	24.1	Rinsate Blank, 15.5	Yes
02C15	1	Calcium	35.6	Rinsate Blank, 15.5	Yes
02C15P2	1	Calcium	184	Rinsate Blank, 15.5	No
02C16	1	Calcium	9.78	Rinsate Blank, 15.5	Yes
02C16P2	1	Calcium	69.9	Rinsate Blank, 15.5	Yes
02C127	1	Calcium	94.4	Rinsate Blank, 15.5	No
02C17P2	1	Calcium	495	Rinsate Blank, 15.5	No
02C18	1	Calcium	72.2	Rinsate Blank, 15.5	Yes
02C18P2	1	Calcium	379	Rinsate Blank, 15.5	No
02C19	1	Calcium	21.9	Rinsate Blank, 15.5	Yes
02C19P2	1	Calcium	157	Rinsate Blank, 15.5	No
02C20	1	Calcium	13.5		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C20P2	1	Calcium	10.3		No
02C20P3	1	Calcium	203		No
02C22P2		Calcium	14.3	Rinsate Blank, 15.5	Yes
02C22P3		Calcium	350	Rinsate Blank, 15.5	No
0202	2	Calcium	346	Rinsate Blank, 0.111B	No
0203	2	Calcium	184	Rinsate Blank, 0.111B	No
0204	2	Calcium	442	Rinsate Blank, 0.700B	No
0205	2	Calcium	649	Rinsate Blank, 0.700B	No
0206	2	Calcium	676	Rinsate Blank, 0.111B	No
0207	2	Calcium	397	Rinsate Blank, 0.111B	No
0208	2	Calcium	622	Rinsate Blank, 0.111B	No
02C09	2	Calcium	64.7	Field Blank, 0.080B	No
02C10	2	Calcium	86.0	Rinsate Blank, 8.95	No
02C10P2	2	Calcium	137	Rinsate Blank, 8.95	No
02C10P3	2	Calcium	29.0	Rinsate Blank, 8.95	Yes
02C11	2	Calcium	5.79	Rinsate Blank, 0.700B	No
02C11P2	2	Calcium	170	Rinsate Blank, 0.700B	No
02C11P3	2	Calcium	197	Rinsate Blank, 0.700B	No
02C12P2	2	Calcium	124	Field Blank, 0.080B	No
02C12P3	2	Calcium	337	Field Blank, 0.080B	No
02C13	2	Calcium	22.8	Rinsate Blank, 8.95	Yes
02C13P2	2	Calcium	245	Rinsate Blank, 8.95	No
02C13P3	2	Calcium	12.9	Rinsate Blank, 8.95	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14	2	Calcium	36.2	Field Blank, 0.080B	No
02C14P2	2	Calcium	249	Field Blank, 0.080B	No
02C14P3	2	Calcium	298	Field Blank, 0.080B	No
02C15P2	2	Calcium	164	Rinsate Blank, 0.111B	No
02C16	2	Calcium	17.1	Rinsate Blank, 0.111B	No
02C16P2	2	Calcium	62.2	Rinsate Blank, 0.111B	No
02C17	2	Calcium	88.8	Rinsate Blank, 0.111B	No
02C17P2	2	Calcium	580	Rinsate Blank, 0.111B	No
02C18	2	Calcium	79.1	Rinsate Blank, 0.111B	No
02C18P2	2	Calcium	403	Rinsate Blank, 0.111B	No
02C20P3	2	Calcium	175	Rinsate Blank, 8.95	No
0201	3	Calcium	237	Field Blank, 0.158B	No
0202	3	Calcium	410	Field Blank, 0.158B	No
0203	3	Calcium	179	Field Blank, 0.158B	No
0204	3	Calcium	407	Field Blank, 0.158B	No
0205	3	Calcium	605	Field Blank, 0.158B	No
0206	3	Calcium	549	Field Blank, 0.158B	No
0207	3	Calcium	410	Field Blank, 0.158B	No
0208	3	Calcium	521	Field Blank, 0.158B	No
02C09	3	Calcium	60.5	Field Blank, 0.158B	No
02C10	3	Calcium	84.5	Field Blank, 0.158B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C10P2	3	Calcium	135	Field Blank, 0.158B	No
02C10P3	3	Calcium	16.9	Field Blank, 0.158B	No
02C11	3	Calcium	8.67	Field Blank, 0.158B	No
02C11P2	3	Calcium	182	Field Blank, 0.158B	No
02C11P3	3	Calcium	214	Field Blank, 0.158B	No
02C12	3	Calcium	4.32	Field Blank, 0.158B	No
02C12P2	3	Calcium	142	Field Blank, 0.158B	No
02C12P3	3	Calcium	303	Field Blank, 0.158B	No
02C13	3	Calcium	29.4	Field Blank, 0.158B	No
02C13P2	3	Calcium	250	Field Blank, 0.158B	No
02C13P3	3	Calcium	19.6	Field Blank, 0.158B	No
02C14	3	Calcium	46.9	Field Blank, 0.158B	No
02C14P2	3	Calcium	266	Field Blank, 0.158B	No
02C14P3	3	Calcium	261	Field Blank, 0.158B	No
02C15P2	3	Calcium	144	Field Blank, 0.158B	No
02C16	3	Calcium	17.7	Field Blank, 0.158B	No
02C16P2	3	Calcium	58.3	Field Blank, 0.158B	No
02C17	3	Calcium	76.2	Field Blank, 0.158B	No
02C17P2	3	Calcium	549	Field Blank, 0.158B	No
02C18	3	Calcium	82.8	Field Blank, 0.158B	No
02C18P2	3	Calcium	396	Field Blank, 0.158B	No
02C19	3	Calcium	20.5	Field Blank, 0.158B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C19P2	3	Calcium	192	Field Blank, 0.158B	No
02C20	3	Calcium	19.0	Field Blank, 0.158B	No
02C20P2	3	Calcium	7.60	Field Blank, 0.158B	No
02C20P3	3	Calcium	218	Field Blank, 0.158B	No
02C22P3	3	Calcium	334	Field Blank, 0.158B	No
0201	4	Calcium	199		No
0202	4	Calcium	287		No
0203	4	Calcium	190		No
0204	4	Calcium	418		No
0205	4	Calcium	569		No
0206	4	Calcium	570		No
0207	4	Calcium	284		No
0208	4	Calcium	498		No
02C09	4	Calcium	57.8		No
02C10	4	Calcium	88.7		No
02C10P2	4	Calcium	132		No
02C10P3	4	Calcium	17.1		No
02C11	4	Calcium	19.9		No
02C11P2	4	Calcium	172		No
02C11P3	4	Calcium	183		No
02C12	4	Calcium	287		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C12P2	4	Calcium	131		No
02C12P3	4	Calcium	2.26B		No
02C13	4	Calcium	30.2		No
02C13P2	4	Calcium	260		No
02C13P3	4	Calcium	12.2		No
02C14	4	Calcium	37.3		No
02C14P3	4	Calcium	281		No
02C15P2	4	Calcium	128		No
02C16	4	Calcium	25.8		No
02C16P2	4	Calcium	56.8		No
02C17	4	Calcium	81.9		No
02C17P2	4	Calcium	472		No
02C18	4	Calcium	91.1		No
02C18P2	4	Calcium	360		No
02C19	4	Calcium	50.7		No
02C19P2	4	Calcium	166		No
02C20	4	Calcium	39.7		No
02C20P2	4	Calcium	8.36		No
02C20P3	4	Calcium	213		No
02C22P2	4	Calcium	22.4		No
02C22P3	4	Calcium	302		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
0205	2	Chromium	0.006B	Field Blank, 0.005BN	Yes
02C11	2	Chromium	0.007B	Field Blank, 0.005BN	Yes
02C11P2	2	Chromium	0.005B	Field Blank, 0.005BN	Yes
02C11P3	2	Chromium	0.006B	Field Blank, 0.005BN	Yes
02C14P2	2	Chromium	0.005B	Field Blank, 0.005BN	Yes
02C12	3	Chromium	0.011	Field Blank, 0.005BN	Yes
02C20	3	Chromium	0.007B	Field Blank, 0.005BN	Yes
02C22P3	3	Chromium	0.010	Field Blank, 0.005BN	Yes
0205	4	Chromium	0.005B		Yes
0206	4	Chromium	0.008B	Rinsate Blank, 0.005B	Yes
02C09	4	Chromium	0.006B		No
02C10P3	4	Chromium	0.006B		No
02C12	4	Chromium	0.013		No
02C12P2	4	Chromium	0.008B		No
02C12P3	4	Chromium	0.021		No
02C19	4	Chromium	0.006B	Rinsate Blank, 0.005B	Yes
02C20	4	Chromium	0.005B		No
02C20P2	4	Chromium	0.007B		No
02C20P3	4	Chromium	0.011		No
0202	1	Cobalt	0.036B	Rinsate Blank, 0.015B	Yes
0203	1	Cobalt	0.024B		Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	1	Cobalt	0.327	Rinsate Blank, 0.015B	No
0206	1	Cobalt	0.638	Rinsate Blank, 0.015B	No
0207	1	Cobalt	0.039B	Rinsate Blank, 0.015B	Yes
0208	1	Cobalt	0.048B	Rinsate Blank, 0.015B	Yes
02C11	1	Cobalt	0.028B	Rinsate Blank, 0.015B	Yes
02C11P2	1	Cobalt	0.051	Rinsate Blank, 0.015B	Yes
02C11P3	1	Cobalt	0.442	Rinsate Blank, 0.015B	No
02C12P2	1	Cobalt	0.012B		No
02C12P3	1	Cobalt	0.006B		No
02C13P2	1	Cobalt	0.028B		No
02C14	1	Cobalt	0.026B	Rinsate Blank, 0.015B	Yes
02C14P2	1	Cobalt	0.029B	Rinsate Blank, 0.015B	Yes
02C14P3	1	Cobalt	0.019B	Rinsate Blank, 0.015B	Yes
02C15	1	Cobalt	0.018B	Rinsate Blank, 0.015B	Yes
02C15P2	1	Cobalt	0.066	Rinsate Blank, 0.015B	Yes
02C16	1	Cobalt	0.024B	Rinsate Blank, 0.015B	Yes
02C16P2	1	Cobalt	0.046B	Rinsate Blank, 0.015B	Yes
02C17	1	Cobalt	0.028B	Rinsate Blank, 0.015B	Yes
02C17P2	1	Cobalt	0.085	Rinsate Blank, 0.015B	No
02C18	1	Cobalt	0.031B	Rinsate Blank, 0.015B	Yes
02C18P2	1	Cobalt	0.067	Rinsate Blank, 0.015B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C19	1	Cobalt	0.023B	Rinsate Blank, 0.015B	Yes
02C19P2	1	Cobalt	0.048B	Rinsate Blank, 0.015B	Yes
02C20P3	1	Cobalt	0.012B		No
02C22P2	1	Cobalt	0.016B		No
02C22P3	1	Cobalt	0.224	Rinsate Blank, 0.015B	No
0202	2	Cobalt	0.007B	M	No
0204	2	Cobalt	0.226		No
0205	2	Cobalt	0.032B		No
0206	2	Cobalt	0.605		No
0207	2	Cobalt	0.011B		No
0208	2	Cobalt	0.015B		No
02C10	2	Cobalt	0.006B		No
02C10P3	2	Cobalt	0.018B		No
02C11P2	2	Cobalt	0.029B		No
02C11P3	2	Cobalt	0.389		No
02C12P3	2	Cobalt	0.035B		No
02C13	2	Cobalt	0.007B		No
02C13P2	2	Cobalt	0.034B		No
02C13P3	2	Cobalt	0.012B		No
02C14P2	2	Cobalt	0.008B		No
02C14P3	2	Cobalt	0.162N		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C15P2	2	Cobalt	0.057		No
02C16P2	2	Cobalt	0.024B		No
02C17P2	2	Cobalt	0.069		No
02C18P2	2	Cobalt	0.035B		No
02C20P3	2	Cobalt	0.017B		No
0201	3	Cobalt	0.040B		No
0202	3	Cobalt	0.034B		No
0203	3	Cobalt	0.013B		No
0204	3	Cobalt	0.272		No
0205	3	Cobalt	0.033B		No
0206	3	Cobalt	0.697		No
0207	3	Cobalt	0.042B		No
0208	3	Cobalt	0.043B		No
02C09	3	Cobalt	0.022B		No
02C10	3	Cobalt	0.031B		No
02C10P2	3	Cobalt	0.011B		No
02C10P3	3	Cobalt	0.018B		No
02C11	3	Cobalt	0.029B		No
02C11P2	3	Cobalt	0.046B		No
02C11P3	3	Cobalt	0.462		No
02C12	3	Cobalt	0.029B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P2	3	Cobalt	0.027B		No
02C12P3	3	Cobalt	0.036		No
02C13	3	Cobalt	0.016B		No
02C13P2	3	Cobalt	0.043B		No
02C13P3	3	Cobalt	0.028B		No
02C14	3	Cobalt	0.020B		No
02C14P2	3	Cobalt	0.018B		No
02C14P3	3	Cobalt	0.167		No
02C15P2	3	Cobalt	0.072		No
02C16	3	Cobalt	0.032		No
02C16P2	3	Cobalt	0.046B		No
02C17	3	Cobalt	0.020B		No
02C17P2	3	Cobalt	0.100		No
02C18	3	Cobalt	0.024B		No
02C18P2	3	Cobalt	0.040B		No
02C19	3	Cobalt	0.014B		No
02C19P2	3	Cobalt	0.044B		No
02C20	3	Cobalt	0.031B		No
02C20P2	3	Cobalt	0.016B		No
02C20P3	3	Cobalt	0.034B		No
02C22P3	3	Cobalt	0.224		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0202	4	Cobalt	0.030B		No
0203	4	Cobalt	0.037B		No
0204	4	Cobalt	0.284		No
0205	4	Cobalt	0.028B		No
0206	4	Cobalt	0.510		No
0207	4	Cobalt	0.028B		No
0208	4	Cobalt	0.028B		No
02C11	4	Cobalt	0.046B		No
02C11P2	4	Cobalt	0.075		No
02C11P3	4	Cobalt	0.493		No
02C12	4	Cobalt	0.024B		No
02C12P2	4	Cobalt	0.021B		No
02C14	4	Cobalt	0.046B		No
02C14P2	4	Cobalt	0.044B		No
02C14P3	4	Cobalt	0.196		No
02C15P2	4	Cobalt	0.160		No
02C16	4	Cobalt	0.051		No
02C16P2	4	Cobalt	0.066		No
02C17	4	Cobalt	0.025B		No
02C17P2	4	Cobalt	0.115		No
02C18	4	Cobalt	0.039B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C18P2	4	Cobalt	0.054		No
02C19	4	Cobalt	0.032B		No
02C19P2	4	Cobalt	0.064		No
02C22P2	4	Cobalt	0.041B		No
02C22P3	4	Cobalt	0.239		No
02C11P3	1	Copper	0.010B		No
02C15	1	Copper	0.017B		No
02C16P2	1	Copper	0.006B		No
02C20	1	Copper	0.015B		No
0204	2	Copper	0.006B	Rinsate Blank, 0.011B	Yes
0205	2	Copper	0.018B	Rinsate Blank, 0.011B	Yes
02C09	2	Copper	0.016B		No
02C10P2	2	Copper	0.017B		No
02C10P3	2	Copper	0.011B		No
02C11	2	Copper	0.014B	Rinsate Blank, 0.011B	Yes
02C11P2	2	Copper	0.022B	Rinsate Blank, 0.011B	Yes
02C11P3	2	Copper	0.014B	Rinsate Blank, 0.011B	Yes
02C12P2	2	Copper	0.025		No
02C12P3	2	Copper	0.021B		No
02C13	2	Copper	0.009B		No
02C13P2	2	Copper	0.021B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C13P3	2	Copper	0.029		No
02C14	2	Copper	0.052		No
02C14P2	2	Copper	0.020B		No
0202	3	Copper	0.044	Field Blank, 0.020B	Yes
0203	3	Copper	0.041	Field Blank, 0.020B	Yes
0205	3	Copper	0.033	Field Blank, 0.020B	Yes
0206	3	Copper	0.032	Field Blank, 0.020B	Yes
0207	3	Copper	0.036	Field Blank, 0.020B	Yes
0208	3	Copper	0.039	Field Blank, 0.020B	Yes
02C10	3	Copper	0.033	Field Blank, 0.020B	Yes
02C10P2	3	Copper	0.016B	Field Blank, 0.020B	Yes
02C10P3	3	Copper	0.025	Field Blank, 0.020B	Yes
02C11	3	Copper	0.038	Field Blank, 0.020B	Yes
02C11P2	3	Copper	0.025	Field Blank, 0.020B	Yes
02C11P3	3	Copper	0.031	Field Blank, 0.020B	Yes
02C12	3	Copper	0.029	Field Blank, 0.020B	Yes
02C12P2	3	Copper	0.034	Field Blank, 0.020B	Yes
02C13	3	Copper	0.043	Field Blank, 0.020B	Yes
02C13P2	3	Copper	0.013B	Field Blank, 0.020B	Yes
02C13P3	3	Copper	0.026	Field Blank, 0.020B	Yes
02C14	3	Copper	0.059	Field Blank, 0.020B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14P2	3	Copper	0.031	Field Blank, 0.020B	Yes
02C14P3	3	Copper	0.056	Field Blank, 0.020B	Yes
02C15P2	3	Copper	0.027	Field Blank, 0.020B	Yes
02C16	3	Copper	0.036	Field Blank, 0.020B	Yes
