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N00164.AR.000159
NSWC CRANE
5090.3a

5-1-1994

DEPARTMENT OF THE NAVY
CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA 47522-5000

IN REPLY REFER TO:
5090
Ser 095/4584/H11.9
19 JUL 1994

U.S. Environmental Protection Agency, Region V
Region V Waste Management Division
Attn: Ms. Carol Witt-Smith (HRP-8J)
77 West Jackson Blvd.
Chicago, IL 60604

Dear Ms. Witt-Smith:

Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV) submits three copies of the Final Phase III Groundwater Release Characterization report for the Ammunition Burning Ground (site 03/10) as enclosure (1). Enclosure (2) is the required certification statement.

NAVSURFWARCENDIV Crane point of contact is Mr. Thomas J. Brent, Code 09510, telephone 812-854-1132.

Sincerely,

G. K. HILL
Deputy Director, Public Works Directorate
By direction of the Commander

Encl:
(1) Final Report, RCRA Facility Investigation, Phase III Release Characterization for Groundwater, SWMU 03/10 Ammunition Burning Ground (3 copies).
(2) Certification Statement

Copy to: w/o encl
SOUTHNAVFACENGCOM, (CODE 185ND)
COMNAVSEASYSCOM (SEA 07E)
USAE-WES, BILL MURPHY (GG-YH)

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.

SIGNATURE

G. K. HILL
Assistant Public Works Officer

TITLE

19 JUL 1994

DATE

Enclosure (2)

Technical Report GL-94-15
May 1994

US Army Corps
of Engineers
Waterways Experiment
Station

Final Report, RCRA Facility Investigation, Phase III, Groundwater Release Characterization, SWMU 03/10, Ammunition Burning Ground

Volume I: Main Text, Figures, Tables, and Appendices

by William L. Murphy

Further dissemination of this document only as directed by Department of the Navy, Southern Division, Naval Facilities Engineering Command, Charleston, South Carolina 29411-0068.

Prepared for Naval Facilities Engineering Command

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Technical Report GL-94-15
May 1994

Final Report, RCRA Facility Investigation, Phase III, Groundwater Release Characterization, SWMU 03/10, Ammunition Burning Ground

Volume I: Main Text, Figures, Tables, and Appendices

by William L. Murphy

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

Final report

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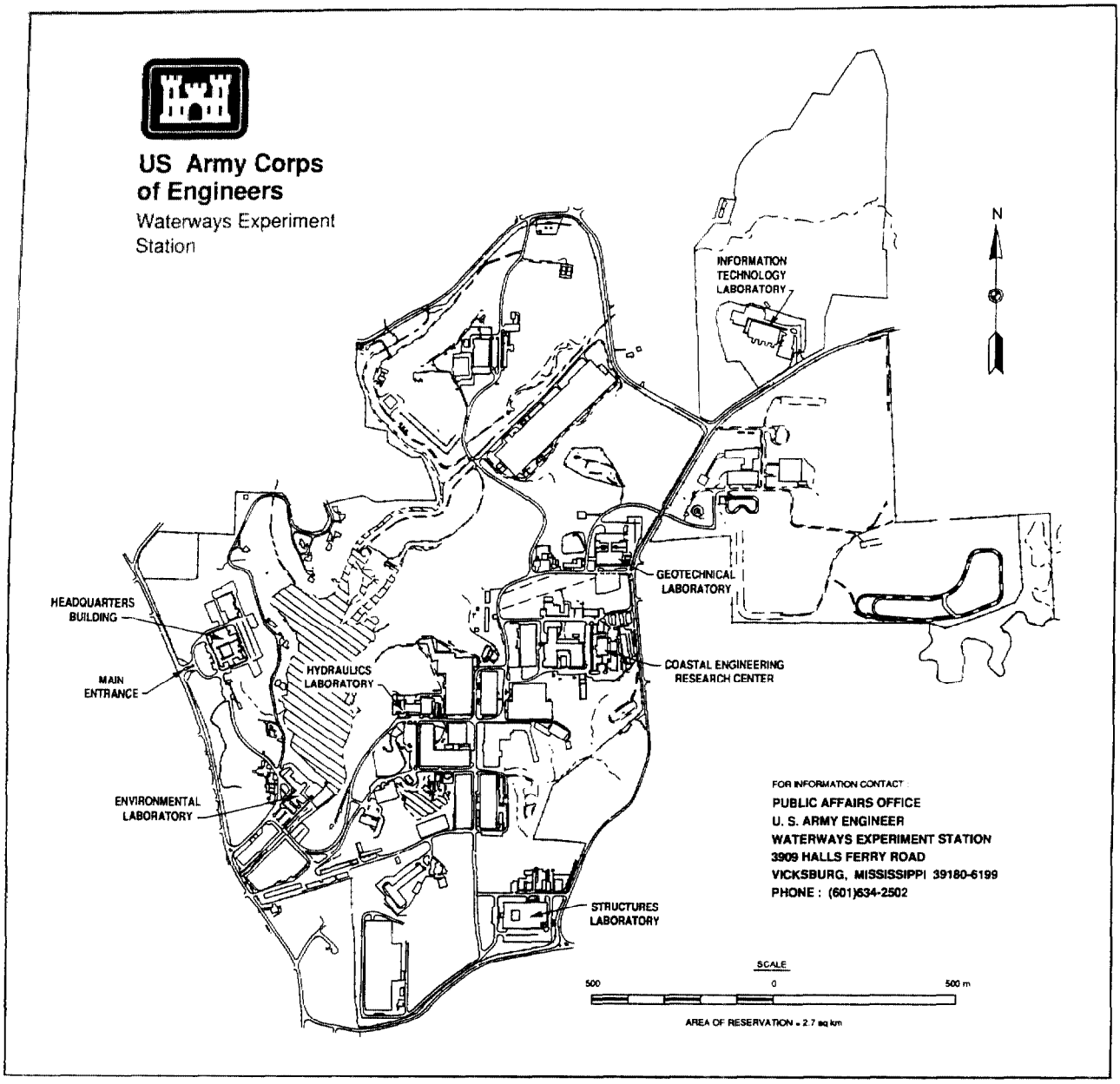
Prepared for Department of the Navy, Southern Division
Naval Facilities Engineering Command
Charleston, SC 29411-0068



Waterways Experiment Station Cataloging-in-Publication Data

Murphy, William L. (William Lee), 1944-
Final report, RCRA facility investigation. Phase III, Groundwater release characterization, SWMU 03/10, ammunition burning ground / by William L. Murphy ; prepared for Department of the Navy, Southern Division, Naval Facilities Engineering Command.
2 v. : ill. ; 28 cm. — (Technical report ; GL-94-15)
Vol. 2 is oversize (39 x 62 cm.)
"Further dissemination of this document only as directed by the Department of the Navy ..."
Includes bibliographic references.
v. 1. Main text, figures, tables, and appendices—v. 2. Plates.
1. Groundwater — Indiana — Crane — Quality. 2. Naval Surface Warfare Center (U.S.). Crane Division — Water-supply — Testing. 3. United States. Crane Army Ammunition Activity — Environmental aspects. 4. Bombing and gunnery ranges — Indiana — Crane — Environmental aspects. I. United States. Naval Facilities Engineering Command. Southern Division. II. United States. Army. Corps of Engineers. III. U.S. Army Engineer Waterways Experiment Station. IV. Title: RCRA facility investigation, phase III, groundwater release characterization, SWMU 03/10 ammunition burning ground. V. Title. VI. Series: Technical report (U.S. Army Engineer Waterways Experiment Station) ; GL-94-15.
TA7 W34 no.GL-94-15

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Preface

This investigation was begun in June 1986 by the U.S. Army Engineer Waterways Experiment Station (WES), Vicksburg, Mississippi. The Northern Division, Naval Facilities Engineering Command (NAVFAC), Philadelphia, Pennsylvania, provided oversight and management for the Department of the Navy and participitated in some phases of the work. The work was performed under authority provided by several NAVCOMPT documents, 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, formerly of the Engineering Geology Branch (EGB), WES. Drilling crews were under the supervision of Mr. Mark Vispi, Chief, In Situ Evaluation Branch, WES. Additional field work, including surface mapping, groundwater measurements and dye tracer testing, was performed by Mr. William Murphy (EGB) and Mr Jeffrey Ciocco, Northern Division, NAVFAC. Groundwater quality sampling and analysis were performed by Anacon, Inc of Houston, Texas. Ms. JoKay Belcher and Mr. Thomas Brent of NSWC Crane provided oversight of the sampling and analysis. Mr. James Hunsicker was Manager, Environmental Protection Department, Crane. Mr. Ciocco, Mr. Byron Brant, and Mr. Bill Schrock of Northern Division provided oversight of all Ammunition Burning Ground (ABG) Corrective Action work for the Navy.

This report is submitted in accordance with Modified RFI Phase III Release Characterization Work Plan for Groundwater. The report complies with the USEPA portion of the RCRA Permit for Corrective Action. Previously published reports of investigations conducted as part of the ABG Corrective Action are Hunt, 1988 and Murphy and Ciocco, 1990.

At the time of publication of this report, Director of WES was Dr. Robert W. Whalin. Commander was COL Bruce K. Howard, EN.

Executive Summary

A Phase III RCRA Facility Investigation (RFI), Release Characterization for Groundwater, of the Ammunition Burning Ground (ABG), Naval Surface Warfare Center Crane (NSWCC), Indiana, was conducted by the Waterways Experiment Station. The Phase III RFI evaluated the hydrogeology and the degree and extent of contamination to the groundwater from past activities at the ABG. The ABG has treated ammunition and explosives-contaminated waste materials since the early 1940's by open burning. Past treatment operations have contaminated the groundwater beneath the ABG with certain chemical contaminants.

The RFI consisted of analysis of hydrogeological data obtained from surface and subsurface investigations and groundwater quality data from several rounds of sampling of monitoring wells in and near the ABG. A total of 98 borings and wells have been drilled for the ABG study since 1981. A total of 72 wells have been sampled regularly for a variety of contaminants since September 1987. Springs in the vicinity of the ABG have also been sampled.

Groundwater in the ABG study area occurs primarily in three rock aquifers of Mississippian age: the uppermost or Golconda/Haney limestone, the middle or Big Clifty sandstone/Beech Creek limestone, and the lower or Beaver Bend limestone. Groundwater migrates from the ABG principally through solution-widened discontinuities in the Beech Creek limestone, a poorly developed karst with negligible surface expression at the ABG. The Big Clifty/Beech Creek is exposed to surface infiltration in part of the ABG. A thick shale at the base of the Beech Creek limestone disperses the groundwater laterally downgradient. Beech Creek groundwaters issue at springs north, south and southeast of the ABG both within and outside of the NSWCC boundary. Dye tracer tests in the Beech Creek aquifer and water quality sampling of selected springs have shown that certain springs within NSWCC, which are hydraulically connected to the ABG, discharge groundwater originating beneath the ABG under appropriate flow conditions. Tracer tests in springs outside NSWCC were inconclusive. Groundwater flow in the Big Clifty/Beech Creek aquifer is to the south and southeast from the vicinity of the ABG.

The 72 wells were monitored quarterly for RCRA 40 CFR Part 265 parameter Groups I, II and III, selected volatile organics, and the explosives

RDX, TNT, and HMX. Several wells within the ABG proper were shown to be contaminated. Noted contaminants probably originating from operations within the ABG and detected in a number of wells in more than one sampling period were RDX, trichloroethylene (TCE) and the trace metal barium. Other trace metals were detected less frequently. The occurrence of RDX in the groundwater was confined to wells within the ABG proper and to the mouth of Spring A, a spring located approximately 1-1/2 miles south of the ABG. Most occurrences of TCE were also within the ABG. Wells in the deep aquifer, the Beaver Bend, had detected amounts of RDX, organics, and metals, but generally at lower levels than the middle aquifer.

A release of contaminants to the groundwater has occurred. The RFI should proceed to Risk Assessment to establish action levels and thence to Corrective Measures Study and Implementation.

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	4,046.873	square meters
feet	0.3048	meters
feet per mile	0.1893935	meters per kilometer
inches	2.54	centimeters
miles (US statute)	1.609347	kilometers

1 Introduction

Purpose

This report documents field and laboratory work conducted for the Modified RCRA Facility Investigation (RFI)[1], Release Characterization for Groundwater, of the Ammunition Burning Ground (ABG), Solid Waste Management Unit (SWMU) 03/10, Naval Surface Warfare Center Crane (NSWCC) Indiana. The purpose of the Phase III RFI was to evaluate the geology, groundwater flow, and the degree and extent of contamination to the groundwater at and near the ABG, and to identify actual or potential receptors. The RFI also was to determine the horizontal and vertical distribution of contamination and predict the long term disposition of contaminants. This report summarizes the findings of an earlier published WES report that described the geology and hydrogeology of the ABG (Hunt, 1988), presents analysis of data obtained after publication of the earlier report, and presents the results of analyses of groundwater quality (chemical) data obtained for the ABG.

Background

A sequence of remedial investigations and remedial actions has been performed at the NSWCC. 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 disposal of hazardous substances at facilities including the NSWCC Crane. The IRP was 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.

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[1] A list of acronyms and abbreviations is provided in Appendix A.

An Initial Assessment Study (IAS) for the NSWCC 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 ABG as a site requiring investigation because of past hazardous waste treatment. The on-going hazardous waste management operations at the ABG also mandated compliance with Subtitle C of the Resource Conservation and Recovery Act (RCRA). On 19 May 1980, the United States Environmental Protection Agency (USEPA) finalized Phase I of the RCRA hazardous waste regulatory program, which became effective 19 November 1980. By that date the NSWCC had to comply with the codified regulatory sections of the RCRA. In October 1980 the NSWCC filed a RCRA Section 3010 notification and a Part A permit application to operate as a treatment, storage or disposal (TSD) facility. The NSWCC was qualified for and obtained Part A "interim status," which allowed the facility to legally operate as though it had a permit. The ABG 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.

In August 1981 the NSWCC notified the USEPA of four surface impoundments (dewatering beds) at the ABG and one waste impoundment. A "groundwater monitoring program" was required at the ABG pursuant to (1) 40 CFR Part 265-Subpart F, and (2) the IRP. The groundwater monitoring program began at the NSWCC in 1981. Through a Military Interservice Procurement Request, the Navy requested 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 from August 1981 to December 1981 at the ABG and provided a report in April 1982 (Dunbar, 1982). Results of the monitoring program suggested the presence of groundwater contamination at the ABG. Pursuant to 40 CFR 265 Subpart F, WES performed six studies at selected sites from June 1983 to October 1983. The ABG was one of the sites. The final report for the 1983-84 studies at the ABG was provided in April 1984 (Dunbar 1984). Funding was provided by an Order for Work and Services, NAVCOMPT No. N0016483WR0G185, dated May 1983 and amended September 1983.

The Northern Division, Naval Facilities Engineering Command (NORTHDIV), pursuant to the IRP, contracted the Hazardous Material Technical Center (HMTC) to perform Confirmation Studies at several sites at the NSWCC in November 1984 . The ABG was included in the investigation. The Hazardous and Solid Waste Amendments (HSWA) of RCRA (Section 3004) established corrective actions programs (CAP) at TSD facilities. The provision required the NSWCC to address past releases of hazardous waste or hazardous constituents at solid waste management units (SWMUs)

and regulated units. The first step of the CAP required the NSWCC to submit a Hazardous Waste Management Report (known as the SWMU report) to the USEPA. The SWMU report listed the ABG and all of the IAS-identified hazardous waste sites as SWMUs, and was submitted to the USEPA in January 1985 (Hazardous Materials Technical Center, 1985).

The next step of the CAP, a RCRA Facility Assessment (RFA), was conducted by A. T. Kearney (1987), a USEPA contractor. The contractor conducted a file search of the facility and a site visitation and prepared a report in 1987 which characterized possible releases from 100 SWMUs. 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 RCRA permit through the use of compliance schedules included in the permit (see paragraph 10 for a description of the NSWCC permit).

A second phase of the hydrogeological investigation of the ABG and surrounding area was conducted by the WES in 1986-87. The Hunt (1988) report identified factors influencing or controlling the flow of potentially contaminated groundwater into and out of the ABG. Work included emplacement of 66 exploration borings and monitoring wells in three aquifers, geologic and hydrologic field mapping, literature survey, and consultation with geologists at the Indiana Geological Survey, Bloomington. The study area included the area surrounding the ABG, especially that to the south.

The Hunt (1988) hydrogeological investigation and report are partial fulfillment of the (1) *Groundwater Assessment Plan, Ammunition Burning Grounds Hazardous Waste Treatment Site* (Naval Weapons Support Center, 1986) and (2) the 1989 USEPA RCRA Part B Permit's CAP. Hunt (1988) concluded that flow through solution passages in the Beech Creek limestone is the primary conduit for groundwater leaving the ABG and that flow through the conduits can be "rapid." Hunt recommended that increased emphasis be given to monitoring of springs and that injection of tracers (i.e. dye tracer test) be considered to confirm direction and rate of movement away from the ABG through solution conduits.

On 3 April 1989 the Navy submitted three documents to the USEPA Region V: (1) an updated Groundwater Assessment Plan for the ABG (May, 1989); (2) a Dye Tracer Test Proposal; and (3) the Hunt (1988) ABG hydrogeologic investigation. Technical review comments (see Appendix B), dated 22 June 1989, were submitted by the USEPA Region V to the NSWCC for the three documents. After discussions in a May 1989 meeting among the USEPA, WES, and the Navy, the WES installed five additional monitoring wells (July and August 1989) in the vicinity of the ABG. As requested by the USEPA comments, the Dye Tracer Test proposal was modified and submitted to the EPA in July 1989.

Final approval of the Dye Tracer Test Proposal and the Hunt (1988) report were established in the Federal portion of the joint RCRA storage permit issued to the U.S. Navy by the USEPA and the State of Indiana. The Federal

portion of the RCRA Permit, dated 20 December 1989, established the HSWA Corrective Action Requirements and Compliance Schedules (RCRA Section 3004). A copy of the Permit cover letter is included as Appendix (C). The compliance schedules obligated the NSWCC to perform RCRA Facility Investigations (RFI) at 30 SWMUs, and if contamination were found, to conduct Corrective Measures Studies (CMS) and implement Corrective Measures if needed. The State of Indiana obtained pre-HSWA authorization and issued the State portion of the permit which authorized the NSWCC to operate the Central Hazardous Waste Storage Facility, Building No. 2993. The Permit's RFI compliance schedule for the ABG established work plan submittals for the following: (1) Modified RFI Phase III Release Characterization for Groundwater; (2) RFI Phase III Release Characterization for Soil; and (3) RFI Phase II Release Assessment for Surface Water Bodies.

A Part 1 of the RFI Phase III Release Characterization for Soil was conducted at the ABG in August, 1990 by the U.S. Army Engineer District Wilmington and WES. A draft report was submitted for comment in January, 1992 (U.S. Army Corps of Engineers, 1991). The Part 1 report is currently under review. Concentrations of metals and explosives above detection limits and above background levels were detected in soil samples from selected areas within the ABG. Quantifiable concentrations of volatile and semivolatile organics, pesticides and herbicides below detection limits were reported. The report recommended that a Part 2 study be performed to define the extent of soils contamination. The Part 2 field work is scheduled for late summer 1992.

In April 1990 the NSWCC submitted the Modified RFI Phase III Release Characterization Work Plan for Groundwater. The Work Plan scheduled the submittal of the Dye Tracer Report, the proposal to conduct a second Dye Tracer Test, progress reports, and the RFI Phase III Final Report for Groundwater. The RCRA Section 3004 Corrective Action Requirements of the Storage Permit have incorporated the IRP. RCRA will be the primary vehicle to further investigate and remediate the IRP sites. At the time of this writing, the NSWCC is also pursuing a USEPA, RCRA operating permit for thermal treatment (open burning/open detonation) of pyrotechnics, explosives, and propellants (PEP) at the following Subpart X units: the ABG, the Demolition Area, and the Old Rifle Range, which are also considered SWMUs.

Groundwater quality monitoring at the ABG was conducted by the Environmental Protection Division, NSWCC, through a private contractor. ABG study area wells have been sampled quarterly for selected compounds since October, 1987. Compounds sampled for were Group I drinking water parameters, Group II groundwater quality parameters, Group III groundwater quality indicators, three explosives compounds, and volatile organics. A private contractor evaluated the water quality data for Crane and submitted a report (Comarco, 1992).

Study Area Location

The NSWCC is located in southwest Indiana approximately 75 miles southwest of Indianapolis and 71 miles northwest of Louisville, Kentucky (Figure 1). The NSWCC occupies 62,463 acres (approximately 100 square miles) of the northern portion of Martin County and small portions of neighboring Greene, Daviess, and Lawrence Counties. The ABG study area lies in the eastern part of the NSWCC (Figure 2) and consists of about 50 acres. The Ammunition Burning Ground is located in the northwest corner of Section 28 and the southwest corner of Section 21, Township 5N, Range 3W.

History of Operations

The Ammunition Burning Ground has been used extensively since the 1940's for the destruction of materials contaminated with explosives, bare explosives, rocket motors, candles, flares, solvents, red phosphorus, small detonators and fuse materials. The largest quantities were destroyed between 1956 and 1960, when 15,000 pounds per day of smokeless powder and 48,000 pounds per day of high explosives (H-6 and Composition B) were burned. The area also is used for flashing (burning) of the residue from bombs and projectiles after they have been subjected to melt out or drill out operations to remove the bulk of the explosives. From 1970 to 1981, over 10,000 major weapons were destroyed.

Solid explosives residues not in containers or bombs were formerly spread out on burning pads or in flash pits and ignited, or flashed. Flashing today is done in clay-lined steel pans. Plate 1 is a map showing current operations at the ABG. There are 29 pans currently in operation at the ABG. Bulk propellants typically are poured into the burning pans to a depth of a few inches, primed and remotely initiated. A summary of pan operations is as follows:

a. Bulk propellant and high explosives are burned (thermally treated) in clay-lined steel pans. Twenty pans are set up for this operation (areas 2, Plate 1) in six excavated areas oriented north-northeast. Two of the pans are dedicated to the burning of production scrap (areas 3, Plate 1).

b. PEP[2]-contaminated solvents and liquids are burned in three unlined steel pans (areas 9, Plate 1). From west to east in Plate 1, one pan is for solvents, one is for fuel oil, and one is for desensitized black powder. Waste red phosphorus is burned in four unlined steel pans (areas 4, Plate 1).

c. Three pans are available for sludge burning (areas 1). The upper pan is for RDX sludge, the lower for phosphorus sludge, and the middle pan

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[2] Pyrotechnics, explosives and propellants.

has not yet been used. The pans replaced the sludge surface impoundments formerly used to remove liquids from combustible sludges.

The primer pit (area 5, Plate 1) and incendiary cage (area 8) are used for thermal treatment of ammunition components (for example small impact-sensitive primers) and pyrotechnic munitions. The burn box (area 11) has been decommissioned.

Plate 1 shows three burn pads for suspected explosives-contaminated material such as paper and wooden boxes (areas 10) and one ash inspection pan (area 7). NSWCC currently uses only two of the three burn pads for suspected contaminated material (the pad near areas 9 is not used). The three burn pads are concrete-lined and are equipped with run-on/run-off controls. The ash inspection pan is used by ABG to cool the ash from the primer pit to allow personnel to segregate metal parts from the ash.

An ash pile consisting of approximately 12,290 pounds of burn residue accumulated near the incinerator pit (Plate 1). The ash pile was removed between July 1986 and February 1987. Hazardous waste ash from the burning operations now is stored in two large roll-off boxes (area 12). The ash is stored until sent to the landfill.

Three surface impoundments (ponds) were constructed for the purpose of removing liquids from otherwise combustible sludges resulting from the blending and loading of munitions. In 1982 the impoundments were modified to include a liner and leachate collection system for each one. Each of the impoundments is approximately 40 feet in diameter. The modified, lined and covered impoundments are shown as open circles on Plate 1 (areas 6). The two ponds near well 03-29 held TNT, RDX and breakdown compounds in water from the Rockeye and other locations within NSWCC. The pond in the upper left corner of Plate 1 near well 03C09 held phosphorus compounds. The three ponds have been replaced by the sludge burn pads (areas 1). The ponds are now empty and scheduled for closure. Another tank (area 6A) holds explosives wastes contaminated with pink water. Two empty underground storage tanks (UST), scheduled for closure, were used to store runoff and leachate from the three area 6 ponds. The USTs are near the pink water tanks (area 6A).

Photographic interpretation of five sets of vertical aerial photographs of the ABG area was conducted through the U.S. EPA's Environmental Photographic Interpretation Center (EPIC) (Dial, 1985). The EPIC study provided a coarse timetable of the expansion of operations at the ABG. The available flyover years were 1948, 1953, 1958, 1966 and 1974. Figure 3 is an enlargement of the 1966 photograph showing the ABG on October 5, 1966. EPIC interpreted six trenches existing or under construction in the area of the burn pits in 1966. EPIC interpreted three trenches in 1948, four in 1953, five in 1958, and finally six, the current status, by 1966.

Two oblique aerial views of the central portion of the ABG are shown in photographs taken on 28 May, 1991 (Figure 4). The top photograph looks

north-northwest and shows portions of five of the burn pad areas (areas 2 of Plate 1) in the upper left, one of the surface impoundments (area 6, Plate 1) in the left central, the sludge burn pads (areas 1, Plate 1) in the top center, and the primer burn box (area 11) just right of the burn pad area. The bottom photograph of Figure 4 is a view west showing all of the burn pads, the surface impoundments, the contaminated material burn pads (areas 10), and the red phosphorus burn pad (area 4) in the lower right.

An area in the valley of Little Sulphur Creek, approximately one-half mile south of the ABG on the "jeep trail" (see Figure 5) was used in the early 1980s (approximately 1981-83) to burn out bombs and to flash powder. Bombs were tilted up on-end alongside the trail, filled with an initiating powder, and flashed to finish the demil process following wash-out. A trench reportedly was excavated alongside the trail to flash powder. The area reportedly has not been used for any operations since 1983.

2 Action Levels

Background

The USEPA's goal in RCRA 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 (Environmental Protection Agency, 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 Corrective Measure Study (CMS). The discussion in Part II of this report is an excerpt from the proposed Section 264.521 with emphasis on its application to groundwater.

Use of Action Levels

Action levels are health- and environmental-based levels of contamination determined by the EPA 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 levels (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 EPA 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 EPA 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 EPA's intention that the action level "trigger" approach serves to identify early in the process the need for initiating a CMS. Such studies should typically not be delayed pending completion of all remedial investigation. In many instances it will be appropriate to conduct simultaneously the RFI and CMS for the facility.

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 EPA 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 EPA has promulgated health-based standards appropriate for action levels for specific media. Where these standards are available, the EPA intends to use them as action levels. The most obvious of these are MCLs. The EPA 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 XX 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 EPA intends to define broadly the type of groundwater contamination situations that may require a CMS, while triggering such studies only in situations where actual groundwater cleanup is a reasonable remedial approach. The EPA 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. The wording of the proposed rule will allow the EPA 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 EPA for protection of environmental media. As of November, 1991 there are 82 primary MCLs promulgated for organic and inorganic contaminants (Table 2). Where MCLs are available for a particular constituent but the groundwater at a site is not currently used for a drinking water supply, and is unsuitable for use as a drinking water supply in the future, MCLs will still ordinarily be used as action levels. However, cleanup to the MCL might not be required. In cases where groundwater is contaminated at levels above action levels, further study is necessary to make sure that sources of releases are controlled.

Where MCLs have not been promulgated for hazardous constituents, EPA would develop levels according to criteria described above (Table 1). The EPA 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 EPA and other agencies.

3 Field Investigation Methods, Descriptions and Rationale

Exploratory Drilling and Well Installation Methods

Summary of well drilling and placement activities

Table 3 presents installation data for all wells emplaced to date for the ABG investigation. WES installed 39 wells between September, 1981 and November, 1985 (designated 03-01 through 03-39 in Table 3). All but one of the 39 borings were emplaced by rotary rock bit (not cored), using air. Well 03-03 was cored using water. All of the wells were single wells (i.e. only one well per boring site). Information concerning screen placement was not available for some of the wells. WES installed an additional 54 wells between December, 1986 and December, 1987 (wells 03C01 through 03C33). Well boring 03C08 was damaged by grouting operations during well installation and was abandoned. Well cluster 03C08A was emplaced approximately 40 ft east of the abandoned site to replace the well. The original well site was grouted to the surface. WES completed the boring program by installing five additional wells in August and September of 1989 (wells 03C34 through 03C38 in Table 3). Core logs and well information for wells 03C01 through 03C33 were presented in the Hunt (1988) report. Data pertaining to wells 03C34 through 03C38 are included in this report. The 03C- series of wells consisted of cluster wells, whereby 1 to 3 wells were installed at a given boring site in different aquifers and separated by about 5 ft laterally. The first boring of each cluster was cored continuously to its full depth and became the deep well (lowest aquifer) of the cluster. Subsequent wells of the cluster were then installed in borings drilled with a rock bit (not cored or sampled). Wells of a typical cluster were designated as follows: well 03C01 (the deep well screened in the lower aquifer), well 03C01P2 (screened in the middle aquifer), and well 03C01P3 (screened in the upper aquifer). Plates 2 and 3 present the locations of all borings and wells emplaced for the ABG investigation. Locations of wells emplaced earlier (1981/82) on the "jeep-trail" south of the ABG in Little Sulphur Creek valley (03-10, 03-11, etc. on Plate 2) are shown at a larger scale in Figure 5.

Nine wells (03B01 through 03B09) were emplaced in alluvium (stream-deposited soils) in the valley of Little Sulphur Creek near the NSWCC

boundary south of the ABG. Those nine wells were installed in borings sampled by split-spoon (well 03B10 was a rock-cored boring). An additional 12 split-spoon borings (no wells installed) were drilled within the ABG along two rows in 1987 to obtain samples of the soil (borings VF1- through -VF12). The samples were subsequently tested at WES for physical soils characteristics and classification. Test results of the analyses for the 12 borings were not presented previously and are presented as Appendix D to this report. Logs of all borings except 03C34 through 03C38 were presented as Appendix B to the report by Hunt (1988). Boring logs and well installation diagrams for wells 03C34 through 03C38 are presented as Appendix E to this report.

Well drilling and installation procedures

Borings for wells emplaced in rock before 1986 (03-01 through 03-39) were drilled with 5-5/8-in O.D. rock bits or 5-1/2-in O.D. diamond core bits. All wells were 2-in, Schedule 40 PVC. Borings for wells emplaced in rock after 1986 (03C01 through 03C38) were drilled with roller rock bits and an HQ (3-25/32-in O.D.) wireline diamond core bit. Drilling and well installation procedures were discussed in the Hunt (1988) report. A brief review of procedures follows.

The drill rig and appurtenances were steam cleaned before commencing drilling at each drilling site. Water obtained from the NSWCC water treatment plant was circulated through the mud pan, drill stem and boring to remove cuttings and cool the bit. The mud pan was cleaned periodically and refilled with clean water. When more than one aquifer (water-producing zone) was encountered in a boring, the upper aquifer was sealed off before drilling was continued. The upper aquifer was sealed by grouting PVC casing into the underlying shale, allowing the grout to set overnight, and advancing the boring through the casing the following day. At the completion of each boring, the drill hole was flushed by bailing until clean water was obtained. Well screens and riser were then installed in the boring.

Well screens consisted of 5- or 10-ft lengths of 2-in-diam, 0.020-in. slotted PVC or Teflon screen casing and riser. Wells 03C01 through 03C33 were installed with Teflon screen and casing and PVC riser. All other wells were installed with PVC screen casing and riser. The filter pack for each well consisted of clean filter sand filling the annulus around the screen and that portion of the riser within the aquifer. The well casing was sealed into the boring and the overlying PVC casing with bentonite and cement grout. All wells were fitted with locking steel caps and surface casing for protection. Typical well installations are shown diagrammatically in Figure 6.

Wells were developed by bailing and surging with a stainless steel bailer and surge tool attached to a stainless steel cable. Surging was repeated in each well for several hours or until the water forced out at the top became clear.

Groundwater Sampling and Analysis

Groundwater quality sampling and analysis for wells at the ABG have been conducted since 1981 by various contractors for a variety of compounds and sampling periods. Sampling and analysis by the current contractor began in September of 1987 and are continuing. Only data reported since September of 1987 was evaluated for this report. Of the 98 wells installed for the ABG studies, 72 wells have been sampled for groundwater quality since September, 1987. Table 4 is a list of ABG wells sampled. Not all wells were sampled for all parameters in all sampling periods. Appendix F lists the parameters by group and the dates sampled for each of the 72 wells during the period September 1987 through January 1992. Seven springs within the NSWCC boundary were also sampled on occasion. Springs A, B, C, D, E, F and Mtn Spring were sampled six times between December 1987 and January 1992 (locations of the springs are shown on Plate 2). Spring A was sampled additionally in February 1990.

4 Hydrogeology of the Ammunition Burning Ground

This section discusses the surface and subsurface geology of the ABG study area and evaluates their effects on groundwater flow and transport through and away from the ABG. Field investigations conducted at the ABG for the RFI consisted of site reconnaissance, geologic mapping of surface exposures of rock and soil and of springs and streams, emplacement and logging of wash and core borings in soil and rock, interpretation of subsurface geologic and hydrologic conditions from boring logs and surface exposures, installation of groundwater monitoring wells in several aquifers, monitoring of groundwater levels in the wells, and groundwater quality sampling and analysis of wells and springs. Dye traces of the Beech Creek aquifer were also conducted. The Hunt (1988) report evaluated the geology and hydrogeology of the Ammunition Burning Ground. His evaluation is revised here with new information from additional borings and wells. Murphy and Ciocco (1990) presented results of the first dye tracer test. The dye trace program is discussed further in this report.

Geology and Groundwater Hydrology of the ABG Study Area

Physiography

The ABG is approximately 2000 ft long by 1000 ft wide and is situated in the northern reaches of the valley of Little Sulphur Creek. Plate 2 is a topographic map of the study area showing the ABG, the topography and the locations of borings, wells and cross sections. A major drainage divide extends from the southwest to the northeast along NSWCC Road 161. Ground surface elevations in the area range from about 480 ft NGVD in the southeast to 845 ft along the major drainage divide. The topography is rugged and the terrain heavily vegetated. East of the divide, approximately two-thirds of the area drains to the south and southeast through Little Sulphur and

Sulphur Creek. Ultimate drainage is to Indian Creek, the White River and thence to the Wabash, generally southwestward.

The topography of the ABG site is presented on Plate 3. The ABG is in a bowl that opens to the southeast, high on the northwest, northeast and south and low in the middle where Little Sulphur Creek has incised its valley. The boring/well locations depicted on the map have been revised from Hunt's (1988) report (his Plate 1) after the survey conducted by U.S. Army Engineer District, Louisville, in which locations for all but five wells in the ABG study area were surveyed to Indiana West Zone State Plane Coordinates. The survey also determined the elevation of the top of casing of each well. Table 5 presents the horizontal and vertical survey data for the wells. The base (topographic) map features (e.g. roads, buildings) are not tied to State Plane Coordinates. The well locations are correct relative to each other, but have not been tied by survey to features on the topographic base map. Locations of soil borings emplaced by Hunt (1988) are also depicted on Plate 3 (VF-1 through VF-12).

Stratigraphy

The sequence of geologic units occurring in the vicinity of the ABG was described in detail in Hunt (1988). Figure 7 is a stratigraphic column of rock units encountered in southern Indiana to a depth of several hundred feet. The ABG studies were concerned only with the Chester and Pottsville Epochs of Upper Mississippian and Pennsylvanian age, respectively, representing a maximum depth of investigation at the ABG of about 280 ft from ground surface (about elevation 420 FT NGVD). Four geologic formations important to the hydrogeological investigation of the ABG comprise three aquifers, the Golconda-Haney limestone (the upper aquifer), the Big Clifty sandstone/Beech Creek limestone (the middle aquifer), and the Beaver Bend limestone (the lower aquifer). The aquifer formations are described in a later section.

Three shale formations beneath the ABG are important aquicludes (deterrents to vertical movement of groundwater and contaminants). The Indian Springs shale, the upper, 20-ft thick member of the Big Clifty Formation, underlies the Golconda-Haney limestone in the western half of the ABG but has been removed by erosion in the eastern half. The Elwren shale is 20 ft thick and occurs at the base of the Beech Creek limestone. The Sample Formation is a 40 to 45-ft thick black shale below the Elwren. The significance of the aquicludes is discussed further in a later section.

Surface and near-surface geology

The surface geology of the ABG study area is presented in Plate 4 (Hunt, 1988). The smallest geologic units depicted on Plate 4 are groups (see Figure 7). The contact of the Stephensport and West Baden Groups is the base of the important Beech Creek limestone. Plate 4 includes structure contours on top of the Beech Creek, reflecting the regional southwest dip of the rocks of

50 ft per mile. Younger rocks of Pennsylvanian age cap the ridges. Progressively older Mississippian units are exposed in the valleys. Data for Plate 4 were extracted from a small scale map of a larger area and the positions of contacts are only approximate. The geologic structure in the study area is actually more irregular and complex when viewed at a larger scale, as explained later in the report. A more detailed geologic map of NSWCC is being prepared by the Indiana Geological Survey and will be published soon.

The surface and near-surface geology of the ABG site is presented at a larger scale in Plate 5. The contacts shown are for formations and were mapped in the field from surface and subsurface information during WES investigations. The ABG valley floor is covered by 1 to 15 ft of alluvial (stream-deposited) and colluvial (slope debris) soils. Plate 5 depicts projected contact positions with the soil cover removed. The cross-hatched area in the eastern part of the ABG is the approximate limits of the solution zone in the Beech Creek limestone. A more detailed interpretation of the position of solution zones is presented later in this report with the groundwater contour map for the ABG. The Big Clifty sandstone has been exposed to surface infiltration in the central part of the site by erosional removal of the overlying Indian Springs shale. The Mansfield Formation of the Pennsylvanian Raccoon Creek Group occupies the higher elevations at the ABG.

Subsurface geology

The subsurface geology of the ABG study area was presented in Hunt (1988) in text and through graphic portrayal on several geologic cross sections. Cross section M-M' (Plate 16 of Hunt's (1988) report) is presented as Plate 6 in this report for review. It shows the important geologic features present at the ABG and southward along the valley of Little Sulphur Creek. Boring information from five additional wells installed by WES in August and September 1989 (after publication of the Hunt (1988) report), was used to construct additional and revised cross sections for the south and east portions of the ABG study area. The four new cross sections are AA-AA' through DD-DD'(Plates 7 through 10). Cross section locations are shown on Plate 2.

The geologic cross sections portray the stratigraphic and hydrogeologic features that control groundwater occurrence and movement beneath the ABG study area. The sections include 1991 groundwater profiles for the Beech Creek aquifer, the positions of well screens, geologic unit boundaries and names, and approximate delineation of collapse or solution zones in the Big Clifty/Beech Creek system.

Cross section AA-AA' (Plate 7) projects from well 03C29 through wells 03C25 in Johnson Hollow, 03C33 on the ridge south of the ABG, 03C38 near the valley of Little Sulphur Creek, 03C35 east of Little Sulphur Creek and near the NSWCC boundary, and terminates at a large spring and outcrop of Big Clifty, Beech Creek and Elwren formations on the northwest valley wall of Sulphur Creek. Section AA-AA' supplants Hunt's (1988) section LL' (his Plate 15). Hunt's section LL' identified the formation at the spring at the east

end of the section as Beaver Bend limestone. The resultant geologic profile indicated an abrubt steepening of dip of the formations upward from Little Sulphur Creek to the southeast. Subsequent field mapping and interpretation by Hunt and the Indiana State Geological Survey of the area of the spring have identified the limestone as Beech Creek, not Beaver Bend. The elevation of the base of the Beech Creek at the spring was determined to be approximately 520 ft NGVD. The corrected geologic profile indicates a much flatter component of dip from Little Sulphur Creek toward the spring, as shown on Section AA-AA'. This spring was a dye monitoring station for the dye trace in the ABG study area (Spring Sp1-90). Boring information from well 03C35 and outcrop data at the spring show that the thickness of the Beech Creek increases to 32 to 38 ft east of Little Sulphur Creek (Beech Creek elsewhere in the study area is uniformly 20 ft thick). Wells 03C38 and 03C35 were dry when the Beech Creek water levels were measured (March of 1991).

Cross section BB-BB' (Plate 8) projects from well 03C24 in Johnson Hollow through wells 03C38, 03C35 and 03C36 and terminates at a spring which has been identified by Hunt and Indiana Geological Survey personnel as Beaver Bend limestone. The outcrop at which the spring section was observed is poorly exposed. The orientation of the cross section from well 03C38 to the spring is roughly in the direction of regional dip (updip northeast) and the updip component is reflected in the slope of the formational contacts in the right hand portion of the cross section. All three of the new wells (03C35, -36, and -38) in this section were dry at the time of measurement.

Cross section CC-CC' (Plate 9) projects from well 03B10 in Johnson Hollow near the NSWCC boundary south of the ABG across Little Sulphur Creek, through wells 03C37 and 03C35, and terminates at well 03C34 on NSWCC Road 274. The section is aligned parallel to the direction of regional dip, updip to the right. The water level in the Beech Creek aquifer was low to dry (below the screen intake) in the wells of the cross section. Well 03C35 was dry at the time of measurement. The Beech Creek water level in wells 03B10 and 03C37 was near the level of Little Sulphur Creek, indicating that the aquifer near the valley of Little Sulphur Creek may be recharged by influent water of Little Sulphur Creek which in turn is fed by surface runoff infiltration from its headwaters and by recharge from Spring C upstream. The area of the aquifer sampled by 03C37 may also receive some recharge by infiltration through the Big Clifty sandstone, which is projected to be exposed in the gully about 700 ft northeast of the well. The zone of solution indicated on the cross section in well 03C37 at elevation 514 to 535 ft is not a zone of continuous open conduits. Rather it is a cumulative thickness of closely spaced solution-widened joints and occasional collapse and solution cavities as described in the log of the well boring. It is part of the extensive solution zone near the axis of the valley of Little Sulphur Creek shown in cross section M-M' (Plate 6). The zone probably does not extend into the ridge much beyond well 03C37 and indeed is not indicated at all in the core boring of well 03C35.

Cross section DD-DD' (Plate 10) projects from well 02C20 at the Dye Burial Ground[1] southeastward through 02C09 and 02C22 to 03C34 along NSWCC Road 274 and then southward through 03C36, terminating at the Beech Creek outcrop and spring (Sp1-90) in Sulphur Creek valley (terminus of Cross section AA-AA'). Cross section DD-DD' extends roughly along regional strike of the Mississippian formations but a component of local dip to the southeast is implied on the section. Water levels in the Beech Creek limestone wells indicate that drainage of the aquifer occurs to the south along the component of dip. Well 03C35 was dry, however, implying that the aquifer may drain to the east into Sulphur Creek valley near well 03C34 since the Beech Creek would be exposed (daylighted) in the steep slope just a thousand feet east of 03C34 (see topographic map, Plate 2). It is also possible that the large spring/cave (Sp1-90) in Sulphur Creek valley (the terminus of sections DD-DD' and AA-AA') effectively drains the Beech Creek aquifer locally as far north and northwest as 03C36 and 03C35, respectively.

Subsurface information from the five additional Beech Creek wells emplaced after Hunt (1988) confirms the general uniformity of the Mississippian formations in the study area, but also somewhat alters the prior interpretation of geologic structure. Elevations of the Beech Creek-Elwren shale contact in the five new wells were used to produce a revised structural contour map of the top of the Elwren, replacing Hunt's (1988) Plate 21. The revised structural map is presented as Plate 11 of this report. A structural dome centered on the topographic ridge south of the ABG is apparent. The presence of the dome contorts the strike of the formations in the study area, producing a structural trough in the southeast portion of Plate 11 plunging to the south with well 03C37 in the axis of the trough. Hunt (1988) attributed the occurrence of the dome to deposition of Mississippian sediments over underlying, older (Silurian age) pinnacle reefs.

The structural trough may enhance movement of groundwater in the Beech Creek aquifer to the south and southeast. The Beech Creek aquifer southeast of the ABG is unconfined (piezometric surface below the top of the aquifer) and apparently is drained by gravity along the sloping base of the Beech Creek (top of the Elwren). Cross sections AA-AA', CC-CC' and DD-DD' (Plates 7 through 10) illustrate the drainage of the Beech Creek aquifer to the south and southeast. A contour map of the elevation of the Beech Creek aquifer water table in the ABG study area is presented as Plate 12 at the scale of the structure contour map. Comparison of the structure and water table maps shows that the water table contours closely parallel the structure contours, especially south and southeast of the ABG site. The similarity of the two maps emphasizes the dependence of the Beech Creek groundwater flow on the underlying structure. It should be noted that the water table contours are an approximation of the configuration of the true water table from available, widely spaced monitoring wells and do not portray localized flow through specific solution zones or conduits.