02C17	3	Copper	0.028	Field Blank, 0.020B	Yes
02C18	3	Copper	0.039	Field Blank, 0.020B	Yes
02C19	3	Copper	0.031	Field Blank, 0.020B	Yes
02C19P2	3	Copper	0.029	Field Blank, 0.020B	Yes
02C20P2	3	Copper	0.015B	Field Blank, 0.020B	Yes
02C20P3	3	Copper	0.021B	Field Blank, 0.020B	Yes
02C22P3	3	Copper	0.047	Field Blank, 0.020B	Yes
0202	4	Copper	0.014B	Rinsate Blank, 0.166	Yes
0205	4	Copper	0.059	Rinsate Blank, 0.136	Yes
0206	4	Copper	0.064	Rinsate Blank, 0.054	Yes
0208	4	Copper	0.037	Rinsate Blank, 0.054	Yes
02C09	4	Copper	0.051	Rinsate Blank, 0.054	Yes
02C10	4	Copper	0.027	Rinsate Blank, 0.136	Yes
02C10P2	4	Copper	0.039	Rinsate Blank, 0.136	Yes
02C10P3	4	Copper	0.016B	Rinsate Blank, 0.136	Yes
02C11	4	Copper	0.036	Rinsate Blank, 0.166	Yes
02C12	4	Copper	0.005B	Rinsate Blank, 0.136	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P2	4	Copper	0.230	Rinsate Blank, 0.136	Yes
02C12P3	4	Copper	0.032	Rinsate Blank, 0.136	Yes
02C14P2	4	Copper	0.031	Rinsate Blank, 0.166	Yes
02C15P2	4	Copper	0.006B	Rinsate Blank, 0.166	Yes
02C16	4	Copper	0.090	Rinsate Blank, 0.166	Yes
02C16P2	4	Copper	0.012B	Rinsate Blank, 0.166	Yes
02C17	4	Copper	0.053	Rinsate Blank, 0.054	Yes
02C18	4	Copper	0.065	Rinsate Blank, 0.054	Yes
02C18P2	4	Copper	0.033	Rinsate Blank, 0.054	Yes
02C19	4	Copper	0.059	Rinsate Blank, 0.054	Yes
02C20	4	Copper	0.172	Rinsate Blank, 0.136	Yes
02C20P2	4	Copper	0.019B	Rinsate Blank, 0.136	Yes
02C20P3	4	Copper	0.013B	Rinsate Blank, 0.136	Yes
02C22P2	4	Copper	0.017B	Rinsate Blank, 0.166	Yes
02C22P3	4	Copper	0.073		Yes
0202	1	Iron	0.343		No
0203	1	Iron	0.013B		No
0204	1	Iron	0.583		No
0206	1	Iron	0.526		No
0207	1	Iron	0.017B		No
0208	1	Iron	0.055B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C09	1	Iron	0.024B		No
02C10	1	Iron	0.023B		No
02C10P2	1	Iron	0.671B		No
02C10P3	1	Iron	0.350		No
02C11	1	Iron	0.044B		No
02C11P2	1	Iron	0.022B		No
02C11P3	1	Iron	4.70		No
02C12P2	1	Iron	0.010B		No
02C12P3	1	Iron	0.070B		No
02C13P2	1	Iron	1.08		No
02C13P3	1	Iron	0.172		No
02C15P2	1	Iron	4.15		No
02C16P2	1	Iron	0.045B		No
02C17P2	1	Iron	0.306		No
02C18	1	Iron	0.118		No
02C18P2	1	Iron	3.04		No
02C19P2	1	Iron	3.26		No
02C20	1	Iron	0.042B		No
02C20P3	1	Iron	0.026B		No
02C22P3	1	Iron	103		No
0202	2	Iron	0.077B	Field Blank, 0.174	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	2	Iron	0.144N	Field Blank, 0.174	Yes
0205	2	Iron	0.303N	Field Blank, 0.174	Yes
0206	2	Iron	2.99	Field Blank, 0.174	No
0207	2	Iron	0.034B	Field Blank, 0.174	Yes
0208	2	Iron	0.048B	Field Blank, 0.174	Yes
02C10	2	Iron	0.013B	Field Blank, 0.174	Yes
02C10P2	2	Iron	0.020B	Field Blank, 0.174	Yes
02C10P3	2	Iron	1.44	Field Blank, 0.174	No
02C11P3	2	Iron	4.91N	Field Blank, 0.174	No
02C13	2	Iron	0.13B	Field Blank, 0.174	Yes
02C13P2	2	Iron	1.06	Field Blank, 0.174	No
02C13P3	2	Iron	0.418	Field Blank, 0.174	Yes
02C14P3	2	Iron	1.12	Field Blank, 0.174	No
02C15P2	2	Iron	4.38	Field Blank, 0.174	No
02C16	2	Iron	0.035B	Field Blank, 0.174	Yes
02C16P2	2	Iron	0.014B	Field Blank, 0.174	Yes
02C17P2	2	Iron	0.313	Field Blank, 0.174	Yes
02C18	2	Iron	0.033B	Field Blank, 0.174	Yes
02C18P2	2	Iron	2.48	Field Blank, 0.174	No
02C20P3	2	Iron	0.160	Field Blank, 0.174	Yes
0202	3	Iron	0.043B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	3	Iron	0.165		No
0205	3	Iron	0.443		No
0206	3	Iron	17.6		No
0207	3	Iron	0.038B		No
02C10P3	3	Iron	0.347		No
02C11P3	3	Iron	5.62		No
02C12P3	3	Iron	0.179		No
02C13P2	3	Iron	0.843		No
02C13P3	3	Iron	8.22		No
02C14P3	3	Iron	3.31		No
02C15P2	3	Iron	2.79		No
02C16	3	Iron	0.013		No
02C16P2	3	Iron	0.274		No
02C17P2	3	Iron	0.345N		No
02C18P2	3	Iron	5.60		No
02C19P2	3	Iron	6.22		No
02C20	3	Iron	0.032B		No
02C20P3	3	Iron	0.378		No
02C22P3	3	Iron	121		No
0204	4	Iron	0.295		No
0205	4	Iron	0.462		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0206	4	Iron	9.55		No
0207	4	Iron	0.044B		No
0208	4	Iron	0.056B		No
02C10P2	4	Iron	0.412		No
02C10P3	4	Iron	0.843		No
02C11P2	4	Iron	0.385		No
02C11P3	4	Iron	5.44		No
02C12	4	Iron	0.241		No
02C13P2	4	Iron	0.275		No
02C13P3	4	Iron	0.189		No
02C14P3	4	Iron	4.86		No
02C15P2	4	Iron	7.63		No
02C16P2	4	Iron	0.051B		No
02C17P2	4	Iron	0.427		No
02C18P2	4	Iron	4.71		No
02C19	4	Iron	0.061B		No
02C19P2	4	Iron	7.84		No
02C20P3	4	Iron	0.449		No
02C22P3	4	Iron	120		No
02C11	1	Lead	0.0036B		No
02C11P3	1	Lead	0.0160		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14P2	1	Lead	0.0020B		No
02C14P3	1	Lead	0.0010B		No
02C15	1	Lead	0.0016B		No
02C16P2	1	Lead	0.0014B		No
02C18	1	Lead	0.0011B		No
02C20	1	Lead	0.0016B		No
02C22P3	1	Lead	0.0024B		No
0202	2	Lead	0.0033BW		No
0203	2	Lead	0.0012B		No
02C11	2	Lead	0.0016B		No
02C11P3	2	Lead	0.0079BW		No
02C12P3	2	Lead	0.0010BW		No
02C14	2	Lead	0.0013B		No
02C14P3	2	Lead	0.0014B		No
02C16	2	Lead	0.0018B		No
02C18	2	Lead	0.0021B		No
02C11P3	3	Lead	0.0043		No
02C12	3	Lead	0.0042		No
02C13	3	Lead	0.0016B		No
02C20P3	3	Lead	0.0011BW		No
0204	4	Lead	0.0011B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C11	4	Lead	0.0011B		No
02C11P3	4	Lead	0.0028B		No
02C12P2	4	Lead	0.0021B		No
02C12P3	4	Lead	0.0012B		No
02C20	4	Lead	0.0018B		No
02C22P3	4	Lead	0.0092		No
0202	1	Magnesium	80.2	Rinsate Blank, 2.87B	No
0203	1	Magnesium	47.2	Rinsate Blank, 2.87B	No
0204	1	Magnesium	109	Rinsate Blank, 2.87B	No
0206	1	Magnesium	333	Rinsate Blank, 2.87B	No
0207	1	Magnesium	115	Rinsate Blank, 2.87B	No
0208	1	Magnesium	162	Rinsate Blank, 2.87B	No
02C09	1	Magnesium	50.4		No
02C10	1	Magnesium	65.2		No
02C10P2	1	Magnesium	83.5		No
02C10P3	1	Magnesium	209		No
02C11	1	Magnesium	1.68B	Rinsate Blank, 2.87B	Yes
02C11P2	1	Magnesium	27.7	Rinsate Blank, 2.87B	No
02C11P3	1	Magnesium	68.2	Rinsate Blank, 2.87B	No
02C12P3	1	Magnesium	194		No
02C13P2	1	Magnesium	177		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C13P3	1	Magnesium	10.1	Rinsate Blank, 2.87B	No
02C14	1	Magnesium	45.0	Rinsate Blank, 2.87B	No
02C14P2	1	Magnesium	0.452B	Rinsate Blank, 2.87B	Yes
02C14P3	1	Magnesium	7.83	Rinsate Blank, 2.87B	Yes
02C15	1	Magnesium	53.7	Rinsate Blank, 2.87B	No
02C15P2	1	Magnesium	39.0	Rinsate Blank, 2.87B	No
02C16	1	Magnesium	25.8	Rinsate Blank, 2.87B	No
02C16P2	1	Magnesium	29.3	Rinsate Blank, 2.87B	No
02C17	1	Magnesium	45.5	Rinsate Blank, 2.87B	No
02C17P2	1	Magnesium	189	Rinsate Blank, 2.87B	No
02C18	1	Magnesium	26.1	Rinsate Blank, 2.87B	No
02C18P2	1	Magnesium	115	Rinsate Blank, 2.87B	No
02C19	1	Magnesium	38.7	Rinsate Blank, 2.87B	No
02C19P2	1	Magnesium	69.6	Rinsate Blank, 2.87B	No
02C20	1	Magnesium	2.33B		No
02C20P2	1	Magnesium	1.71B		No
02C20P3	1	Magnesium	178		No
02C22P2	1	Magnesium	9.86	Rinsate Blank, 2.87B	Yes
02C22P3	1	Magnesium	297	Rinsate Blank, 2.87B	No
0202	2	Magnesium	96		No
0203	2	Magnesium	53.6		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	2	Magnesium	113	Rinsate Blank, 0.152B	No
0205	2	Magnesium	215	Rinsate Blank, 0.152B	No
0206	2	Magnesium	413		No
0207	2	Magnesium	137		No
0208	2	Magnesium	215		No
02C09	2	Magnesium	52.0		No
02C10	2	Magnesium	64.5	Rinsate Blank, 1.74B	No
02C10P2	2	Magnesium	67.9	Rinsate Blank, 1.74B	No
02C10P3	2	Magnesium	19.8	Rinsate Blank, 1.74B	No
02C11	2	Magnesium	11.2	Rinsate Blank, 0.152B	No
02C11P2	2	Magnesium	37.9	Rinsate Blank, 0.152B	No
02C11P3	2	Magnesium	81.6	Rinsate Blank, 0.152B	No
02C12P2	2	Magnesium	0.239B		No
02C12P3	2	Magnesium	234		No
02C13	2	Magnesium	31.2	Rinsate Blank, 1.74B	No
02C13P2	2	Magnesium	142	Rinsate Blank, 1.74B	No
02C13P3	2	Magnesium	8.51	Rinsate Blank, 1.74B	Yes
02C14	2	Magnesium	50.1		No
02C14P2	2	Magnesium	0.225B		No
02C14P3	2	Magnesium	97.4		No
02C15P2	2	Magnesium	29.8		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C16	2	Magnesium	39.7		No
02C16P2	2	Magnesium	26.8		No
02C17	2	Magnesium	42.6		No
02C17P2	2	Magnesium	218		No
02C18	2	Magnesium	28.4		No
02C18P2	2	Magnesium	127		No
02C20P3	2	Magnesium	161	Rinsate Blank, 1.74B	No
0201	3	Magnesium	126		No
0202	3	Magnesium	122		No
0203	3	Magnesium	56.3		No
0204	3	Magnesium	140		No
0205	3	Magnesium	220		No
0206	3	Magnesium	384		No
0207	3	Magnesium	165		No
0208	3	Magnesium	201		No
02C09	3	Magnesium	47.8		No
02C10	3	Magnesium	64.1		No
02C10P2	3	Magnesium	68.6		No
02C10P3	3	Magnesium	14.2		No
02C11	3	Magnesium	13.5		No
02C11P2	3	Magnesium	52.0		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C11P3	3	Magnesium	93.7		No
02C12	3	Magnesium	0.114B		No
02C12P2	3	Magnesium	0.353B		No
02C12P3	3	Magnesium	241		No
02C13	3	Magnesium	32.9		No
02C13P2	3	Magnesium	154		No
02C13P3	3	Magnesium	15.3		No
02C14	3	Magnesium	47.8		No
02C14P2	3	Magnesium	0.290B		No
02C14P3	3	Magnesium	93.8		No
02C15P2	3	Magnesium	31.1		No
02C16	3	Magnesium	31.5		No
02C16P2	3	Magnesium	26.0		No
02C17	3	Magnesium	34.0		No
02C17P2	3	Magnesium	216		No
02C18	3	Magnesium	30.5		No
02C18P2	3	Magnesium	120		No
02C19	3	Magnesium	41.7		No
02C19P2	3	Magnesium	90.9		No
02C20	3	Magnesium	21.4		No
02C20P2	3	Magnesium	3.26B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C20P3	3	Magnesium	192		No
02C22P3	3	Magnesium	281		No
0201	4	Magnesium	113		No
0202	4	Magnesium	89.5		No
0203	4	Magnesium	59.9		No
0204	4	Magnesium	123		No
0205	4	Magnesium	224		No
0206	4	Magnesium	325		No
0207	4	Magnesium	142		No
0208	4	Magnesium	163		No
02C09	4	Magnesium	47.4		No
02C10	4	Magnesium	68.3		No
02C10P2	4	Magnesium	60.7		No
02C10P3	4	Magnesium	14.4		No
02C11	4	Magnesium	28.1		No
02C11P2	4	Magnesium	45.6		No
02C11P3	4	Magnesium	82.3		No
02C12	4	Magnesium	230		No
02C12P2	4	Magnesium	1.21B		No
02C12P3	4	Magnesium	1.70B		No
02C13	4	Magnesium	32.6		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C13P2	4	Magnesium	155		No
02C13P3	4	Magnesium	8.48		No
02C14	4	Magnesium	43.7		No
02C14P2	4	Magnesium	0.142B		No
02C14P3	4	Magnesium	108		No
02C15P2	4	Magnesium	31.3		No
02C16	4	Magnesium	55.6		No
02C16P2	4	Magnesium	24.8		No
02C17	4	Magnesium	34.2		No
02C17P2	4	Magnesium	183		No
02C18	4	Magnesium	31.2		No
02C18P2	4	Magnesium	118		No
02C19	4	Magnesium	106		No
02C19P2	4	Magnesium	76.4		No
02C20	4	Magnesium	35.8		No
02C20P2	4	Magnesium	9.39		No
02C20P3	4	Magnesium	168		No
02C22P2	4	Magnesium	15.0		No
02C22P3	4	Magnesium	301		No
0202	1	Manganese	3.55		No
0203	1	Manganese	0.316		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	1	Manganese	3.49		No
0206	1	Manganese	14.8		No
0208	1	Manganese	1.22		No
02C09	1	Manganese	0.017		No
02C10	1	Manganese	0.020		No
02C10P2	1	Manganese	0.179		No
02C10P3	1	Manganese	1.47		No
02C11P2	1	Manganese	0.415		No
02C11P3	1	Manganese	1.92		No
02C12P3	1	Manganese	1.35		No
02C13P2	1	Manganese	2.25		No
02C13P3	1	Manganese	0.265		No
02C14P3	1	Manganese	0.074		No
02C15	1	Manganese	0.007B		No
02C15P2	1	Manganese	1.43		No
02C16P2	1	Manganese	0.464		No
02C17	1	Manganese	0.015		No
02C17P2	1	Manganese	1.14		No
02C18	1	Manganese	0.073		No
02C18P2	1	Manganese	1.55		No
02C19P2	1	Manganese	2.49		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C20P3	1	Manganese	0.445		No
02C22P3	1	Manganese	30.1		No
0202	2	Manganese	1.30		No
0204	2	Manganese	4.06		No
0205	2	Manganese	7.1		No
0206	2	Manganese	16.4		No
0207	2	Manganese	0.005B		No
0208	2	Manganese	0.007B		No
02C09	2	Manganese	0.011B		No
02C10	2	Manganese	0.022N		No
02C10P2	2	Manganese	0.149N		No
02C10P3	2	Manganese	1.66N		No
02C11	2	Manganese	0.006B	Rinsate Blank, 0.008B	Yes