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[1] The Dye Burial Ground is another SWMU located just NE of the ABG (represented by the 02CXX series of wells, Plates 2, 11 and 12).

Groundwater Hydrology of the ABG Site

Previous paragraphs discussed the groundwater regime for the ABG study area as revised from data provided by the five additional Beech Creek wells emplaced in 1989. Hunt (1988) presented an analysis of the groundwater system within the ABG site proper. The Golconda/Haney limestone is up to 14 ft thick in ABG borings and is exposed in outcrops on the hillsides within the ABG (see Plate 5). The Golconda/Haney is underlain by the Indian Springs shale aquiclude. Groundwater from the Golconda/Haney flows into the ABG by seepage eastward along the top of rock, prevented from vertical infiltration by the underlying Indian Springs shale. Hunt (1988) showed that groundwater seeping from the Golconda/Haney within the ABG eventually infiltrates the Big Clifty/Beech Creek aquifer. There is no evidence that possible contaminants entering the Golconda/Haney aquifer would exit the ABG other than through the Beech Creek aquifer system.

The Big Clifty sandstone is 40 ft thick and occurs directly beneath the soil cover in the eastern half of the ABG in the valley floor. The Big Clifty is hydraulically connected to the Beech Creek limestone, which is 18 to 22 ft thick at the ABG. The Beech Creek limestone contains joints and bedding planes which have been widened by solution of the limestone by groundwater moving through the formation. Some of the solution zones have been enlarged by collapse of Big Clifty sandstone and Beech Creek limestone into the solution voids. The Big Clifty sandstone and Beech Creek limestone are considered one aquifer (the middle aquifer). The Beaver Bend limestone is 10 to 12 ft thick and comprises the lowest aquifer considered in the investigation. The Beaver Bend is considered to be isolated hydraulically from the higher aquifers at the ABG, but is monitored by five wells at the ABG. The five Beaver Bend wells are 03C01, 03C02, 03C03, 03C08A and 03C09 (Plate 3).

The three shale aquicludes at the ABG were briefly described earlier. The Indian Springs shale is present only in the western half and in the upper slopes to the northeast and southwest of the ABG. The Indian Springs thus is an effective aquiclude for uppermost and surface water infiltration to deeper aquifers only in the western and upper slopes portions of the ABG. The Elwren shale is an effective hydraulic barrier to groundwater moving through the Beech Creek and forces groundwater to move laterally along the bedding contact and through joints in the Beech Creek. The Elwren forms the floor of the many springs that drain the Beech Creek aquifer in the valley of Little Sulphur Creek south of the ABG and springs north of the ABG. The Sample shale lies between the Elwren shale and Beaver Bend limestone. The Sample, the Elwren, and other shales of the West Baden Group form a collective 70 ft of aquiclude to separate the lowermost aquifer, the Beaver Bend limestone, from the higher aquifers.

Surface and groundwater flow characteristics in and near the ABG were summarized in Hunt (1988). Groundwater in the Beech Creek aquifer enters the ABG from the north-northwest. Primary flow out of the ABG is to the east and south down the Little Sulphur Creek drainage way, with secondary

flow out to the southwest and then south through Johnson Hollow. A low groundwater divide separates the two outflow components along a line running approximately from well 03C26 to well 03C14 (see Plate 13). The map of the piezometric surface for the study area was presented earlier (Plate 12). The traces of the piezometric surfaces depicted in cross sections on Plates 7, 8 and 9 show how the Beech Creek aquifer drains into the enlarged openings of the solution zones in the valley of Little Sulphur Creek.

Surface water enters the Big Clifty sandstone outcrop area from two sources within the ABG. One source is rainfall, the other is from two tributary streams that flow into the ABG from the west and the northwest and form the headwaters of Little Sulphur Creek. The tributary flow is derived from groundwater in sandstones and possibly from coal seams in the higher Pennsylvanian strata, and from seeps from the Golconda/Haney limestone. The tributary streams join near the center of the ABG and the flow continues out the east end of the site and south down Little Sulphur Creek. During dry seasons and in light to moderate rains, all of the surface water in the tributary streams becomes groundwater in the Beech Creek aquifer through the Big Clifty sandstone outcrop area within the ABG. During periods of heavier rainfall the runoff flows out the east end of the site as surface flow.

None of the data acquired since publication of Hunt's report warrant revision of his analysis and interpretation of groundwater flow conditions at the ABG site. However, a new round of groundwater elevation measurements in Beech Creek wells within the ABG was made in March of 1991. Water level measurements for three dates from 1987 to 1991 are presented in Table 6. The latest measurements included older wells in the ABG which were not utilized in construction of the earlier groundwater contour maps. A new groundwater elevation contour map for the Beech Creek for the ABG site proper was constructed from the March 1991 data and is presented as Plate 13. The solution zone in Hunt's (1988) report showed the general area of solution passage occurrence. Logs of all borings within the ABG were reexamined and a map was constructed of cumulative thickness of voids encountered in the borings. The revised solution zone map is presented in Figure 8. The map shows cumulative void thickness in affected borings and is contoured on a 2-ft interval (0 to 8 ft contours). Voids include zones of joints widened by solution of the limestone as well as open cavities. The greatest cumulative void thickness was 8 ft, occurring in wells 03C02P2, 03C12 and 03-03. The solution zone elongated to the northwest toward boring 03C07 (Figure 8) was inferred from a cumulative 1 ft of solution voids in the boring. The voids map provides a more detailed delineation of solutioning beneath the ABG, but is still limited (biased) by the distribution of existing borings.

Maps of the piezometric surfaces of the Golconda/Haney and Beaver Bend aquifer are presented in Figure 9. Water levels from the eight Golconda/Haney wells (03C19P3 is out of the area pictured) and the five Beaver Bend wells for December 28, 1989, the latest date available for those wells, were used to construct the piezometric contours. Beaver Bend contours are shown as solid lines and Golconda/Haney contours as dashed lines. The

Golconda/Haney is absent by erosion in the central portion of the ABG as shown by the limit line on Figure 9. The direction of flow in the Golconda/Haney is predominantly to the east (to the northwest from well 03C08AP3), downslope topographically, as shown by the contours. It therefore drains to the ground surface or along the soil-rock interface into the lower Big Clifty/Beech Creek aquifer (see geologic section M-M', Plate 6). The gradient on the Golconda/Haney piezometric surface is approximately 0.017 ft/ft to the east. The aquifer is artesian (confined) west of 03C22 and 03C23 but becomes unconfined as the aquifer drains to the east. The contour interval is one foot.

The Beaver Bend piezometric surface is very flat at the ABG. Note that the contour interval on the surface in Figure 9 is only 0.2 ft. Flow is generally to the south at approximately 0.0012 ft/ft. The Beaver Bend is artesian beneath the ABG with a 55 to 60 ft head above the top of the limestone (see Plate 6).

Results of Dye Tracing in the Beech Creek Aquifer

A 9-day dye trace was conducted in the ABG study area by the WES in January of 1990. A report explaining the principles, procedures, quality assurance/quality control provisions and results of the first dye trace was published (Murphy and Ciocco, 1990). The test evaluated the use of three dyes to confirm the hydraulic connection of the Beech Creek aquifer at the ABG to nearby springs. The test was limited to on-center monitoring points. Dyes were injected into two Beech Creek wells (03C02P2 and 03C03P2, Plate 3) at the ABG. Dye detectors were placed in several springs north and south of the ABG and in Little Sulphur Creek. The detectors were analyzed for the presence of dye before and after dye injection. Fluorescein dye was shown to be an effective tracer for the ABG. Spring A, located approximately one-and-one-half miles south of the ABG, and Little Sulphur Creek below Spring A were shown to be prime outlets for groundwater originating at the ABG. Springs B and C were shown to be outlets only in high flow conditions. Spring B's response was weak and unique relative to Springs A and C, indicating that Spring B is likely fed by a flow system separate from that feeding the Little Sulphur Creek springs A and C. Locations of springs are shown on Plate 2 of this report.

Assuming fluorescein dye is a model of some groundwater contaminants, groundwater contamination at the ABG could have wide and rapid dispersal into the valley south of the ABG at high flow. Migration rates of contaminants (as modeled by fluorescein dye) were estimated to be as high as two miles per day from the ABG to Spring A through the Beech Creek aquifer. Results of the first dye trace justified an additional test to extend off-post. Twelve off-post springs or seeps were mapped in May of 1990 in the valleys of Sulphur and Little Sulphur Creek. A dye trace was attempted in August of 1990 by injecting fluorescein dye into well 03C03P2. Low-flow conditions

and probable low permeability of the screened zone in the well resulted in negative results at all dye detection stations.

Another injection was made on 30 June, 1991, using well 03C02P2 and 3 lbs of fluorescein dye. The remaining discussion applies to the June, 1991 test. Well 03C02P2 is a 2-inch PVC well, 49 ft deep, with a 10 ft screen in the Big Clifty/Beech Creek aquifer at the ABG. Seven springs and two sites in Little Sulphur Creek were monitored within NSWCC for the dye trace. Eleven springs and two sites in Little Sulphur Creek were monitored outside of NSWCC. Spring locations are shown in Plate 2. Six ABG groundwater monitoring wells screened in the Big Clifty/Beech Creek aquifer were also monitored for presence of dye. The wells were 03C05, 03B10, 03C24, 03C25, 03C27, and 03C37. Springs were monitored with packets of coconut charcoal secured in aluminum screens and placed in or near the mouth of the springs. Wells were monitored with charcoal secured in stainless steel packets suspended in the water within the well screens. Springs monitored on-center were Springs A, B, C, D, E, F, and Mountain Spring. Springs monitored off-center were SP-1 through SP-12, excluding seep SP-6.

Low-flow conditions prevailed during the June 1991 test. There was no surface flow in Little Sulphur Creek within the ABG proper and none above Spring C, which feeds the creek. All of the flow in Little Sulphur Creek during the test period was provided by springs emanating from the Beech Creek limestone, specifically Spring C, Spring A, Spring B and off-post springs SP-4 through SP-12. On-center dye detectors were collected and analyzed daily from 30 June to 13 July, 1991. Off-center dye detectors were collected daily until 6 July and every other day until 13 July. A final collection of long-term detectors placed in July was made 23 August. Dye detectors were analyzed by eluting the charcoal with a saturated solution of potassium hydroxide in alcohol and observing for presence of green dye for a period of 72 to 96 hours.

The following monitoring sites tested positive for fluroescein dye at least once: Spring A, SP-1, SP-5, SP-8 and Spring C. A monitoring site in Little Sulphur Creek just inside the boundary of NSWCC was also positive. That part of Little Sulphur Creek is fed by waters from Spring A. Spring A was positive for dye within 5 hrs of injection and remained strongly positive for the duration of the test. Spring A and Little Sulphur Creek south of Spring A were the only monitoring points that can reliably be said to be positive because they tested positive on more than one occasion.

Off-center spring SP-1, a large spring on private property southeast of the ABG (Plate 2), was moderately positive (green dye distinctly visible in focused light within 20 min of elution) on July 3, four days after injection, but was not positive in subsequent collections. A duplicate dye detector placed in SP-1 and also collected and analyzed on July 3 tested negative for dye. A long-term detector placed in SP-1 on July 12 and collected and analyzed on August 13, 1991 tested negative. It cannot be concluded confidently that SP-1 received dye from the injection at the ABG.

Spring SP-8, a long-used public spring located on the county road immediately south of the NSWCC boundary, was negative for all dye detectors collected on a daily basis. However, a long-term detector placed on July 2 and collected and analyzed on July 12 tested weakly positive (green dye not visible in focused light before 24 hrs after elution). The duplicate sample for the date also tested weakly positive. The interpretation was that a small concentration of dye was feeding SP-8, but so weakly that many days were required for the charcoal packet to absorb enough dye to permit detection.

Spring SP-5, located approximately two miles south of the dye injection well, tested very weakly positive (green dye visible in focused light after 24 hrs after elution) 5 days after dye injection. The duplicate detector for that date did not test positive, and further collections at the site were negative for dye presence. The positive indication of dye for SP-5 is interpreted to be erroneous (a result of contamination of the collected dye detector).

The 1991 test has verified the first test's conclusion that Spring A is the prime outlet for groundwater from the ABG. The tracer tests conducted in springs outside of the NSWC boundary were inconclusive concerning connection of the springs to subsurface flow paths from the ABG. Spring A has been sampled and analyzed for the suite of compounds and parameters for which the ABG wells were analyzed. Sampling dates were December, 1987, July, 1989, October, 1989, February, 1990, April, 1991, October, 1991, and January, 1992. Contaminants detected in Spring A to January, 1992 include the explosives RDX and TNT, the primary MCL inorganics barium and nitrate(N), and secondary MCL inorganics. Barium and nitrate(N) were below MCL for drinking water. There is no MCL for RDX. All other inorganics were below secondary MCLs. A discussion of analytical results for all springs is provided in PART V of this report.

5 Nature and Distribution of Groundwater Contamination

Detected Compounds

A list of parameters monitored at the ABG is presented as the first two pages of Appendix F to this report. The list is also an example of the analytical laboratory's reporting format for analytical results. Values with a "<" sign followed by values in parentheses are detection limits. Note that on some sampling dates for some wells only a partial list of parameters was sampled for (see Appendix F).

Wells

Fifty-two wells in the ABG study area have been identified as screened in the Big Clifty/Beech Creek aquifer. Nine additional wells screen the alluvium of Little Sulphur Creek. A DBase printout[1] of detected (value above detection limit) compounds or parameters for all Big Clifty/Beech Creek wells within the ABG study area is presented as Appendix G to this report. Five wells screen and sample the Beaver Bend limestone aquifer. A DBase printout of detected parameters in the Beaver Bend wells is presented as Appendix H. Eight wells screen and sample the Golconda/Haney limestone aquifer. A DBase printout of detected parameters in the Golconda/Haney aquifer is presented as Appendix J. Notable compounds detected were the explosives RDX and TNT, the volatile organic TCE, and the heavy metal barium. RDX has been shown to produce toxic effects on the human central nervous system (McLellan,et al, 1988). TNT is toxic to humans when ingested and has caused death by poisoning. TNT is also mutagenic and carcinogenic in test animals (McLellan, et al. 1988). TCE and barium are toxic to several human organs. TCE is also a carcinogen.

[1] The printouts display six columns of information: the well number, date sampled, parameter tested, a lab qualifier, the amount detected and the measurement unit, resp.

Springs

Springs A through F and Mountain Spring, all within NSWCC, were sampled six times between December 1987 and January 1992. Appendix K presents the detected parameters and amounts detected for the springs.

Statistical and Qualitative Evaluation of Data

Background

An evaluation of analytical results from sampling conducted at the ABG from September 1987 to January 1991 was conducted by Comarco, Engineering Support Division, of Bloomfield, Indiana and submitted as a report to NSWCC (Comarco, 1992). Comarco performed statistical analysis of data amenable to a t-test analysis and a qualitative evaluation of the remaining data. This section summarizes the findings of the Comarco investigation and supplemental evaluation of selected parameters for additional periods by WES.

NSWCC initiated a water quality sampling and chemical analysis program in 1987. The contractor, Anacon, Inc. of Pasadena, Texas, conducted the field collection and laboratory analysis program. Data from well 03C17 for sampling periods October 1987, January 1988, April 1988 and July 1988 were used to establish background concentrations. The groundwater monitoring and assessment plan established by NSWCC for the ABG is provided as Appendix L.

The groundwater was tested for several chemical parameters at various detection limits during the program. The EPA method numbers used by Anacon for analysis are shown in Figure 10. Monitoring of the ABG RCRA wells was performed in accordance with requirements of 40 CFR Part 265 (Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities), section 265.90, Subpart F, Groundwater monitoring. Section 265.90 specifies that three parameter groups be evaluated: (1) parameters characterizing the suitability of the groundwater as a drinking water supply (RCRA Group I, drinking water quality standards), (2) parameters establishing groundwater quality (RCRA Group II, groundwater quality parameters), and (3) parameters used as indicators of groundwater contamination (RCRA Group III, groundwater contamination parameters). Section 265.90 further specifies that each of the four contamination indicator parameters (Group III) be tested in quadruplicate for each sample so that a statistical t-test can be conducted on the data.

Analytical results by parameter group

Group III, indicator parameters. The USEPA has defined four chemical parameters as Group III indicator parameters. They are pH, specific conductance, total organic carbon (TOC) and total organic halogens (TOX). Four

replicate measurements were taken from the groundwater samples from each well at each sampling period. A statistical t-test was conducted on the indicator parameters for the Beech Creek aquifer wells only (with exceptions as noted below). An explanation of statistical methodologies used was provided by Comarco and is presented in Appendix M. The t-test compares the mean and variance of the background well(s) with those of the monitoring wells. Wells significantly different from the background well values are rejected, i.e. the wells are suggested by the t-test to be contaminated.

Wells rejected by the t-test for pH were: 03C01P2, 03C09P2, 03C20, 03C26, 03C29 and 03C30. Average pH values for these wells ranged from 9.41 to 12.6.

Well 03C15 was rejected by the t-test for specific conductance in one sampling period, October 1988. Its average value for the period was 5336 micromho/cm.

Well 03C03P2 was rejected by the t-test for TOC in one sampling period, January 1991. Its average value for the period was 63.1 mg/l.

Beech Creek aquifer wells rejected by the t-test for TOX were: 03C03P2, 03C09P2, 03C11, 03C12, 03C13, and 03C20. Well 03C08A, a Beaver Bend aquifer well, well 03C21P3, a Golconda/Haney aquifer well, and 03B02, an alluvial well south of the ABG in the valley of Little Sulphur Creek, were also rejected by the t-test for TOX.

Group I, drinking water quality parameters. Comarco divided the system of ABG wells into groups of 3, 4 or 5 wells each and compared them to the background well 03C17 for all remaining parameters. The wells compared were predominantly Beech Creek aquifer wells with some exceptions. Comparison was by line graphs showing amount of parameter detected vs sampling period. Comparisons were then made of each detected quantity for each well for each sampling period vs the detection limit and the MCL (drinking water standard). These were not statistical tests. The first group evaluated was Group I, drinking water quality parameters. Group I included arsenic, barium, cadmium, fluoride, lead, mercury, nitrate as N, selenium, silver, endrin, lindane, methoxychlor, toxaphene, 2,4-D, 2,4,5-TP, radium, gross alpha, gross beta and coliform. Table 7 summarizes the results of Comarco's Group I comparisons by listing the wells and the Group I parameters detected. The numbers in the table indicate how many times the parameter was detected in the well. Fluoride was detected in many wells but the data were not compiled in the table because the detected values were below the MCL for drinking water. Data for radium, gross alpha, gross beta and coliform were not compiled for Table 7.

The metal **barium** was detected in many wells in several sampling periods. WES conducted a separate analysis of barium data to include wells not evaluated by Comarco. **Cadmium** was detected in 11 wells at least once. **Lead** was detected in five wells in one sampling period each. **Mercury** was detected in nine wells in one sampling period each. **Nitrate** as N was

detected in 3 wells in a total of 6 sampling periods. **Selenium** was detected in four of the nine boundary alluvial wells (03B01, -B02, -B07 and -B08) in one sampling period each, but in no other wells. The background well, 03C17, had a detectable level of only one of the five metals (barium, 0.05 mg/l) on one occasion.

Barium was detected in 52 wells including 38 wells in the Big Clifty/Beech Creek aquifer, 6 wells in the alluvium of Little Sulphur Creek at the boundary south of the ABG, 7 Golconda/Haney wells and one Beaver Bend well. The boundary wells intercept groundwater emanating from the Beech Creek aquifer and Little Sulphur Creek upstream. Mean values of barium for each well were computed for sampling periods between October 1987 and July 1989 (Group 1 parameters were not sampled after July 1989). Data from seven sampling periods were available for most wells. The highest value of barium detected was 0.36 mg/l in well 03C01P2 in February 1988. Well 03B02, a boundary well, recorded a value of 0.348 mg/l in July 1988. There were no detected amounts of barium at or above the MCL of 2 mg/l. Further WES evaluation of barium data is presented below in the section on Distribution of Contaminants.

Group II, groundwater quality parameters. Group II includes chloride, iron, manganese, phenols, sodium and sulfate. Table 8 lists all wells in which amounts detected were greater than those of the background well 03C17. The background well 03C17 had significant amounts of sodium and sulfates. Wells 03B03 and 03B04 had amounts of **manganese** higher than background in as many as 10 sampling periods.

Explosives. Three explosives compounds were monitored using the high performance liquid chromatography (HPLC) method: Trinitrotoluene (2,4,6-TNT), Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), and octahydro-1,3,5,7-tetranitro 1,3,5,7-tetrazocine (HMX). The instrument detection limit for explosives varied from 0.01 to 0.02 mg/l. One well, 03C03P2, recorded **TNT** at 0.04 mg/l in one sampling period and 0.01 in another. Wells 03B06, 03C05, 03C20, and 03C26 recorded levels of **TNT** near the detection limit in one sampling period each. Two wells, 03C03P2 and 03C08AP2, recorded **HMX** in a total of 3 sampling periods.

WES performed a separate analysis of the RDX data to include wells which were not evaluated by Comarco. Mean values over all sampling periods were computed for plotting. WES counted 22 Beech Creek aquifer wells with detectable amounts of **RDX** in the sampling periods from October 1987 through January 1992. Eight of those wells were emplaced prior to 1987 and were not evaluated by Comarco (but were sampled by Anacon). RDX data for most wells was available for 18 sampling periods. The highest value of **RDX** detected was 0.709 mg/l in well 03C03P2 in April 1988. Well 03C03P2 recorded levels of **RDX** greater than 0.1 mg/l on 11 other occasions. Well 03C08P2 recorded levels as high as 0.3 mg/l and levels greater than 0.1 mg/l on seven other occasions. Well 03C20 recorded levels greater than 0.1 mg/l on six occasions. Well 03-33 recorded levels as high as 0.05 mg/l on five occasions. Well 03-35 recorded levels as high as 0.11 mg/l

once and as high as 0.09 on two other occasions. The background well, 03C17, had no detectable levels of RDX in any sampling period. Further WES evaluation of the RDX data is presented below under the section on Distribution of Contaminants.

Selected solvents. Three volatile organics (solvents) were evaluated because of their relatively common occurrence in the ABG wells. They were trichloroethylene (TCE), di-N-butyl phthalate and bis(2-ethylhexyl)phthalate. Several wells had detectable levels of **di-N-butyl phthalate** and **bis(2-ethylhexyl)phthalate**, but because the compounds are common laboratory and sampling artifacts because of their presence in analytical and sampling equipment, they were considered not to be significant.

WES performed a separate analysis of the TCE data to include wells and time periods not included by Comarco. WES evaluated 33 Beech Creek aquifer wells within the ABG for TCE. The detection limits for TCE were 0.01 and 0.001 mg/l. Twenty-two of the wells had detectable levels of **TCE** at least once between October 1987 and January 1992. The highest **TCE** concentration detected in the 11 sampling periods was 17.840 mg/l in well 03C20 in October 1990. Well 03C20 recorded values of **TCE** greater than 1 mg/l in every sampling period. Well 03C11 recorded levels higher than 1 mg/l on several occasions. Well 03C03P2 recorded levels of **TCE** as high as 0.183 mg/l. Well 03C09P2 recorded levels as high as 0.136 mg/l. The background well 03C17 had detectable levels of **TCE** in two periods prior to Feb 1990 but none since (the detected levels were 0.009 mg/l in April 1989 and 0.002 mg/l in January 1990). Many detected levels of TCE were above the MCL of 0.005 mg/l. Further evaluation of the **TCE** data is presented below under Distribution of Contaminants.

One well (03-07) in the cluster of wells on the "jeep trail" approximately a half mile below the ABG in the alluvial valley of Little Sulphur Creek was sampled by Anacon 11 times from July 1989 to January 1992. See Figure 5 for the location of the wells. Parameter groups 2 and 3, explosives (TNT, RDX and HMX) and four organics (1,1,1-trichloroethane, trichloroethylene, di-N-butyl phthalate and bis(2-ethylhexyl)phthalate) were monitored. Group 1, which includes the heavy metals, was not monitored. Well 03-07 is screened in the alluvium approximately 3 ft above the top of rock. The screen is within the projected elevation of the Beech Creek limestone in the adjacent valley walls. The well is near Little Sulphur Creek. Well 03-07 indicated the presence of TCE above detection limit in all 11 sampling periods. The highest amount detected was 7.102 mg/l in October of 1991. The average (mean) amount detected was 1.304 mg/l. There are 13 other wells in the "jeep well" cluster, but none have been sampled in the Anacon program. See Part I, History of Operations for a description of activities in the area.

Other parameters. **Bicarbonate, calcium, magnesium** and **potassium** were detected in significant quantities in most wells for most sampling periods. All of these compounds are listed for secondary drinking water standards only (standards for taste, odor and appearance).

Distribution of Contaminants

Evaluation of data for the Big Clifty/Beech Creek aquifer

Wells. Contaminant distribution contour maps were developed for RDX, TCE and barium for the 33 Big Clifty/Beech Creek wells within the ABG site proper by compiling the average (mean) value of the measured concentration per well over the sampling periods between October 1987 and January 1992 (all periods available at the time of report preparation). Because barium was also detected often in wells within the ABG study area but outside the ABG proper, an additional map was prepared for barium distribution in the larger study area. Barium is not a particularly toxic compound (its MCL is 2 mg/l), but it was the prevailing heavy metal (primary-MCL metal) detected in the ABG study area, it was detected on multiple occasions in many wells, and it occurred in a pattern indicating a potential source within the ABG. Therefore, distribution maps were prepared for barium.

For a given well, if there was at least one sampling period in which the compound was detected, the mean was calculated by summing all values (including a value of 1/2 the detection limit for amounts less than detection[2]) and dividing by the number of sampling periods. If no detectable quantities were reported in the sampling periods, the value for the well was recorded as zero. The mean values were then contoured using an inverse-squared gridding algorithm (influence of well value decreases as the inverse of the square of the distance to the neighboring well).

The TCE mean values were calculated only over 11 periods because the detection limit improved by a factor of 10 after 1988. The detection limit was 0.01 mg/l for October 1987 through January 1989, but was improved to 0.001 mg/l starting with the April 1989 sampling period. Because of the magnitude of the change in detection limit, the pre-1989 data were discarded and the mean TCE values were calculated using only the later data.

Contour maps of average contaminant concentrations for RDX, TCE and barium in the ABG site proper are presented as Plates 14, 15 and 16, respectively. Plate 17 is a reference map of well locations within the ABG site at the scale of the contour maps. The map for barium for the ABG study area is presented as Plate 18. The minimum value contoured on each map was 0.02 mg/l for RDX, 0.001 mg/l for TCE and 0.05 mg/l for barium (the detection limits for the compounds). The numbers at the wells on Plates 14, 15 and 16 are the calculated mean values in mg/l. The highest mean value for **RDX** over the 18 periods was 0.186 mg/l in well 03C03P2. The highest mean value for TCE was 5.686 mg/l in well 03C20. The highest mean value for **barium** in the ABG site proper (Plate 16) was 0.092 mg/l in well 03C08AP2 and in the ABG study area (Plate 18) was 0.131 mg/l in boundary well 03B03. The TCE contaminant values were contoured using the logarithm

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[2] Statistical analysis permits setting values less than detection at one-half the detection limit.

of the values because the range of mean values was high (0.0006 to 5.686 mg/l).

The contour maps portray the general distribution of the contaminants in the Beech Creek aquifer at the ABG site within the time frame from October 1987 through January 1992 (through July 1989 for barium). Only wells within the ABG site proper (Plate 14) recorded detected values for RDX. TCE was recorded in wells outside the ABG site (within the ABG study area) only sporadically (one-time occurrences at a few wells). Therefore, contour maps were not appropriate for RDX and TCE for wells outside the ABG site proper. A notable exception was the occurrence of TCE in the alluvial well 03-07 on the "jeep trail." RDX also occurred in Spring A, south of the ABG.

The contour map for RDX (Plate 14) indicates that the compound was most highly concentrated in the aquifer in the central and south central portions of the ABG, particularly in wells 03C03P2, 03C08AP2 and 03C20. Well 03C03P2 is adjacent to the burn pads (Areas 2 of Plate 1). Wells 03C08AP2 and 03C20 are near the former ash pile and the incendiary cage (Area 8 of Plate 1). All three wells are near potential sources of explosvies contamination. A similar distribution was shown for TCE on Plate 15, with highest concentrations near the center and south-central portions in wells 03C03P2, 03C11, and 03C20. Another high concentration of TCE was indicated around the cluster of wells 03C09P2, 03-38 and 03-39 northwest of 03C03P2. Well 03C03P2 is near the fuel oil storage tank (Area 13 of Plate 1), well 03C11 is near the solvent burn pans (Area 9) and well 03C20 is near the former ash pile. These three wells are near potential sources of solvent contamination. The distribution of both compounds generally coincides with the position of the subcrop[3] of Big Clifty sandstone exposed downslope of its contact with the Indian Springs shale (the dashed boundary on Plates 14 and 15). Hunt (1988) stated that the Indian Springs shale was a barrier (aquiclude) to infiltration of surface and upper aquifer waters into the Big Clifty/Beech Creek system in the western part of the ABG. Concentration of RDX and TCE in the Big Clifty/Beech Creek aquifer near the Indian Springs/Big Clifty contact seems to corroborate Hunt's interpretation. The scarcity of RDX and TCE detected in monitoring wells southeast of well 03C11 (Plates 14 and 15) is possibly a result of dilution or flushing of contaminants in the high gradient, high flow-velocity karst conduit flow system there (see Plate 13 and Figure 8).

The distribution map for barium in the ABG site proper (Plate 16) shows the metal concentrated near the central and south central ABG, similarly to the RDX and TCE distributions, and around well 03C01P2 near the western extent of the site. The distribution map for the larger study area (Plate 18) indicates that barium in the Beech Creek aquifer extends outside the ABG proper to wells just south of the site (03C30 and 03C31) and that it occurs locally near the easternmost boundary wells in the alluvium of Little Sulphur Creek. The proposed background well, 03C17, had only one detected value

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[3] The subcrop is the exposed surface of the Big Clifty if the overlying colluvial and alluvial soil cover were removed.

(0.05 mg/l) in the seven periods in which it was sampled. Ten monitored Beech Creek wells had no detectable amounts of barium in the periods sampled. The distribution of barium in the groundwater and the absence of the compound in many wells strongly indicates that barium is an operations contaminant for the ABG and not a naturally occurring compound. Barium is a component of some pyrotechnics, which have been burned at the ABG. Barium mixtures are used as oxidizers and as color intensifiers in pyrotechnics (Eakes et al, 1983).

Springs. The six sampling periods for the springs were December '87, July '89, October '89, April '90, April '91, September/October '91 and January '92. Spring A was sampled alone in February of 1990 following the first dye tracer test. Notable compounds detected were as follows (see Appendix K): Spring A recorded detected levels of RDX on five occasions in amounts as high as 0.14 mg/l and TNT on one event (0.03 mg/l). Spring A also recorded the heavy metal barium three times (maximum level was 0.14 mg/l). Nitrates (as N) were detected in Spring A three times but at levels below the MCL of 10 mg/l. Spring A indicated gross Beta radiation greater than the MCL of 4 mrem/y on three occasions.

Spring B recorded trichloroethene (trichloroethylene or TCE) at 0.139 mg/l once and barium twice. Spring B indicated gross alpha radiation above MCL of 15 pCi/L once and gross beta once above MCL.

Spring C recorded RDX at the detection limit (0.02 mg/l) and TCE on one event each, and barium twice. Nitrates (as N) were detected in Spring C three times at about the same levels as in Spring A. Spring C indicated gross beta at 7.7 mrem/y (above MCL) once.

Spring D recorded RDX once at 0.03 mg/l, TCE once at 0.016 mg/l and barium once. Spring D indicated gross beta above MCL of 4 mrem/y twice and gross alpha at the MCL of 15 pCi/L twice.

Spring E recorded barium and di-N-butylphthalate once each. Spring E indicated gross beta once above MCL.

Spring F recorded mercury once at 0.002 mg/l and barium twice. Mountain Spring recorded methoxychlor once at 0.100 mg/l and barium twice. Spring F indicated gross alpha and beta radiation above MCL once.

Springs B, D, E and F showed the high values of gross alpha and beta radiation on the April 1991 sampling date only. The reported values of gross radiation for that date are suspect. Other parameters detected in springs B, D, E and F were below primary MCLs. There were some parameters above secondary MCLs on some sampling dates.

The dye tracer test confirmed the hydraulic connection to the ABG of the Beech Creek limestone conduits that feed Spring A. Dye trace results indicated that Spring C was hydraulically connected to the ABG under limited conditions, and Spring B under even more restricted conditions. Springs A, B

and C release their groundwater to surface drainage which ultimately enters Little Sulphur Creek south of the ABG. Any remediation or future monitoring of release to the Beech Creek aquifer of ABG contaminants should accommodate the area of Springs A, B and C and of the surface waters released from them.

Evaluation of data for the Beaver Bend aquifer

Water quality data were compiled for the five Beaver Bend wells for the period October 1987 through January 1992. The sampling history of the five wells (03C01, 03C02, 03C03, 03C08A and 03C09) is summarized in Appendix F. All five parameter groups were tested through July 1989, but Group 1 was not tested after that date. Group 2 was not tested in sampling periods after July 1989. Parameters from all groups were detected in the Beaver Bend wells. A DBase printout of compounds and parameters detected in the Beaver Bend wells is presented in Appendix H.

Of the explosives tested, **RDX** was detected in two wells, 03C01 and 03C09. **RDX** was detected in 03C01 in January and December 1991 at 0.02 and 0.03 mg/l, respectively. **RDX** was detected in 03C09 in October 1989 at 0.23 mg/l. No other explosives were detected in Beaver Bend wells.

Organic compounds, particularly **TCE**, were detected in all five Beaver Bend wells. For TCE, only data for DL of 0.001 were evaluated. Table 9 summarizes the occurrence of organic compounds in the Beaver Bend wells. For data with a DL of 0.001 mg/l (i.e. later than March 1989), wells 03C01 and 03C09 recorded detectable levels of TCE on three occasions, (counting trichloroethene). The highest level of **TCE** was 0.007 mg/l in 03C09. **TCE** was also detected at least once in each of the other wells. Other organics detected were **1,1-dichloroethene** (one well), **benzene** (three wells), **chloroform** (one well), **1,1,1-trichloroethane** (one well), **bis(2-ethylhexyl)-phthalate** (three wells), and **di-N-butylphthalate** (one well).

Three heavy metals were detected in Beaver Bend wells. **Barium**, as high as 0.056 mg/l, was detected in well 03C09 in four periods. **Cadmium**, as high as 0.09 mg/l, was detected in well 03C02 once and 03C03 twice. **Mercury**, as high as 0.014 mg/l, was detected in well 03C02 once and in 03C09 once. Note that heavy metals (Group 1 parameters) were not tested for after July, 1989. The background well, 03C17, had a detectable level of only one of these three metals (barium, 0.05 mg/l) on one occasion.

Evaluation of data for the Golconda/Haney aquifer

Eight wells were screened in the Golconda/Haney limestone, the uppermost aquifer at the ABG. The wells were 03C01P3, 03C08AP3, 03C15P3, 03C18, 03C19P3, 03C21P3, 03C22 and 03C23. The sampling history of the Golconda/Haney wells is provided in Appendix F. Wells 03C01P3, 03C08AP3, 03C15P3 and 03C18 were sampled in 18 periods between

Oct 1987 and January 1992. Well 03C19P3 was sampled in only 10 periods. Well 03C21P3 was sampled in 14 periods and wells 03C22 and 03C23 in 17 periods. Group 1 drinking water parameters, which include the heavy metals, were not sampled after July 1989. All of the wells are located in the western or southern portions of the ABG (see Plates 1 and 2). A DBase print-out of detected compounds in the Golconda/Haney is presented in Appendix J.

The explosive compound **RDX** was detected in only one Golconda/Haney well, 03C08AP3, twice in 1988 and once in July 1991. The highest detected amount of RDX was 0.03 mg/l (detection limit was 0.02 mg/l).

Several organic compounds were detected in several wells. The volatile organic **TCE** was detected three times each in 03C01P3, 03C08AP3, 03C21P3 and 03C23, once in 03C15P3, four times in 03C18, twice in 03C19P3, and five times in 03C22 (TCE was evaluated only for the 0.001 mg/l DL). The highest amount of TCE detected in one sampling event was 0.067 mg/l in 03C22. TCE exceeded its MCL of 0.005 mg/l in wells 03C08AP3 (once), 03C15P3 (once), 03C18 (once), 03C21P3 (twice), 03C22 (once), and 03C23 (once). Plate 19 is a contour map of mean TCE concentration for the sampling periods April, 1989 to January, 1992. The map emphasizes the highest mean level of TCE detected in well 03C21P3, at 0.0126 mg/l. A weighted contouring algorithm that minimizes the influence of adjacent data points (inverse square of distance) was used to bias the interpretation of contaminant distribution toward point sources near the wells.

Other organic compounds detected in more than one well or more than one period were **di-N-butyl phthalate** (three wells), **bis(2-ethylhexyl)phthalate** (five wells), **benzene** (3 wells), **carbon tetrachloride** (two wells), and **chloroform** (one well). The pesticide **2,4,5-TP** was detected once in well 03C01P3 in 1987 and once in well 03C22 in 1988. All of the benzene amounts exceeded the MCL of 0.005 mg/l. Both carbon tetrachloride amounts exceeded the MCL of 0.005 mg/l. It should be noted that benzene and carbon tetrachloride were detected only on the first sampling event (Fall, 1987), and were not detected subsequently. No other organics exceeded existing MCLs.

Four heavy metals (Group 1) were detected in Golconda/Haney wells. **Barium** was detected once in 03C01P3, five times in 03C08AP3, twice in 03C18, 03C19P3, 03C21P3 and 03C22, and four times in 03C23. The highest amount detected of barium was 0.14 mg/l in well 03C08P3 (MCL for barium is 2 mg/l). **Cadmium** was detected once in well 03C18 (0.05 mg/l) and once in well 03C23 (0.04 mg/l). Both cadmium amounts were above the MCL of 0.005 mg/l. **Mercury** was detected once in well 03C19P3 at 0.008 mg/l (above the MCL of 0.002 mg/l). **Selenium** was detected once in well 03C22 at 0.006 mg/l (MCL is 0.05 mg/l). The background well, 03C17, had a detectable level of only one of these four metals (barium, 0.05 mg/l) on one occasion. Plate 20 is a contour map of mean barium concentration in the Golconda/Haney wells for available sampling periods. The map reflects the highest levels in wells 03C08AP3 and 03C23.

The migration characteristics of Golconda/Haney groundwater were presented earlier.

Extent of Contamination

The extent of contamination of the groundwater by sources at the ABG is discussed for each of the three aquifers described earlier in this report: the uppermost aquifer, the Golconda/Haney limestone; the middle and primary aquifer, the Big Clifty sandstone/Big Clifty limestone; and the lower aquifer, the Beaver Bend limestone. Determination of the extent of contamination in each aquifer was made from evaluation of the groundwater quality data obtained by the contractor, Anacon, during the period September 1987 through January 1992.

Golconda/Haney limestone aquifer

The Golconda/Haney limestone at the ABG was described above. The formation occupies the northern, southern and western fringes of the ABG site, west and north of the ABG, and south along the ridge between Johnson Hollow and Little Sulphur Creek, but is daylighted (removed by erosion) in the center of the ABG site and in the valleys of Johnson Hollow and Little Sulphur Creek to the southwest and east see Plate 5). Groundwater flow in the monitored portion of the Golconda/Haney at the ABG is toward the east and north from the west and south, where the formation drains into the valley. Contamination in the Golconda/Haney, which has been shown to be primarily TCE, is probably limited to the southwest quadrant of the ABG with ultimate migration into the lower Big Clifty/Beech Creek aquifer in the central and east portions of the ABG. The base of the Golconda/Haney in the vicinity of the ABG is at about 590 ft NGVD minimum, at least 90 ft above the valley floors, and is underlain by the Indian Springs shale aquiclude.

Big Clifty sandstone/Beech Creek limestone aquifer

The Big Clifty/Beech Creek aquifer, as discussed earlier in this report, is infiltrated, or recharged, by precipitation and runoff from a large portion of the ABG and is directly accessible by percolating contaminated groundwater. The karst solution channels in the Beech Creek limestone have been shown to transport Beech Creek groundwater rapidly to the southeast away from the ABG within the valley of Little Sulphur Creek. The Elwren shale aquiclude at the base of the Beech Creek disperses the groundwater laterally within the Beech Creek. The Beech Creek discharges groundwater back to the surface at the springs in the valley of Little Sulphur Creek. The Beech Creek and its springs are exposed in the valley at least as far as 3-1/2 miles south of the ABG (see Plate 2). Water issuing from the springs recharges Little Sulphur Creek year round.

The extent of contamination in the Big Clifty/Beech Creek aquifer for the parameters RDX, TCE and barium was presented graphically by the contaminant concentration contour maps, Plates 14, 15, 16 and 18. Only barium was shown to be present outside the ABG site proper. However, Spring A, the primary outlet for Beech Creek groundwater, had detected levels of RDX, TNT and barium. Spring C, located on the eastern side of the valley of Little Sulphur Creek and north of Spring A, had detected levels of RDX only once and at a just-detectable level. Spring C was shown by tracer tests to discharge groundwater originating at the ABG only at high flow, for example, following periods of high or extended precipitation. Spring C and other springs would be more effectively monitored by a sampling system or program that sampled on-demand, i.e. during high flow conditions.

Little Sulphur Creek discharges its waters into its alluvium and downstream beyond the boundary of NSWCC. The alluvial wells (03B01 through 03B09) have not shown persistently detectable levels of contaminants attributable to ABG activities except for the heavy metal barium (see Plate 18). Surface water and bottom sediment sampling of Little Sulphur Creek were conducted in the spring and in the summer (two rounds) of 1992. Preliminary analysis of the data indicates that certain explosives, organic compounds, metals and nitrates have accumulated in the surface water and bottom sediments of Little Sulphur Creek. Two of 11 surface water sampling sites, located immediately below and 1/4 mile below the ABG site, generally showed higher frequency and quantity of explosives and metals contamination than the other sites. Explosives in sediments generally were detected at more sites and at higher levels within the ABG site than below it. Generally, contaminants were detected more frequently in bottom sediments of Little Sulphur Creek than in its waters. A draft report of the surface water investigation is in preparation (Murphy and Wade, 1993).

Contamination by explosives of the groundwater of the Big Clifty/Beech Creek system and to the surface water and the alluvial groundwater that it recharges south of the ABG extends south beyond the ABG at least as far as the mouth of Spring A and the vicinity of monitoring well 03C38 in Little Sulphur Creek. Other compounds including certain volatile organics and heavy metals occur in the waters as far south as the NSWCC boundary across Little Sulphur Creek.

Beaver Bend limestone aquifer

The Beaver Bend limestone aquifer was shown to be hydraulically separate from the Big Clifty/Beech Creek aquifer, exhibiting a piezometric differential of some 35 to 45 ft (Hunt, 1988). Explosives, organics and heavy metals were detected in the Beaver Bend, as discussed above, but in relatively low concentrations compared to levels in the Big Clifty/Beech Creek. The five wells monitoring the Beaver Bend are in the ABG site proper (wells 03C01, 03C02, 03C03, 03C08A, and 03C09 of Plate 3 and Figure 9). It is not possible to determine the extent of contamination in the Beaver Bend beyond the ABG without further well emplacement, if action levels for detected

contaminants necessitate expansion of the monitoring program. The existing Beaver Bend wells should continue to be monitored to determine its groundwater quality.

Contaminant Fate and Transport

A discussion of contaminant fate is a prediction of the long-term disposition of a contaminant in the environment. Transport is the mechanism by which the contaminant is inserted and dispersed into the environment from its source. This discussion is limited to the notable compounds discussed above, i.e. RDX, TCE and barium and the heavy metals in general.

Explosives

RDX was one of many explosives burned at the ABG. Composition B (see History of Operations, this report) is a mixture of RDX and TNT. RDX has a low solubility in water (reported values of 7.6 to 42 mg/l, or 0.00076 to 0.0042 percent at 20° C.) and a low leachate level by downward percolation through contaminated soils (McLellan, Hartley and Brower, 1988(1)). McLellan, Hartley and Brower also reported that RDX resists aerobic degradation in soils and does not volatilize significantly, but degrades rapidly by photolysis[4] (1988(1)). The low water solubility of RDX (and indeed of the associated explosives compounds HMX and TNT, which have degradation characteristics similar to those of RDX) means that the compound will be released from contaminated soils slowly, will migrate to the water table slowly, and will result in low concentrations in the groundwater. The slow degradation of RDX in the absence of light should result in slow but long-term release to the water table by leaching. Once RDX-contaminated groundwater is released to surface waters, e.g. through springs, degradation by photolysis should proceed. Etnier (1986) reported sunlight photolysis degradation rates for RDX of 3 to 9 days. Studies of HMX indicated a half-life of 4 to 5 days for a 0.5 parts per million (ppm) concentration of HMX in water when exposed to natural sunlight (McLellan, Hartley and Brower, 1988(2)).