02C11P2	2	Manganese	0.226	Rinsate Blank, 0.008B	No
02C11P3	2	Manganese	1.79	Rinsate Blank, 0.008B	No
02C12P3	2	Manganese	1.26		No
02C13	2	Manganese	0.008BN		No
02C13P2	2	Manganese	1.86N		No
02C13P3	2	Manganese	0.319N		No
02C14	2	Manganese	0.018		No
02C14P2	2	Manganese	0.006B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14P3	2	Manganese	2.48		No
02C15P2	2	Manganese	0.770		No
02C16P2	2	Manganese	0.484		No
02C17	2	Manganese	0.010B		No
02C17P2	2	Manganese	0.841		No
02C18	2	Manganese	0.054		No
02C18P2	2	Manganese	1.64		No
02C20P3	2	Manganese	0.403N		No
0201	3	Manganese	0.025	Field Blank, 0.007B	Yes
0202	3	Manganese	0.757	Field Blank, 0.007B	No
0203	3	Manganese	0.024	Field Blank, 0.007B	Yes
0204	3	Manganese	3.53	Field Blank, 0.007B	No
0205	3	Manganese	6.29	Field Blank, 0.007B	No
0206	3	Manganese	13.0	Field Blank, 0.007B	No
0207	3	Manganese	0.034	Field Blank, 0.007B	Yes
0208	3	Manganese	0.013B	Field Blank, 0.007B	Yes
02C09	3	Manganese	0.005B	Field Blank, 0.007B	Yes
02C10	3	Manganese	0.027	Field Blank, 0.007B	Yes
02C10P2	3	Manganese	0.297	Field Blank, 0.007B	No
02C10P3	3	Manganese	0.721	Field Blank, 0.007B	No
02C11	3	Manganese	0.011B	Field Blank, 0.007B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P2	3	Manganese	0.253	Field Blank, 0.007B	No
02C11P3	3	Manganese	1.85	Field Blank, 0.007B	No
02C12P2	3	Manganese	0.009B	Field Blank, 0.007B	Yes
02C12P3	3	Manganese	2.03	Field Blank, 0.007B	No
02C13	3	Manganese	0.013B	Field Blank, 0.007B	Yes
02C13P2	3	Manganese	1.71	Field Blank, 0.007B	No
02C13P3	3	Manganese	0.946	Field Blank, 0.007B	No
02C14	3	Manganese	0.010B	Field Blank, 0.007B	Yes
02C14P2	3	Manganese	0.007B	Field Blank, 0.007B	Yes
02C14P3	3	Manganese	2.38	Field Blank, 0.007B	No
02C15P2	3	Manganese	0.815	Field Blank, 0.007B	No
02C16	3	Manganese	0.014	Field Blank, 0.007B	Yes
02C16P2	3	Manganese	0.436	Field Blank, 0.007B	No
02C17	3	Manganese	0.025	Field Blank, 0.007B	Yes
02C17P2	3	Manganese	0.911	Field Blank, 0.007B	No
02C18	3	Manganese	0.051	Field Blank, 0.007B	Yes
02C18P2	3	Manganese	1.51	Field Blank, 0.007B	No
02C19	3	Manganese	0.012B	Field Blank, 0.007B	Yes
02C19P2	3	Manganese	3.24	Field Blank, 0.007B	No
02C20	3	Manganese	0.011B	Field Blank, 0.007B	Yes
02C20P2	3	Manganese	0.006B	Field Blank, 0.007B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C20P3	3	Manganese	0.490	Field Blank, 0.007B	No
02C22P3	3	Manganese	30.1	Field Blank, 0.007B	No
0202	4	Manganese	0.164		No
0203	4	Manganese	0.019		No
0204	4	Manganese	3.61		No
0205	4	Manganese	6.22		No
0206	4	Manganese	2.4		No
0208	4	Manganese	0.090		No
02C09	4	Manganese	0.005B		No
02C10	4	Manganese	0.020		No
02C10P2	4	Manganese	0.193		No
02C10P3	4	Manganese	0.621		No
02C11P2	4	Manganese	0.366		No
02C11P3	4	Manganese	2.04		No
02C12	4	Manganese	1.38		No
02C13	4	Manganese	0.006B		No
02C13P2	4	Manganese	1.54		No
02C13P3	4	Manganese	0.183		No
02C14	4	Manganese	0.013B		No
02C14P3	4	Manganese	2.61		No
02C15P2	4	Manganese	0.961		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C16	4	Manganese	0.009B		No
02C16P2	4	Manganese	0.410		No
02C17	4	Manganese	0.021		No
02C17P2	4	Manganese	0.710		No
02C18	4	Manganese	0.033		No
02C18P2	4	Manganese	1.59		No
02C19	4	Manganese	0.011B		No
02C19P2	4	Manganese	3.27		No
02C20	4	Manganese	0.020		No
02C20P2	4	Manganese	0.005B		No
02C20P3	4	Manganese	0.525		No
02C22P2	4	Manganese	0.012B		No
02C22P3	4	Manganese	28.0		No
0202	1	Nickel	0.034B		No
0204	1	Nickel	1.15		No
0206	1	Nickel	1.67		No
0208	1	Nickel	0.057		No
02C09	1	Nickel	0.005B		No
02C10	1	Nickel	0.005B		No
02C11P2	1	Nickel	0.139		No
02C11P3	1	Nickel	0.944		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P3	1	Nickel	0.011B		No
02C13P2	1	Nickel	0.029B		No
02C13P3	1	Nickel	0.006B		No
02C15P2	1	Nickel	0.066		No
02C16P2	1	Nickel	0.224		No
02C17P2	1	Nickel	0.116		No
02C18P2	1	Nickel	0.093		No
02C19P2	1	Nickel	0.081		No
02C22P3	1	Nickel	0.593		No
0202	2	Nickel	0.010B		No
0204	2	Nickel	0.905		No
0205	2	Nickel	0.048		No
0206	2	Nickel	1.84		No
0208	2	Nickel	0.027B		No
02C10	2	Nickel	0.005B	Rinsate Blank, 0.005B	Yes
02C10P3	2	Nickel	0.007B	Rinsate Blank, 0.005B	Yes
02C11P2	2	Nickel	0.122		No
02C11P3	2	Nickel	0.923		No
02C12P3	2	Nickel	0.014B		No
02C13	2	Nickel	0.007B	Rinsate Blank, 0.005B	Yes
02C13P2	2	Nickel	0.039B	Rinsate Blank, 0.005B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C13P3	2	Nickel	0.016B	Rinsate Blank, 0.005B	Yes
02C14P3	2	Nickel	0.514		No
02C15P2	2	Nickel	0.088		No
02C16P2	2	Nickel	0.250		No
02C17P2	2	Nickel	0.118		No
02C18P2	2	Nickel	0.078		No
02C20P3	2	Nickel	0.014B	Rinsate Blank, 0.005B	Yes
0201	3	Nickel	0.007B		No
0202	3	Nickel	0.023		No
0204	3	Nickel	0.955		No
0205	3	Nickel	0.038B		No
0206	3	Nickel	1.85		No
0207	3	Nickel	0.012B		No
0208	3	Nickel	0.043		No
02C10	3	Nickel	0.008B		No
02C10P3	3	Nickel	0.008B		No
02C11P2	3	Nickel	0.156		No
02C11P3	3	Nickel	0.985		No
02C12P3	3	Nickel	0.014B		No
02C13P2	3	Nickel	0.043		No
02C13P3	3	Nickel	0.011B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14P3	3	Nickel	0.524		No
02C15P2	3	Nickel	0.098		No
02C16P2	3	Nickel	0.231		No
02C17P2	3	Nickel	0.176		No
02C18	3	Nickel	0.005B	M	No
02C18P2	3	Nickel	0.067		No
02C19P2	3	Nickel	0.144		No
02C22P3	3	Nickel	0.615		No
0202	4	Nickel	0.013B	M	No
0203	4	Nickel	0.005B	M	No
0204	4	Nickel	1.00		No
0205	4	Nickel	0.050		No
0206	4	Nickel	1.43		No
0207	4	Nickel	0.006B	M	No
0208	4	Nickel	0.047		No
02C09	4	Nickel	0.024B	M	No
02C10	4	Nickel	0.046		No
02C10P3	4	Nickel	0.018B	M	No
02C11	4	Nickel	0.007B	M	No
02C11P2	4	Nickel	0.299		No
02C11P3	4	Nickel	1.02		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12	4	Nickel	0.034B		No
02C12P2	4	Nickel	0.016B		No
02C12P3	4	Nickel	0.013B		No
02C13	4	Nickel	0.013B		No
02C13P2	4	Nickel	0.047		No
02C13P3	4	Nickel	0.013B		No
02C14P3	4	Nickel	0.545		No
02C15P2	4	Nickel	0.211		No
02C16	4	Nickel	0.002B		No
02C16P2	4	Nickel	0.242		No
02C17	4	Nickel	0.013B		No
02C17P2	4	Nickel	0.196		No
02C18	4	Nickel	0.005B		No
02C18P2	4	Nickel	0.104		No
02C19P2	4	Nickel	0.127		No
02C20	4	Nickel	0.022B		No
02C20P2	4	Nickel	0.019B		No
02C20P3	4	Nickel	0.005B		No
02C22P3	4	Nickel	0.565		No
0202	1	Potassium	4.21B	Field Blank, 2.50	Yes
0203	1	Potassium	3.39B	Field Blank, 2.50	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	1	Potassium	5.22	Field Blank, 2.50	Yes
0206	1	Potassium	5.70	Field Blank, 2.50	Yes
0207	1	Potassium	2.31B	Field Blank, 2.50	Yes
0208	1	Potassium	3.17B	Field Blank, 2.50	Yes
02C09	1	Potassium	7.70	Field Blank, 2.50	Yes
02C10	1	Potassium	10.2	Field Blank, 2.50	Yes
02C10P2	1	Potassium	8.48	Field Blank, 2.50	Yes
02C11	1	Potassium	72.8	Field Blank, 2.50	No
02C11P2	1	Potassium	5.55	Field Blank, 2.50	Yes
02C11P3	1	Potassium	4.55B	Field Blank, 2.50	Yes
02C12P2	1	Potassium	8.54	Field Blank, 2.50	Yes
02C12P3	1	Potassium	25.5	Field Blank, 2.50	No
02C13P2	1	Potassium	7.49	Field Blank, 2.50	Yes
02C14	1	Potassium	12.3	Field Blank, 2.50	Yes
02C14P2	1	Potassium	12.3	Field Blank, 2.50	Yes
02C15	1	Potassium	35.9	Field Blank, 2.50	No
02C15P2	1	Potassium	6.21	Field Blank, 2.50	Yes
02C16	1	Potassium	50.5	Field Blank, 2.50	No
02C16P2	1	Potassium	3.13B	Field Blank, 2.50	Yes
02C17	1	Potassium	7.85	Field Blank, 2.50	Yes
02C17P2	1	Potassium	7.10	Field Blank, 2.50	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C18	1	Potassium	6.91	Field Blank, 2.50	Yes
02C18P2	1	Potassium	7.70	Field Blank, 2.50	Yes
02C19	1	Potassium	16.4	Field Blank, 2.50	No
02C19P2	1	Potassium	6.02	Field Blank, 2.50	Yes
02C20	1	Potassium	46.8	Field Blank, 2.50	No
02C20P2	1	Potassium	49.9	Field Blank, 2.50	No
02C20P3	1	Potassium	3.47B	Field Blank, 2.50	Yes
02C22P2	1	Potassium	4.61B	Field Blank, 2.50	Yes
02C22P3	1	Potassium	14.3	Field Blank, 2.50	No
0202	2	Potassium	4.81B		No
0203	2	Potassium	5.79		No
0204	2	Potassium	5.42		No
0205	2	Potassium	8.47		No
0206	2	Potassium	7.08		No
0207	2	Potassium	2.83B		No
0208	2	Potassium	4.28B		No
02C09	2	Potassium	7.16		No
02C10	2	Potassium	13.5		No
02C10P2	2	Potassium	7.95		No
02C10P3	2	Potassium	1.46B		No
02C11	2	Potassium	58.8		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P2	2	Potassium	3.81B		No
02C11P3	2	Potassium	4.81		No
02C12P2	2	Potassium	8.72		No
02C12P3	2	Potassium	34.5		No
02C13	2	Potassium	16.1		No
02C13P2	2	Potassium	8.59		No
02C13P3	2	Potassium	1.14B		No
02C14	2	Potassium	20.0		No
02C14P2	2	Potassium	7.51		No
02C14P3	2	Potassium	3.69B		No
02C15P2	2	Potassium	6.42		No
02C16	2	Potassium	43.1		No
02C16P2	2	Potassium	3.14B		No
02C17	2	Potassium	5.75		No
02C17P2	2	Potassium	6.97		No
02C18	2	Potassium	5.51		No
02C18P2	2	Potassium	7.74		No
02C20P3	2	Potassium	3.81B		No
0201	3	Potassium	3.36B		No
0202	3	Potassium	5.48		No
0203	3	Potassium	4.77B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0204	3	Potassium	6.54		No
0205	3	Potassium	8.75		No
0206	3	Potassium	8.31		No
0207	3	Potassium	4.14B		No
0208	3	Potassium	4.91B		No
02C09	3	Potassium	4.31B		No
02C10	3	Potassium	9.37		No
02C10P2	3	Potassium	6.31		No
02C10P3	3	Potassium	1.17B		No
02C11	3	Potassium	48.8		No
02C11P2	3	Potassium	4.33B		No
02C11P3	3	Potassium	5.90		No
02C12	3	Potassium	650		No
02C12P2	3	Potassium	11.4		No
02C12P3	3	Potassium	14.9		No
02C13	3	Potassium	10.1		No
02C13P2	3	Potassium	7.88		No
02C13P3	3	Potassium	1.34B		No
02C14	3	Potassium	17.0		No
02C14P2	3	Potassium	7.24		No
02C14P3	3	Potassium	4.64B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C15P2	3	Potassium	6.52B		No
02C16	3	Potassium	41.2		No
02C16P2	3	Potassium	4.59B		No
02C17	3	Potassium	8.96		No
02C17P2	3	Potassium	8.81		No
02C18	3	Potassium	7.53		No
02C18P2	3	Potassium	8.52		No
02C19	3	Potassium	15.6		No
02C19P2	3	Potassium	7.31		No
02C20	3	Potassium	60.5		No
02C20P2	3	Potassium	38.6		No
02C20P3	3	Potassium	4.08B		No
02C22P3	3	Potassium	15.4		No
0201	4	Potassium	2.87B	Rinsate Blank, 1.44B	Yes
0202	4	Potassium	4.87B	Rinsate Blank, 3.49	Yes
0203	4	Potassium	4.24B	Rinsate Blank, 3.49	Yes
0204	4	Potassium	5.74	Rinsate Blank, 3.49	Yes
0205	4	Potassium	11.2	Rinsate Blank, 3.31B	Yes
0206	4	Potassium	10.4	Rinsate Blank, 1.44B	No
0207	4	Potassium	3.98B	Rinsate Blank, 1.44B	Yes
0208	4	Potassium	5.71	Rinsate Blank, 1.44B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C09	4	Potassium	4.82B	Rinsate Blank, 3.31B	Yes
02C10	4	Potassium	8.39	Rinsate Blank, 3.31B	Yes
02C10P2	4	Potassium	7.42	Rinsate Blank, 3.31B	Yes
02C10P3	4	Potassium	1.22B	Rinsate Blank, 3.31B	Yes
02C11	4	Potassium	66.1	Rinsate Blank, 3.49	No
02C11P2	4	Potassium	7.30	Rinsate Blank, 3.49	Yes
02C11P3	4	Potassium	5.41	Rinsate Blank, 3.49	Yes
02C12	4	Potassium	26.1	Rinsate Blank, 3.31B	No
02C12P2	4	Potassium	14.2	Rinsate Blank, 3.31B	Yes
02C12P3	4	Potassium	218	Rinsate Blank, 3.31B	No
02C13	4	Potassium	11.3	Rinsate Blank, 3.31B	Yes
02C13P2	4	Potassium	8.3	Rinsate Blank, 3.31B	Yes
02C13P3	4	Potassium	0.923B	Rinsate Blank, 3.31B	Yes
02C14	4	Potassium	27.4	Rinsate Blank, 3.49	No
02C14P2	4	Potassium	6.76	Rinsate Blank, 3.49	Yes
02C14P3	4	Potassium	4.06B	Rinsate Blank, 3.49	Yes
02C15P2	4	Potassium	6.03	Rinsate Blank, 3.49	Yes
02C16	4	Potassium	39.8	Rinsate Blank, 3.49	No
02C16P2	4	Potassium	3.28B	Rinsate Blank, 3.49	Yes
02C17	4	Potassium	6.64	Rinsate Blank, 1.44B	Yes
02C17P2	4	Potassium	6.93	Rinsate Blank, 1.44B	Yes

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C18	4	Potassium	7.72	Rinsate Blank, 1.44B	No
02C18P2	4	Potassium	8.43	Rinsate Blank, 1.44B	No
02C19	4	Potassium	20.1	Rinsate Blank, 1.44B	No
02C19P2	4	Potassium	6.72	Rinsate Blank, 1.44B	Yes
02C20	4	Potassium	66.0	Rinsate Blank, 3.31B	No
02C20P2	4	Potassium	39.7	Rinsate Blank, 3.31B	No
02C20P3	4	Potassium	4.05B	Rinsate Blank, 3.31B	Yes
02C22P2	4	Potassium	7.31	Rinsate Blank, 3.49	Yes
02C22P3	4	Potassium	14.4	Rinsate Blank, 3.49	Yes
0206	1	Selenium	0.0022B		No
0207	1	Selenium	0.0043B		No
0208	1	Selenium	0.0029B		No
02C09	1	Selenium	0.0023B		No
02C10	1	Selenium	0.0032B		No
02C11	1	Selenium	0.0069B		No
02C15	1	Selenium	0.0042B		No
02C20P2	1	Selenium	0.0033B		No
02C20P3	1	Selenium	0.0033B		No
0207	2	Selenium	0.0054		No
0208	2	Selenium	0.0046BW		No
02C09	2	Selenium	0.0020B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C10	2	Selenium	0.0094		No
02C11	2	Selenium	0.0058		No
02C12P2	2	Selenium	0.0022B		No
02C13	2	Selenium	0.032B		No
02C17P2	2	Selenium	0.0022B		No
02C18	2	Selenium	0.0082		No
0201	3	Selenium	0.009		No
0207	3	Selenium	0.0030B		No
02C09	3	Selenium	0.0022B		No
02C10	3	Selenium	0.0032BW		No
02C11	3	Selenium	0.0026B		No
02C12	3	Selenium	0.0086		No
02C12P2	3	Selenium	0.0086		No
02C13	3	Selenium	0.058		No
02C17P2	3	Selenium	0.0022		No
02C18	3	Selenium	0.0030B		No
02C20P2	3	Selenium	0.0043B		No
0201	4	Selenium	0.0107		No
0207	4	Selenium	0.0052		No
0208	4	Selenium	0.0021B		No
02C10	4	Selenium	0.0039BW		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11	4	Selenium	0.0067		No
02C12P2	4	Selenium	0.0091		No
02C13	4	Selenium	0.0546		No
02C18	4	Selenium	0.0051		No
0202	1	Sodium	32.2	Rinsate Blank, 4.41B	No
0203	1	Sodium	14.1	Rinsate Blank, 4.41B	Yes
0204	1	Sodium	45.2	Rinsate Blank, 4.41B	No
0206	1	Sodium	71.5	Rinsate Blank, 4.41B	No
0207	1	Sodium	53.9	Rinsate Blank, 4.41B	No
0208	1	Sodium	63.3	Rinsate Blank, 4.41B	No
02C09	1	Sodium	69.6	Field Blank, 0.065	No
02C10	1	Sodium	266	Field Blank, 0.065	No
02C10P2	1	Sodium	24.1	Field Blank, 0.065	No
02C10P3	1	Sodium	27.4	Field Blank, 0.065	No
02C11	1	Sodium	194	Rinsate Blank, 4.41B	No
02C11P2	1	Sodium	41.9	Rinsate Blank, 4.41B	No
02C11P3	1	Sodium	49.7	Rinsate Blank, 4.41B	No
02C12P2	1	Sodium	89.5	Field Blank, 0.065	No
02C12P3	1	Sodium	174	Field Blank, 0.065	No
02C13P2	1	Sodium	80.0	Field Blank, 0.065	No
02C13P3	1	Sodium	33.2	Field Blank, 0.065	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C14	1	Sodium	74.1	Rinsate Blank, 4.41B	No
02C14P2	1	Sodium	22.9	Rinsate Blank, 4.41B	No
02C14P3	1	Sodium	8.54	Rinsate Blank, 4.41B	Yes
02C15	1	Sodium	46.1	Rinsate Blank, 4.41B	No
02C15P2	1	Sodium	22.3	Rinsate Blank, 4.41B	No
02C16	1	Sodium	71.6	Rinsate Blank, 4.41B	No
02C16P2	1	Sodium	20.5	Rinsate Blank, 4.41B	Yes
02C17	1	Sodium	55.8	Rinsate Blank, 4.41B	No
02C17P2	1	Sodium	77.0	Rinsate Blank, 4.41B	No
02C18	1	Sodium	90.7	Rinsate Blank, 4.41B	No
02C18P2	1	Sodium	51.4	Rinsate Blank, 4.41B	No
02C19	1	Sodium	37.2	Rinsate Blank, 4.41B	No
02C19P2	1	Sodium	34.1	Rinsate Blank, 4.41B	No
02C20	1	Sodium	52.5	Field Blank, 0.065B	No
02C20P2	1	Sodium	53.4	Field Blank, 0.065B	No
02C20P3	1	Sodium	163	Field Blank, 0.065B	No
02C22P2	1	Sodium	2.45B	Rinsate Blank, 4.41B	Yes
02C22P3	1	Sodium	22.5	Rinsate Blank, 4.41B	No
0202	2	Sodium	33.7	Rinsate Blank, 0.124B	No
0203	2	Sodium	23.9	Rinsate Blank, 0.124B	No
0204	2	Sodium	40.6	Rinsate Blank, 0.486	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0205	2	Sodium	52.0	Rinsate Blank, 0.486	No
0206	2	Sodium	81.0	Rinsate Blank, 0.124B	No
0207	2	Sodium	60.1	Rinsate Blank, 0.124B	No
0208	2	Sodium	70.0	Rinsate Blank, 0.124B	No
02C09	2	Sodium	57.1		No
02C10	2	Sodium	269	Rinsate Blank, 2.13	No
02C10P2	2	Sodium	22.1	Rinsate Blank, 2.13	No
02C10P3	2	Sodium	26.9	Rinsate Blank, 2.13	No
02C11	2	Sodium	174	Rinsate Blank, 0.486	No
02C11P2	2	Sodium	38.7	Rinsate Blank, 0.486	No
02C11P3	2	Sodium	58.7	Rinsate Blank, 0.486	No
02C12P2	2	Sodium	85.6		No
02C12P3	2	Sodium	138		No
02C13	2	Sodium	41.7	Rinsate Blank, 2.13	No
02C13P2	2	Sodium	72.3	Rinsate Blank, 2.13	No
02C13P3	2	Sodium	39.0	Rinsate Blank, 2.13	No
02C14	2	Sodium	56.1		No
02C14P2	2	Sodium	20.2		No
02C14P3	2	Sodium	32.5		No
02C15P2	2	Sodium	24.1	Rinsate Blank, 0.124B	No
02C16	2	Sodium	74.4	Rinsate Blank, 0.124B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C17	2	Sodium	55.0	Rinsate Blank, 0.124B	No
02C17P2	2	Sodium	82.7	Rinsate Blank, 0.124B	No
02C18	2	Sodium	97.7	Rinsate Blank, 0.124B	No
02C18P2	2	Sodium	53.1	Rinsate Blank, 0.124B	No
02C20P3	2	Sodium	141	Rinsate Blank, 2.13	No
0201	3	Sodium	213	Field Blank, 0.215B	No
0202	3	Sodium	37.2	Field Blank, 0.215B	No
0203	3	Sodium	17.2	Field Blank, 0.215B	No
0204	3	Sodium	42.6	Field Blank, 0.215B	No
0205	3	Sodium	57.8	Field Blank, 0.215B	No
0206	3	Sodium	77.0	Field Blank, 0.215B	No
0207	3	Sodium	55.1	Field Blank, 0.215B	No
0208	3	Sodium	62.5	Field Blank, 0.215B	No
02C09	3	Sodium	57.4	Field Blank, 0.215B	No
02C10	3	Sodium	256	Field Blank, 0.215B	No
02C10P2	3	Sodium	21.2	Field Blank, 0.215B	No
02C10P3	3	Sodium	29.0	Field Blank, 0.215B	No
02C11	3	Sodium	155	Field Blank, 0.215B	No
02C11P2	3	Sodium	36.1	Field Blank, 0.215B	No
02C11P3	3	Sodium	48.7	Field Blank, 0.215B	No
02C12	3	Sodium	247	Field Blank, 0.215B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C12P2	3	Sodium	88.6	Field Blank, 0.215B	No
02C12P3	3	Sodium	129	Field Blank, 0.215B	No
02C13	3	Sodium	34.4	Field Blank, 0.215B	No
02C13P2	3	Sodium	65.5	Field Blank, 0.215B	No
02C13P3	3	Sodium	34.8	Field Blank, 0.215B	No
02C14	3	Sodium	57.3	Field Blank, 0.215B	No
02C14P2	3	Sodium	19.6	Field Blank, 0.215B	No
02C14P3	3	Sodium	34.3	Field Blank, 0.215B	No
02C15P2	3	Sodium	26.6	Field Blank, 0.215B	No
02C16	3	Sodium	64.2	Field Blank, 0.215B	No
02C16P2	3	Sodium	20.7	Field Blank, 0.215B	No
02C17	3	Sodium	57.5	Field Blank, 0.215B	No
02C17P2	3	Sodium	81.8	Field Blank, 0.215B	No
02C18	3	Sodium	106	Field Blank, 0.215B	No
02C18P2	3	Sodium	53.8	Field Blank, 0.215B	No
02C19	3	Sodium	39.4	Field Blank, 0.215B	No
02C19P2	3	Sodium	20.9	Field Blank, 0.215B	No
02C20	3	Sodium	137	Field Blank, 0.215B	No
02C20P2	3	Sodium	43.2	Field Blank, 0.215B	No
02C20P3	3	Sodium	153	Field Blank, 0.215B	No
02C22P3	3	Sodium	21.8	Field Blank, 0.215B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0201	4	Sodium	205	Rinsate Blank, 0.877B	No
0202	4	Sodium	40.5	Rinsate Blank, 1.33B	No
0203	4	Sodium	19.5	Rinsate Blank, 1.33B	No
0204	4	Sodium	41.5	Rinsate Blank, 1.33B	No
0205	4	Sodium	58.3	Rinsate Blank, 1.76B	No
0206	4	Sodium	73.1	Rinsate Blank, 0.877B	No
0207	4	Sodium	62.3	Rinsate Blank, 0.877B	No
0208	4	Sodium	63.8	Rinsate Blank, 0.877B	No
02C09	4	Sodium	60.4	Rinsate Blank, 1.76B	No
02C10	4	Sodium	248	Rinsate Blank, 1.76B	No
02C10P2	4	Sodium	18.3	Rinsate Blank, 1.76B	No
02C10P3	4	Sodium	30.0	Rinsate Blank, 1.76B	No
02C11	4	Sodium	177	Rinsate Blank, 1.33B	No
02C11P2	4	Sodium	38.9	Rinsate Blank, 1.33B	No
02C11P3	4	Sodium	49.7	Rinsate Blank, 1.33B	No
02C12	4	Sodium	138	Rinsate Blank, 1.76B	No
02C12P2	4	Sodium	84.4	Rinsate Blank, 1.76B	No
02C12P3	4	Sodium	213	Rinsate Blank, 1.76B	No
02C13	4	Sodium	42.4	Rinsate Blank, 1.76B	No
02C13P2	4	Sodium	67.2	Rinsate Blank, 1.76B	No
02C13P3	4	Sodium	38.3	Rinsate Blank, 1.76B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
			Metals		
02C14	4	Sodium	63.0	Rinsate Blank, 1.33B	No
02C14P2	4	Sodium	19.2	Rinsate Blank, 1.33B	No
02C14P3	4	Sodium	35.1	Rinsate Blank, 1.33B	No
02C15P2	4	Sodium	32.1	Rinsate Blank, 1.33B	No
02C16	4	Sodium	75.9	Rinsate Blank, 1.33B	No
02C16P2	4	Sodium	19.6	Rinsate Blank, 1.33B	No
02C17	4	Sodium	52.2	Rinsate Blank, 0.877B	No
02C17P2	4	Sodium	80.5	Rinsate Blank, 0.877B	No
02C18	4	Sodium	85.4	Rinsate Blank, 0.877B	No
02C18P2	4	Sodium	54.8	Rinsate Blank, 0.877B	No
02C19	4	Sodium	78.6	Rinsate Blank, 0.877B	No
02C19P2	4	Sodium	22.1	Rinsate Blank, 0.877B	No
02C20	4	Sodium	159	Rinsate Blank, 1.76B	No
02C20P2	4	Sodium	55.6	Rinsate Blank, 1.76B	No
02C20P3	4	Sodium	155	Rinsate Blank, 1.76B	No
02C22P2	4	Sodium	3.28B	Rinsate Blank, 1.33B	Yes
02C22P3	4	Sodium	22.1	Rinsate Blank, 1.33B	No
02C14P2	1	Vanadium	0.007B		No
02C17P2	1	Vanadium	0.006B		No
02C22P3	1	Vanadium	0.006B		No
0203	3	Vanadium	0.011B		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C11P3	3	Vanadium	0.010B		No
02C12	3	Vanadium	0.011B		No
02C14P2	3	Vanadium	0.013B		No
0205	4	Vanadium	0.023B		No
02C09	4	Vanadium	0.019B		No
02C10P3	4	Vanadium	0.018B		No
02C12	4	Vanadium	0.019B		No
02C12P2	4	Vanadium	0.017B		No
02C12P3	4	Vanadium	0.016B		No
02C13P2	4	Vanadium	0.011B		No
02C14P2	4	Vanadium	0.011B		No
02C20	4	Vanadium	0.021B		No
0204	1	Zinc	0.755	Field Blank, 0.006B	No
0206	1	Zinc	1.17	Field Blank, 0.006B	No
0208	1	Zinc	0.070	Field Blank, 0.006B	No
02C10P3	1	Zinc	0.027	Field Blank, 0.006B	Yes
02C11P2	1	Zinc	0.178	Field Blank, 0.006B	No
02C11P3	1	Zinc	1.78	Field Blank, 0.006B	No
02C12P3	1	Zinc	0.007B	Field Blank, 0.006B	Yes
02C15P2	1	Zinc	0.037	Field Blank, 0.006B	No
02C16P2	1	Zinc	0.069	Field Blank, 0.006B	No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C17P2	1	Zinc	0.116	Field Blank, 0.006B	No
02C22P3	1	Zinc	0.373	Field Blank, 0.006B	No
0204	2	Zinc	0.418		No
0206	2	Zinc	1.58N		No
0208	2	Zinc	0.058N		No
02C10P2	2	Zinc	0.007B	Rinsate Blank, 0.006B	Yes
02C10P3	2	Zinc	0.031	Rinsate Blank, 0.006B	No
02C11P2	2	Zinc	0.118		No
02C11P3	2	Zinc	1.39		No
02C13	2	Zinc	0.007B	Rinsate Blank, 0.006B	Yes
02C13P2	2	Zinc	0.037B	Rinsate Blank, 0.006B	No
02C13P3	2	Zinc	0.021	Rinsate Blank, 0.006B	Yes
02C14P3	2	Zinc	0.075		No
02C15P2	2	Zinc	0.183		No
02C16P2	2	Zinc	0.043N		No
02C17P2	2	Zinc	0.152N		No
02C18P2	2	Zinc	0.014BN		No
02C20P3	2	Zinc	0.006B	Rinsate Blank, 0.006B	Yes
0204	3	Zinc	0.484		No
0205	3	Zinc	0.015B		No
0206	3	Zinc	1.61		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
0207	3	Zinc	0.005B		No
0208	3	Zinc	0.062		No
02C10P3	3	Zinc	0.030		No
02C11P2	3	Zinc	0.193		No
02C11P3	3	Zinc	1.61		No
02C14P3	3	Zinc	0.109		No
02C15P2	3	Zinc	0.185		No
02C16P2	3	Zinc	0.042		No
02C17	3	Zinc	0.007B		No
02C17P2	3	Zinc	0.266		No
02C18P2	3	Zinc	0.006B		No
02C19P2	3	Zinc	0.021		No
02C22P3	3	Zinc	0.396		No
0204	4	Zinc	0.585		No
0206	4	Zinc	1.14		No
0208	4	Zinc	0.092		No
02C10P3	4	Zinc	0.022		No
02C11P2	4	Zinc	0.428		No
02C11P3	4	Zinc	1.79		No
02C12	4	Zinc	0.011B		No
02C14P3	4	Zinc	0.103		No