TCE

TCE is a widely used dry cleaning fluid, a degreasing and drying medium for metals and electronic parts and has a number of other industrial uses. Waste solvents containing TCE from Crane operations have been burned in pans at the ABG and are a potential source of the compound (see map, Plate 1). The transport and fate of organic contaminants such as TCE in the subsurface is a complicated topic being actively researched at this time. Several factors or mechanisms affect the movement and fate of organics through

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[4] Photolysis is chemical decomposition by the action of light.

the soil and groundwater, including volatilization to the air, adsorption of solutes onto saturated and unsaturated soils, biodegradation under aerobic and anaerobic conditions, and multi-phase transport of immiscible organic compounds in groundwater in bulk, dissolved and vapor phases (Canter, Knox and Fairchild, 1987). TCE has a weak solubility in water (1,100 mg/l or 0.11 percent at 20° C, in Montgomery and Welkom, 1990), but is many times more soluble than RDX, for example. TCE is denser than water, with a specific density of 1.46 at 20° C. The volatility of TCE and similar organic compounds implies that it would be removed rapidly from waters introduced back into the subaerial environment, for example where groundwater springs discharge the Beech Creek aquifer waters into the valley of Little Sulphur Creek south of the ABG.

Metals

Canter, Knox and Fairchild (1987) listed four major reactions of heavy metals with soils: adsorption, ion exchange, chemical precipitation and complexation with organic substances. They cite studies showing that adsorption seems to be the most important attentuation mechanism for metals. Adsorption to soil is in turn influenced by soil type. Clays and organic soils retain metals more effectively because of their capacity for cation exchange. Once in the groundwater, metal ions are carried downgradient to form a contaminant "plume" that can be detected by monitoring wells. Advection, movement of the metals under the influence of the hydraulic gradient, is the dominating mechanism driving the contaminants into and through the aquifer. Dispersion of the waterborne contaminants along and laterally from the direction of advection occurs primarily by mechanical mixing and secondarily by molecular diffusion from an area of higher concentration to an area of lower concentration (Driscoll, 1986). Barium and other heavy metals would be expected to remain in ionic form in the groundwater even if the water were discharged back to the surface at springs.

6 Conclusions and Recommendations

Conclusions

Groundwater contamination has occurred in aquifers beneath the Ammunition Burning Ground (ABG). Principle contaminants identified through sampling and analysis of water from monitoring wells are military explosives compounds RDX, TNT and HMX and the volatile organic trichloroethylene (TCE). Trace metals (heavy metals) also occur.

Occurrence of the principle contaminants is limited, with one exception, to monitoring wells within the ABG proper and to springs A and C south of the ABG in the valley of Little Sulphur Creek.

The Beech Creek limestone is the primary receptor of contaminants originating from activities within the ABG. Contaminated runoff from the ground surface infiltrates into the Beech Creek limestone through the Big Clifty sandstone where the sandstone is exposed in the axis of the valley of Little Sulphur Creek in the ABG. Water within the Beech Creek then moves through the formation, primarily in solution conduits, southeastward along the valley of Little Sulphur Creek. In periods of very high rainfall, surface runoff within the ABG proceeds into Little Sulphur Creek and remains as surface flow downstream of the ABG.

The existence of a structural trough in the Beech Creek and contiguous formations south of the ABG may enhance the flow of groundwater from the ABG to the south.

Spring A, located on the west valley wall approximately a mile-and-a-half south of the ABG, is the primary outlet of Beech Creek formation groundwater. Water issuing from Spring A feeds Little Sulphur Creek. Travel time for groundwater in the Beech Creek system from the ABG to the mouth of Spring A is estimated at roughly two miles per day.

Spring C, located on the east valley wall of Little Sulphur Creek about one mile below the ABG, is an outlet of Beech Creek groundwater only at high flow. Spring B, located south of Spring A, is possibly an outlet under even

more restrictive conditions. No other springs mapped in the study area have been shown unequivocally to be hydraulically connected to the ABG site.

The deepest aquifer monitored at the ABG, the Beaver Bend limestone, has shown indications of explosives, organics and heavy metals contaminants, but in lower concentrations and less frequently than the Big Clifty/Beech Creek aquifer. Monitoring of the Beaver Bend is continuing.

The Golconda/Haney limestone, the uppermost aquifer monitored at the ABG, is considered contaminated with TCE. Some heavy metals were also detected. The Golconda/Haney is of limited lateral extent at the ABG. Waters in the Golconda/Haney infiltrate eastward and northward (toward the valley axis) and ultimately become part of the Beech Creek aquifer system before leaving the ABG.

The highest detected level of RDX was 0.709 mg/l in well 03C03P2 near the center of the ABG in the Big Clifty/Beech Creek aquifer. Well 03C03P2 also recorded levels of RDX greater than 0.1 mg/l on 11 other occasions (detection limit for RDX was 0.02 mg/l and there is no MCL). Big Clifty/ Beech Creek aquifer wells 03C08AP2 and 03C20 also recorded relatively high levels of RDX (0.1 to 0.3 mg/l) on several occasions. The background well, 03C17, recorded no detectable levels of RDX.

The highest detected level of TCE was 17.840 mg/l in well 03C20. Well 03C20 had detected levels of TCE greater than 1 mg/l in 11 sampling periods (detection limit for TCE was 0.001 mg/l and the MCL is 0.005 mg/l). Well 03C11 recorded levels of TCE greater than 1 mg/l on several occasions. Other wells with TCE levels greater than 0.1 mg/l were 03C03P2 and 03C09P2. All of these wells are Big Clifty/Beech Creek wells and all are located near the center of the ABG. The background well 03C17 had detectable but relatively low levels (0.002 and 0.009 mg/l) of TCE on two occasions. One well sampled in a group of wells south of the ABG in Little Sulphur Creek, along a "jeep trail", had detected levels of TCE as high as 7.1 mg/l.

Barium was the only trace or heavy metal detected in many wells in multiple sampling periods. Barium was detected in a total of 52 wells in many of the seven sampling periods available. The highest value of barium detected was 0.36 mg/l in well 03C01P2. Barium was also detected in several wells on multiple occasions south of the ABG and in the boundary alluvial wells. The detection limit for barium was 0.05 mg/l and the MCL is 2 mg/l. Other heavy metals detected in more than one well but in only one sampling period each were cadmium, lead and mercury.

Distribution maps of RDX, TCE and barium in the Big Clifty/Beech Creek aquifer wells indicate that RDX and TCE are most highly concentrated in the central and south central portion of the ABG. The wells showing the highest levels of RDX and TCE are near potential sources of explosives and solvent contaminants, respectively. The compounds were generally absent in wells outside the ABG. RDX occurred outside the ABG only in Spring A. Barium

occurred within the ABG similarly to RDX and TCE but also was prevalent in wells immediately south of the ABG and in wells in the alluvium of Little Sulphur Creek near the NSWCC boundary south of the ABG. The distribution of barium in the groundwater, its absence in some wells, including, except in one sampling period, the background well, and the fact that barium is a component of some pyrotechnics indicate that barium was an operations contaminant for the ABG and not a naturally occurring compound.

The distribution of groundwater contaminants (RDX and TCE) within ABG wells is roughly correlative with the position of the Big Clifty sandstone exposed near the east and central portion of the ABG, indicating that the absence of the Indian Springs shale there permits infiltration of surface runoff into the Beech Creek aquifer through the Big Clifty sandstone. The distribution of contaminants also corroborates Hunt's interpretation that the Indian Springs shale is an effective aquiclude to vertical infiltration into the Big Clifty/Beech Creek aquifer in the western part of the ABG.

Spring A recorded levels of RDX on five of the seven sampling periods, and TNT once, confirming dye trace results linking it hydraulically to the ABG subsurface.

Contamination of the groundwater in the Big Clifty/Beech Creek aquifer by selected explosives, organics and heavy metals originating at the ABG is prevalent within the ABG proper but exists south of the ABG at least one mile. The discharge of Spring A, and under certain conditions, Spring C, into the valley of Little Sulphur Creek and surface waters carried by Little Sulphur Creek have transported contaminants to the south. Contamination of the valley south of the ABG appears to be selective, with different contaminants accumulating in the groundwater, the surface water and the stream sediments.

Recommendations

The release to groundwater of contaminants originating at the Ammunition Burning Ground has been adequately characterized. A release to groundwater has occurred. The RCRA Facility Investigation program should proceed to Risk Assessment to establish Action Levels and to characterize the potential for adverse health effects, and thence to the Corrective Measures Study and Implementation.

Wells at the "jeep trail" location south of the ABG in Little Sulphur Creek should be sampled for contaminants to determine whether groundwater contamination that was detected in well 03-07 occurs elsewhere in the aquifer in the "jeep trail" area. The existing wells, which were installed in the early 1980s, should be purged and allowed to recover to determine which are still suitable for monitoring. The additional groundwater monitoring should be coordinated with additional soil sampling and analysis of the area as part of the current RFI Phase III for Soils being conducted at the ABG. Results of

the additional groundwater monitoring program should be reported as part of the RFI Phase III Soils report.

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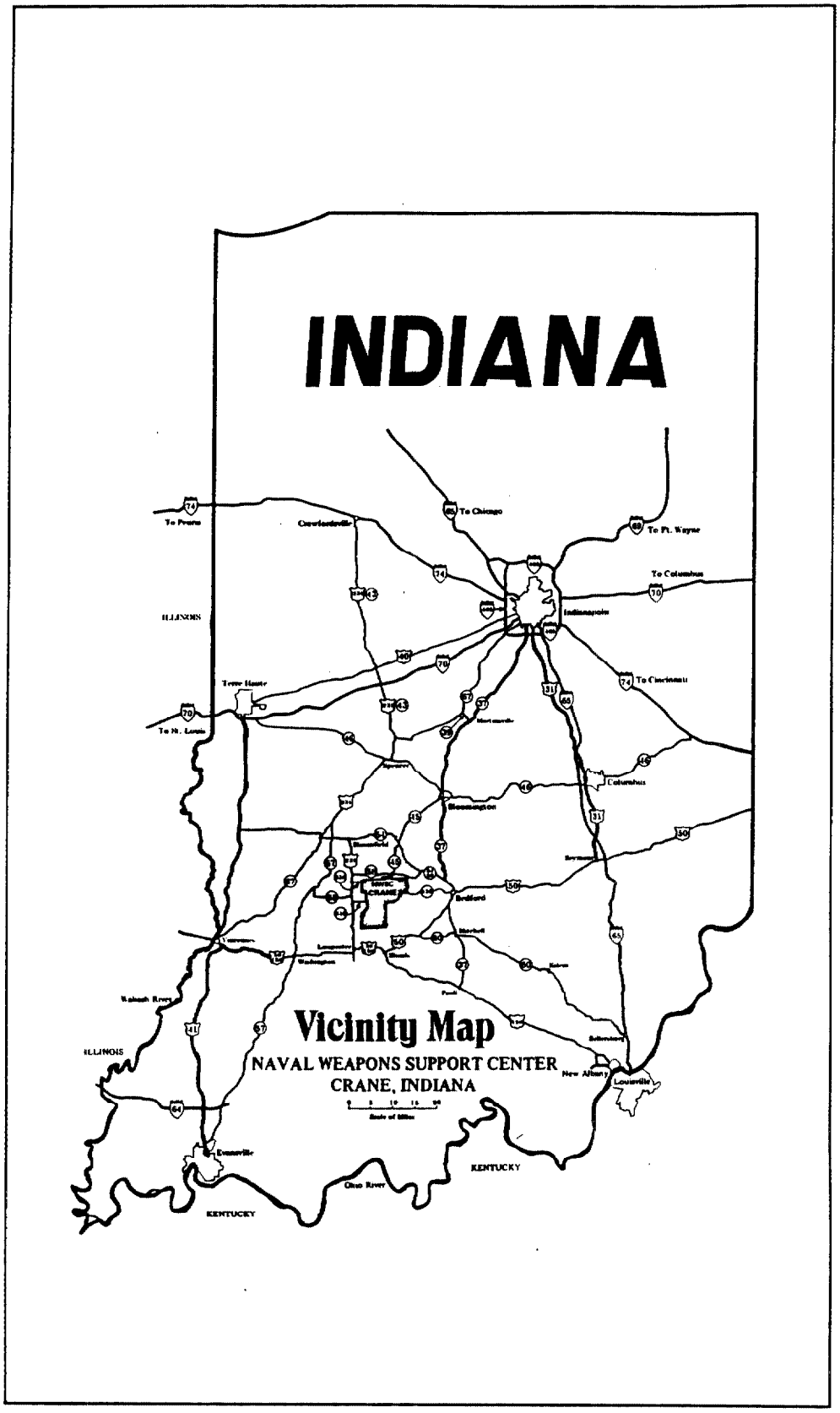


Figure 1. Location of Naval Surface Warfare Center, Crane, Indiana

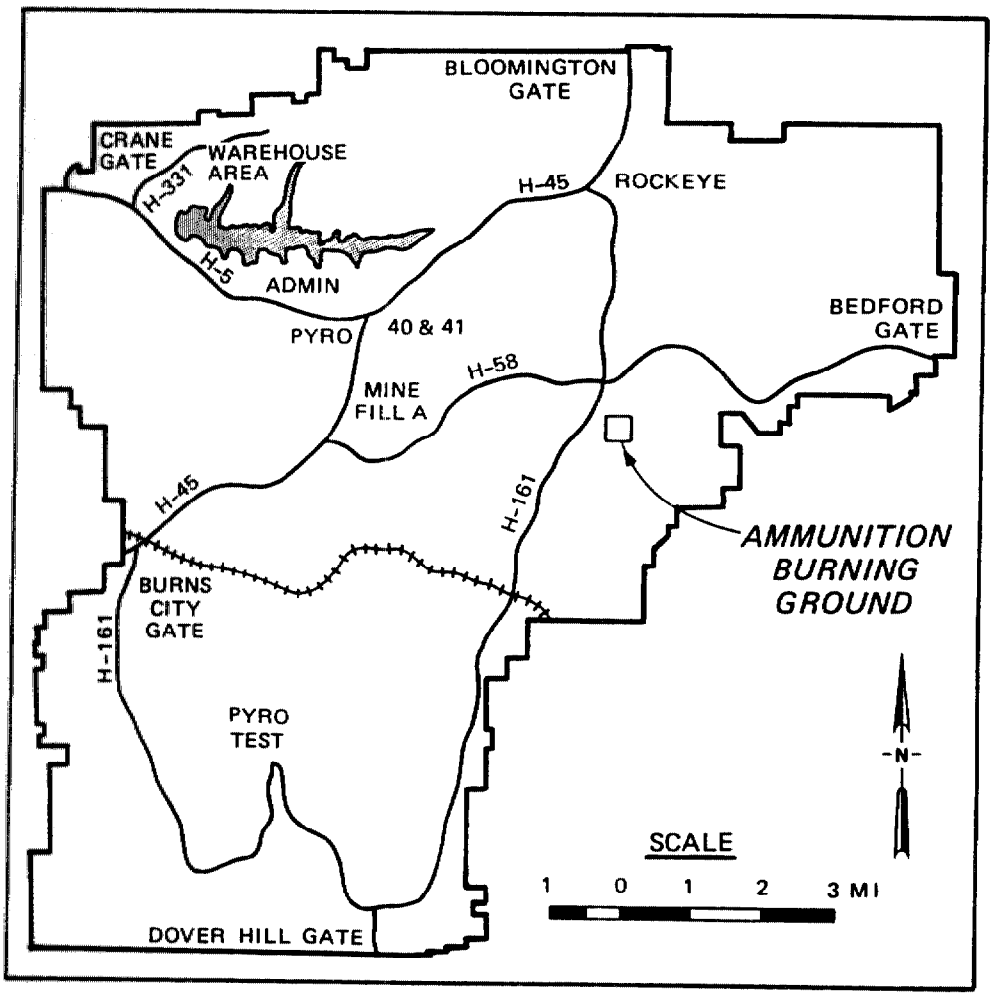
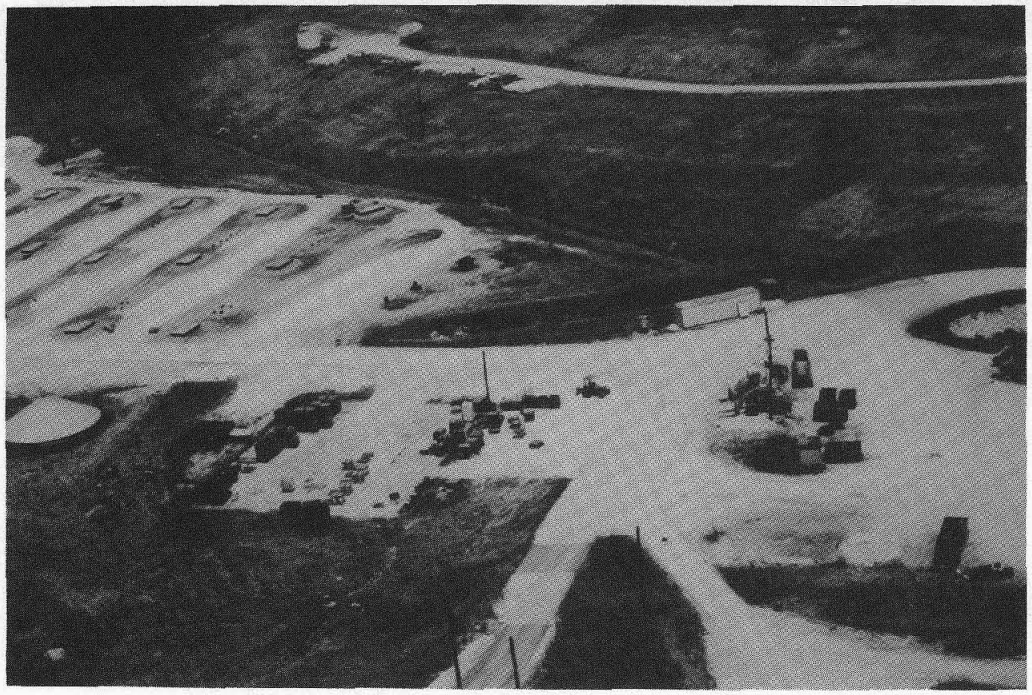


Figure 2. Crane Naval Surface Warfare Center and location of the Ammunition Burning Ground



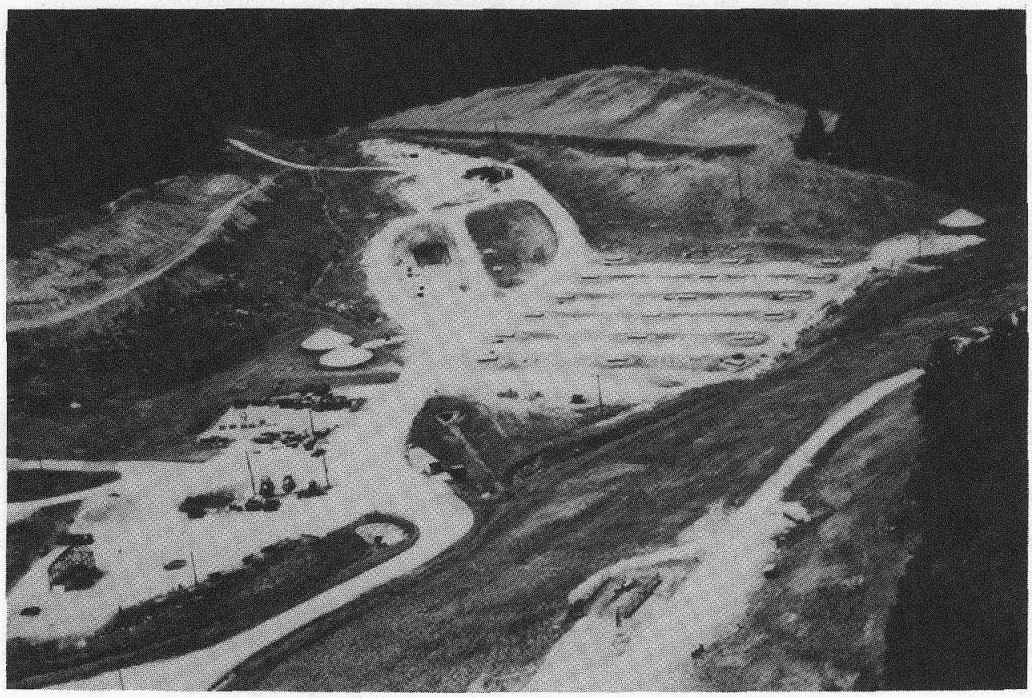


Figure 4. Views of Ammunition Burning Ground on 5/28/91 looking north-northwest (top) and west (bottom)

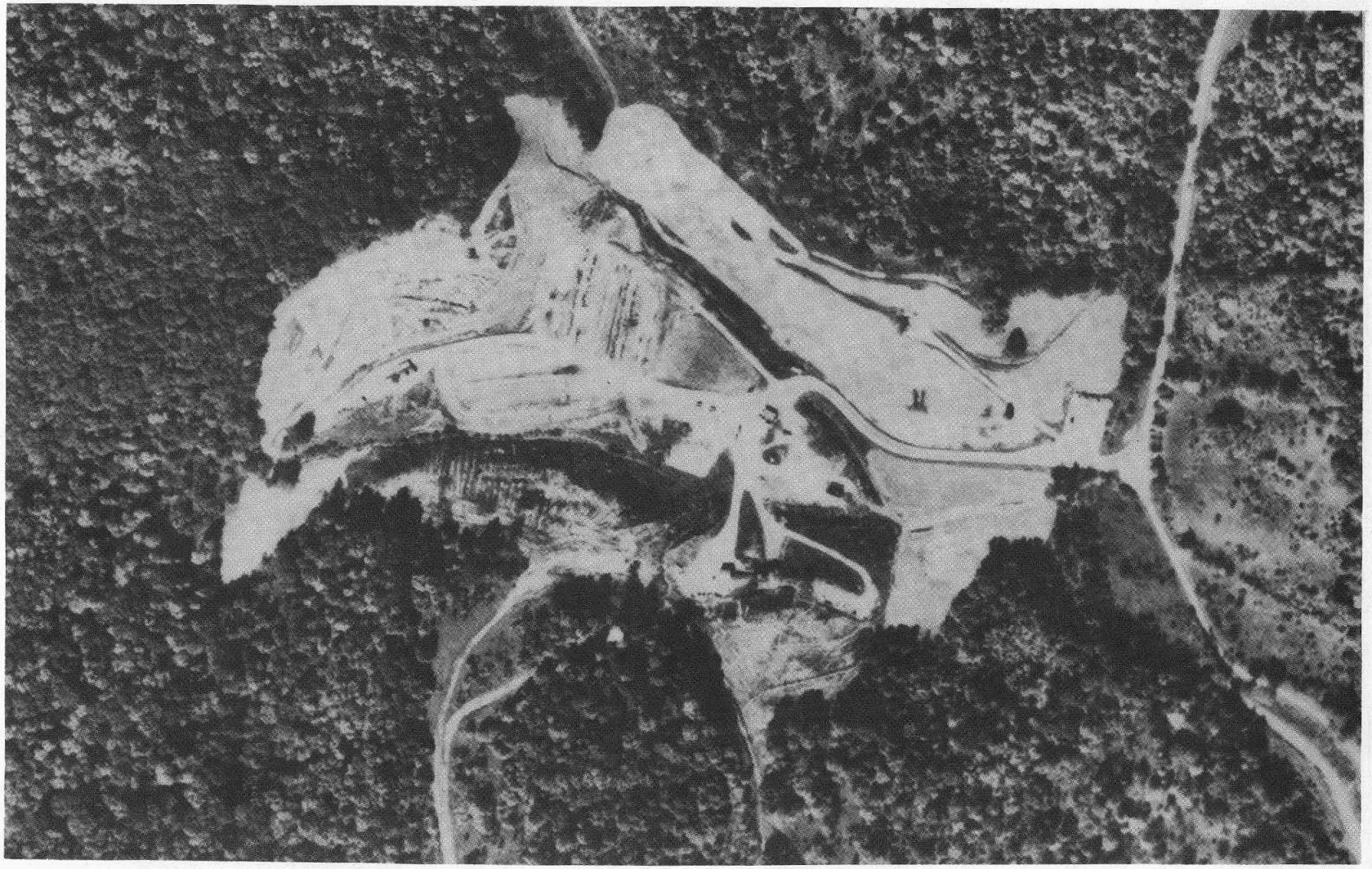


Figure 3. Vertical aerial photograph of Ammunition Burning Ground on 5/10/66. Scale approximately 350 ft/in.

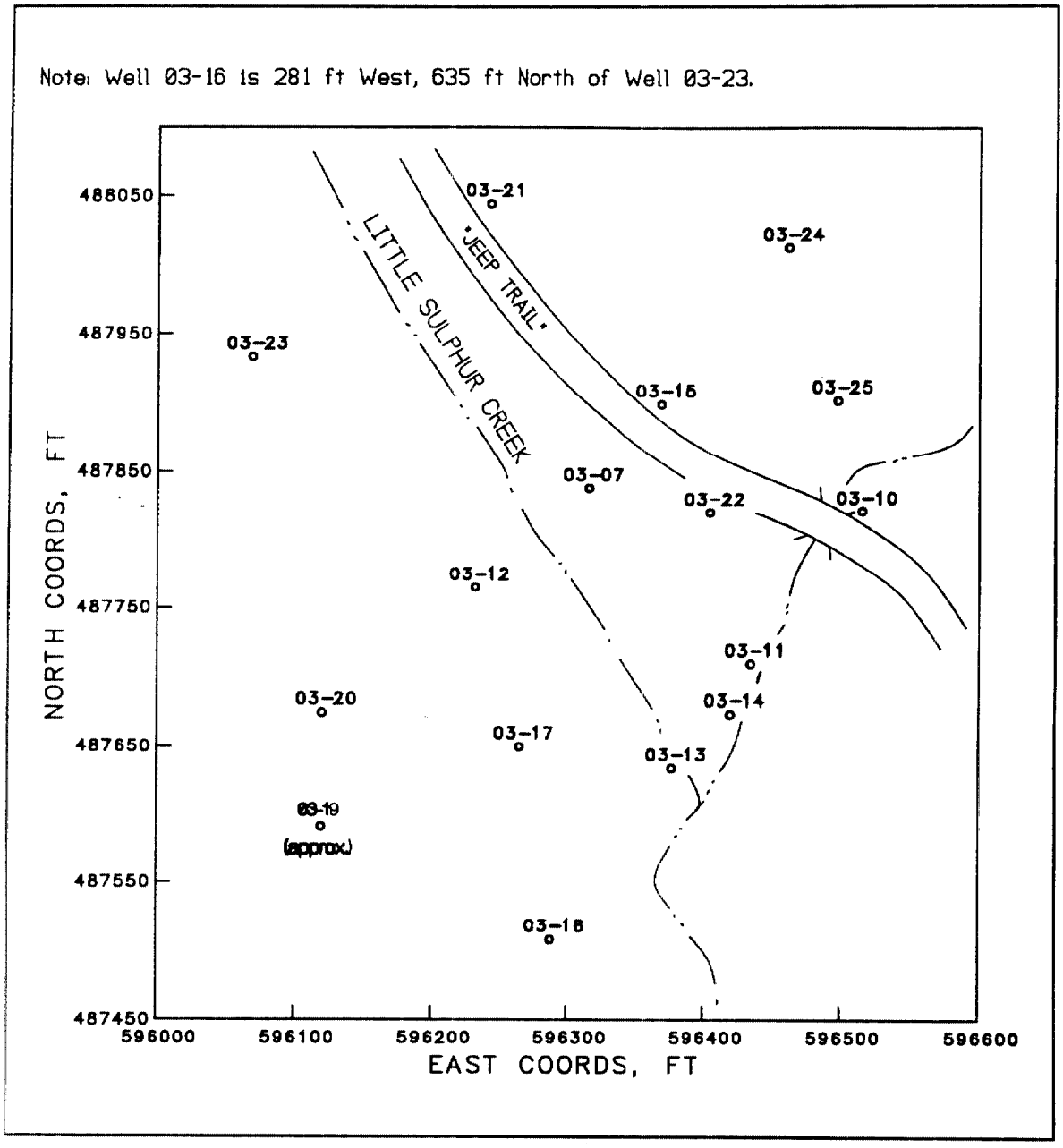


Figure 5. Location of wells on "jeep trail" in Little Sulphur Creek valley, Ammunition Burning Ground Study Area

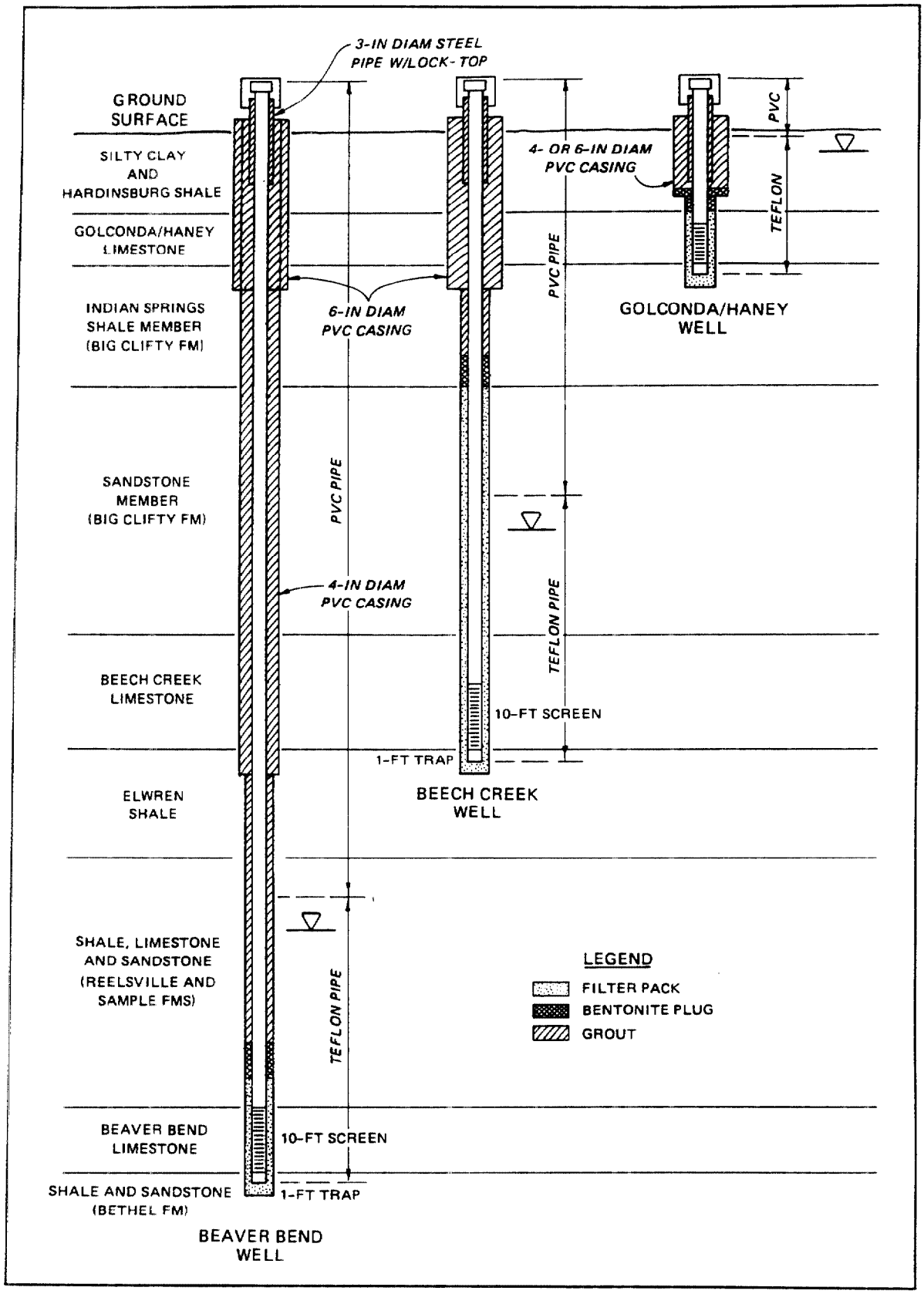


Figure 6. Typical well installation at Ammunition Burning Ground

PERIOD	EPOCH	THICKNESS (FEET)	LITHOLOGY	FORMATION	GROUP
PENN-SYL-VANIAN	POTTS-VILLE	150-300		MANSFIELD FM.	"RACCOON CREEK"
MISSISSIPPI	CHESTER	20-30		GLEN DEAN LS	STEPHENS-PORT
		30-40		HARDINSBURG SS.	
		40-50		GOLCONDA LS.	
		25-40		BIG CLIFTY FM.	
		15-25		BEECH CREEK LS.	
		20-40		ELWREN FM.	WEST BADEN
		0-5		REELSVILLE LS.	
		20-40		SAMPLE FM.	
		10-20		BEAVER BEND LS.	
		12-30		BETHEL FM.	
	MERAMEC	15-20		PAOLI LS.	BLUE RIVER
		100-120		STE. GENEVIEVE LS.	
		100-120		ST. LOUIS LS.	
		90-100		SALEM LS.	SANDERS
		50-80		HARRODSBURG LS.	
	OSAGE	600-800		MULDRAUGH FM.	BORDEN

Figure 7. Stratigraphic column for rock units encountered at NSWCC (after Palmer, 1989)

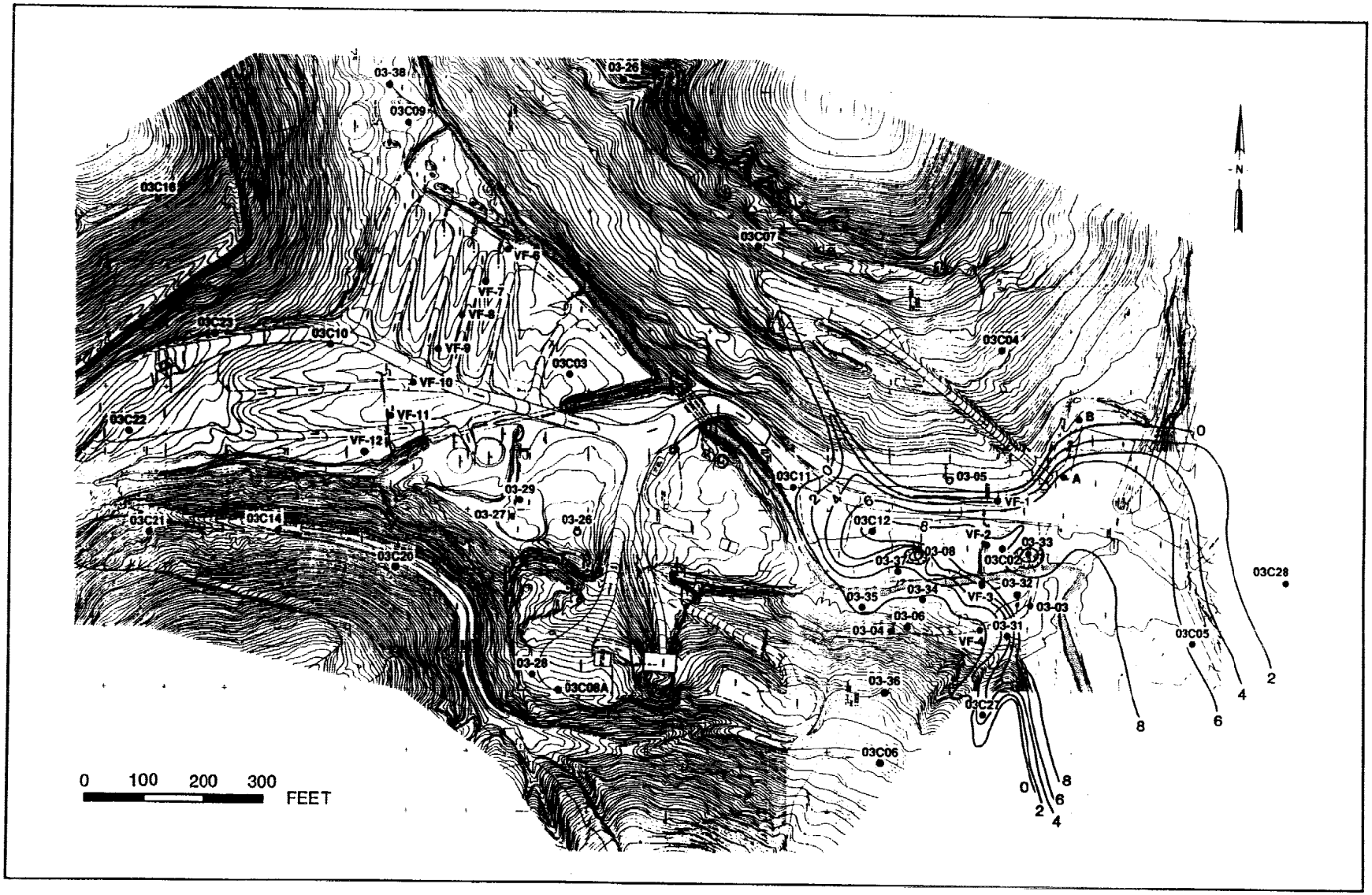


Figure 8. Cumulative thickness of solution widened openings in Beech Creek limestone, Ammunition Burning Ground

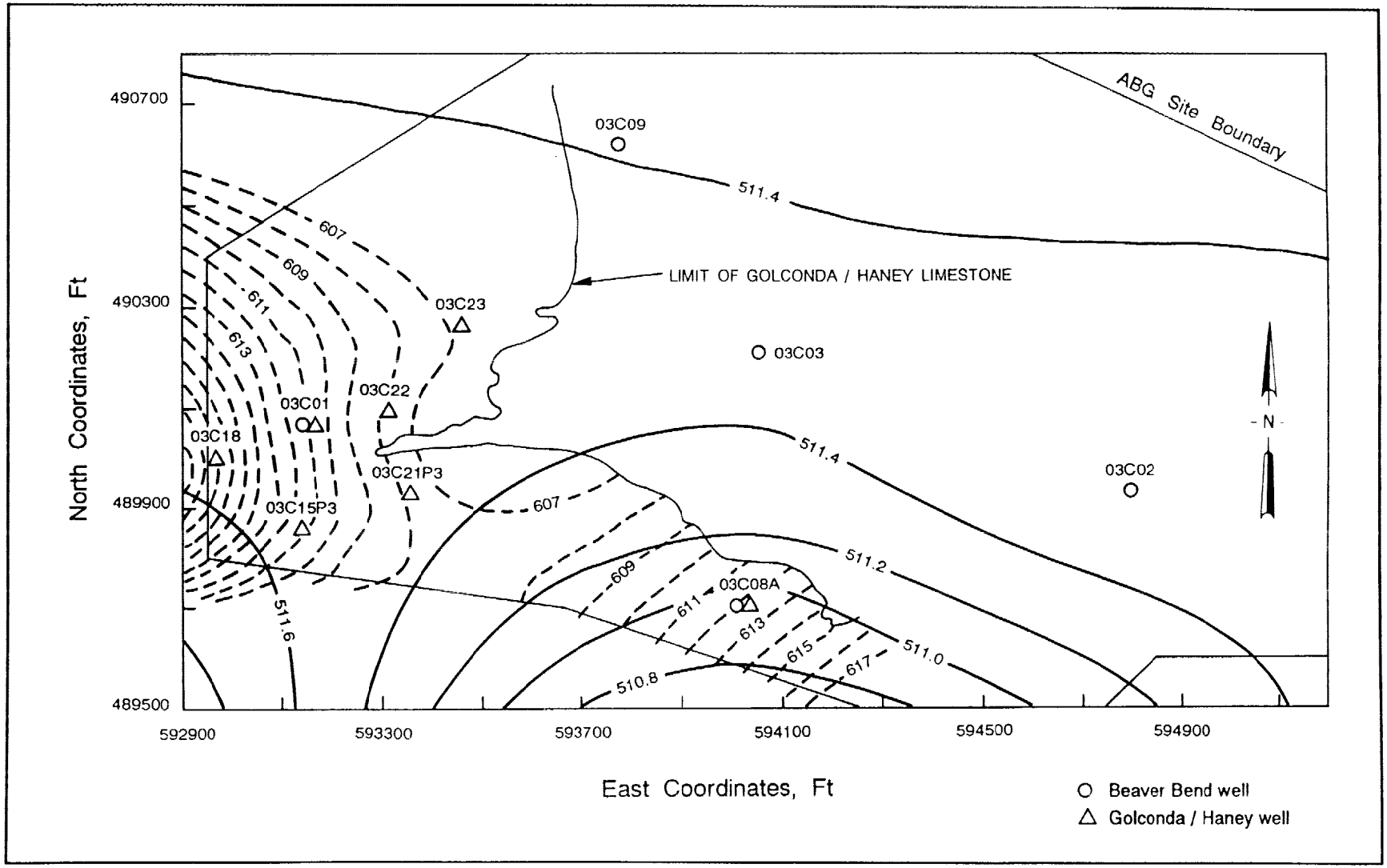


Figure 9. Piezometric surfaces, Golconda/Haney (dashed) and Beaver Bend (solid) limestones, Ammunition Burning Ground, for 12/28/89

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ANALYTICAL AND CONSULTING LABORATORIES
Environmental, Chemical, and Petroleum

CURRENT EPA METHOD NUMBERS

CUSTOMER NAVWPNSUPPCEN

BLDG. 2516

CRANE, INDIANA 47522

ATTN: JO BELCHER

ANACON#

DATE

DATE RECEIVED

SAMPLE DESCRIPTION:

TEST RESULTS:

pH	150.1			Endrin		608
Sp. Cond.	120.1			Lindane		608
TOC	415.1			Methoxychlor		608
TOX	9020			Toxaphene		608
Fe	200.7	As	206.2	2,4-D		509B
Mn	200.7	Ba	200.7	2,4,5-TP		509B
Na	200.7	Cd	200.7	Radium	EPA	903
Sulfate	375.4	Cr	200.7	Gross Alpha		900
Chloride	310.1	Pb	239.2	Gross Beta		900
Phenol	420.1	Hg	245.1	Coliform		908
TNT	HPLC	Se	270.2	1,1,1-trichloro ethane		601
RDX	HPLC	Ag	200.7	Trichloroethylene		601
HMX	HPLC	Fluoride	340.2	D-N-Butyl Phthalate		606
PCB	608	Nitrate-N	353.3	Bis(2-ethylhexyl) Phthalate		606
VOC	624	HCO_3	310.1			
Mg	200.7	Ammonia	350.3			
K	200.7					
Ca	200.7					

Figure 10. EPA method numbers for ABG ground water analysis

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
Dichlorodifluoromethane	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

(Sheet 2 of 5)

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
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
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
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
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 Ammunition Burning Ground

Well Number	Total Depth, ft	Ground Elevation ft NGVD	TOC Elevation ft NGVD	Screen Depth, ft	Geologic Formation	Date Screen Set
03C01	197.2	624.58	627.28	174.0-184.0	Beaver Bend	12/12/86
03C01P2	110.0	624.35	626.85	92.0-102.0	Beech Creek	09/22/86
03C01P3	25.6	624.00	626.50	19.6-24.6	Golconda	04/ /86
03C02	132.7	580.99	583.49	119.5-129.5	Beaver Bend	10/24/86
03C02P2	49.0	580.65	583.15	38.0-48.0	Beech Creek	10/29/86
03C03	150.7	597.58	600.08	139.0-149.0	Beaver Bend	09/13/86
03C03P2	67.0	597.70	600.20	55.8-65.8	Beech Creek	10/23/86
03C04	85.3	621.92	624.42	73.5-83.5	Beech Creek	11/25/86
03C05	44.0	578.86	581.36	32.0-42.0	Beech Creek	10/29/86
03C06	100.6	622.90	625.40	87.0-97.0	Beech Creek	10/16/86
03C07	101.6	633.97	636.47	88.7-98.7	Beech Creek	10/21/86
03C08	187.7	Well lost and replaced by 03C08A				
03C08AP2	101.6	626.84	629.34	90.0-100.0	Beech Creek	11/26/86
03C08A	186.0	628.00	630.50	171.0-181.0	Beaver Bend	04/03/87
03C08AP3	20.5	627.93	630.43	14.5-19.5	Golconda	04/05/87
03C09	162.8	600.89	603.39	145.0-155.0	Beaver Bend	12/05/86
03C09P2	73.0	601.06	603.56	62.0-72.0	Beech Creek	12/07/86
03C10	78.8	605.53	608.03	66.0-76.0	Beech Creek	01/22/87
03C11	59.5	589.86	592.36	47.5-57.5	Beech Creek	01/28/87
03C12	51.2	584.70	587.20	39.0-49.0	Beech Creek	02/03/87
03C13	83.2	615.25	617.75	70.2-80.2	Beech Creek	02/09/87
03C14	115.5	640.29	642.79	104.5-114.5	Beech Creek	02/20/87
03C15	101.1	618.51	621.34	88.5-98.5	Beech Creek	02/26/87
03C15P3	22.0	618.61	621.11	15.6-20.6	Golconda	04/ /87
03C16	157.0	680.75	683.25	146.0-156.0	Beech Creek	03/12/87
03C17	149.5	693.65	696.15	138.5-148.5	Beech Creek	03/19/87
03C18	22.5	622.59	625.09	15.5-20.5	Golconda	04/ /87
03C19	122.5	648.00	650.50	110.8-120.8	Beech Creek	05/08/87
03C19P3	44.0	647.20	649.70	37.0-42.0	Golconda	05/13/87
03C20	120.0	644.12	646.62	108.0-118.0	Beech Creek	05/24/87
03C21	123.0	639.72	642.22	108.4-118.4	Beech Creek	05/28/87
03C21P3	41.0	639.72	642.22	33.6-38.6	Golconda	05/29/87