Appendix F (Continued)

Well No.	Rnd No.	Detected Compound	Concentration (mg/L)	QC Sample Concentration (mg/L)	Artifact ?
Metals					
02C15P2	4	Zinc	0.489		No
02C16	4	Zinc	0.035		No
02C16P2	4	Zinc	0.069		No
02C17	4	Zinc	0.036		No
02C17P2	4	Zinc	0.344		No
02C18P2	4	Zinc	0.010B		No
02C19P2	4	Zinc	0.012B		No
02C22P3	4	Zinc	0.397		No

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Appendix G
Excerpt from "USEPA Statistical Analysis Groundwater Monitoring Data at RCRA Facilities"

SECTION 4

CHOOSING A STATISTICAL METHOD

This section discusses the choice of an appropriate statistical method. Section 4.1 includes a flowchart to guide this selection. Section 4.2 contains procedures to test the distributional assumptions of statistical methods and Section 4.3 has procedures to test specifically for equality of variances.

The choice of an appropriate statistical test depends on the type of monitoring and the nature of the data. The proportion of values in the data set that are below detection is one important consideration. If most of the values are below detection, a test of proportions is suggested.

One set of statistical procedures is suggested when the monitoring consists of comparisons of water sample data from the background (hydraulically upgradient) well with the sample data from compliance (hydraulically downgradient) wells. The recommended approach is analysis of variance (ANOVA). Also, for a facility with limited amounts of data, it is advisable to initially use the ANOVA method of data evaluation, and later, when sufficient amounts of data are collected, to change to a tolerance interval or a control chart approach for each compliance well. However, alternate approaches are allowed. These include adjustments for seasonality, use of tolerance intervals, and use of prediction intervals. These methods are discussed in Section 5.

When the monitoring objective is to compare the concentration of a hazardous constituent to a fixed level such as a maximum concentration limit (MCL), a different type of approach is needed. This type of comparison commonly serves as a basis of compliance monitoring. Control charts may be used, as may tolerance or confidence intervals. Methods for comparison with a fixed level are presented in Section 6.

When a long history of data from each well is available, intra-well comparisons are appropriate. That is, the data from a single uncontaminated well are compared over time to detect shifts in concentration, or gradual trends in concentration that may indicate contamination. Methods for this situation are presented in Section 7.

4.1 FLOWCHARTS--OVERVIEW AND USE

The selection and use of a statistical procedure for ground-water monitoring is a detailed process. Because a single flowchart would become too complicated for easy use, a series of flowcharts has been developed. These flowcharts are found at the beginning of each section and are intended to

SECTION 5

BACKGROUND WELL TO COMPLIANCE WELL COMPARISONS

There are many situations in ground-water monitoring that call for the comparison of data from different wells. The assumption is that a set of uncontaminated wells can be defined. Generally these are background wells and have been sited to be hydraulically upgradient from the regulated unit. A second set of wells are sited hydraulically downgradient from the regulated unit and are otherwise known as compliance wells. The data from these compliance wells are compared to the data from the background wells to determine whether there is any evidence of contamination in the compliance wells that would presumably result from a release from the regulated unit.

If the owner or operator of a hazardous waste facility does not have reason to suspect that the test assumptions of equal variance or normality will be violated, then he or she may simply choose the parametric analysis of variance as a default method of statistical analysis. In the event that this method indicates a statistically significant difference between the groups being tested, then the test assumptions should be evaluated.

This situation, where the relevant comparison is between data from background wells and data from compliance wells, is the topic of this section. Comparisons between background well data and compliance well data may be called for in all phases of monitoring. This type of comparison is the general case for detection monitoring. It is also the usual approach for compliance monitoring if the compliance limits are determined by the background well constituent concentration levels. Compounds that are present in background wells (e.g., naturally occurring metals) are most appropriately evaluated using this comparison method.

Section 5.1 provides a flowchart and overview for the selection of methods for comparison of background well and compliance well data. Section 5.2 contains analysis of variance methods. These provide methods for directly comparing background well data to compliance well data. Section 5.3 describes a tolerance interval approach, where the background well data are used to define the tolerance limits for comparison with the compliance well data. Section 5.4 contains an approach based on prediction intervals, again using the background well data to determine the prediction interval for comparison with the compliance well data. Methods for comparing data to a fixed compliance limit (an MCL or ACL) will be described in Section 6.

5.1 SUMMARY FLOWCHART FOR BACKGROUND WELL TO COMPLIANCE WELL COMPARISONS

Figure 5-1 is a flowchart to aid in selecting the appropriate statistical procedure for background well to compliance well comparisons. The first step is to determine whether most of the observations are quantified (that is, above the detection limits) or not. Generally, if more than 50% of the observations are below the detection limit (as might be the case with detection or compliance monitoring for volatile organics) then the appropriate comparison is a test of proportions. The test of proportions compares the proportion of detected values in the background wells to those in the compliance wells. See Section 8.1 for a discussion of dealing with data below the detection limit.

If the proportion of detected values is 50% or more, then an analysis of variance procedure is the first choice. Tolerance limits or prediction intervals are acceptable alternate choices that the user may select. The analysis of variance procedures give a more thorough picture of the situation at the facility. However, the tolerance limit or prediction interval approach is acceptable and requires less computation in many situations.

Figure 5-2 is a flowchart to guide the user if a tolerance limits approach is selected. The first step in using Figure 5-2 is to determine whether the facility is in detection monitoring. If so, much of the data may be below the detection limit. See Section 8.1 for a discussion of this case, which may call for consulting a statistician. If most of the data are quantified, then follow the flow chart to determine if normal tolerance limits can be used. If the data are not normal (as determined by one of the procedures in Section 4.2), then the logarithm transformation may be done and the transformed data checked for normality. If the log data are normal, the lognormal tolerance limit should be used. If neither the original data nor the log-transformed data are normal, seek consultation with a professional statistician.

If a prediction interval is selected as the method of choice, see Section 5.4 for guidance in performing the procedure.

If analysis of variance is to be used, then continue with Figure 5-1 to select the specific method that is appropriate. A one-way analysis of variance is recommended. If the data show evidence of seasonality (observed, for example, in a plot of the data over time), a trend analysis or perhaps a two-way analysis of variance may be the appropriate choice. These instances may require consultation with a professional statistician.

If the one-way analysis of variance is appropriate, the computations are performed, then the residuals are checked to see if they meet the assumptions of normality and equal variance. If so, the analysis concludes. If not, a logarithm transformation may be tried and the residuals from the analysis of variance on the log data are checked for assumptions. If these still do not adequately satisfy the assumptions, then a one-way nonparametric analysis of variance may be done, or professional consultation may be sought.

BACKGROUND WELL TO COMPLIANCE WELL COMPARISONS

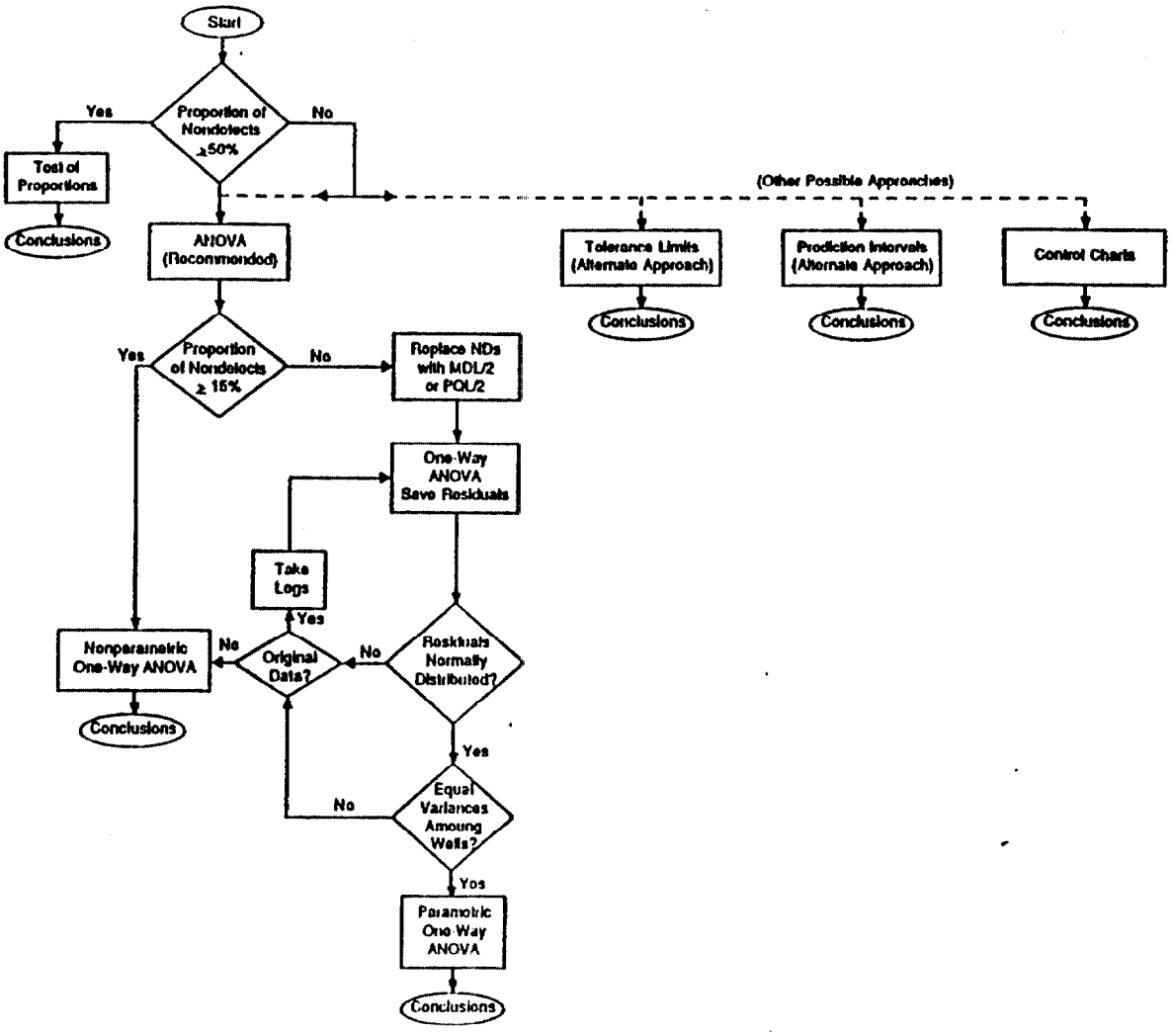

Figure 5-1. Background well to c lance well comparisons.

Tolerance Limits: Alternate Approach to Background Well To Compliance Well Comparisons

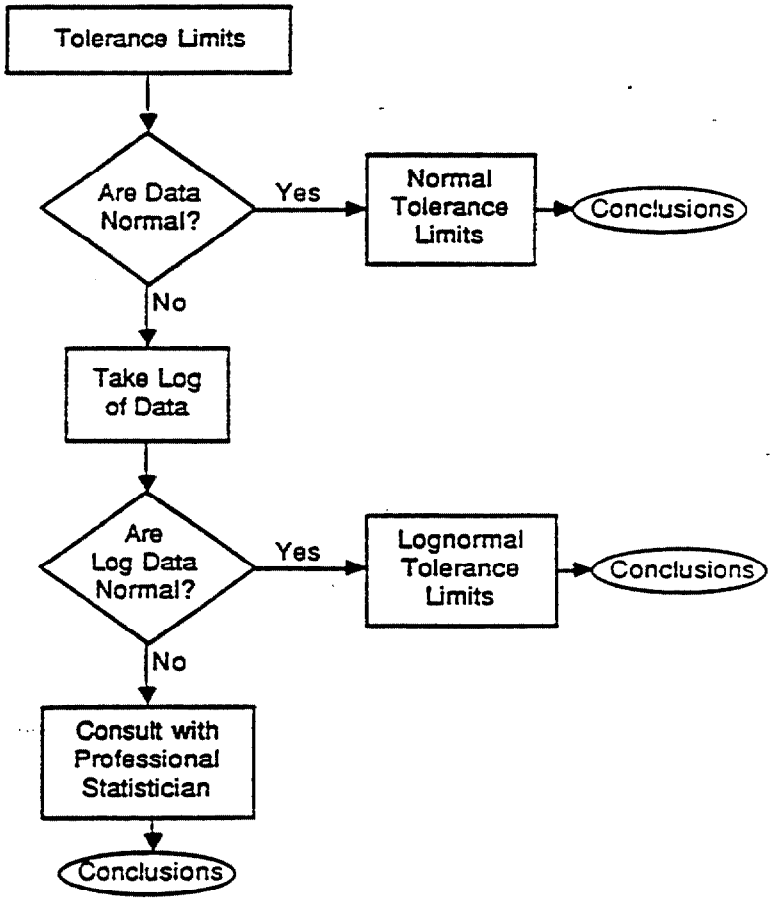

Figure 5-2. Tolerance limits: alternate approach to background well to compliance well comparisons.

5.2 ANALYSIS OF VARIANCE

If contamination of the ground water occurs from the waste disposal facility and if the monitoring wells are hydraulically upgradient and hydraulically downgradient from the site, then contamination is unlikely to change the levels of a constituent in all wells by the same amount. Thus, contamination from a disposal site can be seen as differences in average concentration among wells, and such differences can be detected by analysis of variance.

Analysis of variance (ANOVA) is the name given to a wide variety of statistical procedures. All of these procedures compare the means of different groups of observations to determine whether there are any significant differences among the groups, and if so, contrast procedures may be used to determine where the differences lie. Such procedures are also known in the statistical literature as general linear model procedures.

Because of its flexibility and power, analysis of variance is the preferred method of statistical analysis when the ground-water monitoring is based on a comparison of background and compliance well data. The ANOVA is especially useful in situations where sample sizes are small, as is the case during the initial phases of ground-water monitoring. Two types of analysis of variance are presented: parametric and nonparametric one-way analyses of variance. Both methods are appropriate when the only factor of concern is the different monitoring wells at a given sampling period.

The hypothesis tests with parametric analysis of variance usually assume that the errors (residuals) are normally distributed with equal variance. These assumptions can be checked by saving the residuals (the difference between the observations and the values predicted by the analysis of variance model) and using the tests of assumptions presented in Section 4. Since the data will generally be concentrations and since concentration data are often found to follow the lognormal distribution, the log transformation is suggested if substantial violations of the assumptions are found in the analysis of the original concentration data. If the residuals from the transformed data do not meet the parametric ANOVA requirements, then nonparametric approaches to analysis of variance are available using the ranks of the observations. A one-way analysis of variance using the ranks is presented in Section 5.2.2.

When several sampling periods have been used and it is important to consider the sampling periods as a second factor, then two-way analysis of variance, parametric or nonparametric, is appropriate. This would be one way to test for and adjust the data for seasonality. Also, trend analysis (e.g., time series) may be used to identify seasonality in the data set. If necessary, data that exhibit seasonal trends can be adjusted. Usually, however, seasonal variation will affect all wells at a facility by nearly the same amount, and in most circumstances, corrections will not be necessary. Further, the effects of seasonality will be substantially reduced by simultaneously comparing aggregate compliance well data to background well data. Situations that require an analysis procedure other than a one-way ANOVA should be referred to a professional statistician.

5.2.1 One-Way Parametric Analysis of Variance

In the context of ground-water monitoring, two situations exist for which a one-way analysis of variance is most applicable:

* Data for a water quality parameter are available from several wells but for only one time period (e.g., monitoring has just begun).

* Data for a water quality parameter are available from several wells for several time periods. However, the data do not exhibit seasonality.

In order to apply a parametric one-way analysis of variance, a minimum number of observations is needed to give meaningful results. At least $p \geq 2$ groups are to be compared (i.e., two or more wells). It is recommended that each group (here, wells) have at least three observations and that the total sample size, N, be large enough so that $N-p \geq 5$. A variety of combinations of groups and number of observations in groups will fulfill this minimum. One sampling interval with four independent samples per well and at least three wells would fulfill the minimum sample size requirements. The wells should be spaced so as to maximize the probability of intercepting a plume of contamination. The samples should be taken far enough apart in time to guard against autocorrelation.

PURPOSE

One-way analysis of variance is a statistical procedure to determine whether differences in mean concentrations among wells, or groups of wells, are statistically significant. For example, is there significant contamination of one or more compliance wells as compared to background wells?

PROCEDURE

Suppose the regulated unit has p wells and that n_i data points (concentrations of a constituent) are available for the ith well. These data can be from either a single sampling period or from more than one. In the latter case, the user could check for seasonality before proceeding by plotting the data over time. Usually the computation will be done on a computer using a commercially available program. However, the procedure is presented so that computations can be done using a desk calculator, if necessary.

Step 1. Arrange the $N = \sum_{i=1}^{p} n_i$ data points in a data table as follows

(N is the total sample size at this specific regulated unit):

	Observations	Well Total (from Step 1)	Well Mean (from Step 2)
Well No. 1	$X_{11} \cdots\cdots\cdots X_{1n_i}$	$X_{1.}$	$\bar{X}_{1.}$
2	.		
3	.		
.	.		
u	X_{u1}	$X_{u.}$	$\bar{X}_{u.}$
.	.		
.	.		
p	$X_{p1} \cdots\cdots\cdots X_{pn_p}$	$X_{p.}$	$\bar{X}_{p.}$
		$X_{..}$	$\bar{X}_{..}$

Step 2. Compute well totals and well means as follows:

$$X_{i.} = \sum_{j=1}^{n_i} X_{ij} \text{ , total of all } n_i \text{ observations at well i}$$

$$\bar{X}_{i.} = \frac{1}{n_i} X_{i.} \text{ , average of all } n_i \text{ observations at well i}$$

$$X_{..} = \sum_{i=1}^{p} \sum_{j=1}^{n_i} X_{ij} \text{ , grand total of all } n_i \text{ observations}$$

$$\bar{X}_{..} = \frac{1}{N} X_{..} \text{ , grand mean of all observations}$$

These totals and means are shown in the last two columns of the table above.

Step 3. Compute the sum of squares of differences <u>between</u> well means and the grand mean:

$$SS_{Wells} = \sum_{i=1}^{p} n_i (\bar{X}_{i.} - \bar{X}_{..})^2 = \sum_{i=1}^{p} \frac{1}{n_i} X_{i.}^2 - \frac{1}{N} X_{..}^2$$

(The formula on the far right is usually most convenient for calculation.) This sum of squares has (p-1) degrees of freedom associated with it and is a measure of the variability <u>between</u> wells.

Step 4. Compute the corrected total sum of squares

$$SS_{Total} = \sum_{i=1}^{p} \sum_{j=1}^{n_i} (X_{ij} - \bar{X}_{..})^2 = \sum_{i=1}^{p} \sum_{j=1}^{n_i} X_{ij}^2 - (X_{..}^2/N)$$

(The formula on the far right is usually most convenient for calculation.) This sum of squares has (N-1) degrees of freedom associated with it and is a measure of the variability in the whole data set.

Step 5. Compute the sum of squares of differences of observations within wells from the well means. This is the sum of squares due to error and is obtained by subtraction:

$$SS_{Error} = SS_{Total} - SS_{Wells}$$

It has associated with it (N-p) degrees of freedom and is a measure of the variability within wells.

Step 6. Set up the ANOVA table as shown below in Table 5-1. The sums of squares and their degree of freedom were obtained from Steps 3 through 5. The mean square quantities are simply obtained by dividing each sum of squares by its corresponding degrees of freedom.

TABLE 5-1. ONE-WAY PARAMETRIC ANOVA TABLE

Source of Variation	Sums of squares	Degrees of freedom	Mean squares	F
Between wells	SS_{Wells}	p-1	$MS_{Wells} = SS_{Wells}/(p-1)$	$F = \frac{MS_{Wells}}{MS_{Error}}$
Error (within wells)	SS_{Error}	N-p	$MS_{Error} = SS_{Error}/(N-p)$	
Total	SS_{Total}	N-1		

Step 7. To test the hypothesis of equal means for all p wells, compute $F = MS_{Wells}/MS_{Error}$ (last column in Table 5-1). Compare this statistic to the tabulated F statistic with (p-1) and (N-p) degrees of freedom (Table 2, Appendix B) at the 5% significance level. If the calculated F value exceeds the tabulated value, reject the hypothesis of equal well means. Otherwise,

conclude that there is no significant difference between the concentrations at the p wells and thus no evidence of well contamination.

In the case of a significant F (calculated F greater than tabulated F in Step 7), the user will conduct the next few steps to determine which compliance well(s) is (are) contaminated. This will be done by comparing each compliance well with the background well(s). Concentration differences between a pair of background wells and compliance wells or between a compliance well and a set of background wells are called <u>contrasts</u> in the ANOVA and multiple comparisons framework.

Step 8. Determine if the significant F is due to differences between background and compliance wells (computation of Bonferroni t-statistics).

Assume that of the p wells, u are background wells and m are compliance wells (thus u + m = p). Then m differences--m compliance wells each compared with the average of the background wells--need to be computed and tested for statistical significance. If there are more than five downgradient wells, the individual comparisons are done at the comparisonwise significance level of 1%, which may make the experimentwise significance level greater than 5%.

- Obtain the total sample size of all u background wells.

$$n_b = \sum_{i=1}^{u} n_i$$

- Compute the average concentration from the u background wells.

$$\overline{X}_b = \frac{1}{n_b} \sum_{i=1}^{u} \overline{X}_{i.}$$

- Compute the m differences between the average concentrations from each compliance well and the average background wells.

$$\overline{X}_{i.} - \overline{X}_b \quad i = 1, \ldots, m$$

- Compute the standard error of each difference as

$$SE_i = [MS_{Error} (1/n_b + 1/n_i)]^{\frac{1}{2}}$$

where MS_{Error} is determined from the ANOVA table (Table 5-1) and n_i is the number of observations at well i.

- Obtain the t-statistic $t = t_{(N-p),(1-\alpha/m)}$ from Bonferroni's t-table (Table 3, Appendix B) with $\alpha = 0.05$ and (N-p) degrees of freedom.

- Compute the m quantities $D_i = SE_i \times t$ for each compliance well i. If m > 5 use the entry for $t_{(N-p),(1-0.01)}$. That is, use the entry at m = 5.

Step 9. Compute the residuals. The residuals are the differences between each observation and its predicted value according to the particular analysis of variance model under consideration. In the case of a one-way analysis of variance, the predicted value for each observation is the group (that is, well) mean. Thus the residuals are given by:

$$R_{ij} = X_{ij} - \bar{X}_{i.}$$

The residuals, R_{ij} can be used to check for departures from normality as described in Section 4.2.

NOTE

The data can also be checked for equality of variances as described in Section 4.3. The last column of Table 5-2 contains the standard deviations estimated for each well, the S_i used in Bartlett's test.

INTERPRETATION

If the difference $\bar{X}_{i.} - \bar{X}_b$ exceeds the value D_i, conclude that the ith compliance well has significantly higher concentrations than the average background wells. Otherwise conclude that the well is not contaminated. This exercise needs to be performed for each of the m compliance wells individually. The test is designed so that the overall experimentwise error is 5% if there are no more than five compliance wells.

In some cases it may be appropriate to implement the ANOVA procedure independently for an individual regulated unit. If there are more than five wells at the compliance point and the waste management area consists of more than one regulated unit, then the data may be evaluated separately for each regulated unit if approved by the Regional Administrator or State Director. In many cases the monitoring well system design and site hydrogeology will determine if this approach is appropriate for a particular regulated unit. This will help reduce the number of compliance wells used in a multiple well comparisons procedure.

If a single regulated unit has more than five wells at the point of compliance, refer to the caveat in the cautionary note.

CAUTIONARY NOTE

Should the regulated unit consist of more than five compliance wells, then the Bonferroni t-test should be modified by doing the individual comparisons at the 1% level so that the Part 264 Subpart F regulatory requirement

pursuant to §264.97(i)(2) will be met. Alternately, a different analysis of contrasts, such as Scheffe's, may be used. The more advanced user is referred to the second reference below for a discussion of multiple comparisons.

REFERENCES

Johnson, Norman L., and F. C. Leone. 1977. *Statistics and Experimental Design in Engineering and the Physical Sciences.* Vol. II, Second Edition, John Wiley and Sons, New York.

Miller, Ruppert G., Jr. 1981. *Simultaneous Statistical Inference.* Second Edition, Springer-Verlag, New York.

EXAMPLE

Four lead concentration values at each of six wells are given in Table 5-2 below. The wells consist of u=2 background and m=4 compliance wells. (The values in Table 5-2 are actually the natural logarithms of the original lead concentrations.)

Step 1. Arrange the 4 x 6 = 24 observations in a data table as follows:

TABLE 5-2. EXAMPLE DATA FOR ONE-WAY PARAMETRIC ANALYSIS OF VARIANCE

		Natural log of Pb concentrations(μg/L)						
Well No.	Date:	Jan 1	Feb 1	Mar 1	Apr 1	Well total ($X_{i.}$)	Well mean ($\bar{X}_{i.}$)	Well std. dev.
1	Background wells	4.06	3.99	3.40	3.83	15.28	3.82	0.296
2		3.83	4.34	3.47	4.22	15.86	3.97	0.395
3	Compliance wells	5.61	5.14	3.47	3.97	18.19	4.55	0.996 (max)
4		3.53	4.54	4.26	4.42	16.75	4.19	0.453
5		3.91	4.29	5.50	5.31	19.01	4.75	0.773
6		5.42	5.21	5.29	5.08	21.00	5.25	0.143 (min)
						$X_{..}$ = 106.09	$\bar{X}_{..}$ = 4.42	

Step 2. The calculations are shown on the right-hand side of the data table above. Sample standard deviations have been computed also.

Step 3. Compute the between-well sum of squares.

$$SS_{Wells} = \frac{1}{4}(15.28^2 + \ldots. + 21.01^2) - \frac{1}{24} \times 106.08^2 = 5.75$$

with [6 (wells) - 1] = 5 degrees of freedom.

Step 4. Compute the corrected total sum of squares.

$$SS_{Total} = 4.06^2 + 3.99^2 + \ldots + 5.08^2 - \frac{1}{24} \times 106.08^2 = 11.92$$

with [24 (observations) - 1] = 23 degrees of freedom.

Step 5. Obtain the within-well or error sum of squares by subtraction.

$$SS_{Error} = 11.92 - 5.75 = 6.17$$

with [24 (observations) - 6 (wells)] = 18 degrees of freedom.

Step 6. Set up the one-way ANOVA as in Table 5-3 below:

TABLE 5-3. EXAMPLE COMPUTATIONS IN ONE-WAY PARAMETRIC ANOVA TABLE

Source of variation	Sums of squares	Degrees of freedom	Mean squares	F
Between wells	5.76	5	5.76/5 = 1.15	1.15/0.34 = 3.38
Error (within wells)	6.18	18	6.18/18 = 0.34	
Total	11.94	23		

Step 7. The calculated F statistic is 3.38. The tabulated F value with 5 and 18 degrees of freedom at the $\alpha = 0.05$ level is 2.77 (Table 2, Appendix B). Since the calculated value exceeds the tabulated value, the hypothesis of equal well means must be rejected, and *post hoc* comparisons are necessary.

Step 8. Computation of Bonferroni t-statistics.