(Sheet 1 of 3)

Table 3 (Continued)

Well Number	Total Depth, ft	Ground Elevation ft NGVD	TOC Elevation ft NGVD	Screen Depth, ft	Geologic Formation	Date Screen Set
03C22	16.5	615.08	617.58	10.0-15.0	Golconda	06/04/87
03C23	15.5	616.11	618.61	8.5-13.5	Golconda	06/09/87
03C24	28.2	550.64	553.24	22.0-27.0	Beech Creek	06/16/87
03C25	70.7	594.53	597.03	59.7-69.7	Beech Creek	06/18/87
03C26	105.7	638.07	640.57	94.0-104.0	Beech Creek	08/03/87
03C27	73.3	601.34	603.84	60.5-70.5	Beech Creek	08/14/87
03C28	77.1	610.76	612.96	65.0-75.0	Beech Creek	08/22/87
03C29	278.8	794.67	797.37	267.5-277.5	Beech Creek	09/01/87
03C30	263.6	776.41	778.91	250.5-260.5	Beech Creek	09/17/87
03C31	267.2	789.70	792.10	255.0-265.0	Beech Creek	11/01/87
03C32	176.9	709.06	711.56	164.0-174.0	Beech Creek	11/14/87
03C33	249.8	782.53	785.03	238.5-248.5	Beech Creek	11/31/87
03C34	193.9	724.57	727.07	177.4-187.4	Beech Creek	08/11/89
03C35	177.7	695.50	697.00	164.4-174.4	Beech Creek	08/19/89
03C36	183.1	715.74	718.24	169.0-179.0	Beech Creek	09/06/89
03C37	116.7	617.78	620.28	105.5-115.5	Beech Creek	09/21/89
03C38	55.5	570.47	572.97	42.7-52.7	Beech Creek	09/29/89
03B01	23.3	501.97	504.47	7.5-12.5	Alluvium	06/19/87
03B02	15.8	501.46	503.96	9.6-14.6	Alluvium	06/27/87
03B03	14.5	502.46	504.96	8.5-13.5	Alluvium	06/29/87
03B04	16.5	503.97	506.47	9.5-14.5	Alluvium	06/30/87
03B05	15.0	504.55	507.05	9.0-14.0	Alluvium	07/01/87
03B06	13.5	506.76	509.26	8.0-13.0	Alluvium	07/02/87
03B07	10.5	508.22	510.72	4.0-9.0	Alluvium	08/04/87
03B08	12.5	510.90	513.40	6.0-11.0	Alluvium	08/05/87
03B09	12.0	513.54	516.04	5.5-10.5	Alluvium	08/07/87
03B10	58.7	559.46	561.96	48.5-58.5	Beech Creek	10/22/87
03-01	56.2	601.67	604.67	41.6-50.8	Big C/BC	09/04/81
03-02	12.9	619.67	622.67	3.5-10.0	Mansfield	09/07/81
03-03	100.4	581.29	584.29	85.9-95.0	Sample sh	09/08/81
03-04	70.0	591.17	594.17	55.1-64.5	Beech Creek	09/24/81
03-05	60.0	592.75	595.75	45.4-54.7	?	09/29/81
03-06	52.0	586.71	589.71	37.3-46.6	Beech Creek	10/06/81

(Sheet 2 of 3)

Table 3 (Concluded)

Well Number	Total Depth, ft	Ground Elevation ft NGVD	TOC Elevation ft NGVD	Screen Depth, ft	Geologic Formation	Date Screen Set
03-07	27.0	553.46	556.46	12.4-21.7	Beech Creek	10/08/81
03-08	47.0	583.76	586.76	32.4-41.8	Beech Creek	10/09/81
03-09	80.5	621.72	624.72	65.9-75.1	Big Clifty	10/28/81
03-10	27.0	554.94	557.94	12.2-21.5	Beech Creek	11/03/82
03-11	20.5	550.05	553.05	5.7-15.1	Beech Creek	11/04/82
03-12	27.0	554.99	557.99	12.2-21.6	Beech Creek	11/04/82
03-13	27.0	549.24	552.24	12.0-21.4	Beech Creek	11/05/82
03-14	20.0	549.37	552.37	5.2-14.7	Beech Creek	11/06/82
03-15	30.5	556.09	559.09	15.7-25.1	?	11/22/82
03-16	38.0	568.61	571.61	23.2-32.6	Beech Creek	11/23/82
03-17	27.0	550.44	553.44	12.3-21.7	Beech Creek	11/24/82
03-18	29.5	549.80	552.80	14.6-23.9	Beech Creek	01/14/83
03-19	35.0	556.37	559.37	20.1-29.5	?	01/15/83
03-20	29.3	551.83	554.83	14.4-23.7	Beech Creek	01/17/83
03-21	27.5	557.12	560.12	12.8-22.1	Beech Creek	01/27/83
03-22	29.3	555.72	558.72	14.5-23.9	Beech Creek	01/27/83
03-23	29.7	559.34	562.34	14.9-23.3	Beech Creek	01/28/83
03-24	56.8	586.04	589.04	42.0-51.4	Beech Creek	02/06/83
03-25	39.0	570.64	573.64	24.2-33.5	Beech Creek	02/07/83
03-26	50.4	592.89	595.89	35.9-45.0	Big Clifty	10/01/83
03-27	33.0	596.08	599.08	18.5-27.6	Big Clifty	10/03/83
03-28	27.0	624.49	627.49	12.5-21.6	Mans, Gol	10/06/83
03-29	51.0	595.61	598.61	36.6-45.6	Big Clifty	10/08/83
03-30	53.5	na[1]	608.60	na	Big Clifty	10/04/85
03-31	46.0	na	582.84	na	Big Clifty	10/10/85
03-32	45.0	na	583.54	na	Big Clifty	10/11/85
03-33	41.0	na	583.39	na	Big Clifty	10/13/85
03-34	50.0	na	585.06	na	Big Clifty	10/21/85
03-35	51.0	na	586.60	na	Beech Creek	10/23/85
03-36	70.0	na	617.54	na	Beech Creek	10/25/85
03-37	48.9	na	586.52	33.9-43.9	Beech Creek	10/27/85
03-38	57.0	na	604.79	na	Big Clifty	11/02/85
03-39	55.0	na	603.25	na	Big Clifty	11/02/85

(Sheet 3 of 3)

[1] Data not available.

Table 4
Wells Sampled at ABG

Well Number	Well Number	Well Number
03-01	03B08	03C15
03-03	03B09	03C15P3
03-04	03B10	03C16
03-06	03C01	03C17
03-07	03C01P2	03C18
03-09	03C01P3	03C19
03-28	03C02	03C19P3
03-29	03C02P2	03C20
03-30	03C03	03C21
03-31	03C03P2	03C21P2
03-32	03C04	03C21P3
03-33	03C05	03C22
03-34	03C06	03C23
03-35	03C07	03C24
03-37	03C08A	03C25
03-38	03C08AP2	03C26
03-39	03C08AP3	03C27
03B01	03C09	03C28
03B02	03C09P2	03C29
03B03	03C10	03C30
03B04	03C11	03C31
03B05	03C12	03C32
03B06	03C13	03C34
03B07	03C14	03C37

Table 5
Survey Data for Ammunition Burning Ground Wells

Well Number	North Coord, ft	East Coord, ft	TOC Elevation ft NGVD
03-01	490,748	593,688	604.67
03-02	489,940	593,060	622.67
03-03	489,838	594,843	584.29
03-04	498,791	594,610	594.17
03-05	N/A	N/A	595.75
03-06	489,796	594,636	589.71
03-07	487,838	596,316	556.46
03-08	N/A	N/A	586.76
03-09	489,909	593,047	624.72
03-10	487,821	596,515	557.94
03-11	487,709	596,435	553.05
03-12	487,765	596,232	557.99
03-13	487,634	596,377	552.24
03-14	487,673	596,420	552.37
03-15	487,899	596,369	559.09
03-16	488,568	595,788	571.61
03-17	487,650	596,265	553.44
03-18	487,508	596,208	552.80
03-19	N/A	N/A	559.37
03-20	487,674	596,120	554.83
03-21	488,044	596,243	560.12
03-22	487,820	596,405	558.72
03-23	487,933	596,069	562.34
03-24	488,012	596,462	589.04
03-25	487,902	596,498	573.64
03-26	N/A	N/A	595.89
03-27	489,964	593,967	599.08
03-28	489,705	594,006	627.49
03-29	489,992	593,981	598.61
03-30	490,818	593,630	608.60
03-31	498,788	594,804	582.84
03-32	489,857	594,822	583.54
03-33	498,923	594,836	583.39
03-34	489,844	594,662	585.06
03-35	489,830	594,561	586.60

(Sheet 1 of 3)

Table 5 (Continued)

Well Number	North Coord, ft	East Coord, ft	TOC Elevation ft NGVD
03-36	489,691	594,603	617.54
03-37	489,890	594,618	586.52
03-38	490,676	593,744	604.74
03-39	490,700	593,792	603.25
03B01	482,590	595,584	504.47
03B02	482,573	595,506	503.96
03B03	482,578	595,406	504.96
03B04	482,631	595,293	506.47
03B05	482,623	595,192	507.05
03B06	482,666	594,960	509.26
03B07	482,672	594,768	510.72
03B08	482,667	594,594	513.40
03B09	482,657	594,417	516.04
03B10	482,607	594,209	561.96
03C01	490,064	593,140	627.28
03C01P2	490,068	593,146	626.85
03C01P3	490,061	593,147	626.50
03C02	489,931	594,793	583.47
03C02P2	489,932	594,798	583.15
03C03	490,203	594,055	600.08
03C03P2	490,208	594,056	599.72
03C04	490,620	594,783	624.42
03C05	489,782	595,114	581.36
03C06	489,581	594,596	625.40
03C07	490,423	594,371	636.47
03C08A	489,680	594,051	630.50
03C08AP2	489,701	594,014	629.34
03C08AP3	489,685	594,047	630.43
03C09	490,615	593,777	603.39
03C09P2	490,619	593,776	603.56
03C10	490,243	593,657	608.03
03C11	490,025	594,441	592.36
03C12	489,957	594,574	587.20
03C13	490,901	593,860	617.75
03C14	489,932	593,575	642.79

(Sheet 2 of 3)

Table 5 (Concluded)

Well Number	North Coord, ft	East Coord, ft	TOC Elevation ft NGVD
03C15	489,849	593,146	621.34
03C15P3	489,855	593,143	621.11
03C16	490,478	593,362	683.25
03C17	492,764	594,371	696.15
03C18	489,992	592,967	625.09
03C19	491,442	593,351	650.50
03C19P3	491,431	593,354	649.70
03C20	489,880	593,773	646.62
03C21	489,925	593,356	642.22
03C21P2	489,925	593,361	642.22
03C22	490,090	593,319	617.58
03C23	490,259	593,462	618.61
03C24	485,159	592,615	553.24
03C25	487,148	592,606	597.03
03C26	490,695	594,134	640.57
03C27	489,658	594,767	603.84
03C28	489,884	595,269	612.96
03C29	488,529	591,095	797.37
03C30	488,967	592,403	778.91
03C31	488,492	593,743	792.10
03C32	491,056	594,471	711.56
03C33	486,651	594,224	785.03
03C34	487,870	599,301	727.07
03C35	485,347	598,082	697.00
03C36	485,203	599,202	718.74
03C37	483,933	596,471	620.28
03C38	485,309	595,951	572.97

(Sheet 3 of 3)

Table 6
Water Level Measurements in ABG Study for Three Sampling Dates

Well Number	Geologic Formation	TOC Elevation ft NGVD	Groundwater Elevation ft 12-14-87	Groundwater Elevation ft 12-28-89	Groundwater Elevation ft 3-29-91
03-01	Big Clifty	604.67	na	557.70	557.68
03-02	Mansfield	622.67	na	613.26	na
03-03	Sample Shale	584.29	na	482.92	na
03-04	Beech Creek	594.17	na	543.37	543.26
03-05	na	595.75	na	na	na
03-06	Beech Creek	589.71	na	543.69	543.91
03-07	Beech Creek	556.46	na	544.34	546.55
03-08	Beech Creek	586.76	na	na	na
03-09	Big Clifty	624.72	na	559.81	na
03-10	Beech Creek	557.94	na	541.34	na
03-11	Beech Creek	553.05	na	542.53	543.94
03-12	Beech Creek	557.99	na	540.56	543.84
03-13	Beech Creek	552.24	na	539.24	542.24
03-14	Beech Creek	552.37	na	540.43	na
03-15	na	560.05	na	541.84	na
03-16	Beech Creek	559.09	na	529.08	na
03-17	Beech Creek	553.44	na	537.44	540.18
03-18	Beech Creek	552.80	na	534.21	na
03-19	na	650.50	na	na	na
03-20	Beech Creek	554.83	na	536.83	na
03-21	Beech Creek	560.12	na	541.12	na
03-22	Beech Creek	558.72	na	541.81	na
03-23	Beech Creek	562.34	na	544.14	na
03-24	Beech Creek	589.04	na	540.16	539.75
03-25	Beech Creek	573.64	na	541.19	541.01
03-26	Big Clifty	595.89	na	na	na
03-27	Big Clifty	599.08	na	na	na
03-28	Mansfield & Golconda	627.49	na	609.69	na
03-29	Big Clifty	598.61	na	557.94	557.81
03-30	Big Clifty	608.60	na	554.45	554.65
03-31	Big Clifty	582.44	na	544.74	544.76

(Sheet 1 of 3)

Table 6 (Continued)

Well Number	Geologic Formation	TOC Elevation ft NGVD	Groundwater Elevation ft 12-14-87	Groundwater Elevation ft 12-28-89	Groundwater Elevation ft 3-29-91
03-32	Big Clifty	583.54	na	545.39	545.46
03-33	Big Clifty	583.39	na	546.39	546.30
03-34	Big Clifty	586.06	na	543.51	543.78
03-35	Beech Creek	586.60	na	543.50	543.43
03-36	Beech Creek	617.54	na	na	549.10
03-37	Beech Creek	586.52	na	544.12	544.2
03-38	Big Clifty	604.79	na	558.18	558.32
03-39	Big Clifty	603.25	na	558.14	na
03B01	Alluvium	504.47	na	497.53	498.09
03B02	Alluvium	503.96	na	495.59	497.86
03B03	Alluvium	504.96	na	498.45	499.11
03B04	Alluvium	506.47	na	498.84	499.81
03B05	Alluvium	507.05	na	499.57	500.63
03B06	Alluvium	509.26	na	501.43	502.41
03B07	Alluvium	510.72	na	503.98	na
03B08	Alluvium	513.40	na	504.77	505.78
03B09	Alluvium	516.04	na	505.95	na
03B10	Alluvium	561.96	na	511.52	511.61
03C01	Beaver Bend	627.28	512.21	511.51	na
03C01P2	Beech Creek	626.85	557.23	556.76	556.99
03C01P3	Golconda	626.50	612.49	610.70	na
03C02	Beaver Bend	583.49	512.00	511.60	na
03C02P2	Beech Creek	583.15	546.33	545.67	545.65
03C03	Beaver Bend	600.08	511.76	511.43	na
03C03P2	Beech Creek	599.72	558.59	558.45	558.20
03C04	Beech Creek	624.42	548.60	548.27	548.21
03C05	Beech Creek	581.36	547.26	na	546.64
03C06	Beech Creek	625.40	546.92	548.45	547.97
03C07	Beech Creek	636.47	557.92	557.59	557.02
03C08A	Beaver Bend	630.50	511.68	510.89	na
03C08AP2	Beech Creek	629.34	555.62	554.96	554.76
03C08AP3	Golconda	630.43	na	612.68	na
03C09	Beaver Bend	603.39	512.10	511.39	na

(Sheet 2 of 3)

Table 6 (Continued)

Well Number	Geologic Formation	TOC Elevation ft NGVD	Groundwater Elevation ft 12-14-87	Groundwater Elevation ft 12-28-89	Groundwater Elevation ft 3-29-91
03C09P2	Beech Creek	603.56	558.84	557.94	588.19
03C10	Beech Creek	608.03	558.33	557.77	557.89
03C11	Beech Creek	592.36	548.58	548.01	547.59
03C12	Beech Creek	587.20	546.04	545.20	545.32
03C13	Beech Creek	617.75	558.65	557.95	557.56
03C14	Beech Creek	642.79	558.13	557.69	557.65
03C15	Beech Creek	621.34	556.81	556.85	556.95
03C15P3	Golconda	621.00	na	613.08	na
03C16	Beech Creek	683.25	558.50	557.97	557.79
03C17	Beech Creek	696.15	558.57	557.15	558.15
03C18	Golconda	625.09	622.71	619.58	na
03C19	Beech Creek	650.50	558.57	557.80	557.49
03C19P3	Golconda	649.70	na	611.93	na
03C20	Beech Creek	646.62	557.92	556.92	556.91
03C21	Beech Creek	642.22	557.74	557.65	556.42
03C21P2	Golconda	642.22	608.28	607.49	na
03C22	Golconda	617.58	609.19	607.03	na
03C23	Golconda	618.61	611.44	607.03	na
03C24	Beech Creek	553.24	532.15	531.14	531.94
03C25	Beech Creek	597.03	551.17	550.24	550.36
03C26	Beech Creek	640.57	558.56	na	557.27
03C27	Beech Creek	603.84	543.53	542.43	542.84
03C28	Beech Creek	612.96	546.01	545.68	545.64
03C29	Beech Creek	797.37	564.70	554.54	554.97
03C30	Beech Creek	778.91	556.93	555.64	555.61
03C31	Beech Creek	792.10	555.89	554.17	554.16
03C32	Beech Creek	711.56	558.19	557.61	557.12
03C33	Beech Creek	785.03	551.71	na	551.72
03C34	Beech Creek	727.07	na	550.79	548.65
03C35	Beech Creek	697.00	na	DRY	DRY
03C36	Beech Creek	718.24	na	DRY	DRY
03C37	Beech Creek	620.28	na	511.88	511.76
03C38	Beech Creek	572.97	na	DRY	DRY

(Sheet 3 of 3)

Table 7
Group 1: Drinking Water Standards, Number of Times Detected[1]

Well Number	Parameter	As	Ba	Cd	Cr	Pb	Hg	Nitrate-N	Se	Ag	Endrin	Lindane	Methoxychlor	Toxaphene	2,4-D	2,4,5-TP
	DET LIM	0.05	0.05	0.01	0.01	0.05	0.002	0.1	0.01	0.05	0.0002	0.004	0.1	0.005	0.1	0.01
03B01		ND	4	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
03B02		ND	5	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
03B03		ND	6	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03B05		ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03B06		ND	3	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03B07		ND	1	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
03B08		ND	1	ND	1	ND	1	ND	1	ND	ND	ND	ND	1	ND	ND
03B09		ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
03B10		ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C01P2		ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
03C02P2		ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C04		ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C07		ND	2	1	ND	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C08P2		ND	6	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND
03C09P2		ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
03C10		ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

(Continued)

[1] ND: parameter was not detected for any period. Numbers represent the number of periods a parameter was detected.

Table 7 (Concluded)

Well Number	Parameter	As	Ba	Cd	Cr	Pb	Hg	Nitrate-N	Se	Ag	Endrin	Lindane	Methoxychlor	Toxaphene	2,4-D	2,4,5-TP
	DET LIM	0.05	0.05	0.01	0.01	0.05	0.002	0.1	0.01	0.05	0.0002	0.004	0.1	0.005	0.1	0.01
03C11		ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C12		ND	4	1	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C13		ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C14		ND	ND	1	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C15		ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C17		ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C19		ND	ND	1	ND	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C22		ND	2	ND	ND	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C25		ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C27		ND	1	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND
03C28		ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C29		ND	1	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C30		ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03C31		ND	7	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 8
Group 2: Groundwater Quality Standards, Number of Times Detected[1]

Well Number	Parameter	Chloride	Iron	Manganese	Phenols	Sodium	Sulfate
	DET LIM	1.0000	0.0500	0.0050	0.0500	0.0050	0.0500
03B02		1	ND	2	ND	2	2
03B03		ND	ND	10	ND	1	1
03B04		ND	ND	7	ND	1	1
03B09		2	ND	ND	ND	1	1
03C01P2		ND	3	ND	ND	1	1
03C02P2		ND	1	ND	ND	1	1
03C04		ND	ND	1	ND	3	3
03C11		ND	ND	ND	ND	2	2
03C19		ND	ND	ND	ND	1	1
03C20		ND	ND	ND	ND	ND	ND
03C30		2	ND	ND	ND	2	2
03C31		1	ND	ND	ND	1	1

[1] ND: parameter was not detected in any period. Number represent the number of times a parameter was detected.

Table 9
Organic Compounds Detected in Beaver Bend Wells, Ammunition Burning Ground

Well Number	Date Sampled	Parameter	Amount Detected	Unit
03C01	04-Nov-87	1,1-Dichloroethene	0.00300	mg/l
	04-Nov-87	Benzene	0.00500	mg/l
	13-Apr-89	Trichloroethylene	0.00200	mg/l
	13-Jul-89	Trichloroethylene	0.00200	mg/l
	17-Oct-90	Trichloroethylene	0.00150	mg/l
03C02	22-Oct-89	Trichloroethylene	0.00200	mg/l
03C03	27-Oct-87	Chloroform	0.00200	mg/l
	27-Oct-87	1,1,1-Trichloroethane	0.00600	mg/l
	27-Oct-87	Benzene	0.00500	mg/l
	24-Oct-88	BIS(2 Ethylhexyl)Phthalate	0.08000	mg/l
	09-Jan-92	Trichloroethylene	0.00400	mg/l
03C08A	10-Nov-87	Benzene	0.02500	mg/l
	26-Jul-88	BIS(2-Ethylhexyl)Phthalate	0.05000	mg/l
	16-Apr-89	Trichloroethylene	0.00300	mg/l
	21-Oct-89	Trichloroethylene	0.00300	mg/l
03C09	26-Oct-88	BIS(2-Ethylhexyl)Phthalate	0.02000	mg/l
	16-Apr-89	Trichloroethylene	0.00200	mg/l
	16-Apr-89	BIS(2-Ethylhexyl)Phthalate	0.01100	mg/l
	12-Jul-89	DI-N-Butyl Phthalate	0.02000	mg/l
	21-Oct-89	Trichloroethylene	0.00100	mg/l
	06-Apr-91	Trichloroethylene	0.00700	mg/l
	12-Jul-91	Trichloroethene	0.00300	mg/l

Appendix A
Acronyms and Abbreviations Used in This Report

ACRONYMS AND ABBREVIATIONS

ABG	Ammunition Burning Ground
CAP	Corrective Actions Program
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CL	Clay
CMS	Corrective Measures Study
DOD	Department of Defense
EL	Environmental Laboratory
EPA	Environmental Protection Agency
EPIC	Environmental Photographic Interpretation Center
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 Assesment Study
IRP	Installation Restoration Program
MCL	Maximum Contamination Limit
NACIP	Navy Assessment and Control of Installation Pollutants
NAD	North American Datum
NAVCOMPT	Navy Comptroller
NCP	National Oil and Hazardous Substances Contingency Plan
NEESA	Naval Energy and Environmental Support Activity
NGVD	National Geodetic Vertical Datum
NWSC	Naval Weapons Support Center
NSWC	Naval Surface Warfare Center
PEP	Propellants
RCRA	Resource Conservation and Recovery Act
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI/FS	Remedial Investigation/Feasibility Study
SARA	Superfund Amendments and Reauthorization Act
SM	Silt
TOC	Top of Casing
TNT	2,4,6-trinitrotoluene
TSD	Treatment, Storage, or Disposal

ACRONYMS AND ABBREVIATIONS

USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
UXO	Unexploded Ordnance
WES	Waterways Experiment Station

Appendix B
EPA Technical Review Comments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

22 JUN 1989

5HR-JCK-13

Captain C.E. Johnson
Commanding Officer
Department of the Navy
Naval Weapons Support Center
Crane, Indiana 47522-5000

RE: Technical Review
Geologic Reports and Activities
Naval Weapons Support Center
Crane, Indiana
IN5 170 023 498

Dear Captain Johnson:

The United States Environmental Protection Agency (U.S. EPA) has completed a technical review of the following documents submitted by the above referenced facility:

1. Geology and Hydrogeology of the Ammunition Burning Grounds, Crane Naval Weapons Support Center, Final Technical Report (October 1988),

2. Ground Water Assessment Plan for the Ammunition Burning Grounds (January 24, 1989); and

3. Proposed Dye Tracer Tests in the Beech Creek Aquifer at the Ammunition Burning Grounds (April 3, 1989).

Enclosed is a copy of our review comments, requirements, and support information. The additional requirements or changes in workplans must be incorporated into the corrective action work being done at the Ammunition Burning Grounds (ABG). The monitoring program that will be developed shall incorporate the individual monitoring requirements of closure, permitting, and corrective action into one main program for the entire ABG area. We feel that the programs can not and should not be broken into repetitive requirements, but should be comprehensive for this area.

Please submit a revised tracer test proposal as soon as possible, so that the approved plan can be incorporated into the corrective action portion of the draft container storage permit for the facility. Soil characterization for the ABG will also be incorporated into the draft permit. The Navy may want to consider doing some public affairs activities, notifying the people living near the area of the ABG that the tracer test will be taking place, to assure no future problems with the testing activities on-site.

If you have any questions regarding this matter, please contact Carol Witt of my staff, at (312) 886-6146, for assistance.

Sincerely,

Karl E. Bremer

Karl E. Bremer, Chief
RCRA Permitting Branch

cc: J. Hunsicker, USNC
T. Linson, IDEM
T. Miller, IDEM
B. Muno, REB

ATTACHMENT I
Technical Review of NWSC-CAAA's Geologic Reports and Activities
Crane, Indiana
IN5 170 023 498

DOCUMENT: Geology and Hydrogeology of the Ammunition Burning Grounds, Crane Naval Weapons Support Center, Final Technical Report GL-88-27 (October 1988)

1. Regional Geology

In order to distinguish soil types that may be present at the Ammunition Burning Grounds (ABG) and their distribution throughout the facility, the following factors, not included in the general description of the geologic report, should be kept in consideration:

Although the Wisconsinan and Illinoian Glaciations of the Pleistocene Epoch never produced glaciers that reached or surpassed the area now occupied by NWSC; they did significantly influence the overall drainage and landscape form. The very weight of the ice mass depressed the earths crust and probably crushed many of the limestone caves in the area, or glacial drift may have filled some caves or sinkholes (north of the NWSC). As the glacial ice moved forward, it produced end moraines as well as transporting large amounts of till.

As the ice began to ablate, tremendous meltwater streams flowed out to cut deep valleys as the streams flowed towards the Ohio River. These meltwaters transported large quantities of sediment downstream, sorting and depositing the material along the way. Periglacial winds would have deposited loess over the area as well. During the Wisconsinan Glaciation, many preglacial and glacial stream segments became integrated along their lengths. Several of these streams in the Crawford Upland (where the NWSC is located) became entrenched. These entrenched streams are a definite controlling factor on the local ground water flow conditions.

2. Site Soils

The soils in the area of the ABG should be classified using the Unified Soil Classification System (USCS). Also, the constituents released must be identified in order to determine the leachability and pathways of constituents within the soil horizon.

3. Regional Ground Water Trends

Although the geologic report stresses on the ABG, the overall Corrective Action program for the facility should carefully look at regional trends throughout the facility. This is especially true when you have situations like the Dye Burial Grounds investigation going on next to the ABG. This is brought out a little in the report, but the "big picture" must be kept in mind.

a. Aquicludes

Although the shales at the site are effective barriers, especially with the artesian conditions evident at the site, the investigation should be cautious in the fact that some areas may be more highly fractured and constituents may not follow the ground water flow, therefore there is a potential of migration through the shales. The shales are aquicludes not aquitards.

b. Flow Patterns

The fact that regional ground water flows to the southwest is purely coincidental with the stratigraphic dip. The ground water is flowing from areas of high hydrostatic head to areas of low hydrostatic head. Stratigraphic dip probably locally controls various aspects of the ground water flow (as reported on page 15 of the report), but not regional flow trends. Contaminants that are dense will flow down the stratigraphic dip regardless of the hydraulic gradient. These comments must be kept in mind during the investigation.

4. Solution Cavern Passages

An understanding of the subsurface conduits is esstential if the extent to which the subsurface has been contaminated is to be established and a corrective measure formulated. Nearly all drainage, subsidence, and collapse are triggered by the development of underlying caves. Thus an understanding of caves is essential to the hydrologic and geomorphic interpretation of such a region, as well as assessing aquifer yield, constituent migration, and soil and bedrock conditions. The geologic report stresses on the karst conditions and identifies a major solution zone at the site, but more details must be developed. The following information researched by Malcolm Field, U.S. EPA Headquarters, should be used in developing the investigation of karst flow conditions.

Type of Cave Likely to Occur at the NWSC

Typical caves formed in this area may be classed as network caves which consist of angular grids on intersecting fissure-like passages formed by the solutional widening of nearly all major fractures within given areas of soluable rock. Closed loops are common, and the straight, relatively narrow passages for a pattern like that of city streets. This type of cave is restricted to rocks containing prominent, nearly vertical fractures. Some rudimentary network caves do not contain closed loops but consist of an angular array of dead-end fissures.

Several caves have been mapped at the NWSC. These include Granny's Cave, Aunt Liz Cave, Fisher's Folly, Pleasant Cave, Sargent's Cave, Blume Cave, and Goldsberry Pit Cave. Others likely exist at the facility. A copy of the map of Tow Cave (Figure 1) is enclosed. Although not within the NWSC property boundary, it is nearby. The good quality of this map and its relation to the regional jointing pattern (see rose diagram on the map) make it useful by depicting how jointing controls cave formation in the Crawford Upland.

General Aspects of Cave Development in the Area

Cave formation requires the flow of underground water that is of sufficiently aggressive nature to solutionally remove the bedrock and to keep the solutionally aggressive water in contact with the cave walls. This requires that the initial water movement follow a system of joints and/or bedding plane partings prior to cave development. Solutionally enlarged joints tend to produce fissure-like passages which can determine the pattern of nearly every passage in a cave. Intergranular pores are relatively unimportant in regard to cave development, but are significant in regard to permeability.

3

Tow Cave, Martin County, Indiana.

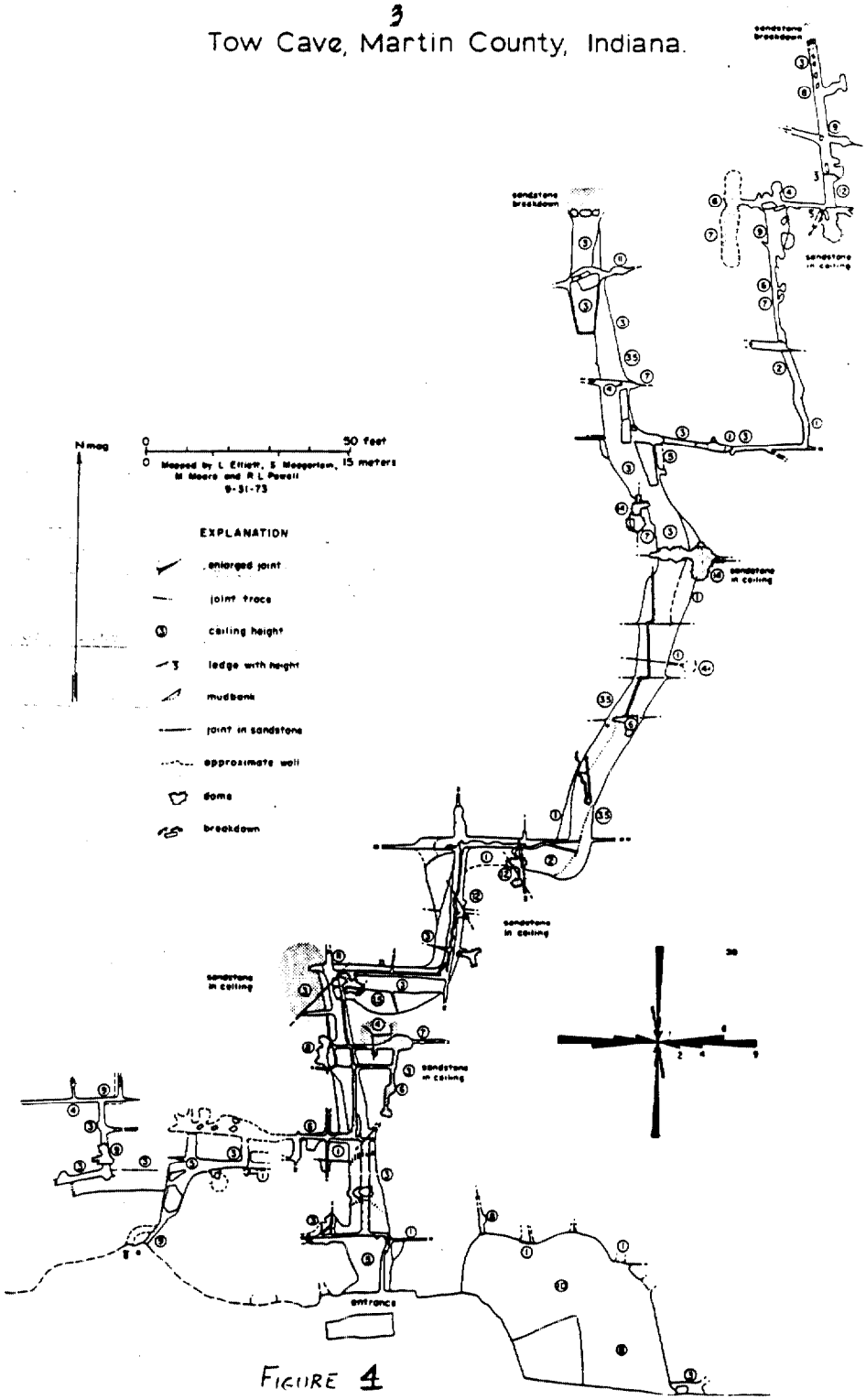


FIGURE 4

Caves are well adjusted to the present pattern of recharge from the land surface indicating that the upper part of the caves is formed in the vadose zone at the same time that the underlying parts are formed in the phreatic zone. The water table in a karst region is highly irregular and discontinuous because of the great variations in the size and distribution of subsurface openings and in the amount of water they transmit. It is crucial to note that water level records are only measures of the hydrostatic head in the diffuse-flow portion of the aquifer (see Attachment II), because it is highly unlikely that any wells actually intercept a cave. Infiltrating water concentrates along narrow paths within a given fracture, thus creating discrete conduits no more than a few feet or tens of feet in diameter rather than a myriad of amorphous interconnected openings. Flow through caves is therefore best described in terms of pipe hyraulics instead of by a continuous potential field.

Water movement in the vadose zone is governed mainly by gravity and capillarity with gravity being the most important in regard to those openings wide enough to enlarge caves. Therefore, vadose passages trend downward in the direction of flow, having been formed by water descending vertically along the steepest available openings. Vadose water descending vertically along a fracture or a cluster of intersecting fractures may eventually form a shaft which may range in size from a few inches in diameter and depth to tens of feet in diameter and hundreds of feet deep. Recharge occurs through surface pits, through an inclined vadose passage, or less commonly, through fractures in overlying insoluable rock. Passages at the bottom of a shaft (or shaft complex) drain the water.

Water in the phreatic zone forms a continuous medium, and its tendency to be drawn downward by gravity is offset to varying degrees by the downward increase in hydrostatic pressure. Phreatic water flow is greatest along the routes affording the greatest efficiency (least expenditure of hyraulic head per unit discharge). Caves form along these preferred routes, extending from where the incoming vadose water reaches the water table to where it emerges at a surface outlet at a lower elevation. A phreatic passage enlarges solutionally over its entire perimeter thus acquiring a smooth rounded cross section with an arched ceiling. Tubular passages and fissures with lenticular cross sections are most common. Only a small amount of solutional enlargement is needed for phreatic passages to become so efficient in transmitting water that the hydraulic gradients within them become very low (almost flat). Those that form entirely along the water table have barely measurable gradients.

Recharge Through Permeable Insoluable Rock

In upland areas where the limestone is capped by thin permeable sandstone, aggressive diffuse recharge is readily transmitted to the underlying limestone. Every major fracture in the limestone, regardless of width, receives comparable amounts of recharge of the same chemical character, allowing all fractures to grow at comparable rates in the initial stages. Fracture enlargement probably begins while the sandstone-limestone contact is still below the fluvial base level. At first, the sandstone has the higher permeability of the two rock types and most of the ground water flows through it. However, the small amount of water entering the limestone gradually widens the fractures until the limestone has the higher permeability. Much or most of the water then flows through the limestone, as the overall resistance to flow is less than through the sandstone alone. Uniform recharge continues to take place after the water table drops below the level of the cave.

A permeable caprock is not enough to ensure an equal distribution of recharge to all major fractures in the underlying limestone. Solutionally widened fractures must extend upward to the sandstone contact, and aggressive water must continue to enter through the caprock after the cave has become exposed above the water table.

In many sandstone-capped network caves, the water is channeled through joints in the caprock that are co-planar with those in the limestone. In this case the soil governs the flow to each joint. If diffuse flow encounters poorly jointed limestone, interstratal solution and complex systems of shafts and narrow canyons are formed. Small caves of this type typically occur in the predominantly bedded Girkin Formation (which contains the Beech Creek Limestone) where a sandstone cap of the Big Clifty Formation is particularly thin along plateau margins (such as the Crawford Upland).

Cave Formation in the Crawford Uplands

The Beech Creek Limestone being overlain by the jointed, permeable sandstone of the Big Clifty Formation and underlain by the relatively impermeable shale of the Elwren Formation has resulted in significant joint dissolution in the Beech Creek Limestone. Initially, ground water flow was induced by infiltration of surface water into the overlying sandstone. This infiltrating water was perched within the sandstone except where underlain by permeable joints in the underlying limestone unit, which accepts water from the sandstone. The release of ground water from the sandstone is regulated by transmissivity, amount of hydrostatic head within the sandstone, and the location and size of the open joints in the limestone.

Water infiltrating into the limestone through joints descends to unite with a perched ground water body within open joints in the limestone. This perched water body generally does not flow through the underlying shale; rather, the ground water will tend to flow on top of the shale layer. Discharge is via outcrop springs or seeps that are perched above the Elwren Formation which is dependent upon the amount of available ground water and joint solution development. It is important to note here that the United States is in the midst of a three (3) year drought, the worst of which occurred last year. Many of the springs and seeps identified at the ABG are probably flowing well below their potential or may not be flowing at all.

As ground water slowly seeps from the overlying sandstone into the limestone, a steeply sloping water table may develop in the limestone. Ground water flowing in open master joints tends to develop lower solution channels within the limestone more readily than do cross joints that do not extend through more than one bed without offsets from joints in lower beds. Although some solution channels will develop in the upper beds, ultimate control is by the position of the outlet.

Reports indicate that most cave streams in the Beech Creek Limestone have not dissolved or eroded through the lowermost beds of limestone which are commonly a very fine grained sparitic to micritic limestone, or rarely a calcareous sandstone. The stream progressively grades higher stratigraphically upstream from the spring outlet. It is also apparent that the caves developed in the Beech Creek Limestone appear to have initially developed a large solution conduit or cave passage above the basal unit.

Discharge of ground water from the sandstone is apparently most rapid and greatest into those joints in the limestone which are widest and provide the easiest release of water to the outlet. Most caves in the Beech Creek Limestone fed by ground water perched in the overlying Big Clifty Formation appear to closely parallel the outcrop of the limestone unit.

Cave entrances and solution-subsidence features in the area are associated with the top of the Beech Creek Limestone and the base of the overlying sandstone of the Big Clifty Formation, which illustrates the effectiveness of solution removal of the limestone where the water first contacts the carbonate rock. Several caves in the Beech Creek Limestone contain domes or shafts where continued seepage of water from the overlying sandstone has dissolved a vertical passage along a joint through the limestone. Collapse of the overlying sandstone into a pinnacled and channeled Beech Creek Limestone is thus a common occurrence (as indicated in the ABG geologic report).

Hydrogeology of the ABG Study Area

Overall, this section, especially the Middle Ground-Water Zone description, was exceptionally detailed and representative of actual site conditions at the ABG. Although the geologic report makes a strong case against possible interconnections in this section, the investigation should confirm the possiblity of, or lack of, interconnections.

The section on the Beech Creek Aquifer is consistent with literature on the aquifer and typical karst hydrological principles, but certain facts should be emphasized. All the available literature (published and unpublished), as well as the site geologic conditions would indicate that the Beech Creek Aquifer is in fact the one most likely to be transporting constituents away from the ABG site. The section on the local hydrological situation closely parallels the literature and includes a very good description regarding the recharge mechanisms operating at the site. In addition, several points are brought out. Page 38 of the geologic report explains that flow is primarily down the Little Sulfur Creek drainage way and secondarily down through the Johnson Hollow drainage way with a low ground-water divide separating the two discharge areas. This is probably accurate unless the three (3) year long drought has created an abnormal condition which is probably unlikely.

The next important fact is that surface water infiltrates the sandstone of the Big Clifty Formation which the geologic report claims is "...highly permeable and is capable of taking most of the water that comes in contact with its surface." Clayey alluvium in the area is said to retard the infiltrating water, but not too significantly. Therefore, rapid infiltration is to be expected.

A third important point is that surface runoff occurs from seepage out of the Gloconda/Haney Aquifer into the ABG valley and continues to flow over the Indian Springs Shale until reaching the sandstone of the Big Clifty Formation. This flow of water is to the east of the ground water divide and is therefore likely to flow towards Little Sulfur Creek.

The fourth and most important point is that surface runoff and two creek branches flow into the ABG site from the west and northwest to form the headwaters of Little Sulfur Creek. These branches join at the ABG, but sink into the ground a short distance from the ABG.

Fifth, Little Sulfur Creek remains dry (except under certain rainfall conditions) until Springs A, B, and C produce moderate amounts of water by discharge from the Beech Creek Limestone. The geologic report claims that these springs are outlets for solution conduits within the Beech Creek Limestone. Evidence for this statement occurs in paragraph 68 of the report, where observations of two of the springs after rainfall events showed greatly increased discharge and high turbidity. This is absolutely correct. The only thing this does not tell us is that no evidence yet proves that any connection exists between these springs and the ABG site. It is very possible that flow from the ABG discharges into Johnson Hollow although little evidence exists for this scenario (at least at present).

The final point made in the hydrogeology section of the report occurs in paragraph 66, which states that several springs "...issue from the Beech Creek along the Little Sulfur Creek Valley flanks south of the NWSC boundary." NWSC must identify potential outlets for contaminated ground water off-site, and assure appropriate corrective measures for any "plume" migrating off-site. This must be done through the tracer test proposed.

A generalized model for the area is shown in Figure 2. Condition A in the figure could be representative of the Golconda/Haney Limestone while B and C are indicative of probable conditions in the Beech Creek Limestone. Condition C is very common and is depicted on several of the cross sections contained in the ABG geologic report. Condition B, however has not been shown to exist in any of the cross sections. Although less common than condition C, condition B does occur with some frequency and should be assumed to exist beneath the ABG site. This would mean that it is quite possible that not all of the karst hydrological problems have been established yet.

5. Recommendations and Additional Work

Most of the work conducted to date was of a general geological and hydrological nature, but is still considered essential to the design of more focused studies. The exceptional quality of work conducted and the report describing such has provided the appropriate level of information necessary for designing studies leading to the definition of the true ground water flow paths underneath the ABG site. The following items of additional work must be incorporated into the overall corrective action program.

a. Additional Borings and Wells

Additional cored borings and wells should be installed, as described in Recommendation C of the ABG geologic report, for the same reasons described in the report. These wells will also provide additional water quality monitoring data prior to any ground water exiting the NWSC facility. The addition of three wells, as discussed in the meeting betweeen USNC and U.S. EPA in May 1989, will determine the potential for any off-site migration towards the eastern boundary.

b. Soil Characterization

Both surface and subsurface soil must be characterized using the USCS and evaluated for hazardous constituent content. The extent of soil contamination must be defined, and will be used to determine fate and transport of any surface water and ground water contamination. This investigation shall be incorporated into the Corrective Action Plan (CAP).