- Note that there are four compliance wells, so m = 4 comparisons will be made
- $n_b = 8$ total number of samples in background wells
- $\bar{X}_b = 3.89$ average concentration of background wells

- Compute the differences between the four compliance wells and the average of the two background wells:

  $\bar{X}_{3.} - \bar{X}_b = 4.55 - 3.89 = 0.66$

  $\bar{X}_{4.} - \bar{X}_b = 4.19 - 3.89 = 0.3$

  $\bar{X}_{5.} - \bar{X}_b = 4.75 - 3.89 = 0.86$

  $\bar{X}_{6.} - \bar{X}_b = 5.25 - 3.89 = 1.36$

- Compute the standard error of each difference. Since the number of observations is the same for all compliance wells, the standard errors for the four differences will be equal.

  $$SE_i = [0.34\ (1/8 + 1/4)]^{\frac{1}{2}} = 0.357 \text{ for } i = 3,\ldots, 6$$

- From Table 3, Appendix B, obtain the critical t with (24 - 6) = 18 degrees of freedom, m = 4, and for $\alpha = 0.05$. The approximate value is 2.43 obtained by linear interpolation between 15 and 20 degrees of freedom.

- Compute the quantities D_i. Again, due to equal sample sizes, they will all be equal.

  $$D_i = SE_i \times t = 0.357 \times 2.43 = 0.868 \text{ for } i = 3,\ldots, 6$$

Step 9. Compute the residuals using the data given in Table 5-2.

Residuals for Well 1:

$R_{11} = 4.06 - 3.82 = 0.24$
$R_{12} = 3.99 - 3.82 = 0.17$
$R_{13} = 3.40 - 3.82 = -0.42$
$R_{14} = 3.83 - 3.82 = 0.01$

Residuals for Well 2:

$R_{21} = 3.83 - 3.97 = -0.14$
$R_{22} = 4.34 - 3.97 = 0.37$
$R_{23} = 3.47 - 3.97 = -0.50$
$R_{24} = 4.22 - 3.97 = 0.25$

Residuals for Well 3:

$R_{31} = 5.61 - 4.55 = 1.06$
$R_{32} = 5.14 - 4.55 = 0.59$

$R_{33} = 3.47 - 4.55 = -1.08$
$R_{34} = 3.97 - 4.55 = -0.58$

Residuals for Well 4:

$R_{41} = 3.53 - 4.19 = -0.66$
$R_{42} = 4.54 - 4.19 = 0.35$
$R_{43} = 4.26 - 4.19 = 0.07$
$R_{44} = 4.42 - 4.19 = 0.23$

Residuals for Well 5:

$R_{51} = 3.91 - 4.75 = -0.84$
$R_{52} = 4.29 - 4.75 = -0.46$
$R_{53} = 5.50 - 4.75 = 0.75$
$R_{54} = 5.31 - 4.75 = 0.56$

Residuals for Well 6:

$R_{61} = 5.42 - 5.25 = 0.17$
$R_{62} = 5.21 - 5.25 = -0.04$
$R_{63} = 5.29 - 5.25 = 0.04$
$R_{64} = 5.08 - 5.25 = -0.17$

INTERPRETATION

The F test was significant at the 5% level. The Bonferroni multiple comparisons procedure was then used to determine for which wells there was statistically significant evidence of contamination. Of the four differences $\bar{X}_{i.} - \bar{X}_b$, only $\bar{X}_{6.} - \bar{X}_b = \underline{1.36}$ exceeds the critical value of 0.868. From this it is concluded that there is significant evidence of contamination at Well 6. Well 5 is right on the boundary of significance. It is likely that Well 6 has intercepted a plume of contamination with Well 5 being on the edge of the plume.

All the compliance well concentrations were somewhat above the mean concentration of the background levels. The well means should be used to indicate the location of the plume. The findings should be reported to the Regional Administrator.

5.2.2 One-Way Nonparametric Analysis of Variance

This procedure is appropriate for interwell comparisons when the data or the residuals from a parametric ANOVA have been found to be significantly different from normal and when a log transformation fails to adequately normalize the data. In one-way nonparametric ANOVA, the assumption under the null hypothesis is that the data from each well come from the same continuous distribution and hence have the same median concentrations of a specific hazardous constituent. The alternatives of interest are that the data from some wells show increased levels of the hazardous constituent in question.

The procedure is called the Kruskal-Wallis test. For meaningful results, there should be at least three groups with a minimum sample size of three in each group. For large data sets use of a computer program is recommended. In the case of large data sets a good approximation to the procedure is to replace each observation by its rank (its numerical place when the data are ordered from least to greatest) and perform the (parametric) one-way analysis of variance (Section 5.2.1) on the ranks. Such an approach can be done with some commercially statistical packages such as SAS.

PURPOSE

The purpose of the procedure is to test the hypothesis that all wells (or groups of wells) around regulated units have the same median concentration of a hazardous constituent. If the wells are found to differ, *post-hoc* comparisons are again necessary to determine if contamination is present.

Note that the wells define the groups. All wells will have at least four observations. Denote the number of groups by K and the number of observations in each group by n_i, with N being the total number of all observations. Let X_{ij} denote the jth observation in the ith group, where j runs from 1 to the number of observations in the group, n_i, and i runs from 1 to the number of groups, K.

PROCEDURE

Step 1. Rank all N observations of the groups from least to greatest. Let R_{ij} denote the rank of the jth observation in the ith group. As a convention, denote the background well(s) as group 1.

Step 2. Add the ranks of the observations in each group. Call the sum of the ranks for the ith group R_i. Also calculate the average rank for each group, $\bar{R}_i = R_i/n_i$.

Step 3. Compute the Kruskal-Wallis statistic:

$$H = \left[\frac{12}{N(N+1)} \sum_{i=1}^{K} \frac{R_i^2}{N_i}\right] - 3(N+1)$$

Step 4. Compare the calculated value H to the tabulated chi-squared value with (K-1) degrees of freedom, where K is the number of groups (Table 1, Appendix B). Reject the null hypothesis if the computed value exceeds the tabulated critical value.

Step 5. If the computed value exceeds the value from the chi-squared table, compute the critical difference for well comparisons to the background, assumed to be group 1:

$$C_i = Z_{(\alpha/(K-1))} \left[\frac{N(N+1)}{12}\right]^{1/2} \frac{1}{n_1} + \frac{1}{n_i} ,$$

for i taking values 2,..., K,

where $Z_{(\alpha/(K-1))}$ is the upper $(\alpha/(K-1))$-percentile from the standard normal distribution found in Table 4, Appendix B. Note: If there are more than five compliance wells at the regulated unit (K > 6), use $Z_{.01}$, the upper one-percentile from the standard normal distribution.

Step 6. Form the differences of the average ranks for each group to the background and compare these with the critical values found in step 5 to determine which wells give evidence of contamination. That is, compare $\bar{R}_i - \bar{R}_1$ to C_i for i taking the values 2 through K. (Recall that group 1 is the background.)

While the above steps are the general procedure, some details need to be specified further to handle special cases. First, it may happen that two or more observations are numerically equal or tied. When this occurs, determine the ranks that the tied observations would have received if they had been slightly different from each other, but still in the same places with respect to the rest of the observations. Add these ranks and divide by the number of observations tied at that value to get an average rank. This average rank is used for each of the tied observations. This same procedure is repeated for any other groups of tied observations. Second, if there are any values below detection, consider all values below detection as tied at zero. (It is irrelevant what number is assigned to nondetected values as long as all such values are assigned the same number, and it is smaller than any detected or quantified value.)

The effect of tied observations is to increase the value of the statistic, H. Unless there are many observations tied at the same value, the effect of ties on the computed test statistic is <u>negligible</u> (in practice, the effect of ties can probably be neglected unless some group contains 10 percent of the observations all tied, which is most likely to occur for concentrations below detection limit). In the present context, the term "negligible" can be more specifically defined as follows. Compute the Kruskal-Wallis statistic without the adjustment for ties. If the test statistic is significant at the 5% level then conclude the test since the statistic with correction for ties will be significant as well. If the test statistic falls between the 10% and the 5% critical values, then proceed with the adjustment for ties as shown below.

ADJUSTMENT FOR TIES

If there are 50% or more observations that fell below the detection limit, then this method for adjustment for ties is inappropriate. The user is referred to Section 8 "Miscellaneous Topics." Otherwise, if there are tied values present in the data, use the following correction for the H statistic

$$H' = \frac{H}{1 - \left(\sum_{i=1}^{g} T_i/(N^3-N)\right)}$$

where g = the number of groups of distinct tied observations and $T_i = (t_i^3-t_i)$, where t_i is the number of observations in the tied group i. Note that unique observations can be considered groups of size 1, with the corresponding $T_i = (1^3-1) = 0$.

REFERENCE

Hollander, Myles, and D. A. Wolfe. 1973. *Nonparametric Statistical Methods*. John Wiley and Sons, New York.

EXAMPLE

The data in Table 5-4 represent benzene concentrations in water samples taken at one background and five compliance wells.

Step 1. The 20 observations have been ranked from least to greatest. The limit of detection was 1.0 ppm. Note that two values in Well 4 were below detection and were assigned value zero. These two are tied for the smallest value and have consequently been assigned the average of the two ranks 1 and 2, or 1.5. The ranks of the observations are indicated in parentheses after the observation in Table 5-4. Note that there are 3 observations tied at 1.3 that would have had ranks 4, 5, and 6 if they had been slightly different. These three have been assigned the average rank of 5 resulting from averaging 4, 5, and 6. Other ties occurred at 1.5 (ranks 7 and 8) and 1.9 (ranks 11 and 12).

Step 2. The values of the sums of ranks and average ranks are indicated at the bottom of Table 5-4.

Step 3. Compute the Kruskal-Wallis statistic

$$H = \frac{12}{20(20+1)} (34^2/4 + \ldots + 35.5^2/3) - 3(20+1) = 14.68$$

TABLE 5-4. EXAMPLE DATA FOR ONE-WAY NONPARAMETRIC ANOVA--BENZENE CONCENTRATIONS (ppm)

Date	Background Well 1	Compliance wells Well 2	Well 3	Well 4	Well 5	Well 6
Jan 1	1.7 (10)	11.0 (20)	1.3 (5)	0 (1.5)	4.9 (17)	1.6 (9)
Feb 1	1.9 (11.5)	8.0 (18)	1.2 (3)	1.3 (5)	3.7 (16)	2.5 (15)
Mar 1	1.5 (7.5)	9.5 (19)	1.5 (7.5)	0 (1.5)	2.3 (14)	1.9 (11.5)
Apr 1	1.3 (5)			2.2 (13)		
	$n_1 = 4$	$n_2 = 3$	$n_3 = 3$	$n_4 = 4$	$n_5 = 3$	$n_6 = 3$
Sum of ranks:	$R_1 = 34$	$R_2 = 57$	$R_3 = 15.5$	$R_4 = 21$	$R_5 = 47$	$R_6 = 35.5$
Average rank:	$\bar{R}_1 = 8.5$	$\bar{R}_2 = 19$	$\bar{R}_3 = 5.17$	$\bar{R}_4 = 5.25$	$\bar{R}_5 = 15.67$	$\bar{R}_6 = 11.83$

$K = 6$, the number of wells

$N = \sum_{i=1}^{6} n_i = 20$, the total number of observations.

ADJUSTMENT FOR TIES

There are four groups of ties in the data of Table 5-4:

$T_1 = (2^3-2) = 6$ for the 2 observations of 1,900.
$T_2 = (2^3-2) = 6$ for the 2 observations of 1,500.
$T_3 = (3^3-3) = 24$ for the 3 observations of 1,300.
$T_4 = (2^3-2) = 6$ for the 2 observations of 0.

Thus $\sum_{i=1}^{4} T_i = 6+6+24+6 = 42$

and $H' = \frac{14.68}{1-(42/(20^3-20))} = \frac{14.68}{0.995} = 14.76$, a negligible change from 14.68.

Step 4. To test the null hypothesis of no contamination, obtain the critical chi-squared value with (6-1) = 5 degrees of freedom at the 5% significance level from Table 1, Appendix B. The value is 11.07. Compare the calculated value, H', with the tabulated value. Since 14.76 is greater than 11.07, reject the hypothesis of no contamination at the 5% level. If the site was in detection monitoring it should move into compliance monitoring. If the site was in compliance monitoring it should move into corrective action. If the site was in corrective action it should stay there.

In the case where the hydraulically upgradient wells serve as the background against which the compliance wells are to be compared, comparisons of each compliance well with the background wells should be performed in addition to the analysis of variance procedure. In this example, data from each of the compliance wells would be compared with the background well data. This comparison is accomplished as follows. The average ranks for each group, $\bar{R}_{i.}$ are used to compute differences. If a group of compliance wells for a regulated unit have larger concentrations than those found in the background wells, the average rank for the compliance wells at that unit will be larger than the average rank for the background wells.

Step 5. Calculate the critical values to compare each compliance well to the background well.

In this example, K=6, so there are 5 comparisons of the compliance wells with the background wells. Using an experimentwise significance level of α = 0.05, we find the upper 0.05/5 = 0.01 percentile of the standard normal distribution to be 2.33 (Table 4, Appendix B). The total sample size, N, is 20. The approximate critical value, C_2, is computed for compliance Well 2, which has the largest average rank, as:

$$C_2 = 2.32 \left[\frac{20(21)}{12}\right]^{1/2} \left[\frac{1}{4} + \frac{1}{3}\right]^{1/2} = 10.5$$

The critical values for the other wells are: 10.5 for Wells 3, 5, and 6; and 9.8 for Well 4.

Step 6. Compute the differences between the average rank of each compliance well and the average rank of the background well:

Differences	Critical values
$D_2 = 19.0 - 8.5 = 10.5$	$C_2 = 10.5$
$D_3 = 5.17 - 8.5 = -3.33$	$C_3 = 10.5$
$D_4 = 5.25 - 8.5 = -3.25$	$C_4 = 9.8$
$D_5 = 15.67 - 8.5 = 7.17$	$C_5 = 10.5$
$D_6 = 11.83 - 8.5 = 3.13$	$C_6 = 10.5$

Compare each difference with the corresponding critical difference. $D_2 = 10.5$ equals the critical value of $C_2 = 10.5$. We conclude that the concentration of benzene averaged over compliance Well 2 is significantly greater than that at the background well. None of the other compliance well concentration of benzene is significantly higher than the average background value. Based upon these results, only compliance Well 2 can be singled out as being contaminated.

For data sets with more than 30 observations, the parametric analysis of variance performed on the rank values is a good approximation to the Kruskal-Wallis test (Quade, 1966). If the user has access to SAS, the PROC RANK procedure is used to obtain the ranks of the data. The analysis of variance procedure detailed in Section 5.2.1 is then performed on the ranks. Contrasts are tested as in the parametric analysis of variance.

INTERPRETATION

The Kruskal-Wallis test statistic is compared to the tabulated critical value from the chi-squared distribution. If the test statistic does not exceed the tabulated value, there is no statistically significant evidence of contamination and the analysis would stop and report this finding. If the test statistic exceeds the tabulated value, there is significant evidence that the hypothesis of no differences in compliance concentrations from the background level is not true. Consequently, if the test statistic exceeds the critical value, one concludes that there is significant evidence of contamination. One then proceeds to investigate where the differences lie, that is, which wells are indicating contamination.

The multiple comparisons procedure described in steps 5 and 6 compares each compliance well to the background well. This determines which compliance wells show statistically significant evidence of contamination at an experimentwise error rate of 5 percent. In many cases, inspection of the mean or median concentrations will be sufficient to indicate where the problem lies.

5.3 TOLERANCE INTERVALS BASED ON THE NORMAL DISTRIBUTION

An alternate approach to analysis of variance to determine whether there is statistically significant evidence of contamination is to use tolerance intervals. A tolerance interval is constructed from the data on (uncontaminated) background wells. The concentrations from compliance wells are then

IN5 170 023 498

Appendix H
Examples of Statistical Analysis Results

Sampling history of Dye Burial Grounds wells, for metals. An "X" indicates that a metals sample was available on the date shown.

WELL ID	03/16/91	06/01/91	11/13/91	03/28/92
02-01	.	.	[X]	[X]
02-02	[X]	[X]	[X]	[X]
02-03	[X]	[X]	[X]	[X]
02-04	[X]	[X]	[X]	[X]
02-05	.	[X]	[X]	[X]
02-06	[X]	[X]	[X]	[X]
02-07	[X]	[X]	[X]	[X]
02-08	[X]	[X]	[X]	[X]
02C09	[X]	[X]	[X]	[X]
02C09P2	.	.	.	.
02C10	[X]	[X]	[X]	[X]
02C10P2	[X]	[X]	[X]	[X]
02C10P3	[X]	[X]	[X]	[X]
02C11	[X]	[X]	[X]	[X]
02C11P2	[X]	[X]	[X]	[X]
02C11P3	[X]	[X]	[X]	[X]
02C12	.	.	[X]	[X]
02C12P2	[X]	[X]	[X]	[X]
02C12P3	[X]	[X]	[X]	[X]
02C13	.	[X]	[X]	[X]
02C13P2	[X]	[X]	[X]	[X]
02C13P3	[X]	[X]	[X]	[X]
02C14	[X]	[X]	[X]	[X]
02C14P2	[X]	[X]	[X]	[X]
02C14P3	[X]	[X]	[X]	[X]
02C15	[X]	.	.	.
02C15P2	[X]	[X]	[X]	[X]
02C16	[X]	[X]	[X]	[X]
02C16P2	[X]	[X]	[X]	[X]
02C17	[X]	[X]	[X]	[X]
02C17P2	[X]	[X]	[X]	[X]
02C17P3	.	.	.	.
02C18	[X]	[X]	[X]	[X]
02C18P2	[X]	[X]	[X]	[X]
02C18P3	.	.	.	.
02C19	[X]	[X]	[X]	[X]
02C19P2	[X]	[X]	[X]	[X]
02C19P3	.	.	.	.
02C20	[X]	.	[X]	[X]
02C20P2	[X]	.	[X]	[X]
02C20P3	[X]	[X]	[X]	[X]
02C22	.	.	.	.
02C22P2	[X]	.	.	[X]
02C22P3	[X]	[X]	[X]	[X]

Example 1 (antimony), six pages

Report Printed: 03-25-1994 12:03

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Sb dis Antimony, dissolved NONE
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 3.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

Normality Test On Pooled Residuals

Scale:Original
Observations: 14

Pooled Statistics:

Statistic	Original Scale
Mean:	-0.0000
Std Dev:	4.9642
Kurtosis:	-1.3957
Minimum:	-6.8750
Maximum:	8.2250
Shapiro-Wilk:	0.9279

Shapiro-Wilk Critical Values
1%: 0.8250
5%: 0.8740

Since the calculated statistic exceeds both the 1% and 5% critical values there is no significant evidence of nonnormality.

Report Printed: 03-25-1994 12:03

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Sb dis Antimony, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 3.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992
ááááááááááááááááááLevene's Test For Homogenity of Varianceááááááááááááááááááá

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	25	13.10	1.50	7.70	5.73

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	100	1.50	1.50	1.50	0.00
02C12P3	4	0	14.00	5.30	9.95	4.55
02C13P3	4	25	16.60	1.50	8.38	7.30

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	52.12	3	17.37	11.31
Within wells	15.37	10	1.54	
Total	67.48	13		

Tabulated F at Á=0.05: 3.71
Since the computed F exceeds the tabulated F, the assumption of equal variances should be rejected.

failed

Report Printed: 03-25-1994 12:06

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Sb dis Antimony, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 3.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

Normality Test On Pooled Residuals

Scale:Log
Observations: 14

Pooled Statistics:

Statistic	Log Scale
Mean:	-0.0000
Std Dev:	0.7740
Kurtosis:	-0.9321
Minimum:	-1.3191
Maximum:	1.1016
Shapiro-Wilk:	0.9507

Shapiro-Wilk Critical Values
1%: 0.8250
5%: 0.8740

Since the calculated statistic exceeds both the 1% and 5% critical values there is no significant evidence of nonnormality.

Report Printed: 03-25-1994 12:10

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Sb dis Antimony, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 3.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992
ááááááááááááááááááLevene's Test For Homogenity of Varianceááááááááááááááááááá

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	25	2.57	0.41	1.72	1.02

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	100	0.41	0.41	0.41	0.00
02C12P3	4	0	2.64	1.67	2.21	0.49
02C13P3	4	25	2.81	0.41	1.71	1.15

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	1.52	3	0.51	5.97
Within wells	0.85	10	0.08	
Total	2.37	13		

Tabulated F at Á=0.05: 3.71
Since the computed F exceeds the tabulated F, the assumption of equal variances should be rejected.

fail

```
Report Printed: 03-25-1994  12:11

    Facility:DBG          Dye Burial Grounds
    Address:

        City:                     ST:    Zip:
      County:

     Contact:
       Phone:

 Permit Type:(* No Permit Type Specified *)

 Constituent:Sb dis  Antimony,  dissolved
         MCL:        0.000 ppb
         ACL:        0.000 ppb
Detect Limit:        3.000 ppb

  Start Date:Mar 16 1991
    End Date:Mar 28 1992
ááááááááááááááááááOne-Way Nonparametric Analysis of Varianceááááááááááááááááááá


Data Mode:Original

Background Wells

 Well ID        N %ND    Max Value    Min Value        Mean      Std Dev
 02C10P3        4  25        13.10         1.50        7.70         5.73

Compliance Wells

 Well ID        N %ND    Max Value    Min Value        Mean      Std Dev
 02-01          2 100         1.50         1.50        1.50         0.00
 02C12P3        4   0        14.00         5.30        9.95         4.55
 02C13P3        4  25        16.60         1.50        8.38         7.30
Well ID  Date       Observation      Rank
02C10P3  03/16/91        4.2000       6.0
02C10P3  06/01/91       12.0000       9.0
02C10P3  11/13/91       13.1000      11.0
02C10P3  03/28/92        1.5000       2.5
                            ááááááááááá
        Background Rank Sum:        28.5
        Background Rank Avg:         7.1
02-01    11/13/91        1.5000       2.5
02-01    03/28/92        1.5000       2.5
                            ááááááááááá
   Compliance Well Rank Sum:         5.0
   Compliance Well Rank Avg:         2.5
02C12P3  03/16/91       13.7000      12.0
02C12P3  06/01/91       14.0000      13.0
02C12P3  11/13/91        6.8000       8.0
02C12P3  03/28/92        5.3000       7.0
                            ááááááááááá
   Compliance Well Rank Sum:        40.0
   Compliance Well Rank Avg:        10.0
```

		02C13P3 03/16/91	3.0000 5.0
02C13P3	06/01/91	12.4000	10.0
02C13P3	11/13/91	16.6000	14.0
02C13P3	03/28/92	1.5000	2.5

ááááááááááá

Compliance Well Rank Sum:	31.5
Compliance Well Rank Avg:	7.9
H Statistic:	4.3500
H Adjusted for Ties:	4.4478
Degrees of Freedom:	3
Chi-Squared:	7.8148
ZÁ/DF:	2.1280

* Indicates significant evidence of contamination

Well ID	Crit. Diff.	Rank Avg.	Background Rank Avg.	Difference
02-01	7.5986	2.50	7.13	-4.63
02C12P3	6.2043	10.00	7.13	2.88
02C13P3	6.2043	7.88	7.13	0.75

none

Example 2 (barium), three pages

```
Report Printed: 03-25-1994  12:15

    Facility:DBG          Dye Burial Grounds
    Address:

        City:                        ST:   Zip:
      County:

     Contact:
       Phone:

 Permit Type:(* No Permit Type Specified *)

 Constituent:Ba dis  Barium, dissolved
         MCL:       0.000 ppb
         ACL:       0.000 ppb
Detect Limit:      10.000 ppb

  Start Date:Mar 16 1991
    End Date:Mar 28 1992

Normality Test On Pooled Residuals
 ----------------------------------

Scale:Original
 Observations:      14

 Pooled Statistics:

       Statistic   Original Scale
       ---------   --------------
            Mean:          0.0000
         Std Dev:          4.9536
        Kurtosis:         -1.3779
         Minimum:         -7.7500
         Maximum:          6.2500
    Shapiro-Wilk:          0.9112
 Shapiro-Wilk Critical Values
   1%: 0.8250
   5%: 0.8740

Since the calculated statistic
exceeds both the 1% and 5% critical
values there is no significant
evidence of nonnormality.
```

NONE

passed

Report Printed: 03-25-1994 12:15

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Ba dis Barium, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

Levene's Test For Homogenity of Variance

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	50	19.00	5.00	12.75	6.45

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	50	17.00	10.00	13.50	4.95
02C12P3	4	50	18.00	5.00	12.50	6.14
02C13P3	4	25	20.00	10.00	15.75	4.35

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	11.21	3	3.74	0.89
Within wells	42.00	10	4.20	
Total	53.21	13		

Tabulated F at Á=0.05: 3.71

Since the computed F does not exceed the tabulated F, the assumption of equal variances may be accepted.

Pmd

Report Printed: 03-25-1994 12:16

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:Ba dis Barium, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

One-Way Parametric ANOVA Table

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	50	19.00	5.00	12.75	6.45

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	50	17.00	10.00	13.50	4.95
02C12P3	4	50	18.00	5.00	12.50	6.14
02C13P3	4	25	20.00	10.00	15.75	4.35

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	26.21	3	8.74	0.27
Within wells	319.00	10	31.90	
Total	345.21	13		

Tabulated F: 3.71

Since the calculated F does not exceed the tabulated F, there is no significant difference between the concentrations at the selected wells and thus no evidence of contamination.

none

Example 3 (potassium), four pages

```
Report Printed: 03-25-1994  12:50

    Facility:DBG          Dye Burial Grounds
    Address:

        City:                        ST:   Zip:
      County:

     Contact:
       Phone:

 Permit Type:(* No Permit Type Specified *)

 Constituent:K dis   Potassium,  dissolved
         MCL:        0.000 ppb
         ACL:        0.000 ppb
Detect Limit:     1000.000 ppb

  Start Date:Mar 16 1991
    End Date:Mar 28 1992

Normality Test On Pooled Residuals
----------------------------------

Scale:Original
 Observations:      14

 Pooled Statistics:

       Statistic   Original Scale
       ---------   --------------
            Mean:          -0.0007
         Std Dev:       46515.7227
        Kurtosis:           5.1037
         Minimum:      -58250.0000
         Maximum:      144750.0000
   Shapiro-Wilk:           0.6205  *
 Shapiro-Wilk Critical Values
   1%: 0.8250
   5%: 0.8740

* Since the calculated statistic
  is less than the 1% and 5%
  critical values there is
  significant evidence that the
  residuals are not normally
  distributed.
```

1 well

Report Printed: 03-25-1994 12:50

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:K dis Potassium, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 1000.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

Normality Test On Pooled Residuals

Scale:Log
Observations: 14

Pooled Statistics:

Statistic	Log Scale
Mean:	0.0000
Std Dev:	0.6395
Kurtosis:	1.5699
Minimum:	-1.0100
Maximum:	1.6664
Shapiro-Wilk:	0.9067

Shapiro-Wilk Critical Values
1%: 0.8250
5%: 0.8740

Since the calculated statistic exceeds both the 1% and 5% critical values there is no significant evidence of nonnormality.

Report Printed: 03-25-1994 12:50

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:K dis Potassium, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 1000.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

Levene's Test For Homogenity of Variance

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	25	7.29	6.21	6.92	0.48

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	0	8.12	7.96	8.04	0.11
02C12P3	4	0	12.29	9.62	10.63	1.16
02C13P3	4	25	7.20	6.21	6.82	0.43

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	0.99	3	0.33	1.97
Within wells	1.67	10	0.17	
Total	2.65	13		

Tabulated F at Á=0.05: 3.71

Since the computed F does not exceed the tabulated F, the assumption of equal variances may be accepted.

P

Report Printed: 03-25-1994 12:51

Facility:DBG Dye Burial Grounds
Address:

City: ST: Zip:
County:

Contact:
Phone:

Permit Type:(* No Permit Type Specified *)

Constituent:K dis Potassium, dissolved
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 1000.000 ppb

Start Date:Mar 16 1991
End Date:Mar 28 1992

One-Way Parametric ANOVA Table

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02C10P3	4	25	7.29	6.21	6.92	0.48

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
02-01	2	0	8.12	7.96	8.04	0.11
02C12P3	4	0	12.29	9.62	10.63	1.16
02C13P3	4	25	7.20	6.21	6.82	0.43

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	37.66	3	12.55	23.61
Within wells	5.32	10	0.53	
Total	42.98	13		

Tabulated F: 3.71

Since the calculated F exceeds the tabulated F, the hypothesis of equal well means must be rejected. failed

* Indicates statistically significant evidence of contamination.

Well ID	Mean (Xavg)	(Xavg-Xbavg)	Std Error	D
02-01	8.04	1.12	0.63	1.56
*02C12P3	10.63	3.71	0.52	1.27
02C13P3	6.82	-0.10	0.52	1.27

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12b. DISTRIBUTION CODE

13. ABSTRACT ***(Maximum 200 words)***

This report documents the RCRA Facility Investigation (RFI), Phase III Release Characterization for Groundwater, Solid Waste Management Unit (SWMU) 02/11 dye Burial Grounds, Naval Surface Warfare Center (NSWC Crane), Indiana. The RFI was conducted in the period January 1987 to September 1993. The purpose of the RFI was to determine the presence or absence, the nature, the rate and extent of migration, and the concentrations of hazardous constituents that may have been released into the groundwater from activities at the Dye Burial Grounds. The NSWC Crane provides material, technical, and logistic support to the Navy for equipment, weapons systems, and ordnance. NSWC Crane is located in southwest Indiana approximately 75 miles southwest of Indianapolis. The Dye Burial Grounds is located in the eastern portion of the NSWC Crane, adjacent to the Ammunition Burning Ground. Buried dyes and dye contaminated material are contained in three trenches.

Monitoring of the groundwater for chemical constituents began in November 1981 with the installation of monitoring wells at the sites. Eight wells were installed between 1981 and 1983 and an additional 37 wells beginning in 1987.

(Continued)

14. SUBJECT TERMS

Explosives contamination	Groundwater contamination	Military contaminants
Geology in Indiana	Groundwater monitoring	Naval surface warfare Center crane
Groundwater	Heavy metals	

15. NUMBER OF PAGES
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Subsurface geological information extracted from logs of the core and other boring samples was used to develop the hydrogeology of the site. Monitoring wells were set at depths of 19 to 189 ft. Wells were sampled for most Appendix IX constituents and explosives.

Several aquifers were monitored in the Dye Burial Grounds study area. The uppermost aquifers were in the Pennsylvanian series and consisted of two sandstones, designated as upper and lower. Deeper aquifers were of Mississippian age. Groundwater flow in all of the aquifers is generally to the south and southwest toward the valley of Little Sulphur Creek. Surface flow off of the site is to the southwest. Groundwater quality sampling was conducted for volatile and semivolatile organics, pesticides, explosives (TCL organics), and inorganic constituents including TAL metals, cyanide/sulfide, and nitrite/nitrate. Only inorganic compounds, particularly metals, were present in significant and verifiable amounts in wells at the Dye Burial Grounds. Organic compounds indicative of dyes were not detected. Metals occurred most frequently and at higher levels in the lower Pennsylvanian sandstone. Significant primary Maximum Contaminant Level (MCL) metals occurring in the lower Pennsylvanian sandstone were nickel, beryllium, cadmium, lead, and manganese. Nickel was consistently above MCL. The deepest aquifer was not contaminated.

The presence of metals in the groundwater of Dye Burial Grounds monitoring wells cannot be linked with certainty to materials buried there. Naturally high acidity in the Pennsylvanian sandstone may enhance the presence of some metals.