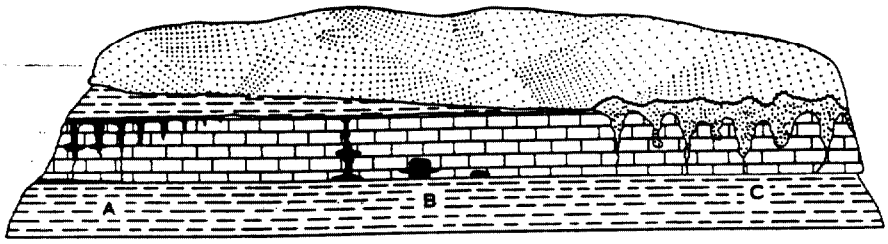


Figure --Three types of solution in limestone. A, limited solution near outcrop; B, deep-seated individual joint enlargement; C, general solution beneath sandstone collecting bed.

FIGURE 2

DOCUMENT: Ground Water Assessment Plan for the Ammunition Burning Grounds (January 24, 1989)

1. Overall Review

A typical assessment plan for the ABG virtually can not be completed. At this stage in the study, USNC began with a simple monitoring well system and has expanded the amount of wells to define the extent of contamination at the site. Due to the karst conditions in the downgradient directions, a tracer test to determine the flow paths was proposed (see review of the tracer test below). A staged approach of investigation is necessary, as discussed in the assessment plan. Once the flow is defined, wells may be selected for continued monitoring. After the plume is characterized, USNC will be required to do a Corrective Measures Study to determine what to do with the plume. Further studies at this point will be incorporated into the Corrective Action work being done under permitting.

DOCUMENT: Proposed Dye Tracer Tests in the Beech Creek Aquifer at the Ammunition Burning Grounds (April 3, 1989)

1. Other Permits Required

NWSC must submit a written request to the U.S. EPA Water Division to seek permission to conduct the dye tracer test, which involves injection of materials into the ground. The request must include the following:

a. The purpose of the survey;
b. A description of the type of facility, and ABG operations;
c. The general geology of the area; and
d. A detailed description of the procedures of the tracer test, including which wells will be used, construction oe the wells, springs monitored, emplacement areas identified, tracers to be used, and the schedule of the project.

As long as the dye tracer test is a short term event required by RCRA in order to define the ground water flow in the karst conditions at the site, and will not harm human health or the environment, the Water Division may be able to authorize the event under their injection rules for Class V wells. The request must be submitted to:

Mr. Edward P. Watters, Section Chief
UIC Section, Water Division
U.S. EPA Region V 5-WQS-TUB-8
111 West Jackson
Chicago, IL 60604

If you have any questions regarding the information to be submitted, contact essie Chiu, at (312) 886-1499, for assistance.

3. Method of Dye Injection

The proposed method of dye injection is satisfactory. USNC must make sure that sufficient quantities of water are used to flush the dye into the aquifer, and they must record the quality of water injected to assure that other hazardous constituents are not being added to the system.

4. Location of Dye Detectors

The proposed dye detector locations are adequate, but NWSC must place more detectors, if possible, in the Johnson Hollow well locations in order to assure that all possible discharge points are monitored.

5. Dye Detector Material

Dye detectors must consist of surgical cotton (tampons are a possible substitute) and activated charcoal. Most cotton is already treated with optical brighteners, but surgical cotton generally is not. All cotton detectors must be examined under a fluorescent light prior to use to ensure that treatment with optical brighteners has not occurred. Activated charcoal is necessary for the proper adsorption of fluorescent dyes. Any other charcoal will be incapable of adsorbing the dyes.

6. Detail of the Report

NWSC must expand on the details concerning the length of time necessary for a proper analysis of background fluorescence; and how the water withdrawn from downgradient wells for dye analysis will be managed and disposed of. Any water withdrawn from wells must be contained and disposed of properly if the ground water was previously found to contain hazardous constituents at that well.

Appendix C
Cover Letter, EPA Permit for NSWCC

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 _____,

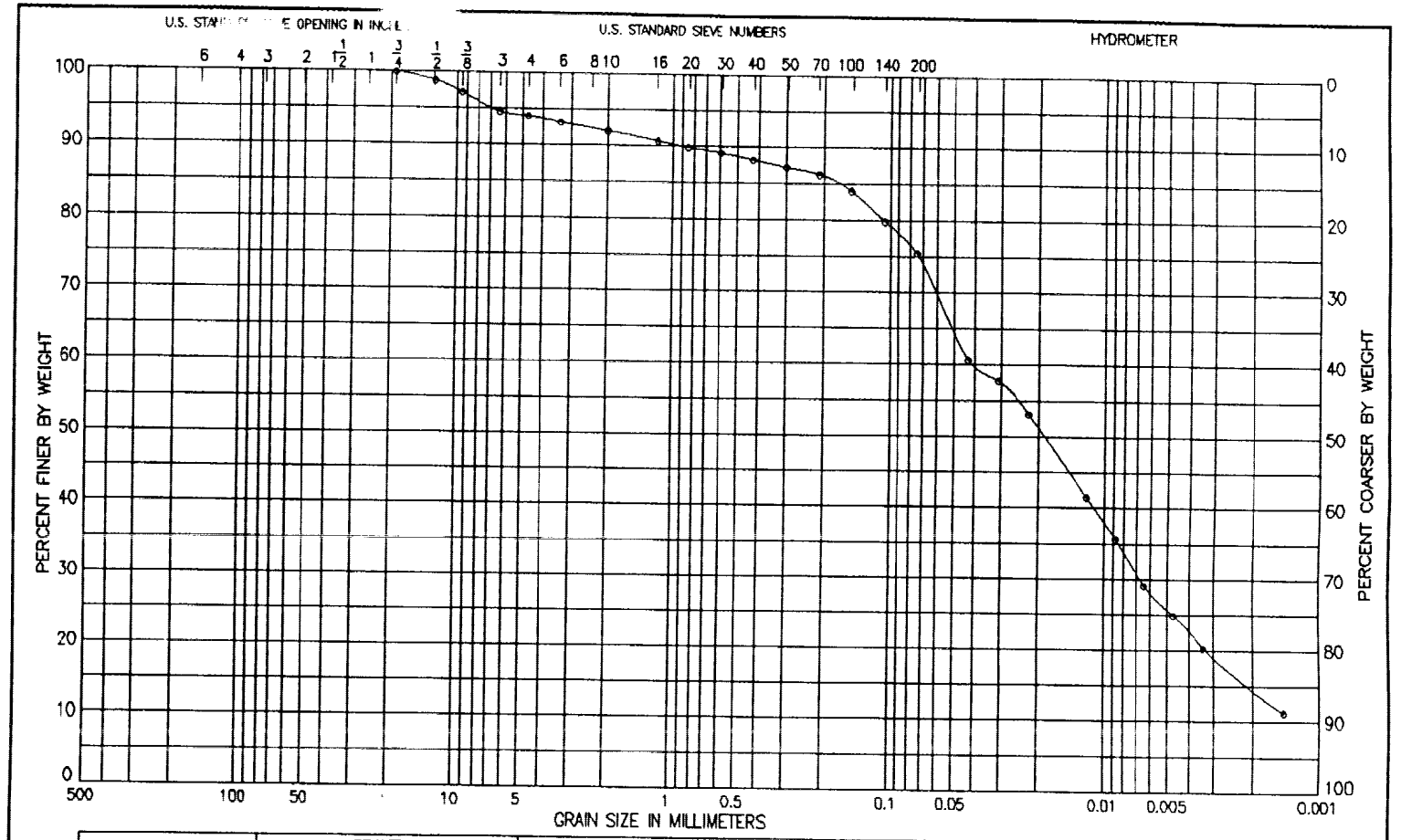
by _____.

Basil G. Constantelos, Director
Waste Management Division

Appendix D
Laboratory Analyses of Soil Samples

ABG Valley, Alluvial Boring Data

Boring Numbers	Depth (FT)	Elevation (FT)	Number of Jar Samples
WES-3-VF1-87	3.5	585	2
WES-3-VF2-87	7.5	582	5
WES-3-VF3-87	4.8	581	3
WES-3-VF4-87	5.2	582	4
WES-3-VF5-87	9.8	591	7
WES-3-VF6-87	7.8	596	5
WES-3-VF7-87	10.0	596	6
WES-3-VF8-87	11.7	600	8
WES-3-VF9-87	9.6	600	7
WES-3-VF10-87	8.3	604	6
WES-3-VF11-87	11.8	603	7
WES-3-VF12-87	7.5	603	5



LL	PL	PI	GS 2.70 EST	NAT W,% 23.4	ORG,% 3.6

CLASSIFICATION

SANDY CLAY (CL), GRAY; WITH GRAVEL

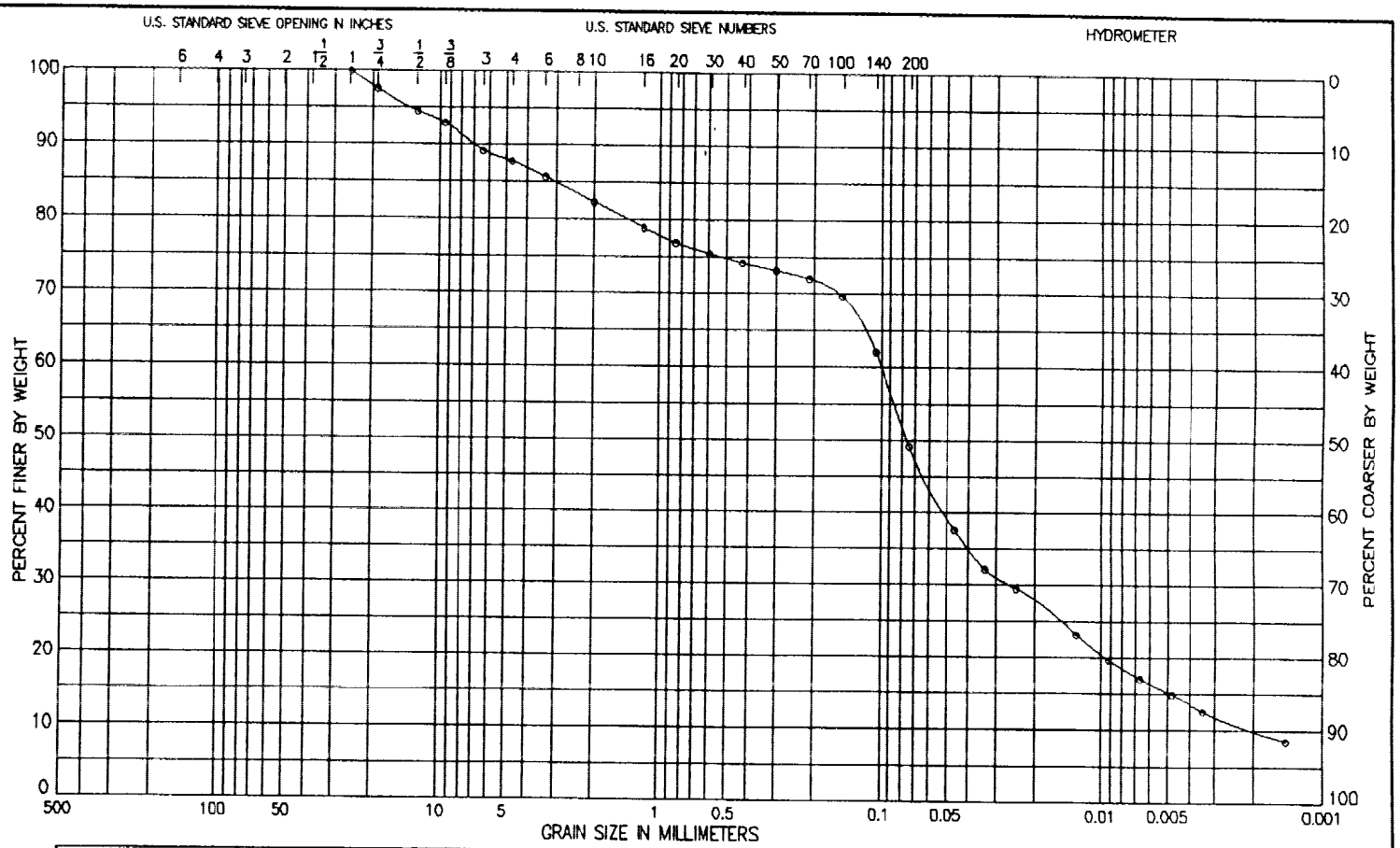
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF1-87 SAMPLE NO. 1

DEPTH/ELEV 1.0' – 1.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 14.1	ORG,% 1.3

CLASSIFICATION

GRAVELLY CLAYEY SAND (SC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

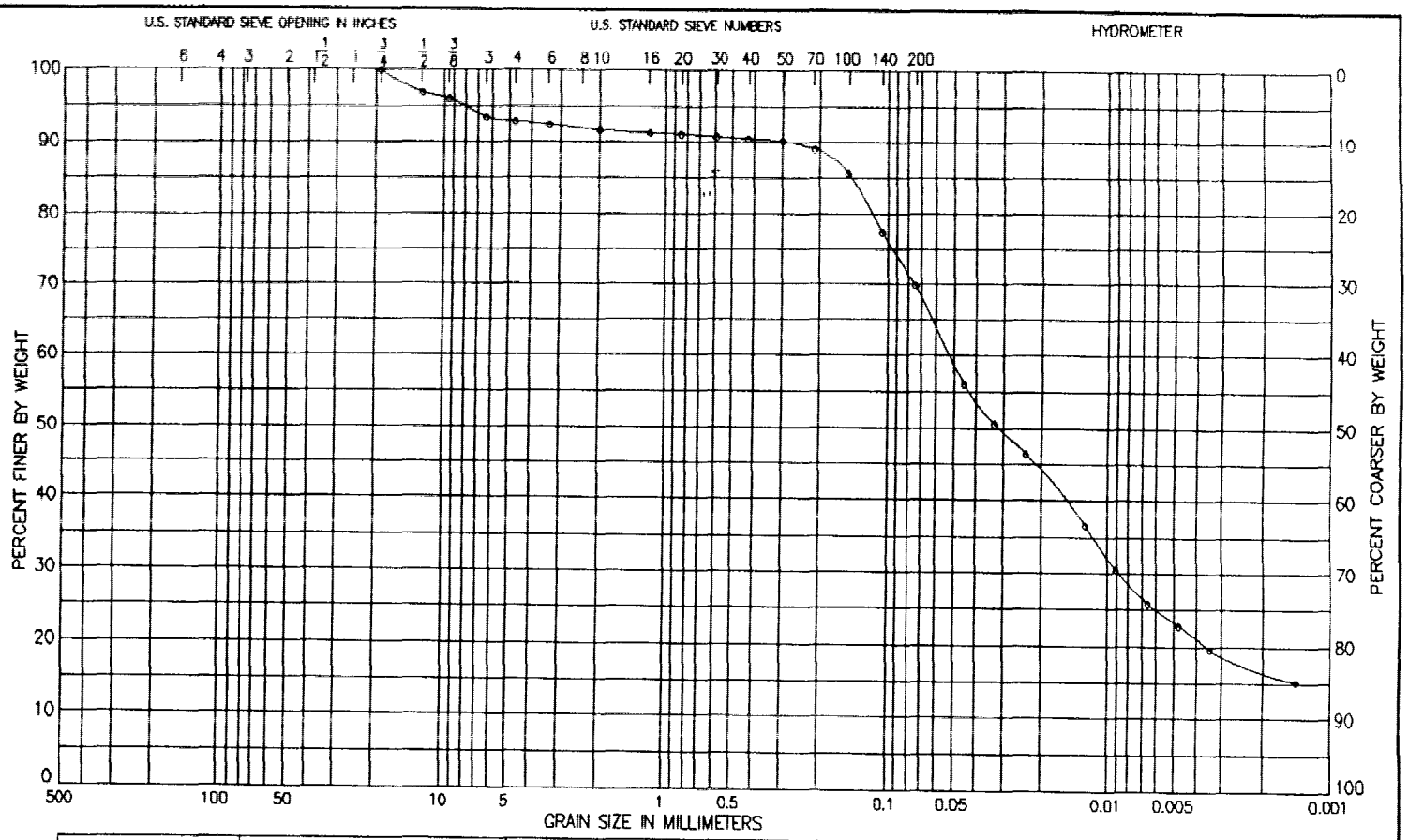
GRADATION CURVE	LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF1-87 SAMPLE NO. 2

DEPTH/ELEV 1.5' – 3.0' DATE 04 MAR 91

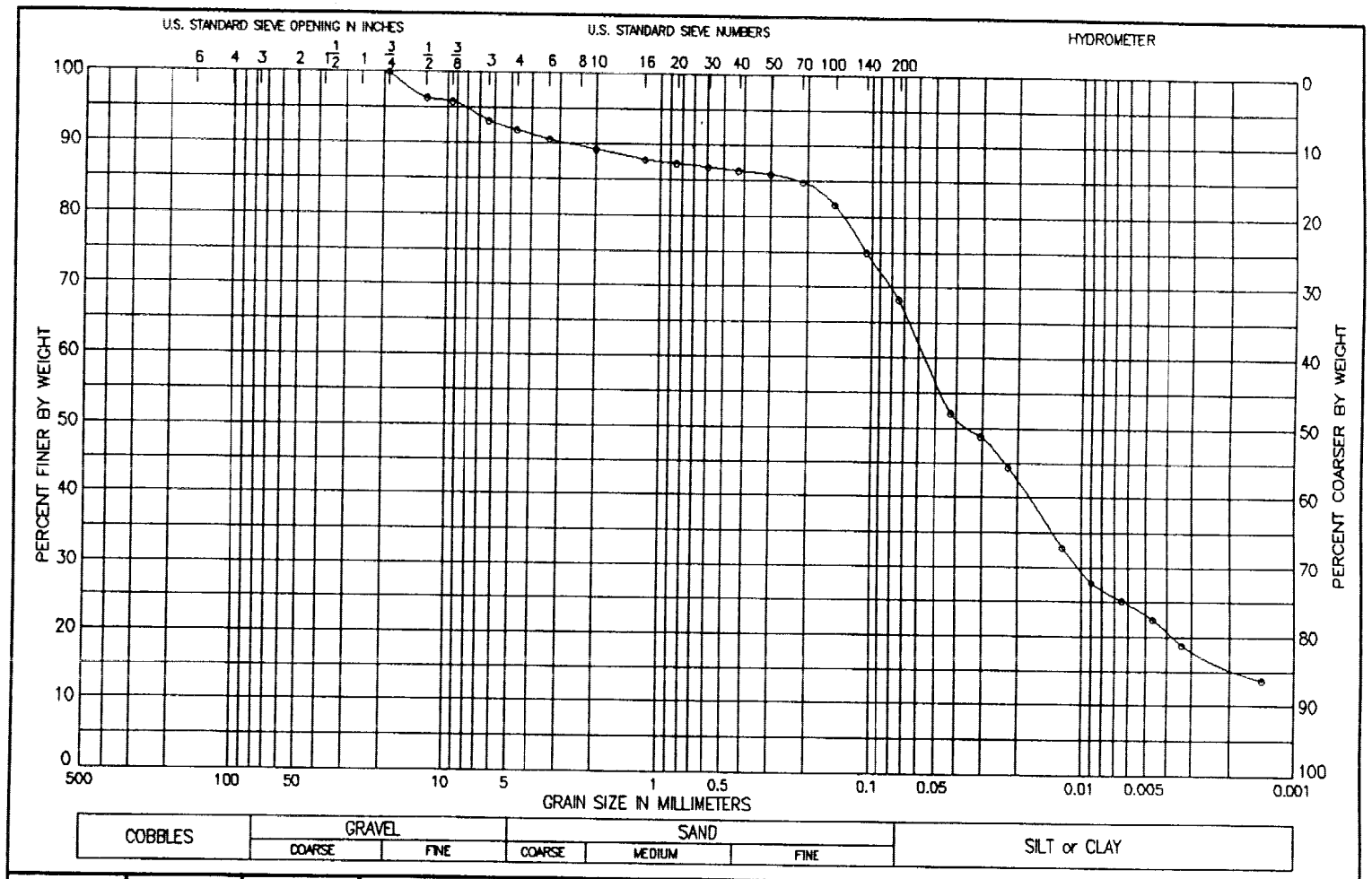


LL	PL	PI	GS 2.70 EST	NAT W,% 16.6	ORG,% 2.3

CLASSIFICATION
SANDY CLAY (CL), BROWN; WITH GRAVEL

GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG
CRANE, IN
BORING NO. WES-VF2-87 SAMPLE NO. 1
DEPTH/ELEV 0.5' – 1.0' DATE 04 MAR 91

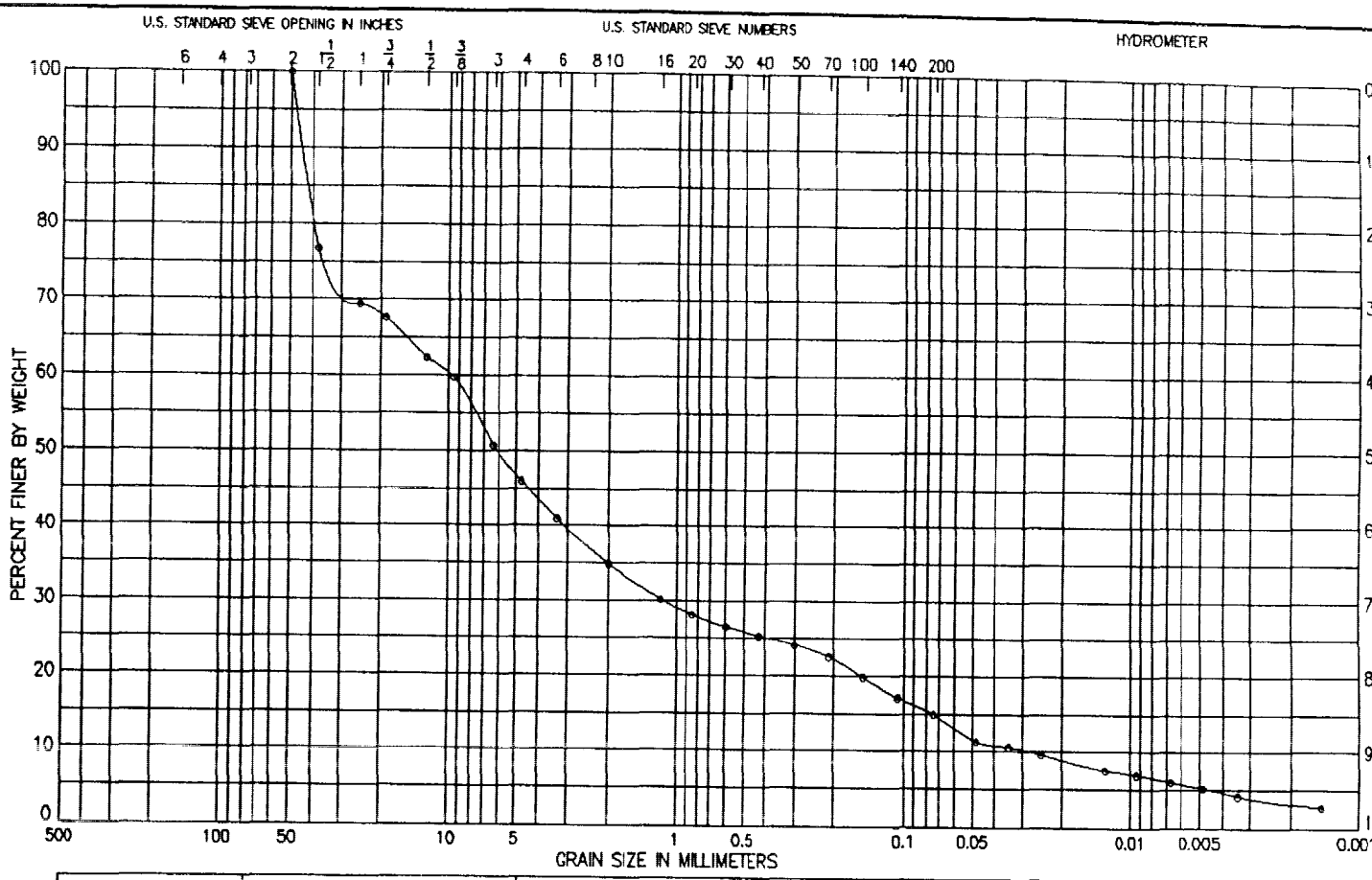


LL	PL	PI	GS 2.70 EST	NAT W,% 11.3	ORG,% 2.5

CLASSIFICATION
SANDY CLAY (CL), BROWN; WITH GRAVEL

GRADATION CURVE | LABORATORY USAE WES - STF/GL

PROJECT ABG
CRANE, IN
BORING NO. WES-VF2-87 SAMPLE NO. 2
DEPTH/ELEV 2.5' - 3.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 10.8	ORG,% 2.0

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

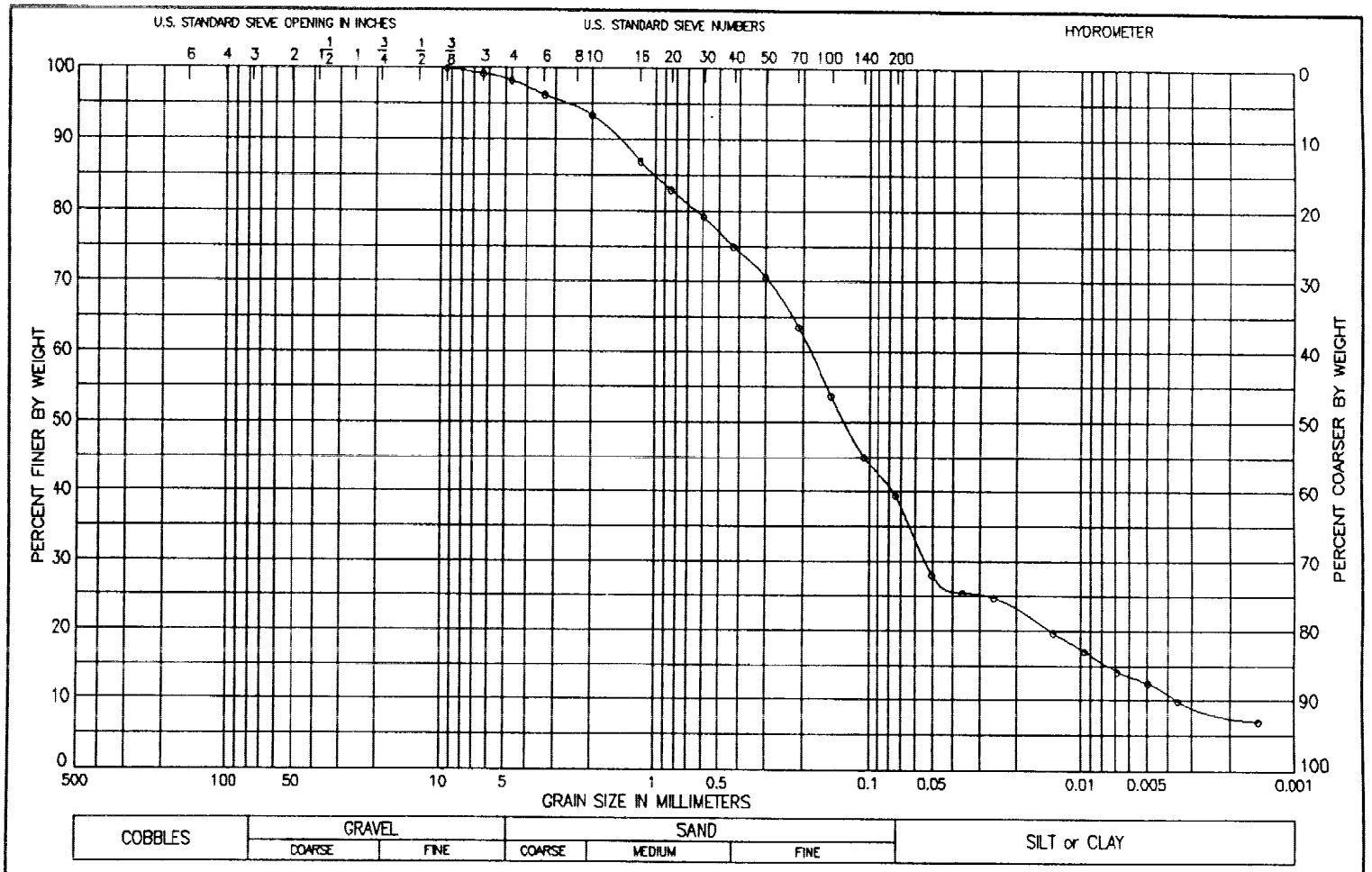
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF2-87 SAMPLE NO. 3

DEPTH/ELEV 3.8' – 4.3' DATE 04 MAR 91

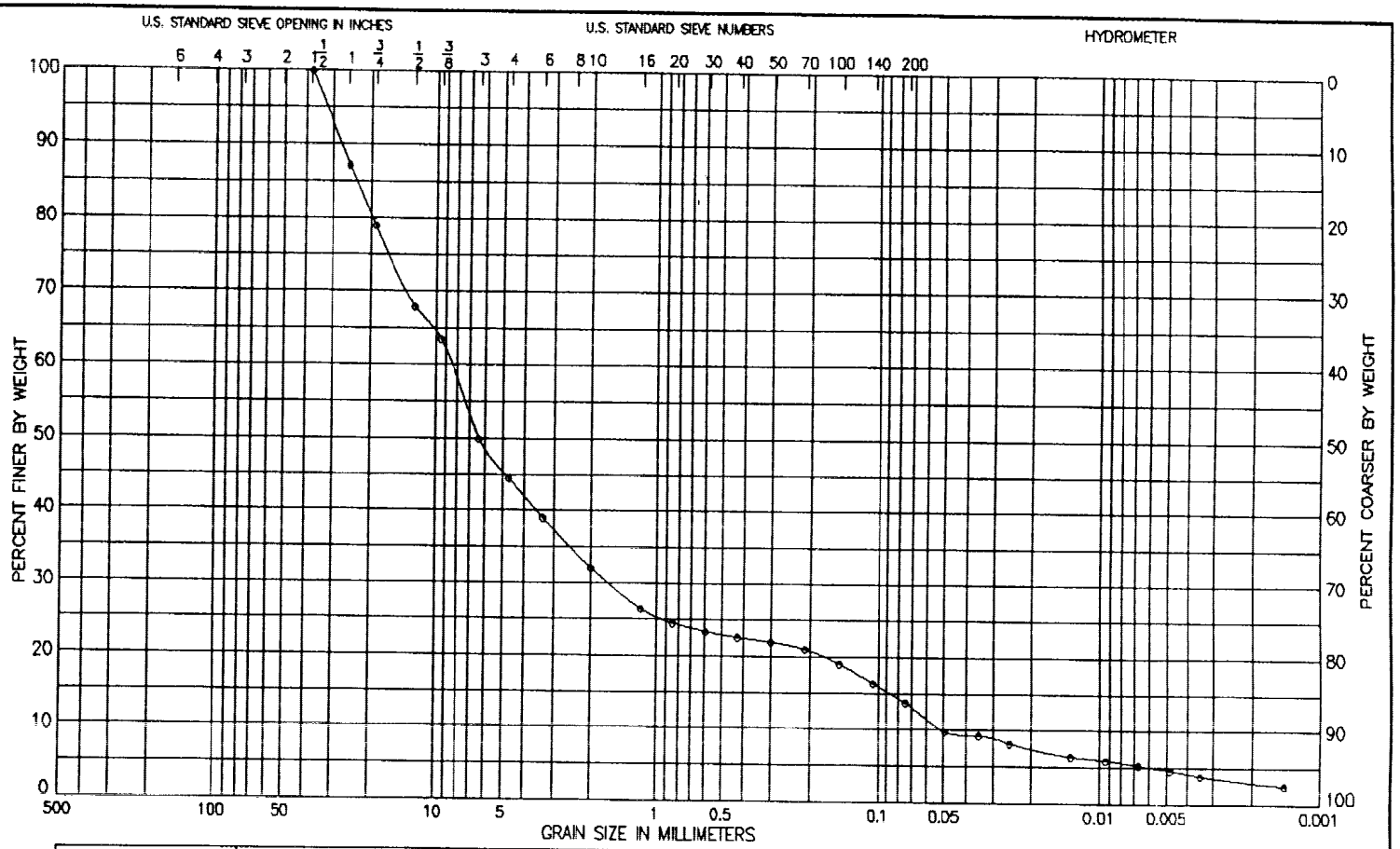


LL	PL	PI	GS 2.70 EST	NAT W,% 17.3	ORG,% 3.3

CLASSIFICATION
CLAYEY SAND (SC), BROWN

GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-VF2-87 SAMPLE NO. 3A
DEPTH/ELEV 4.3' – 4.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 11.4	ORG,% 1.6

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

PROJECT ABG

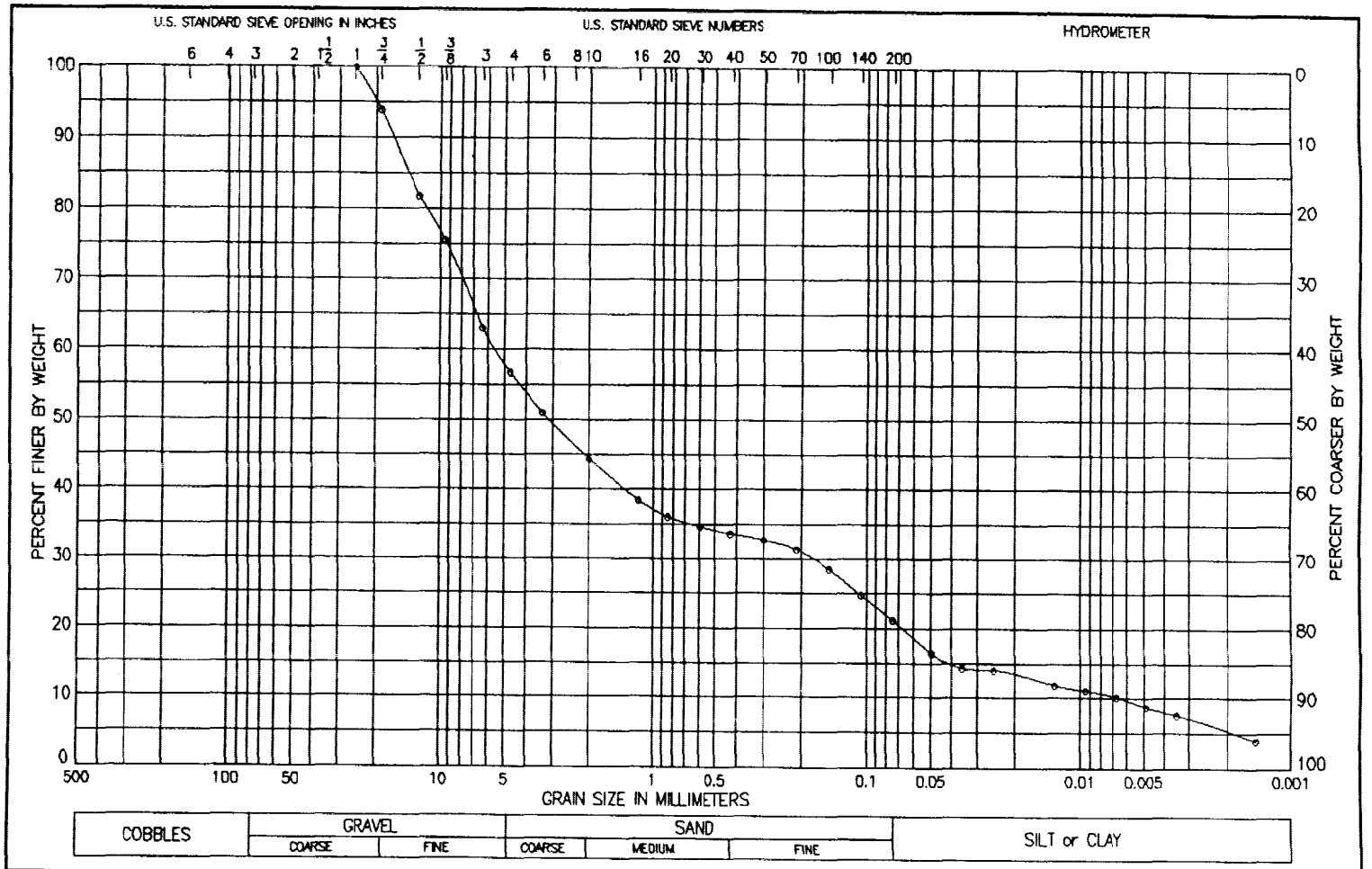
CRANE, IN

BORING NO. WES-3-VF2-87 SAMPLE NO. 4

DEPTH/ELEV 5.5' - 6.0' DATE 04 MAR 91

GRADATION CURVE

LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 13.3	ORG,% 2.0

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

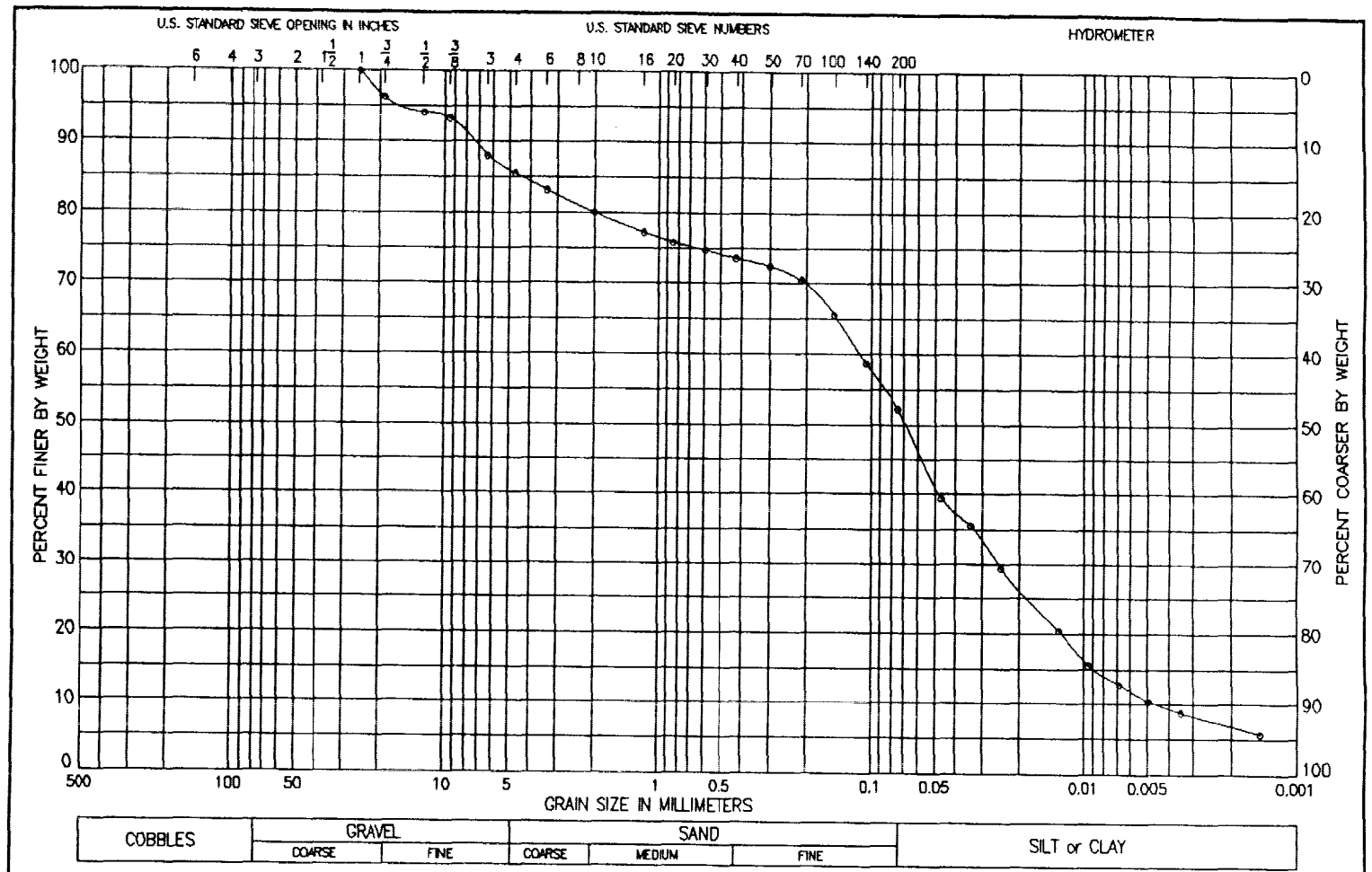
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF2-87 SAMPLE NO. 5

DEPTH/ELEV 7.0' – 7.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 10.0	ORG,% 3.4

CLASSIFICATION

GRAVELLY SANDY CLAY (CL), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

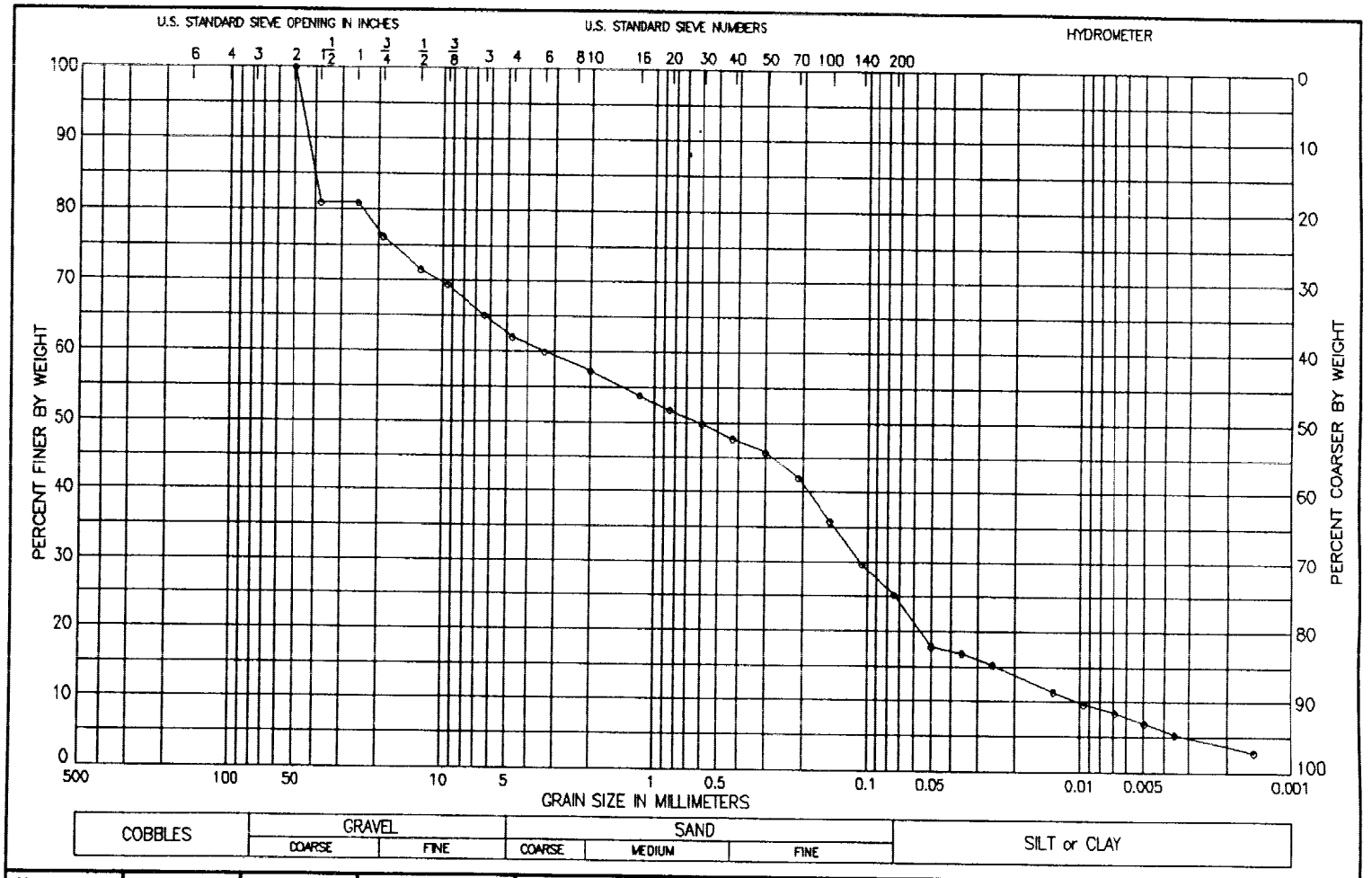
PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF3-87 SAMPLE NO. 1

DEPTH/ELEV 0.5' - 1.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 12.7	ORG,% 2.3

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

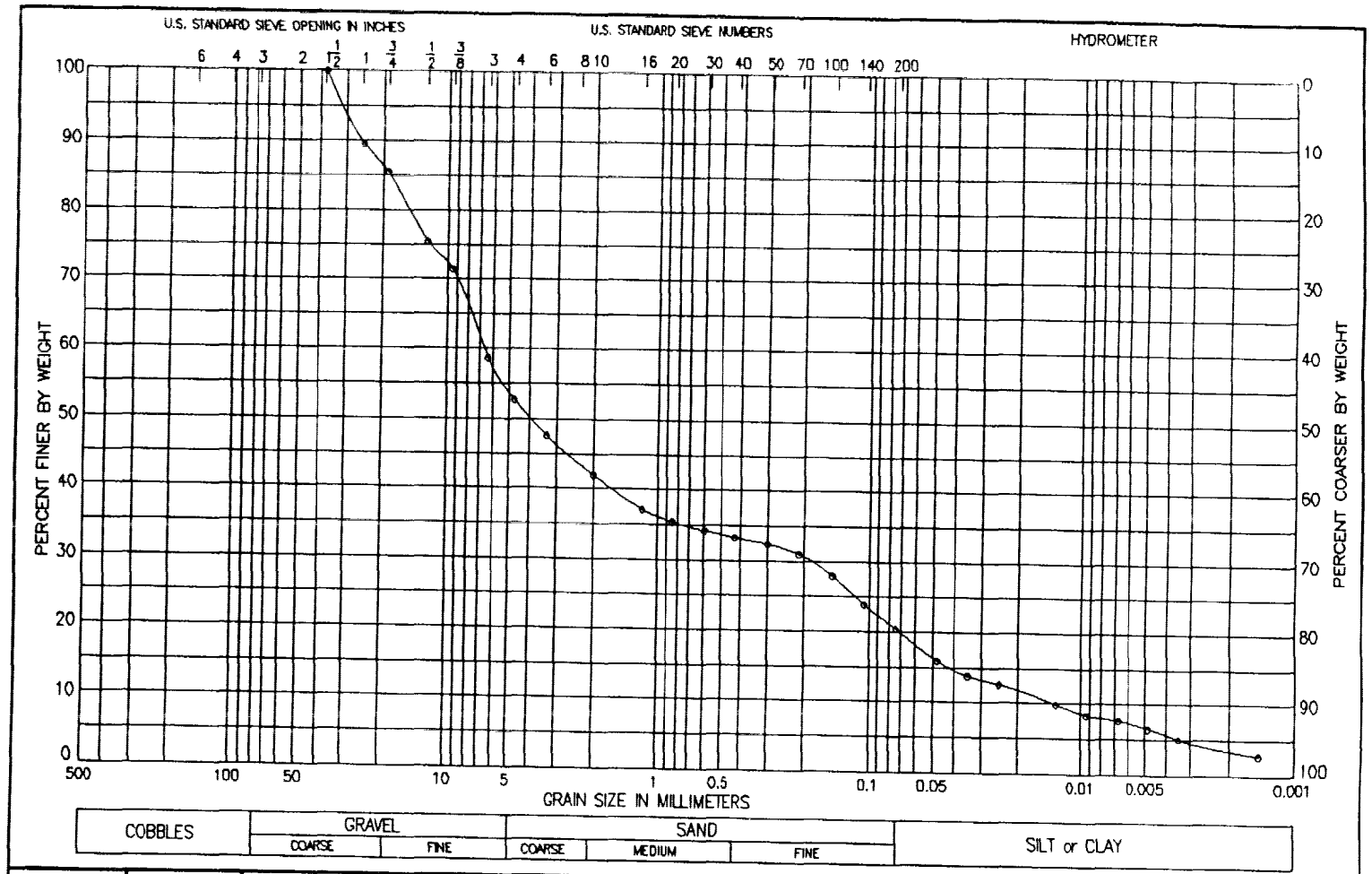
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF3-87 SAMPLE NO. 2

DEPTH/ELEV 2.5' – 3.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 10.9	ORG,% 2.2

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

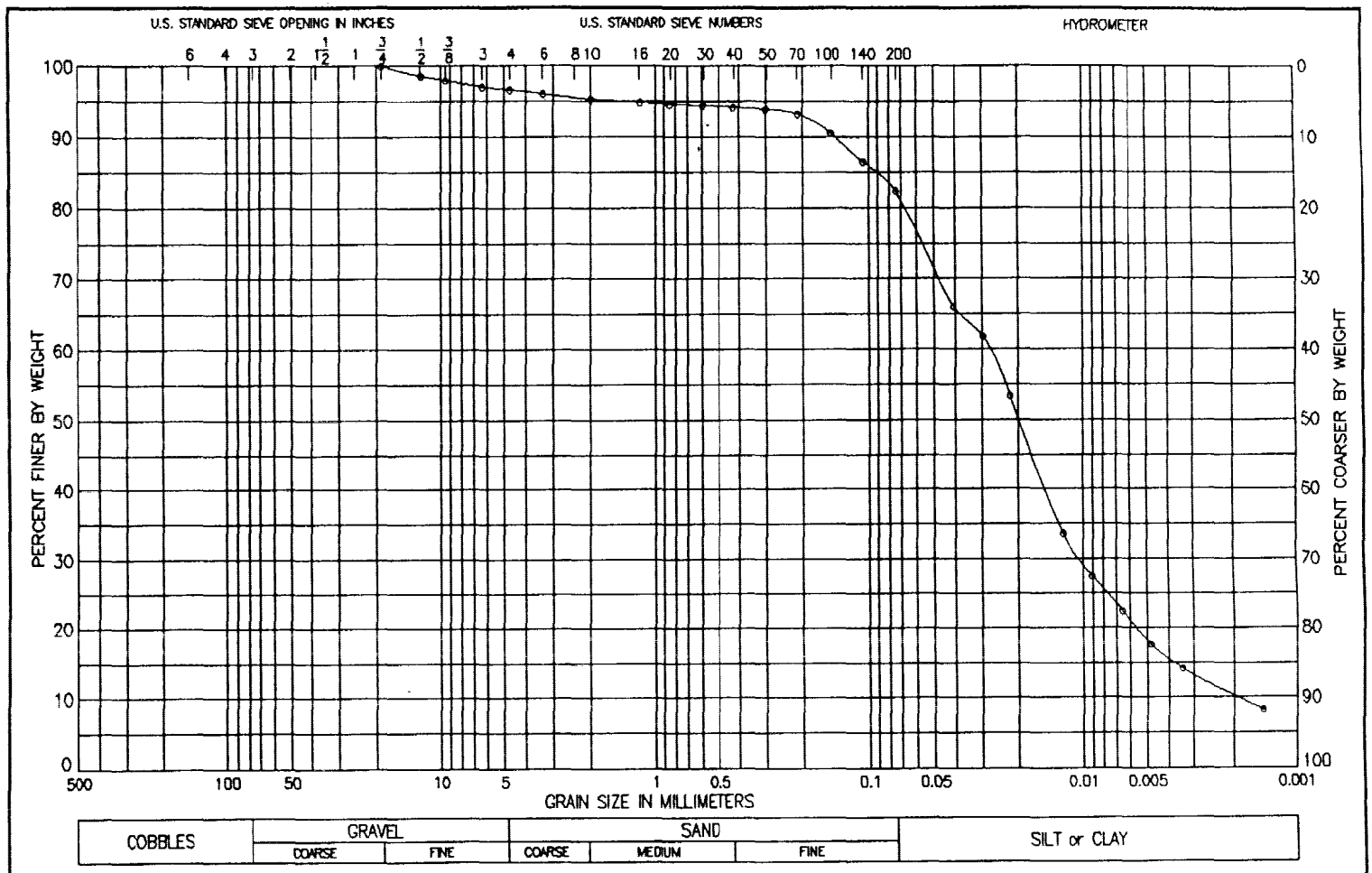
PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF3-87 SAMPLE NO. 3

DEPTH/ELEV 4.0' – 4.5' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL

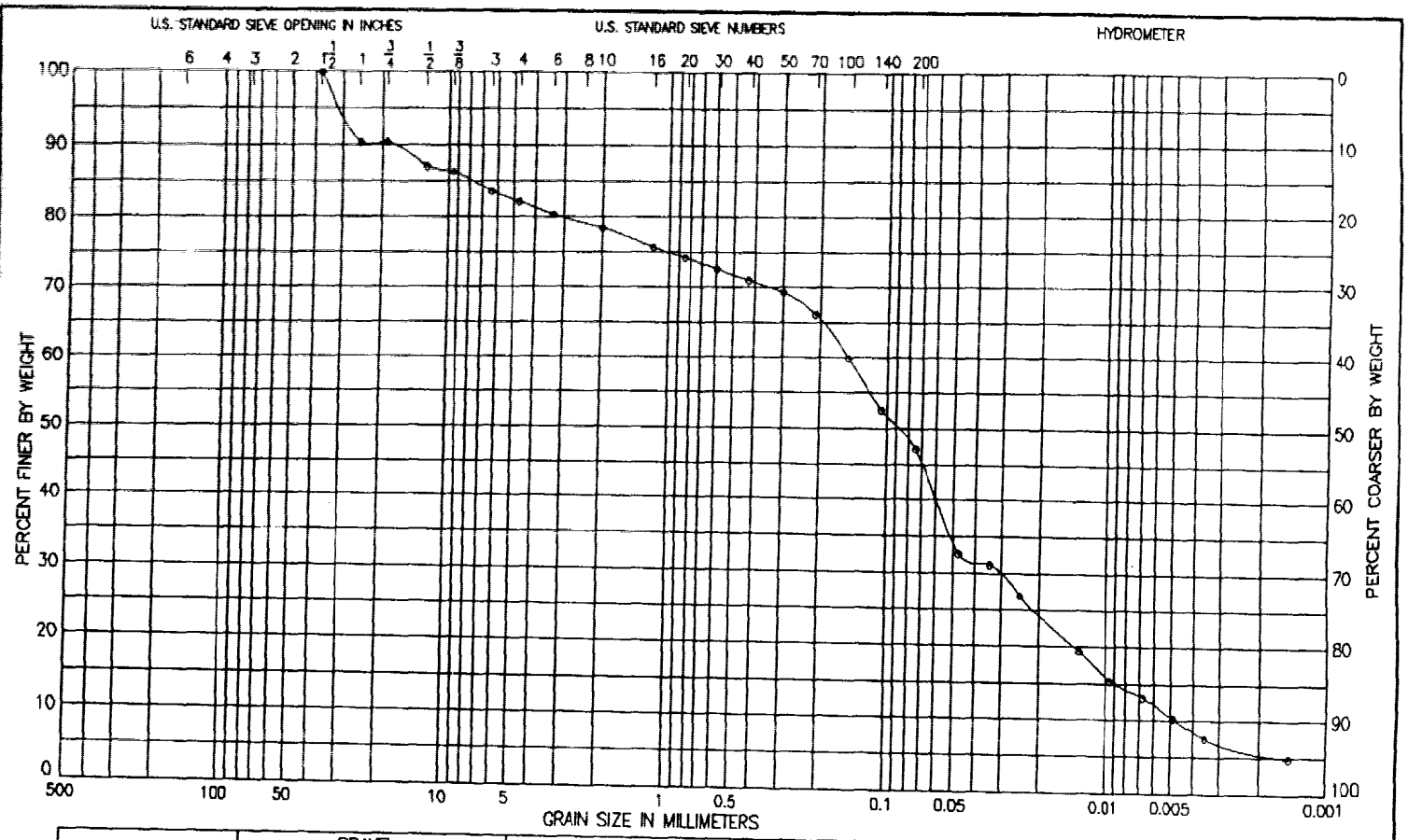


LL	PL	PI	GS 2.70 EST	NAT W,% 21.2	ORG,% 4.2

CLASSIFICATION
SANDY CLAY (CL), GRAY; TRACE OF GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-VF4-87 SAMPLE NO. 1
DEPTH/ELEV 0.5' - 1.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



COBBLES	GRAVEL		SAND			SILT or CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LL	PL	PI	GS	NAT W,%	ORG,%
			2.70 EST	19.1	2.2

CLASSIFICATION

GRAVELLY CLAYEY SAND (SC), GRAY

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

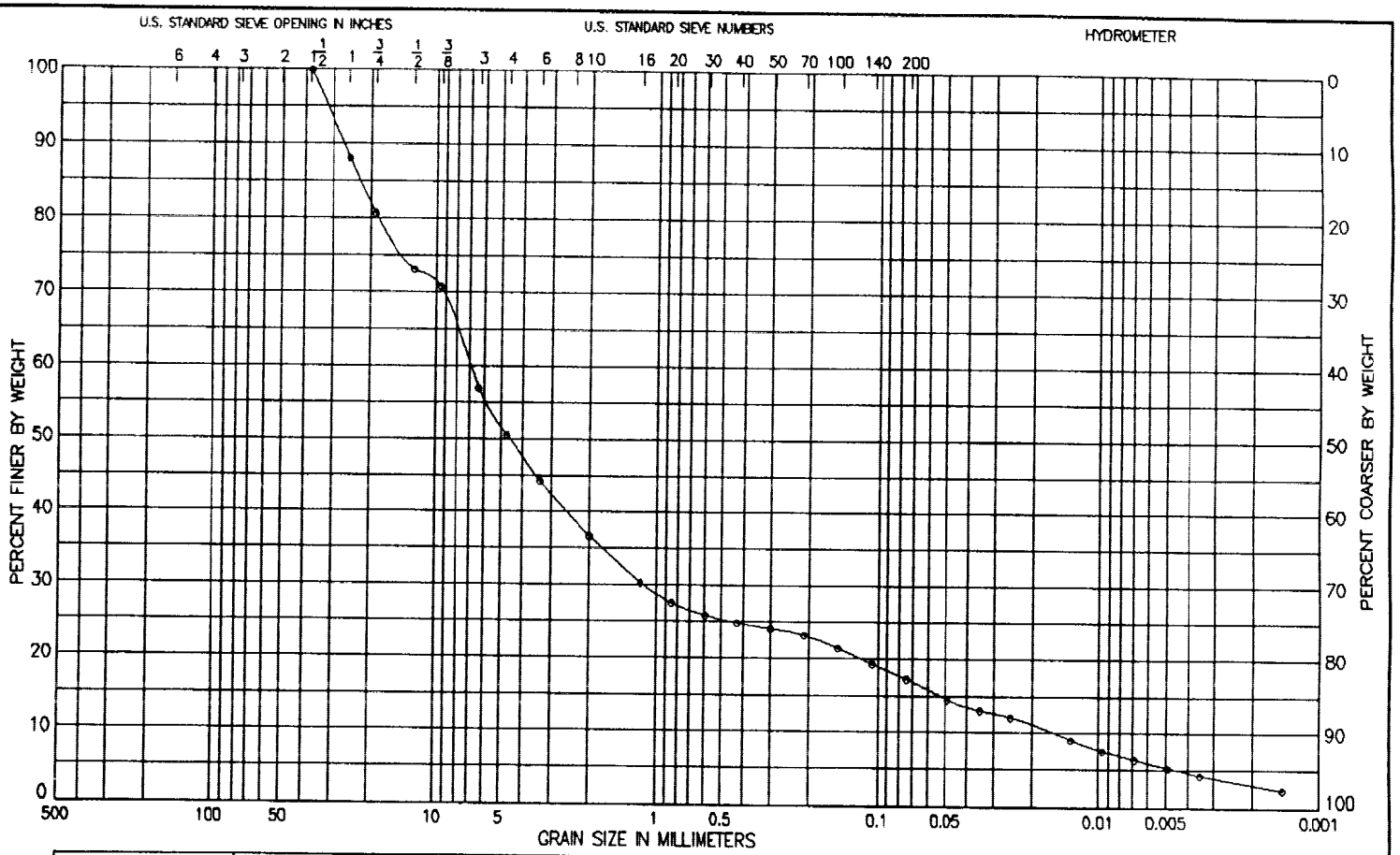
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF4-87 SAMPLE NO. 2

DEPTH/ELEV 2.5' – 3.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 11.9	ORG,% 3.3

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

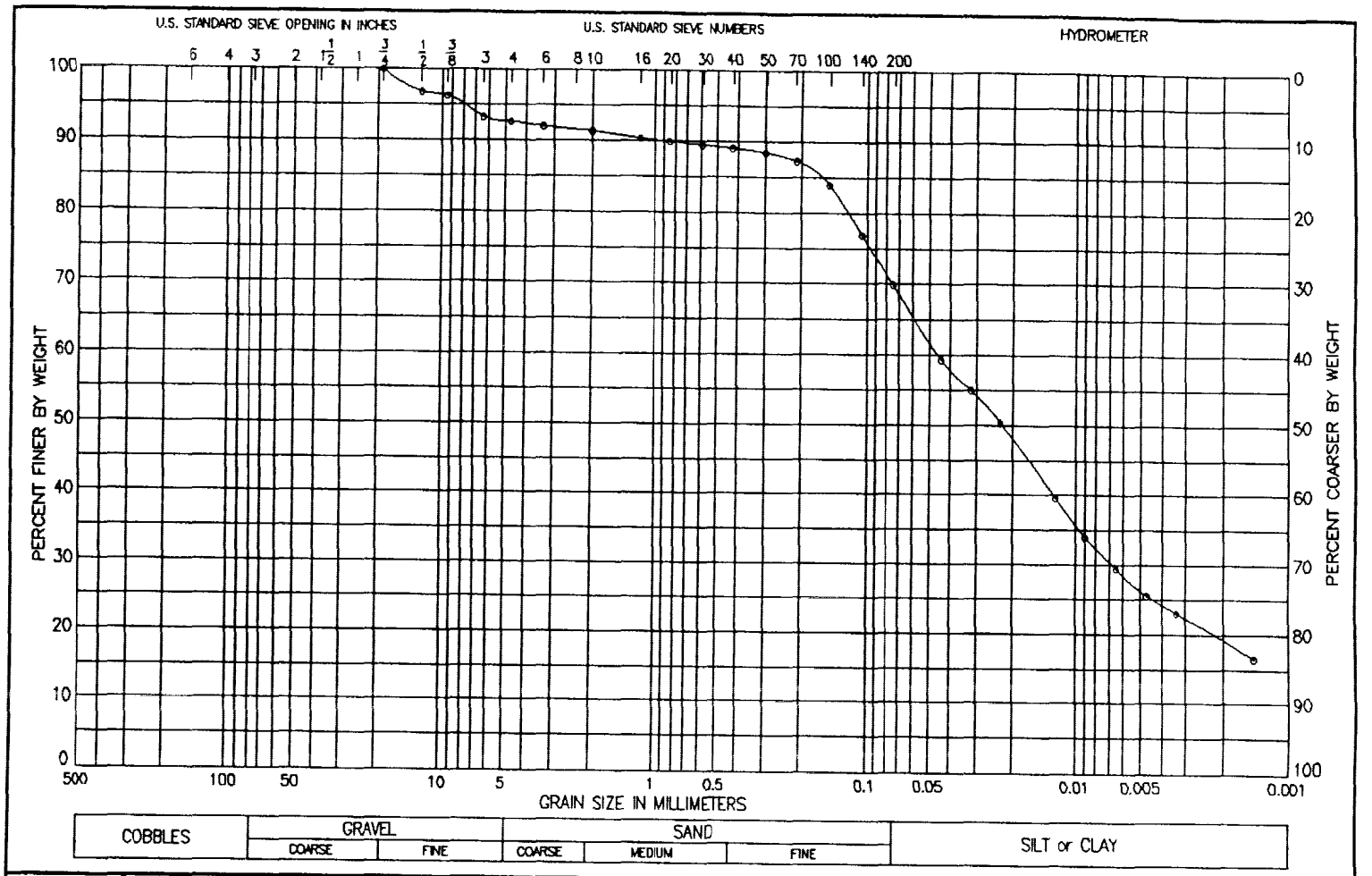
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF4-87 SAMPLE NO. 3

DEPTH/ELEV 4.0' – 4.5' DATE 04 MAR 91

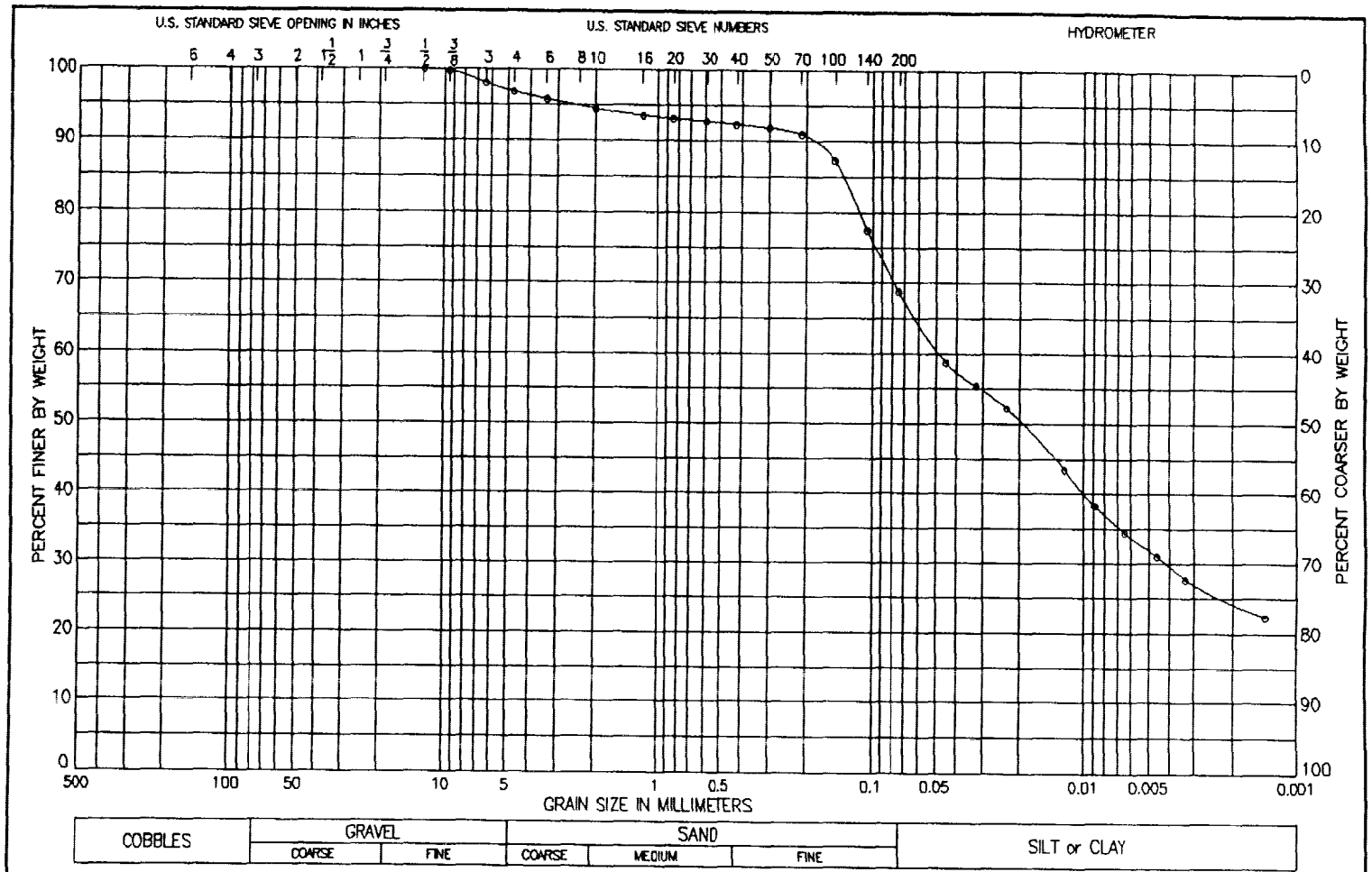


LL	PL	PI	GS 2.70 EST	NAT W,% 15.6	ORG,% 4.1

CLASSIFICATION
SANDY CLAY (CL), BROWN; WITH GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-VF5-87 SAMPLE NO. 1
DEPTH/ELEV 0.5' - 1.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL

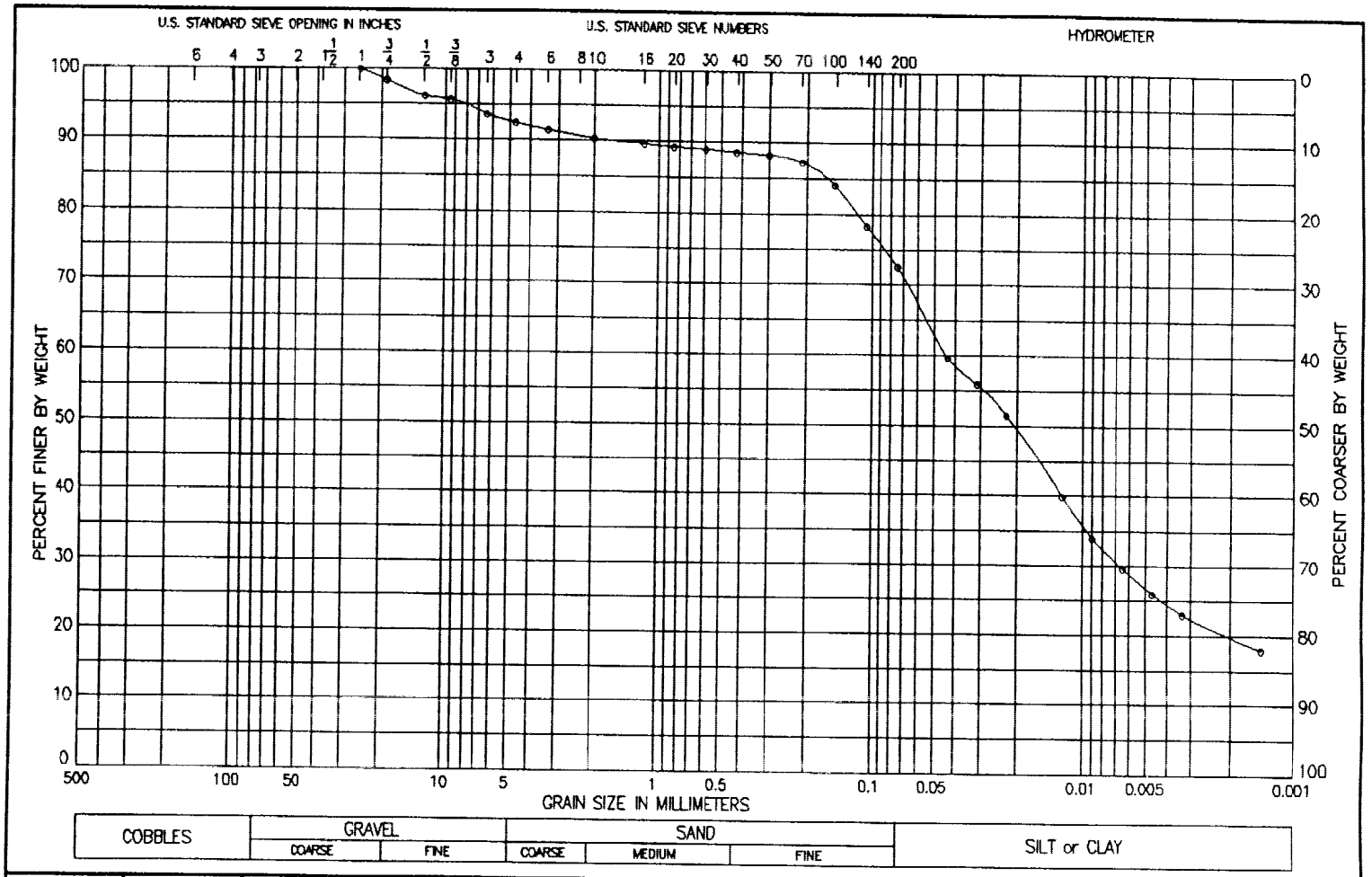


LL	PL	PI	GS 2.70 EST	NAT W,% 19.6	ORG,% 1.9

CLASSIFICATION
SANDY CLAY (CL), BROWN; TRACE OF GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-VF5-87 SAMPLE NO. 2
DEPTH/ELEV 2.5' - 3.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 15.9	ORG,% 2.9

CLASSIFICATION

SANDY CLAY (CL), BROWN; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

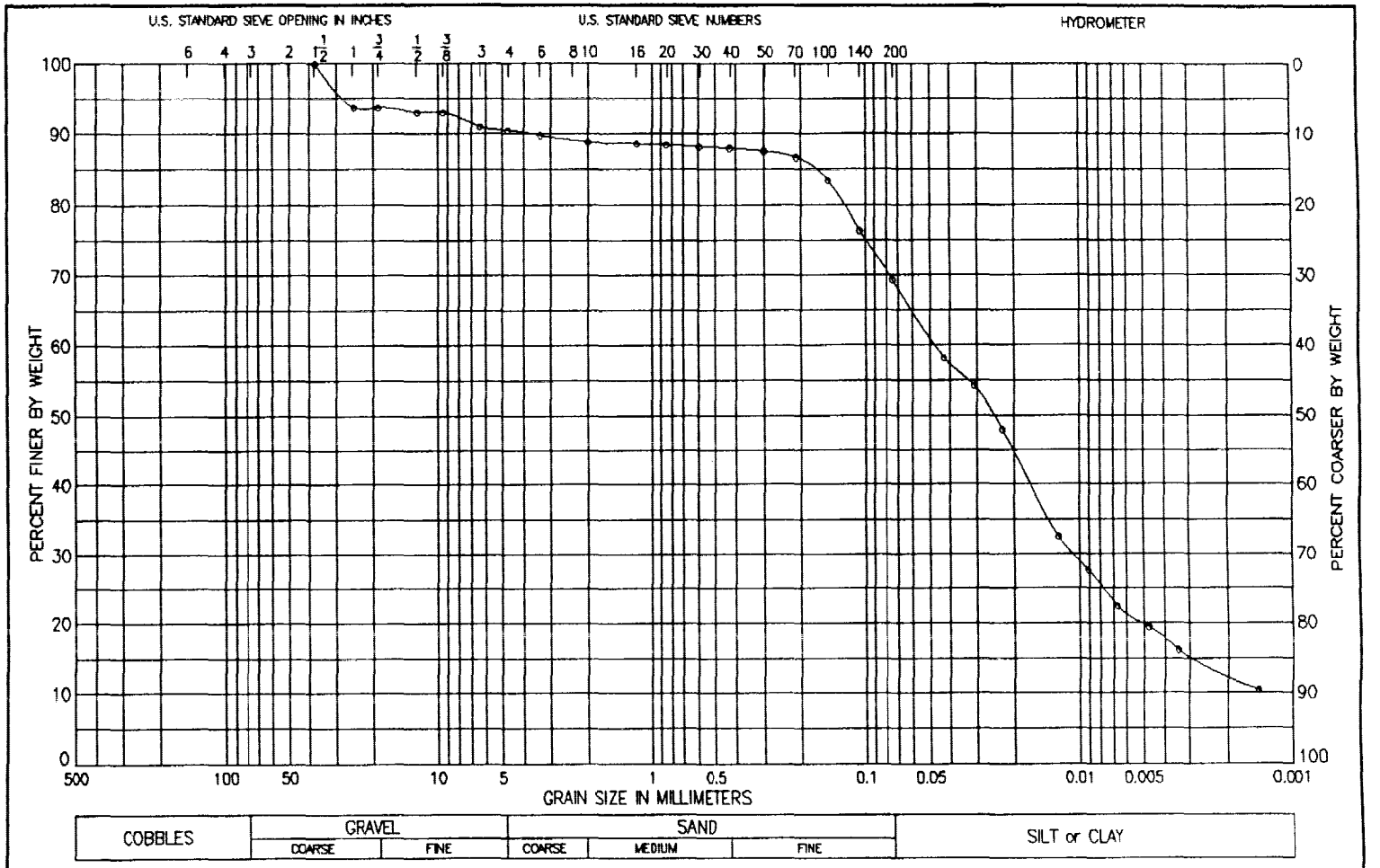
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES–VF5–87 SAMPLE NO. 3

DEPTH/ELEV 4.0' – 4.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 25.3	ORG,% 2.4

CLASSIFICATION

SANDY CLAY (CL), BROWN; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

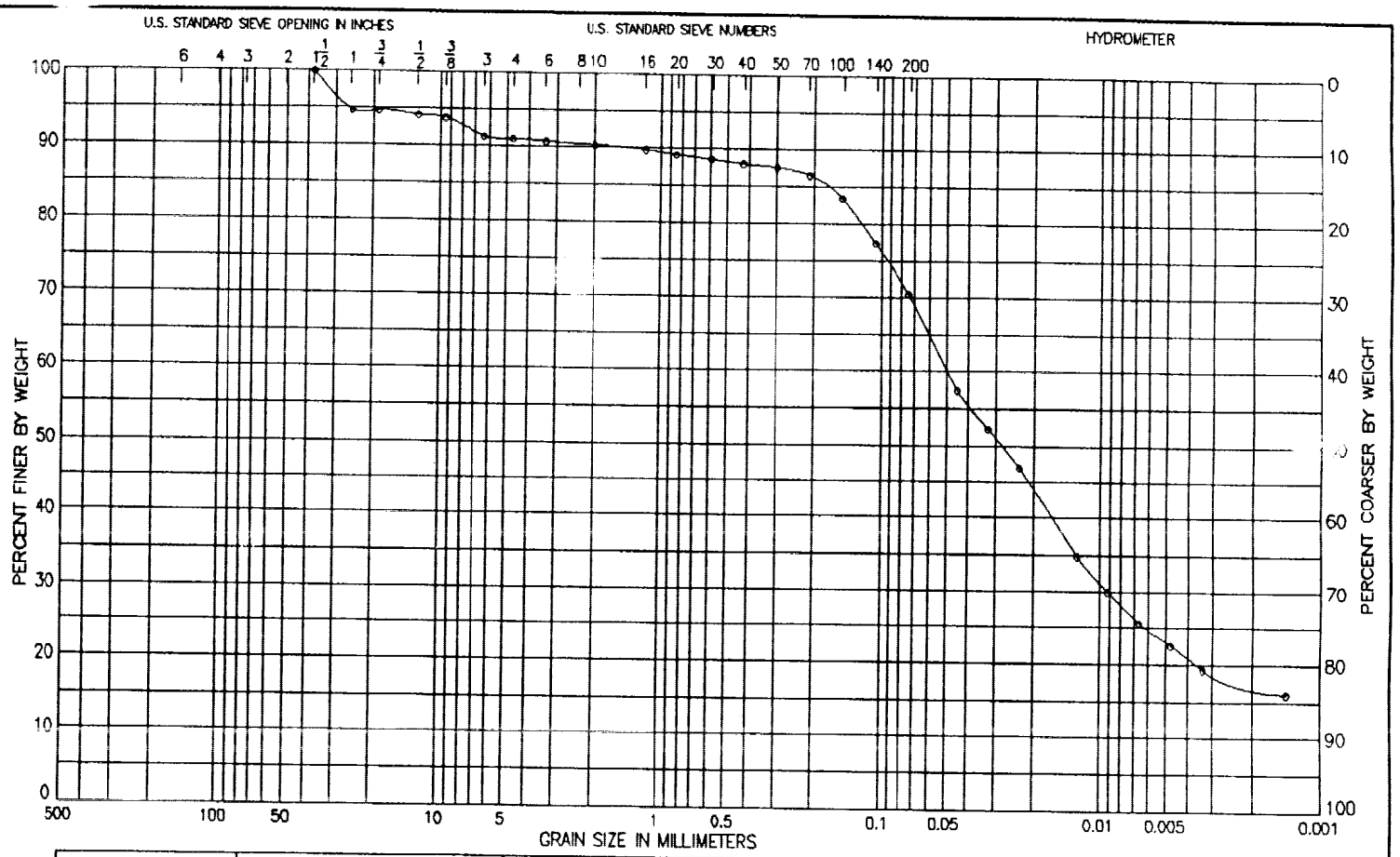
PROJECT ABG

CRANE, IN

BORING NO. WES–VF5–87 SAMPLE NO. 4

DEPTH/ELEV 5.5' – 6.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 19.4	ORG,% 1.5

CLASSIFICATION

SANDY CLAY (CL), BROWN; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

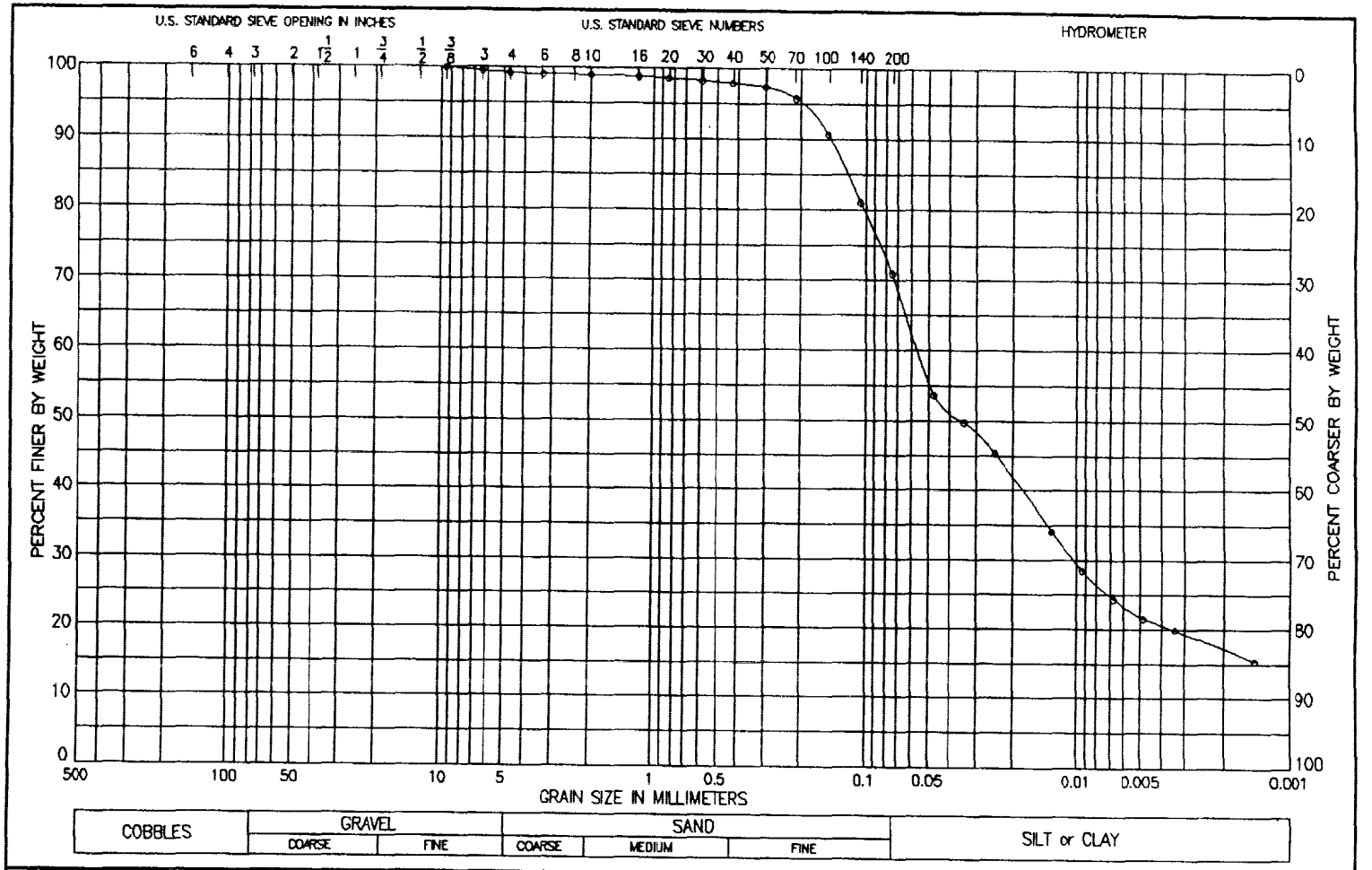
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF5-87 SAMPLE NO. 5

DEPTH/ELEV 7.0' – 7.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 20.5	ORG,% 2.5

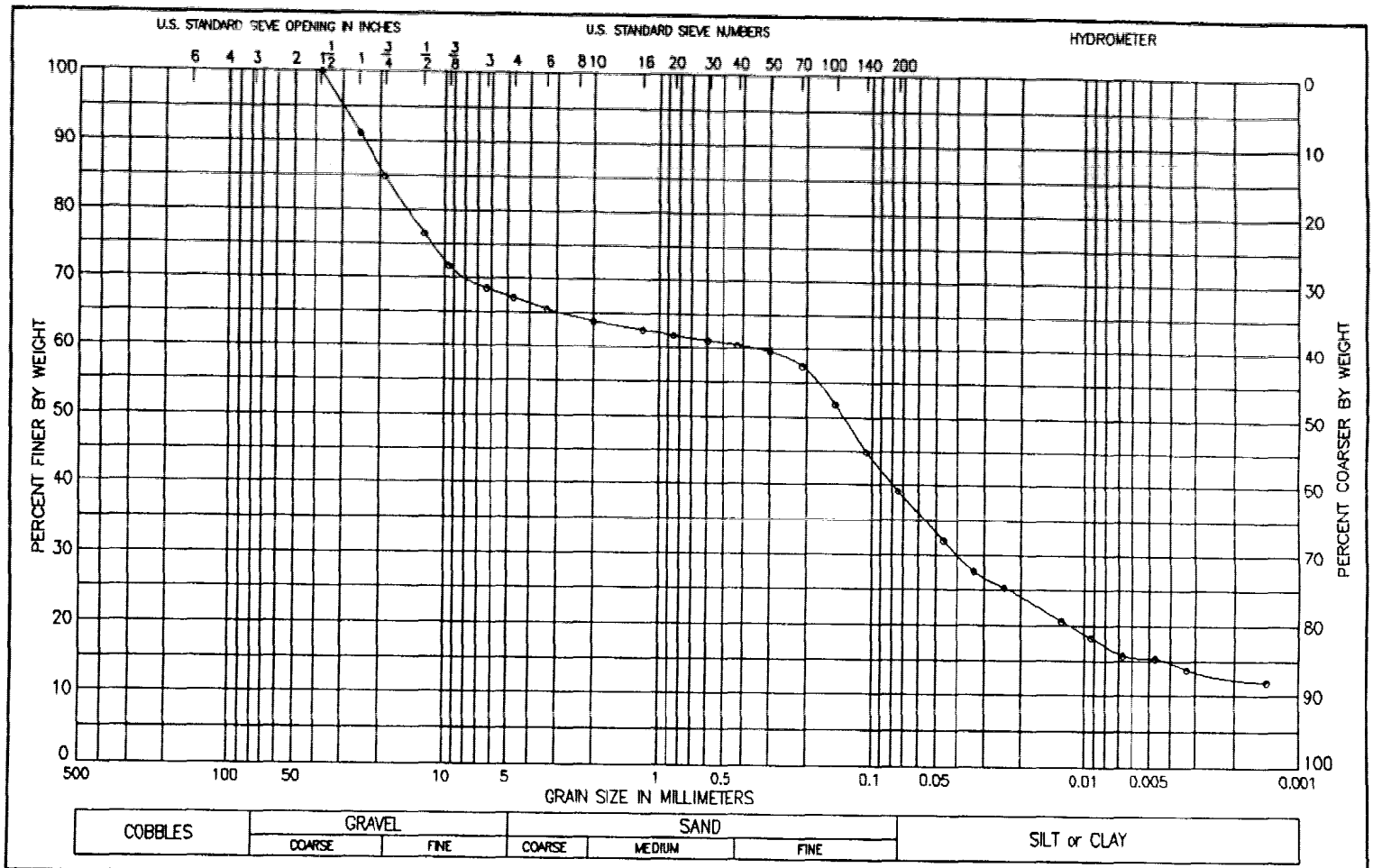
CLASSIFICATION
SANDY CLAY (CL), BROWN

PROJECT ABG
CRANE, IN

BORING NO. WES-VF5-87 SAMPLE NO. 6

DEPTH/ELEV 8.5' – 9.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 18.7	ORG,% 1.7

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

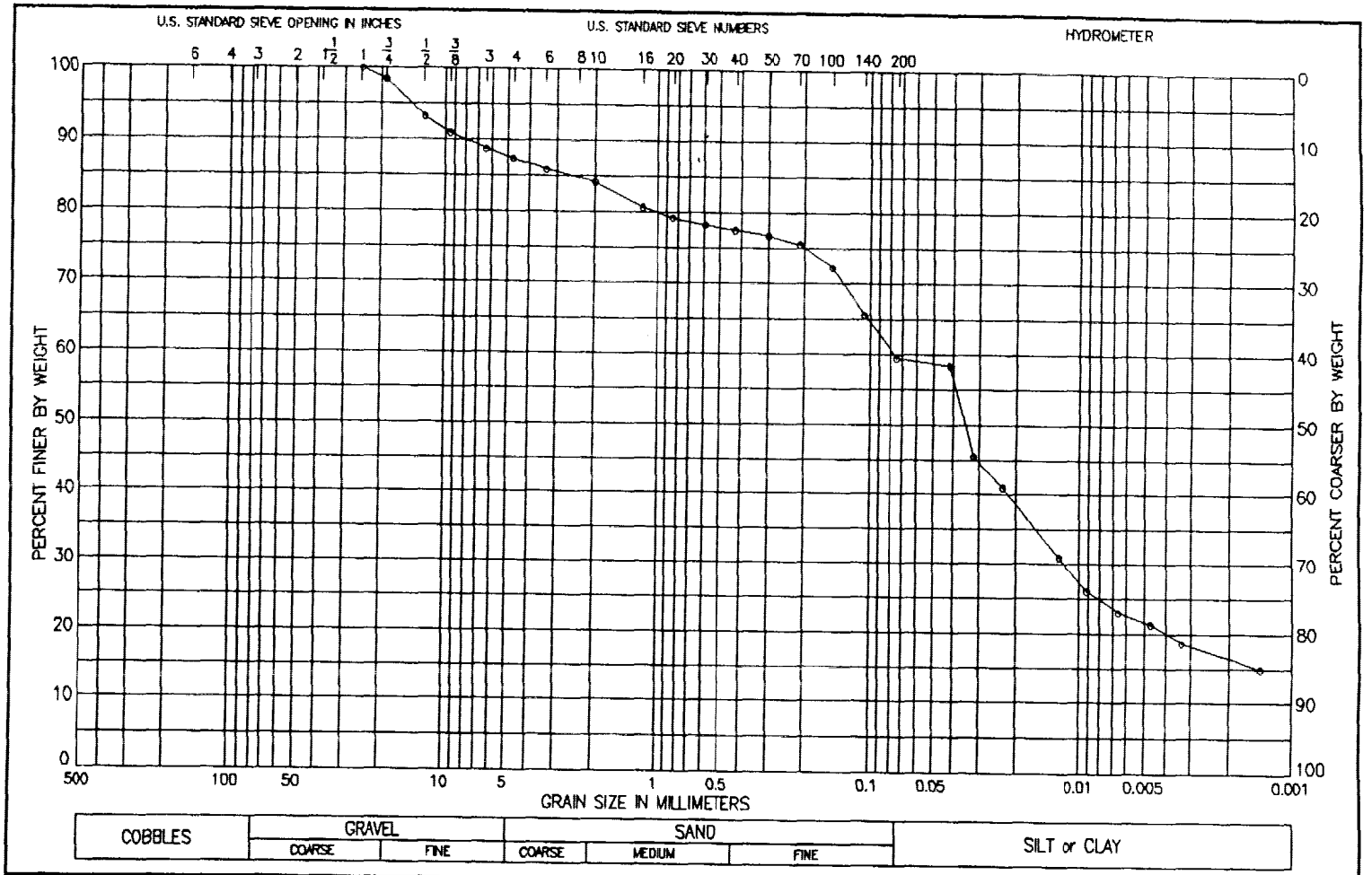
GRADATION CURVE	LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF5-87 SAMPLE NO. 7

DEPTH/ELEV 9.3' – 9.8' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 13.9	ORG,% 2.6

CLASSIFICATION

GRAVELLY SANDY CLAY (CL), GRAY

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

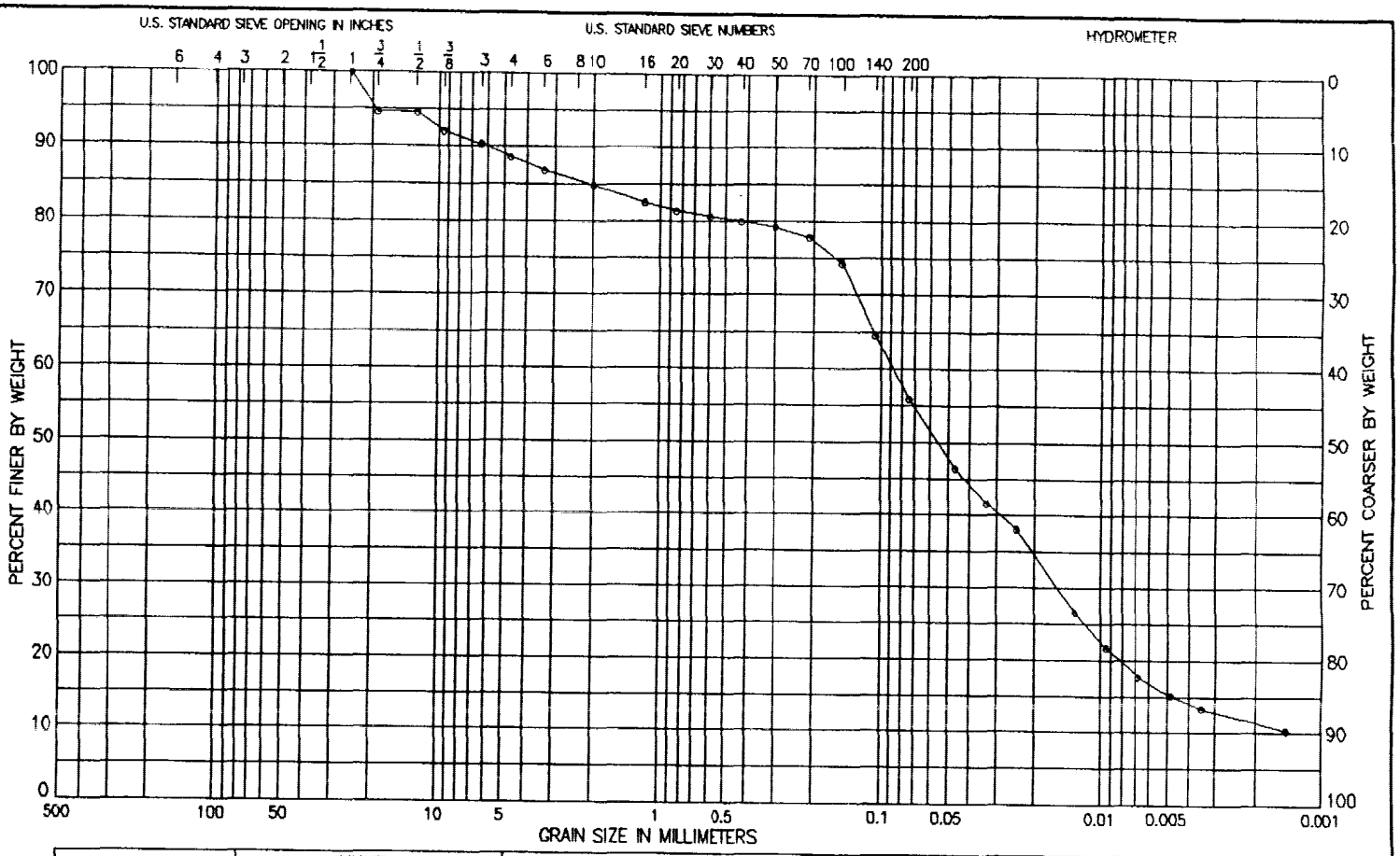
PROJECT ABG

CRANE, IN

BORING NO. WES-VF6-87 SAMPLE NO. 1

DEPTH/ELEV 1.0' – 1.5' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 14.8	ORG,% 2.6

CLASSIFICATION

SANDY CLAY (CL), GRAY; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

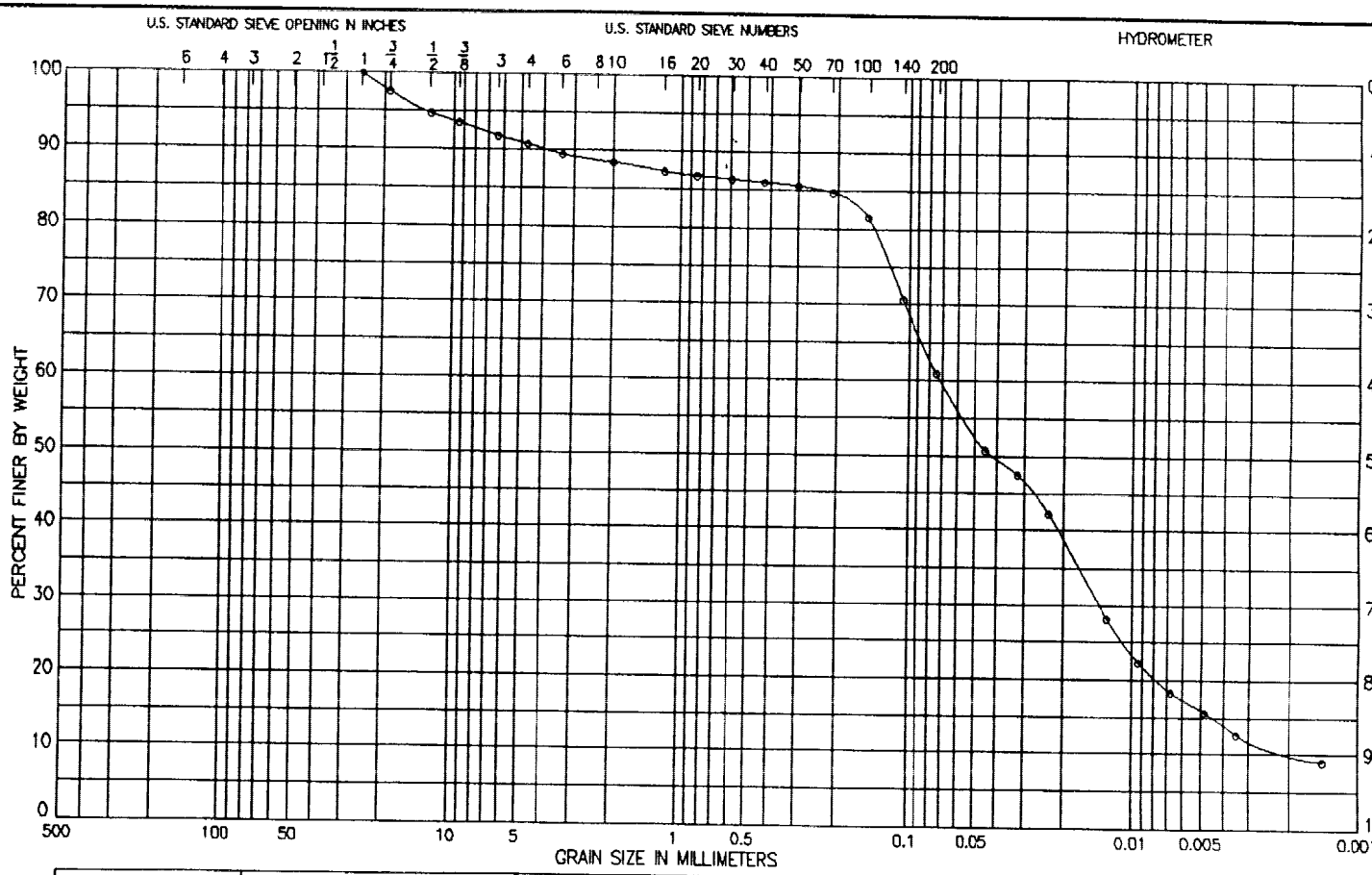
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF6-87 SAMPLE NO. 2

DEPTH/ELEV 2.5' – 3.0' DATE 04 MAR 91



COBBLES	GRAVEL		SAND			SILT or CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LL	PL	PI	GS 2.70 EST	NAT W,% 19.4	ORG,% 2.4

CLASSIFICATION

SANDY CLAY (CL), BROWN; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

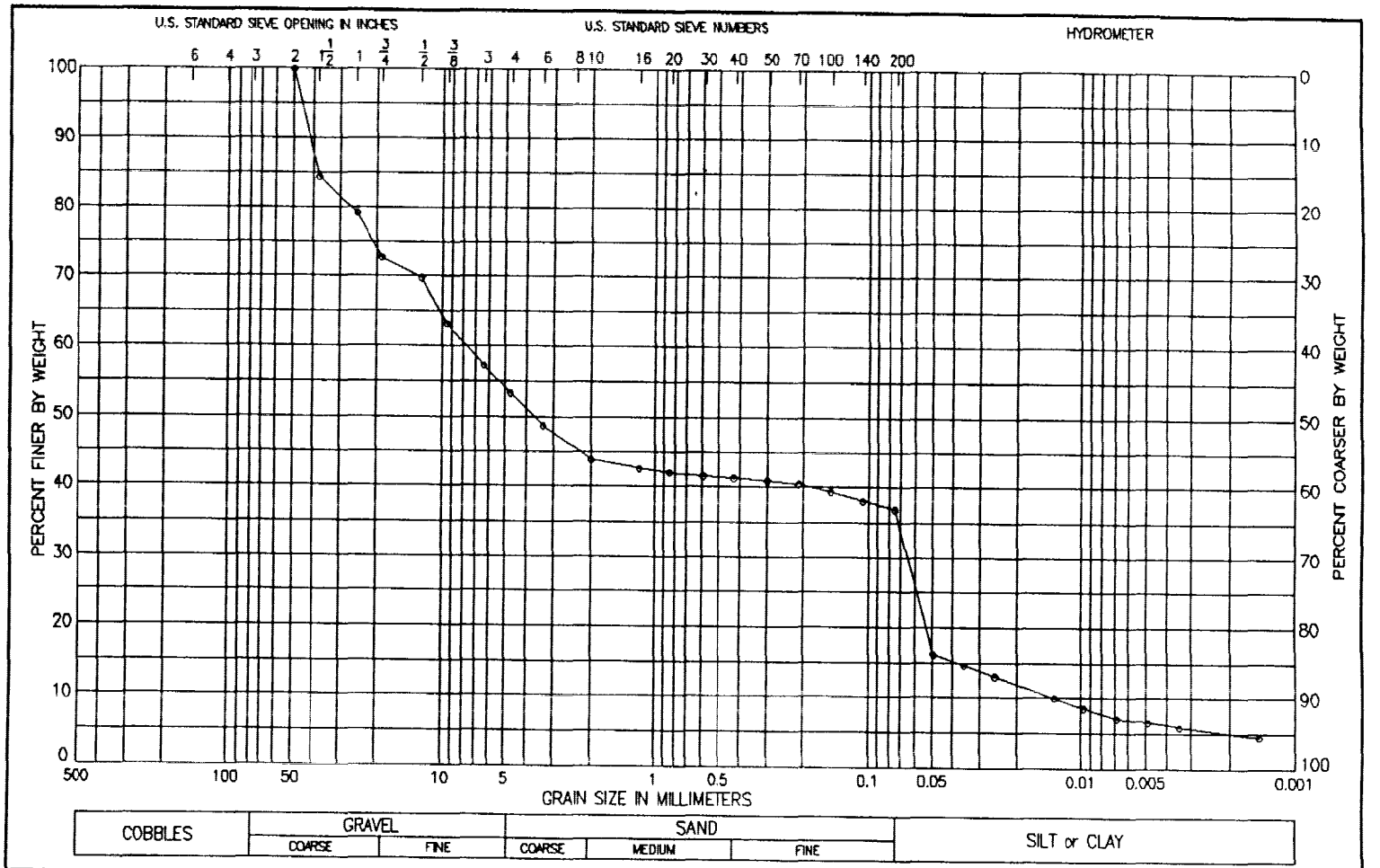
GRADATION CURVE | LABORATORY USAE WES - STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF6-87 SAMPLE NO. 3

DEPTH/ELEV 4.0' - 4.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 15.1	ORG,% 4.2

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

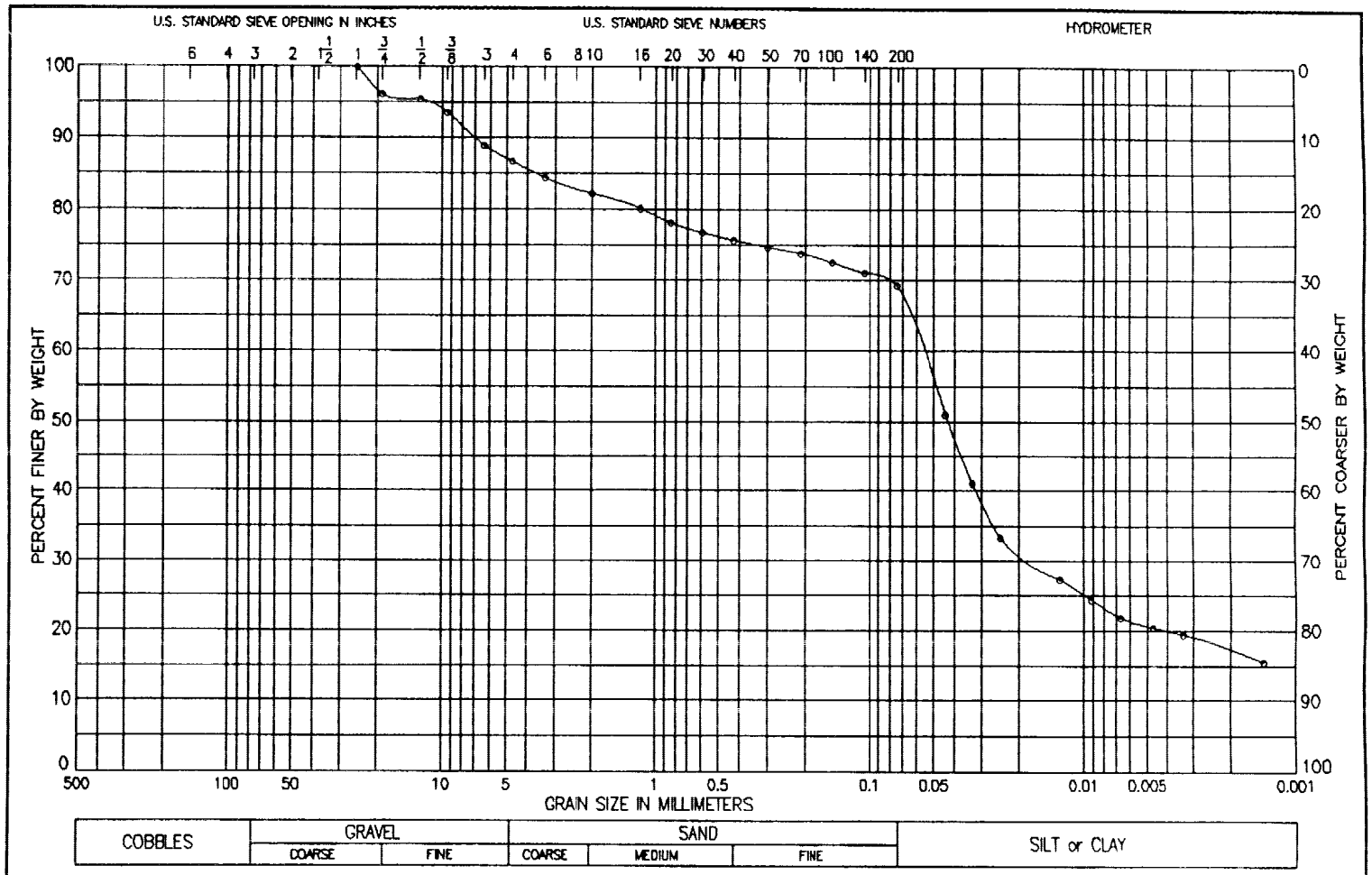
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-VF6-87 SAMPLE NO. 4

DEPTH/ELEV 5.5' – 6.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 17.9	ORG,% 2.8

CLASSIFICATION
GRAVELLY SANDY CLAY (CL), BROWN

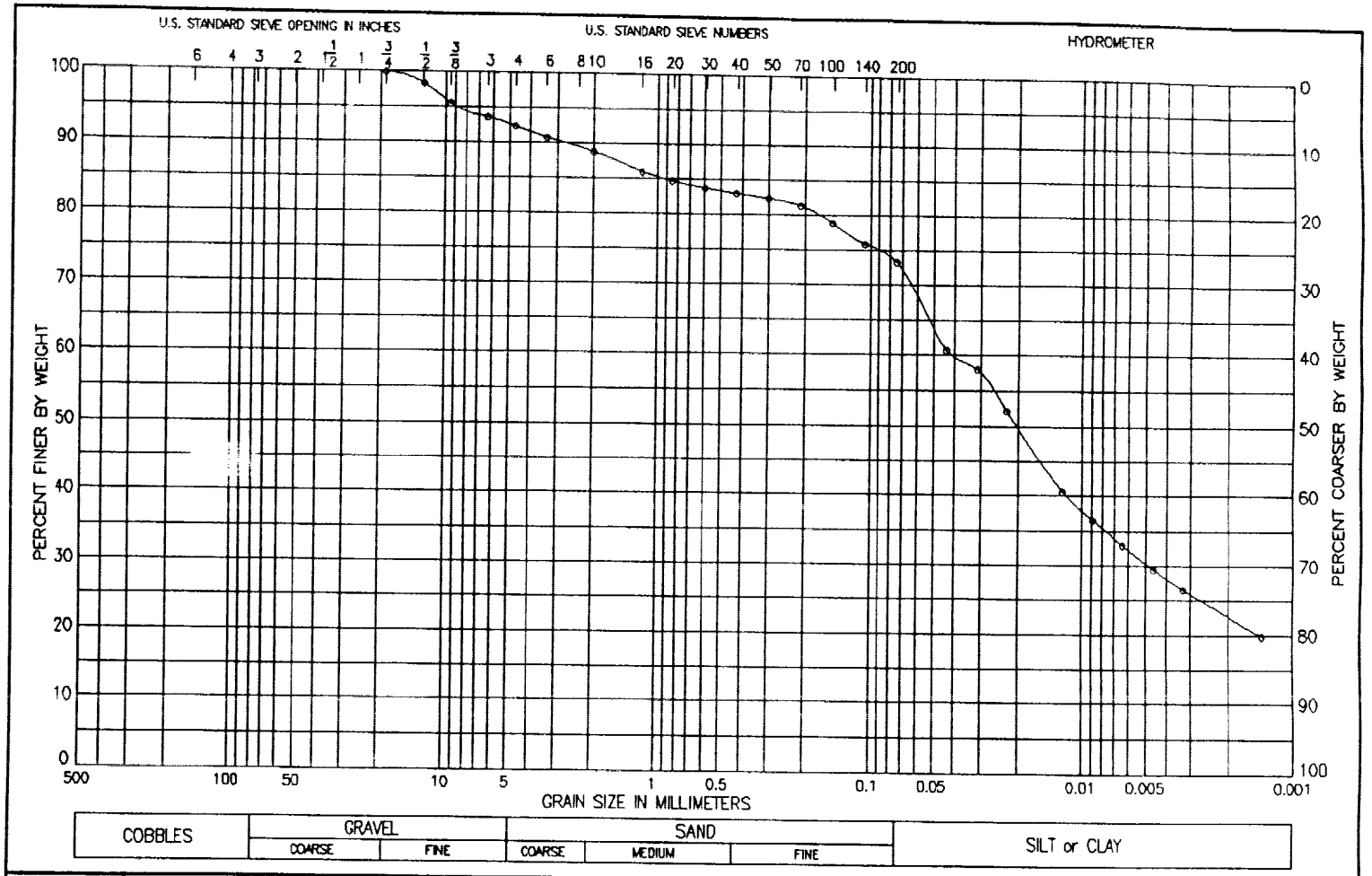
INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

PROJECT ABG
CRANE, IN

BORING NO. WES-3-VF6-87 SAMPLE NO. 5

DEPTH/ELEV 7.0' - 7.5' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL

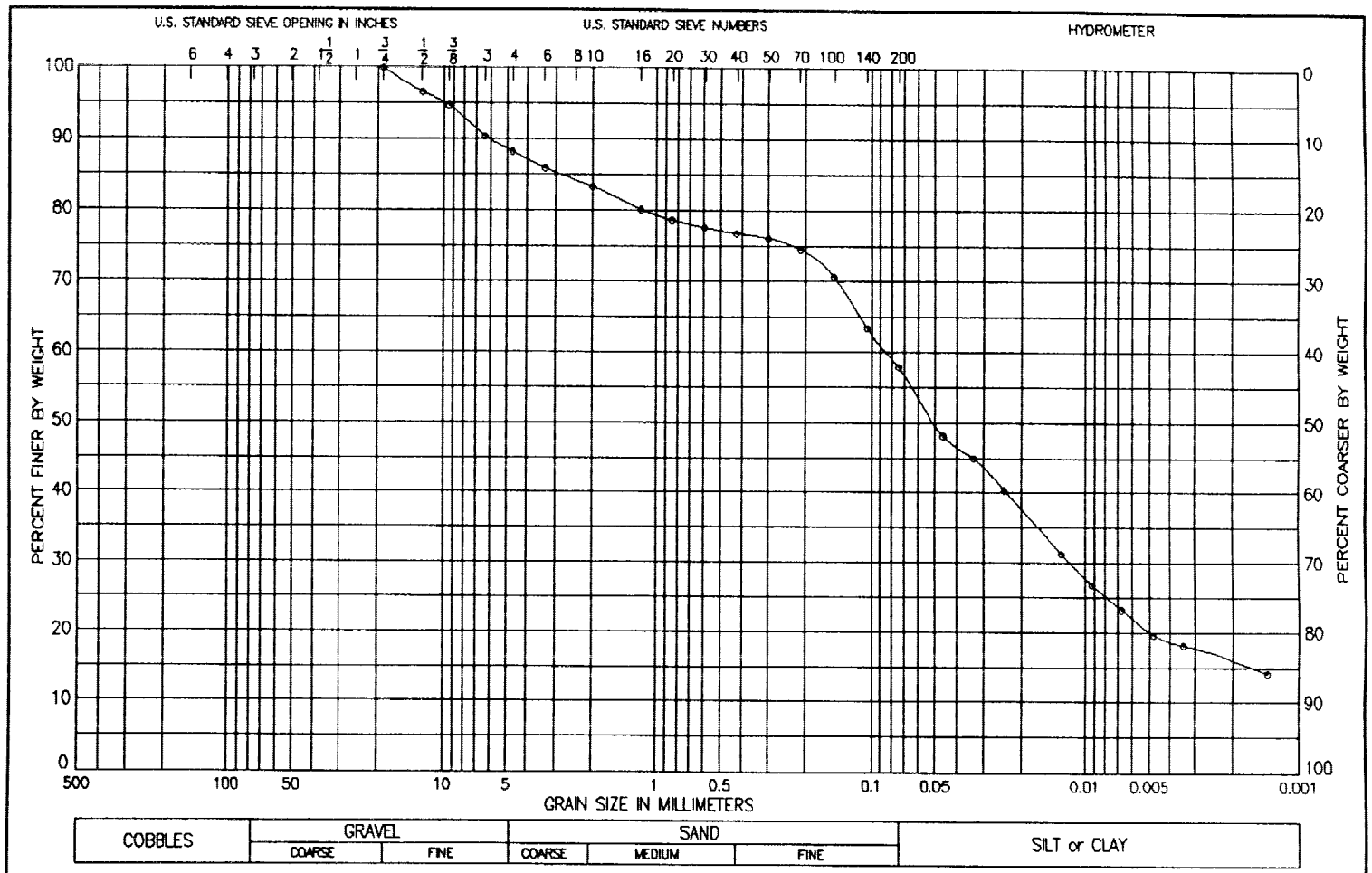


LL	PL	PI	GS 2.70 EST	NAT W,% 16.9	ORG,% 2.9

CLASSIFICATION
SANDY CLAY (CL), GRAY; WITH GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-VF7-87 SAMPLE NO. 1
DEPTH/ELEV 1.0' – 1.5' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL

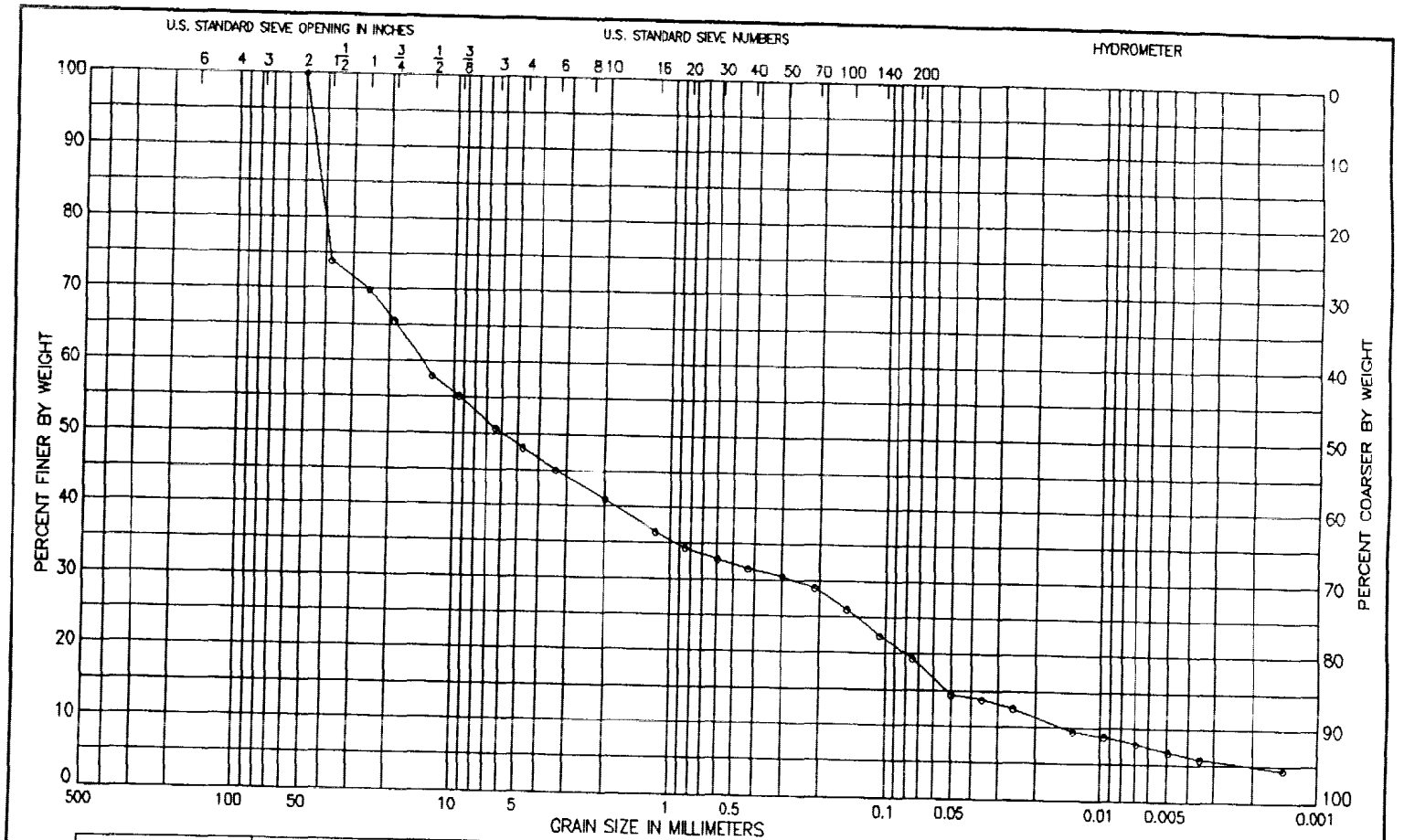


LL	PL	PI	GS 2.70 EST	NAT W,% 15.9	ORG,% 2.5

CLASSIFICATION
SANDY CLAY (CL), GRAY; WITH GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-VF7-87 SAMPLE NO. 2
DEPTH/ELEV 2.5' - 3.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 12.9	ORG,% 2.4

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), GRAY

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

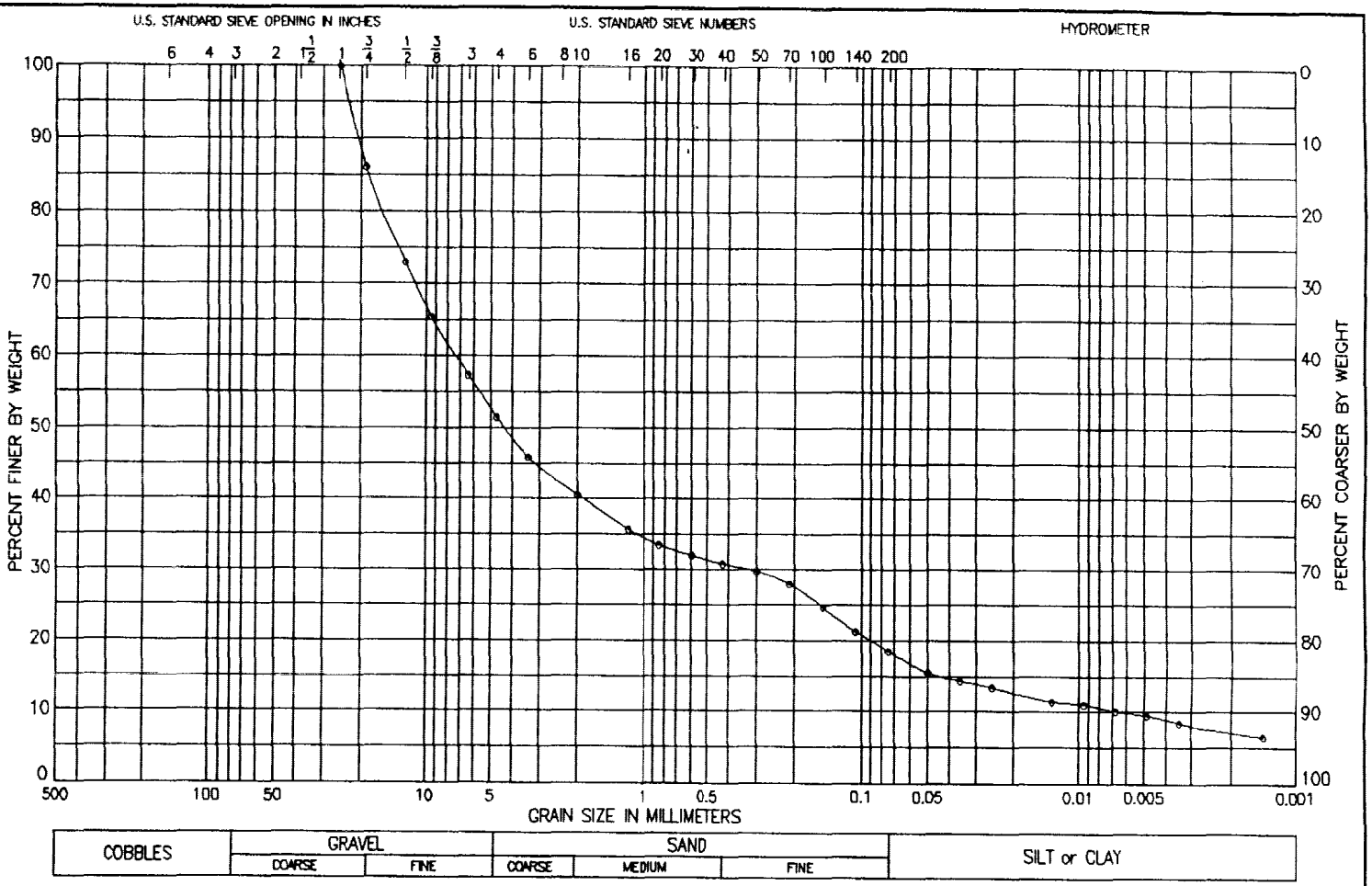
PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF7-87 SAMPLE NO. 3

DEPTH/ELEV 4.0' - 4.5' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 14.3	ORG,% 3.9

CLASSIFICATION

SANDY CLAYEY GRAVEL (GC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

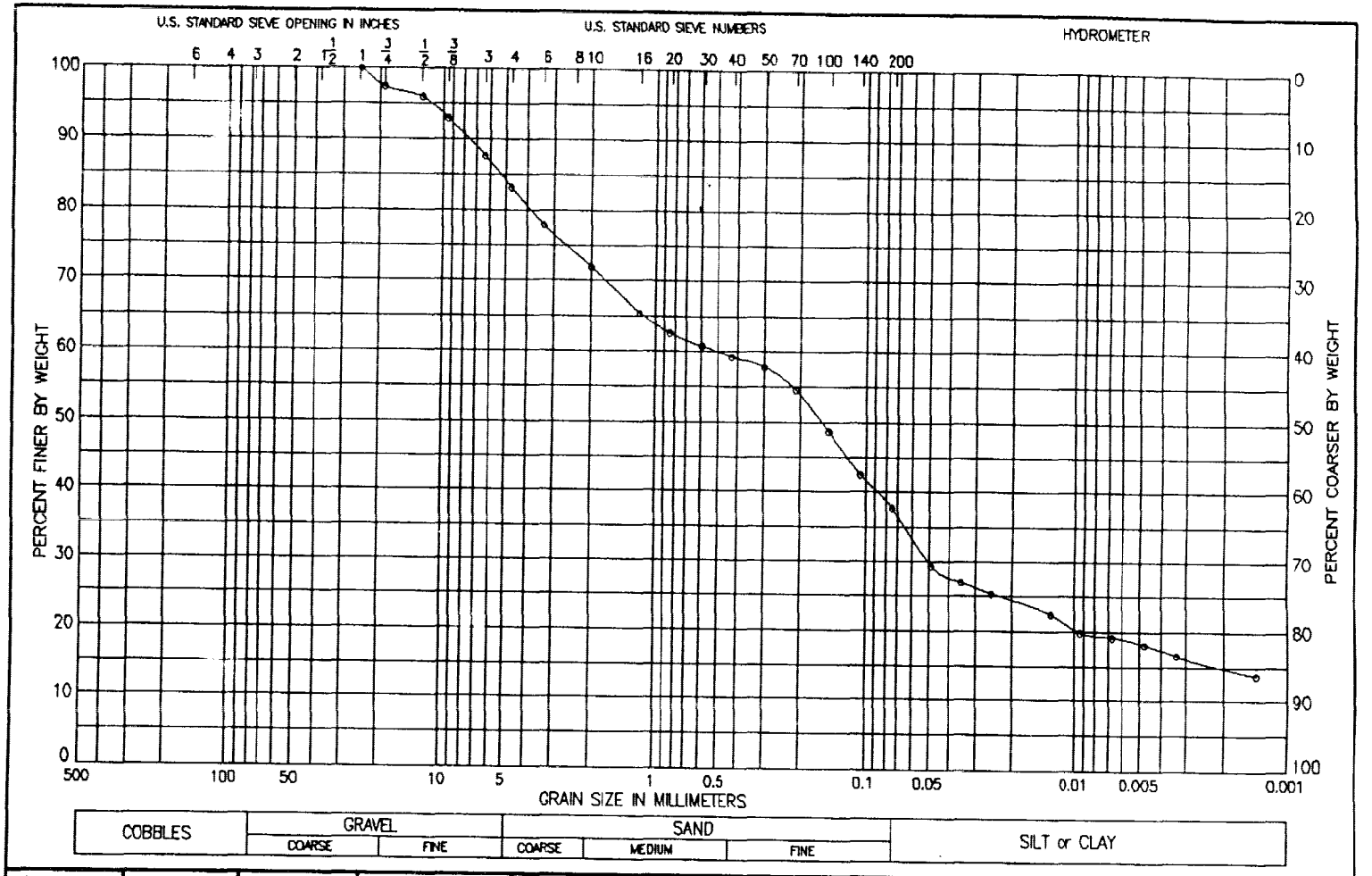
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF7-87 SAMPLE NO. 4

DEPTH/ELEV 5.5' – 6.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 21.5	ORG,% 3.0

CLASSIFICATION

GRAVELLY CLAYEY SAND (SC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

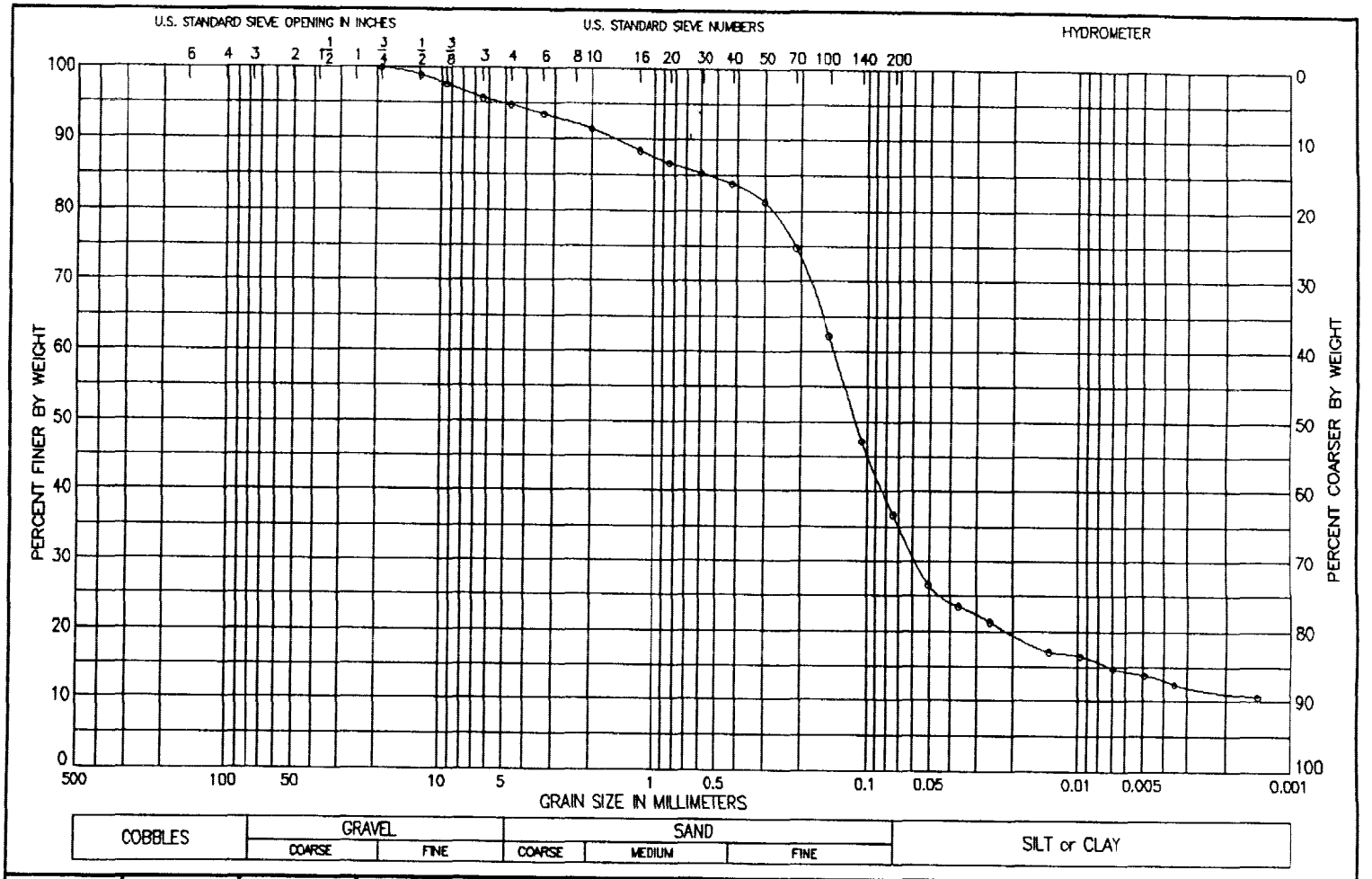
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF7-87 SAMPLE NO. 5

DEPTH/ELEV 6.0' – 7.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 20.3	ORG,% 2.3

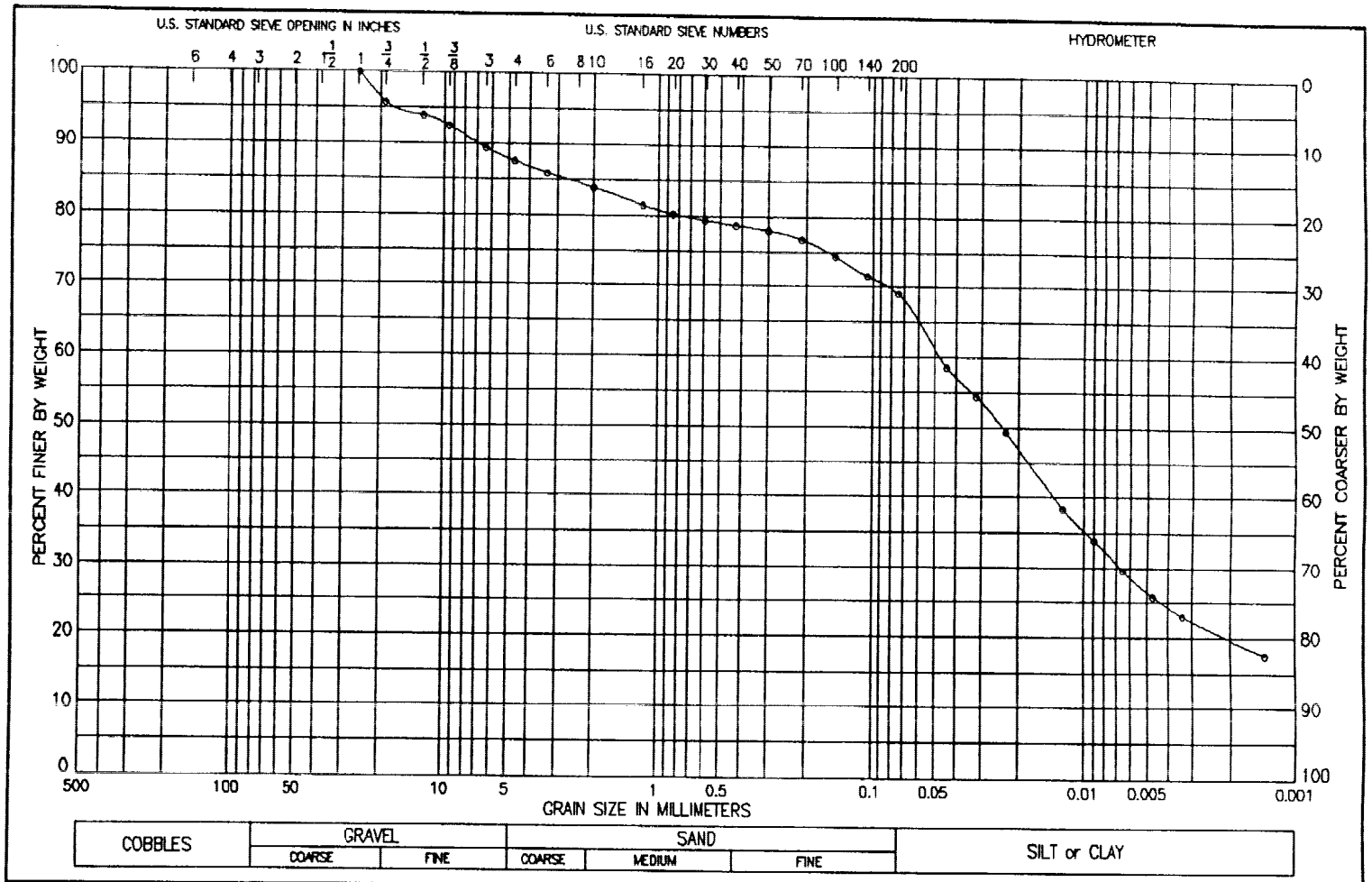
CLASSIFICATION
CLAYEY SAND (SC), BROWN; WITH GRAVEL

PROJECT ABG
CRANE, IN

BORING NO. WES-3-VF7-87 SAMPLE NO. 6

DEPTH/ELEV 7.5' - 9.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 17.0	ORG,% 2.2

CLASSIFICATION

GRAVELLY SANDY CLAY (CL), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

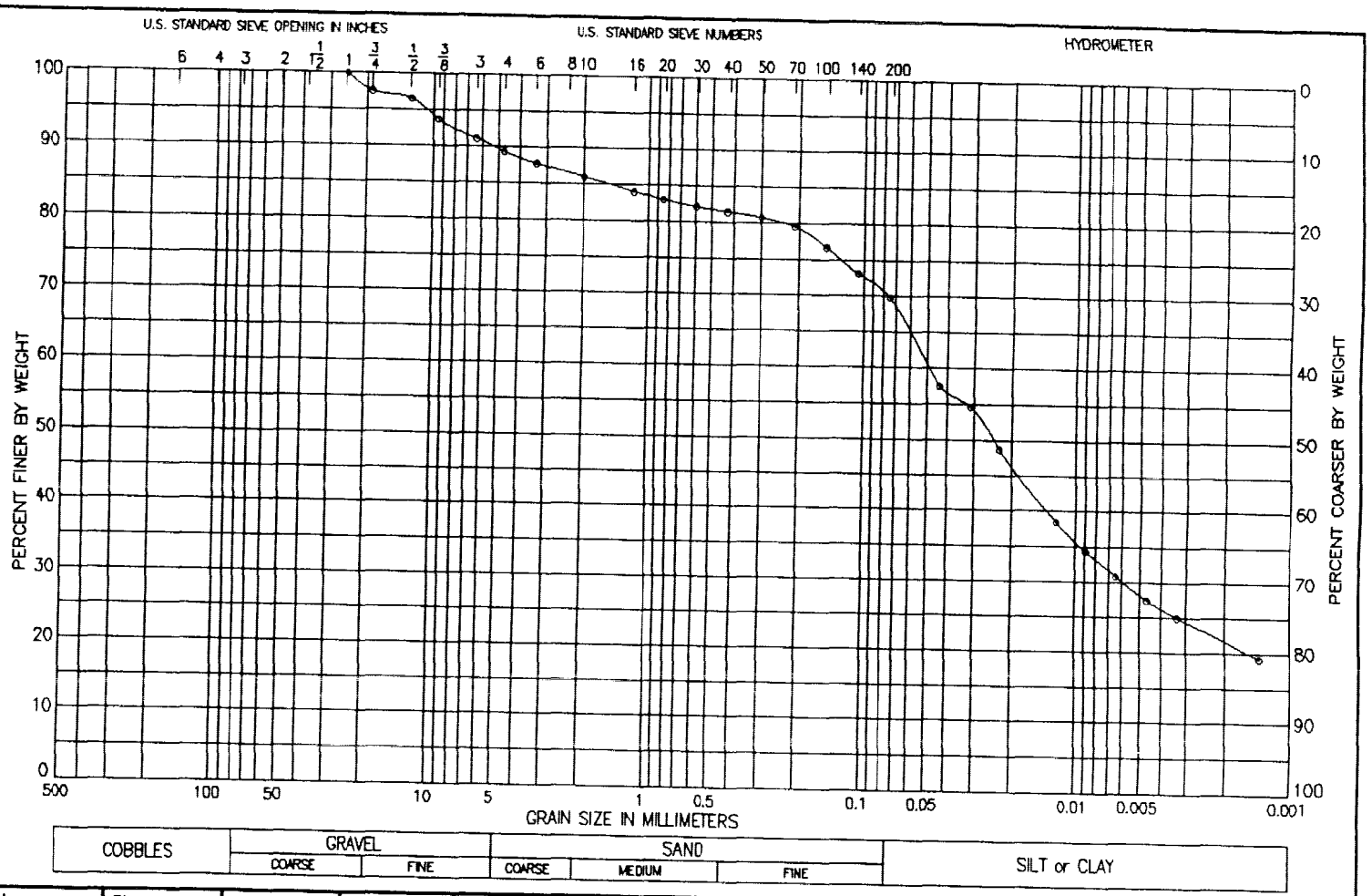
GRADATION CURVE | LABORATORY USAE WES - STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF8-87 SAMPLE NO. 1

DEPTH/ELEV 1.0' - 1.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 18.6	ORG,% 2.3

CLASSIFICATION

SANDY CLAY (CL), GRAY; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

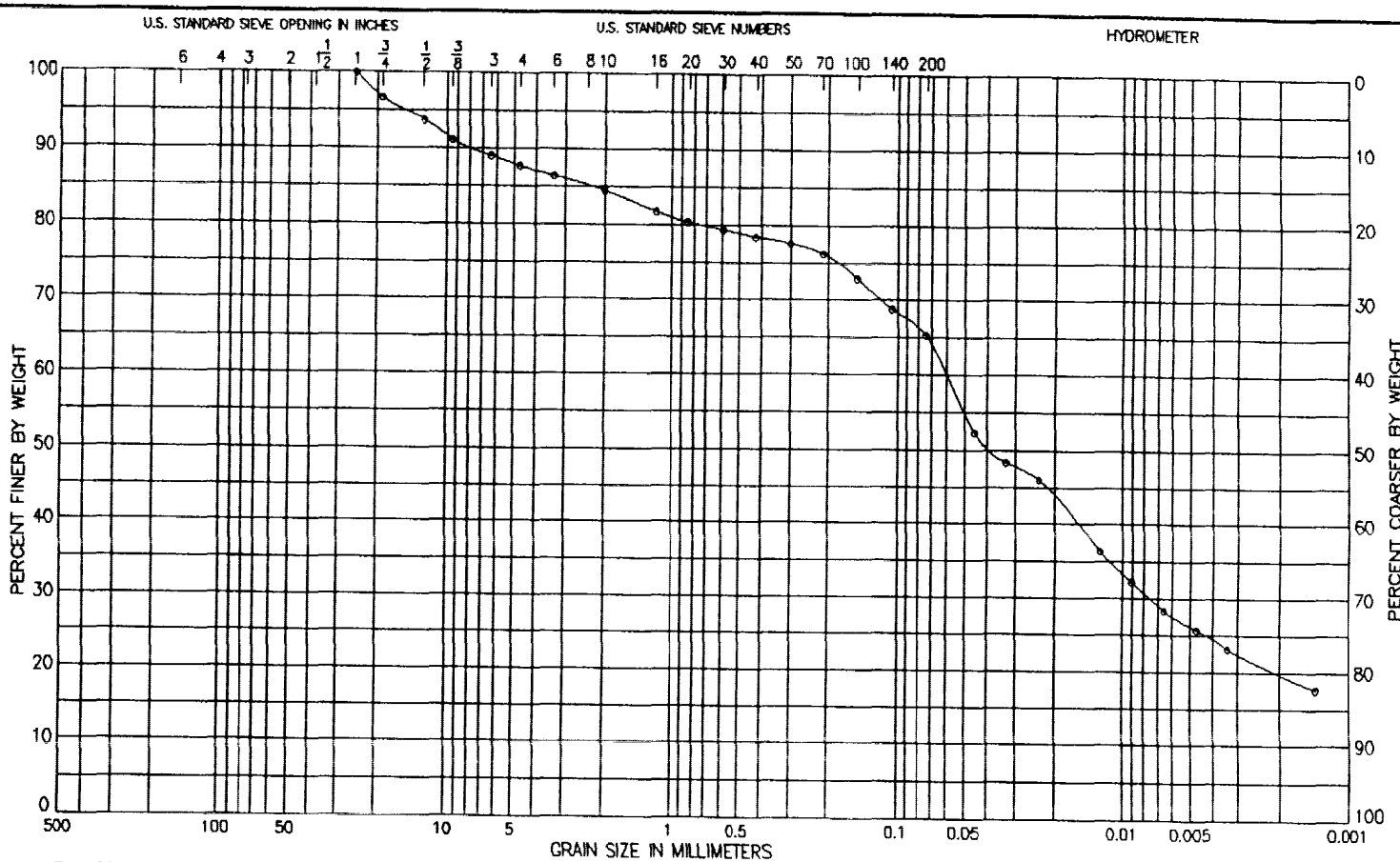
PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF8-87 SAMPLE NO. 2

DEPTH/ELEV 2.5' - 3.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



COBBLES	GRAVEL		SAND			SILT or CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LL	PL	PI	GS 2.70 EST	NAT W,% 20.4	ORG,% 2.5

CLASSIFICATION

GRAVELLY SANDY CLAY (CL), GRAY

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

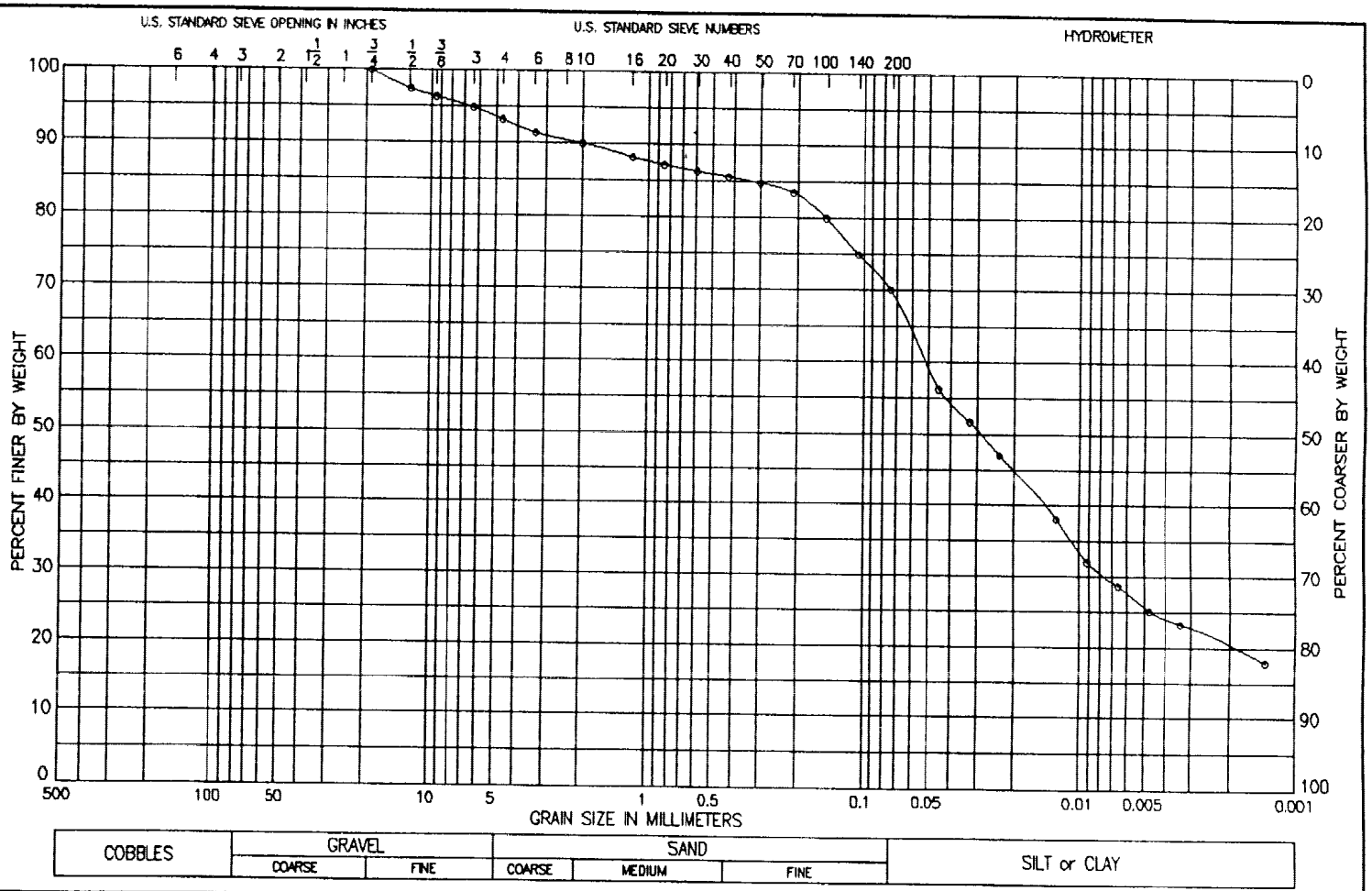
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF8-87 SAMPLE NO. 3

DEPTH/ELEV 4.0' – 4.5' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,% 19.7	ORG,% 2.7

CLASSIFICATION

SANDY CLAY (CL), GRAY; WITH GRAVEL

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

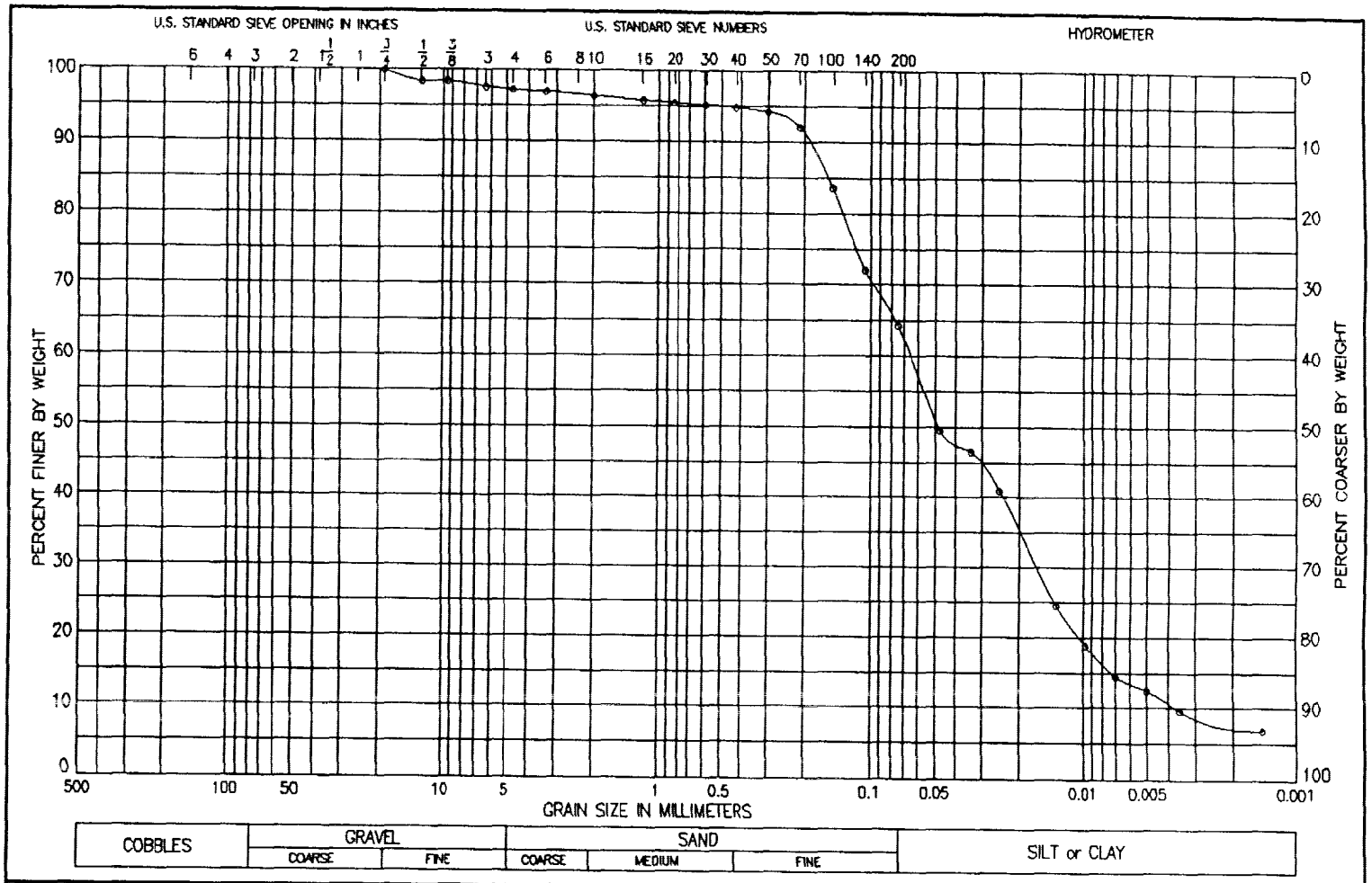
PROJECT ABG

CRANE, IN

BORING NO. WES-3-VF8-87 SAMPLE NO. 4

DEPTH/ELEV 5.5' – 6.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 18.0	ORG,% 2.0

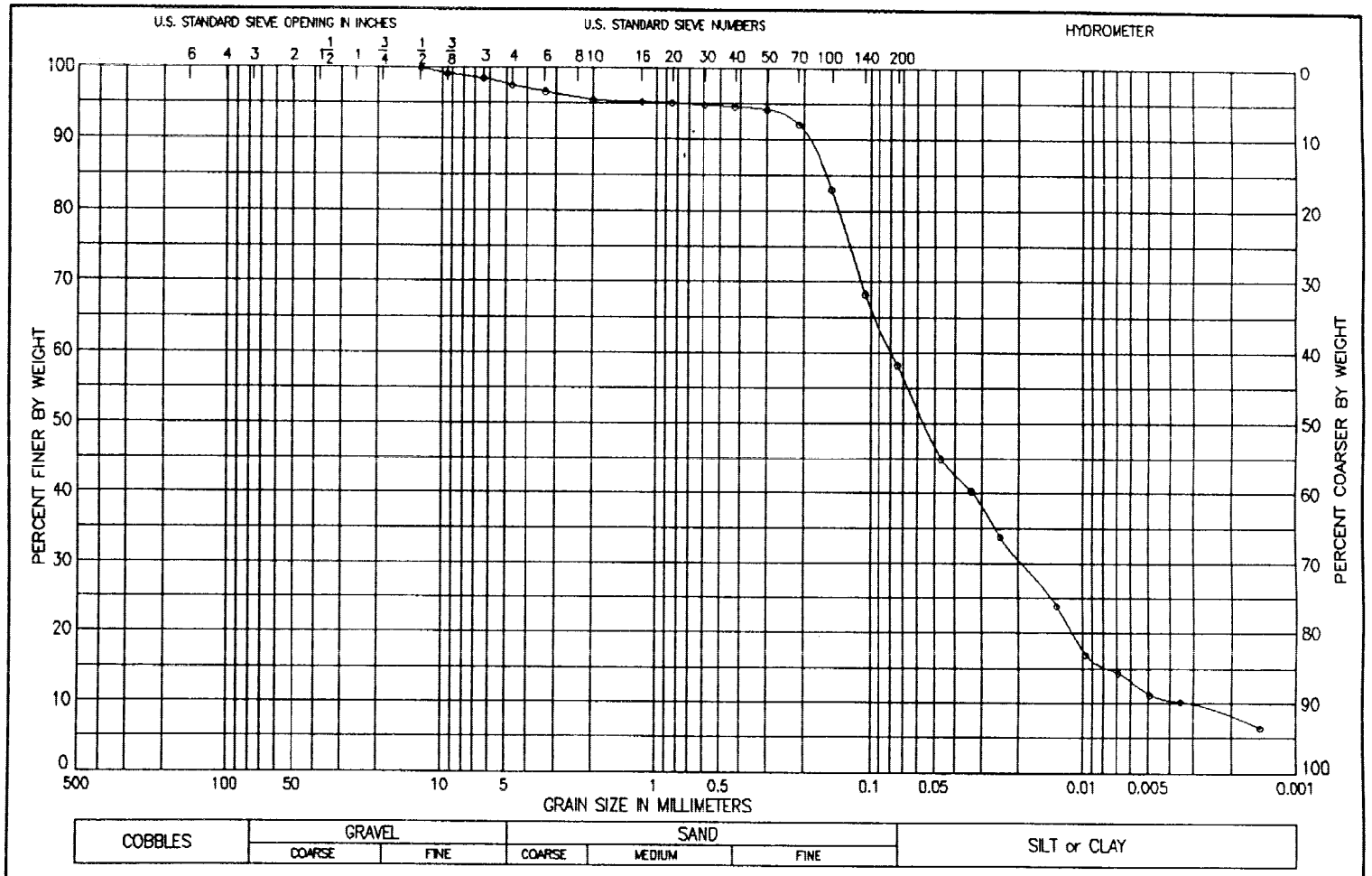
CLASSIFICATION
SANDY CLAY (CL), GRAY

PROJECT ABG
CRANE, IN

BORING NO. WES-3-C26-86 SAMPLE NO. 1

DEPTH/ELEV 2.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL

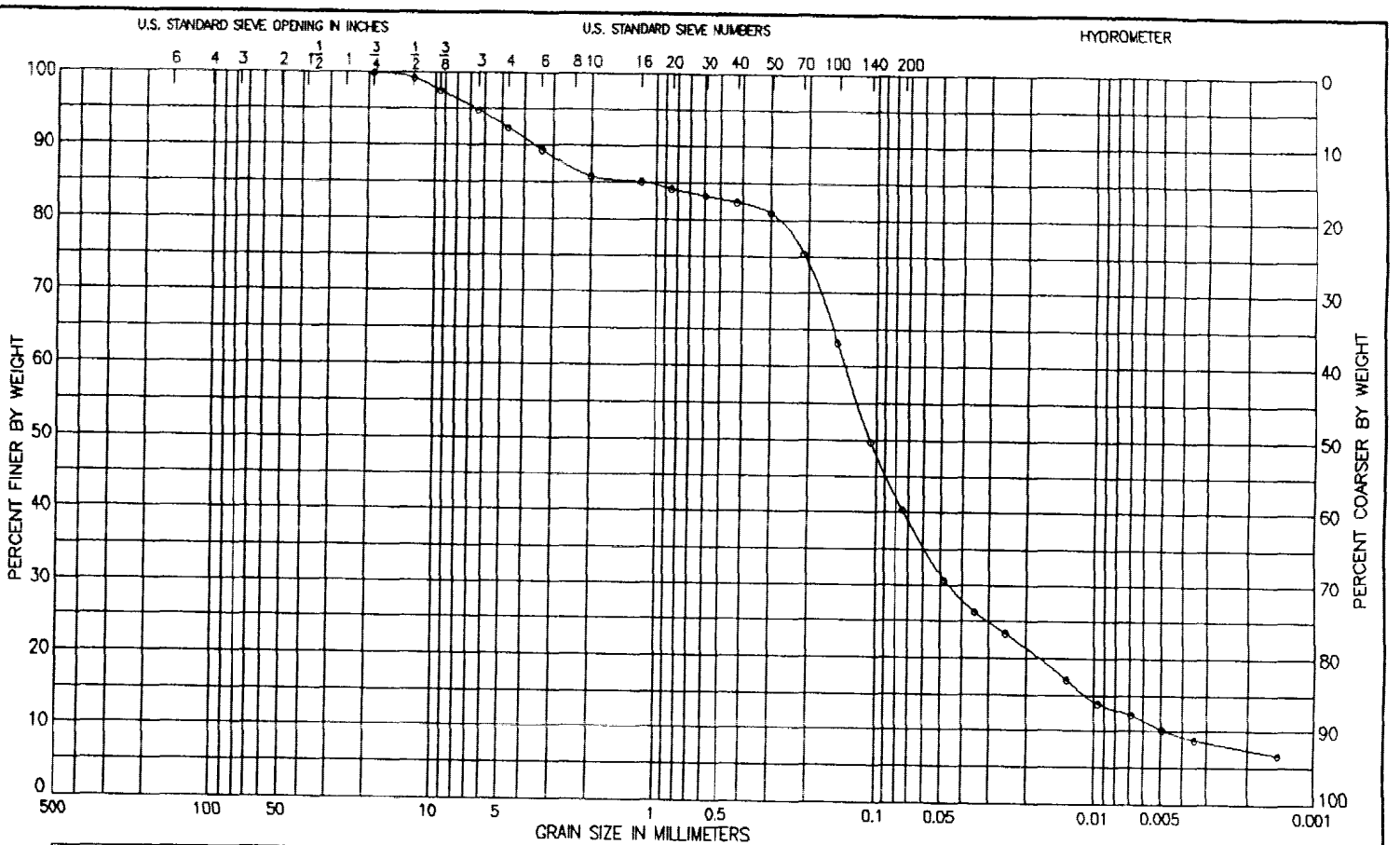


LL	PL	PI	GS 2.70 EST	NAT W,% 16.7	ORG,% 2.0

CLASSIFICATION
SANDY CLAY (CL), BROWN

GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-C26-86 SAMPLE NO. 2
DEPTH/ELEV 3.0' DATE 04 MAR 91

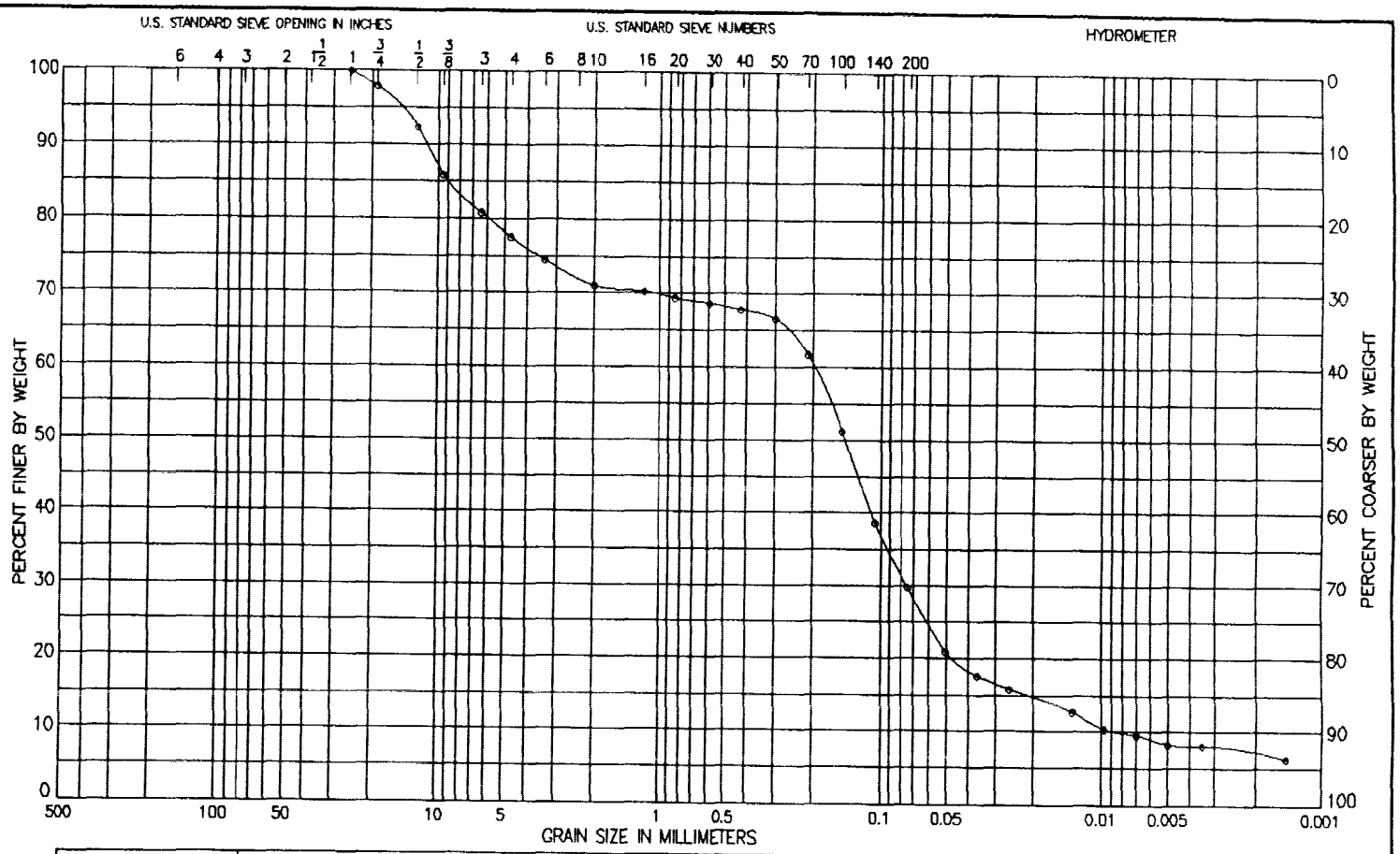


LL	PL	PI	GS 2.70 EST	NAT W,% 19.0	ORG,% 2.0

CLASSIFICATION
CLAYEY SAND (SC), BROWN; WITH GRAVEL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-C26-86 SAMPLE NO. 3
DEPTH/ELEV 4.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES - STF/GL



LL	PL	PI	GS 2.70 EST	NAT W,% 19.6	ORG,% 1.5

CLASSIFICATION

GRAVELLY CLAYEY SAND (SC), BROWN

INSUFFICIENT SAMPLE FOR ACCURATE GRADATION

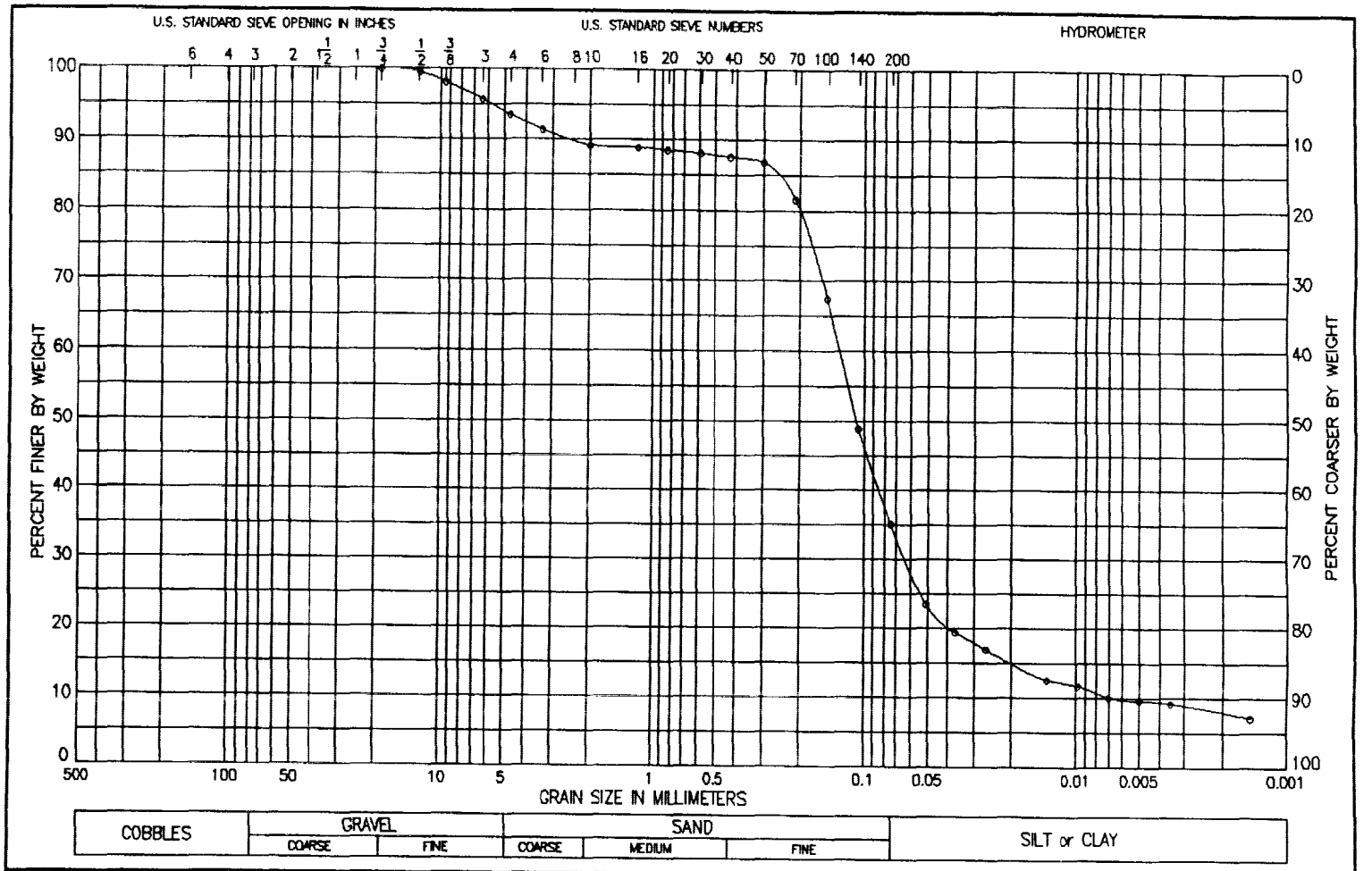
GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG

CRANE, IN

BORING NO. WES-3-C26-87 SAMPLE NO. 5

DEPTH/ELEV 6.0' – 7.0' DATE 04 MAR 91

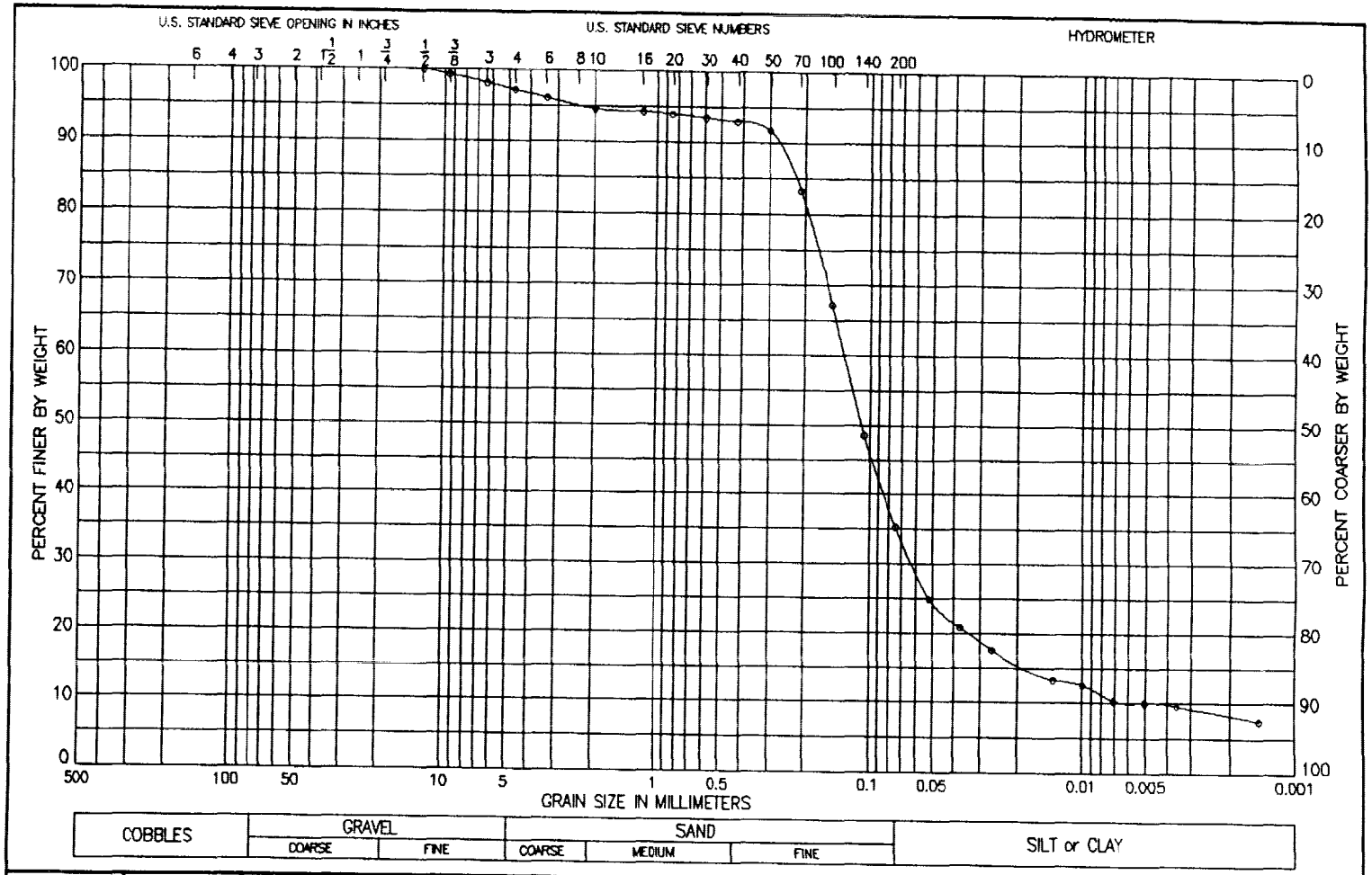


LL	PL	PI	GS 2.70 EST	NAT W,% 22.3	ORG,% 1.9

CLASSIFICATION
CLAYEY SAND (SC), BROWN; WITH GRAVEL

GRADATION CURVE | LABORATORY USAE WES – STF/GL

PROJECT ABG
CRANE, IN
BORING NO. WES-3-C26-86 SAMPLE NO. 6
DEPTH/ELEV 8.0' DATE 04 MAR 91



LL	PL	PI	GS 2.70 EST	NAT W,%	ORG,% 1.5

CLASSIFICATION
CLAYEY SAND (SC), BROWN

PROJECT ABG
CRANE, IN

BORING NO. WES-3-C26-86 SAMPLE NO. 7

DEPTH/ELEV 9.0' DATE 04 MAR 91

GRADATION CURVE | LABORATORY USAE WES – STF/GL

Appendix E
Boring Logs and Well Data for New ABG Wells

Hole No. WES-3-34-89

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane Ind	SHEET 1 OF 10 SHEETS

1. PROJECT Hydrogeologic Studies, ABG Site	10. SIZE AND TYPE OF BIT HQ wireline core
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) 3-34C	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 8/3/89 COMPLETED 8/11/89
7. THICKNESS OF OVERBURDEN 4.0	17. ELEVATION TOP OF HOLE TOC = 727.07
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 193.9'	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 - med firm, moist	Auger		0.0-4.0 Augered
	2					Set 8" surface PVC Casing to 4.0'
	4		(4.0)	4.0		
			Silty Sandstone, tan + lgr mottled, v.f. mass, oxidized			4.0-11.0 - R.R. Bit
	6			Roller		
				Rock		
	8			Bit		
	10					
				11.0		
				Run 1		Started coring w/ HQ wireline at 11.0'
	12		(12.0')			
			Silty Claystone lgr w/y tan mottling, mass, oxidized along bdd Jts, hd, weathered.			
	14			7.1-8.0	Rec Run	
	16			~~-0.1~~	Loss of Gain	
				-0.2		
	18		Clayey SS, olive tan + lgr, f-m, highly oxid	18.3		- pull depth
				19.0		
				Run 2		
	20					

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

Hole No. WES-3-34C-89

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) 3- 34C	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					
				4.9/4.6		
	22		Clayey SS (as above)	~~Pg2~~ +0.7		23.2 pull depth
			(23.6')	23.6		
	24		Shaley Sandstone, Highly Burrowed. Hd Gr w/yBr lim stn, mass, occ lim Crusting	Run 3		
	26					
				10.4/10.0		
	28					
	30			~~+0.4~~		
	32					
				33.6		
	34			Run 4		
	36					
				9.9/10.0		
	38					
	40			~~-0.1~~		

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

Hole No. CWES-3-34C-89

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) 3-34C	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		Shaly Burrowed SS (cont)			
	42					
			(44.9')	43.6 Run 5		43.5 pull depth
	44		Sandstone 1 buff-tan & 1 Gr, rippled w/ alter d Gr shly pts spaced 1/4" to 2" apart ~ hor along ripples vf, carb flakes along bd.			
	46					
	48			10.1 / 10.6		
	50			44.1		
			Base oxid at 51.4'			
	52					
	54			53.6 Run 6		
			(55.2)			
	56		Sandstone m olive Gr w/ occ d Gr sh pts & thin lens, vf rippled.			Started losing ~ 50% water return in Run 6
	58			10.0 / 10.0		
	60					

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

Hole No. WE:-3-34C-89

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) 3-34C	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		SS (Cont.)			
			(61.1)			
			Shale, dGr w/occ lGr SS lens, micaceous, carb (62.1)			
	62		Sandstone w/alter sh lens, rippled (as above) but more shaley.	63.6		
	64			Run 7		PENN
			unconformity (65.4) Contact			Miss.
	66		(Hardinsburg Fm)	6.4 / 6.7		Reamed hole & set 6" dia PVC Casing to 70.0' Grouted to Surface.
	68		Shale, Gn, mass, hd crumbly, changes to th bd & gnGr w/depth w/s'sides	-0.3		
	70			70.3		
				Run 8		Aug 7, 1989
	72			2.9 / 3.3 -0.4		
				73.6		
	74		drBr claystone, hd.	Run 9 1.7 / 1.9 -0.2		Blocked
				75.5		75.3 pull depth
	76			Run 10		
	78			8.1 / 7.9 +0.2		
	80					

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

Hole No. WES-3-34c-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) 3-34c	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.)			
	82		(occ dred claystone zones)			
				83.4		
	84			Run 11		
			(85.7')			
	86		Calcareous Sandstone 1Gr tan th bd w/ num olive Gr - dGr, rippled shale pts; vF-f, md dense; carb flakes along Sh pts. oxidized			
	88			7.2 / 9.9		
				~~7.7~~		Lost all water return at ~89.0'
	90			2.4		
	92		(vert jt - lim + clay stn solution surface, open jt - water loss zone)			
				93.3		93.0 Pull depth
	94			Run 12		
				5.0 / 4.7		
	96			~~4.3~~		
	98			98.0		No water return
				Run 13		
	100					

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

Hole No. WES-3-34C-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) 3-34C	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		SS (cont.)			
				5.0/5.5 (0.5)		
	102					
			Shale, dGr, th bd, slick 103.6	103.5		(No water return)
	104		(Golconda/Haney fm) 104.0	Run 14		(Base Hardinsburg fm 104.0')
			Shaley LS - Limey Sh, dGr, th bd, hd, fossiliferous	3.2/3.7 (0.5)		
	106					Blocked
				107.2		
				Run 15		
	108					
				4.5/5.0 (0.5)		
	110	90	LS, grBr, mass, very fossiliferous (Crystalline) (Bot - Golconda/Haney)			Blocked
			(Indian Sprs. member)	111.2		
				Run 16		
	112		Shale, vdGr, th bd, platy, carb flakes along bd, occ carb pts (occ lGr sdy pts in top ft)	1.7/2.4 (0.7) (0.2)		113.1 - Pull depth
				113.6		
	114			Run 17		
				5.7/5.2'		
	116					
				~~+0.5~~		Reamed hole & set 4" PVC casing to 118.8'; Through the 6" PVC upper cased portion of hole.
	118			118.8		
				Run 18		
	120					

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

Hole No. WES-3-34C-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) 3-34C	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		Sh (cont.) (Below ~119.5 sh changes to m-d grGn, mass, crumbly			8/10/89
				4.7/4.7		100% water return
	122					
				123.5 Run 19		
	124					
		10	(oxid in bot 1.0')			
	126	5	(Base of Ind. Spr's 126.6')			
			(Top of Big Cliffy SS)			
		5	Sandstone, m olive tan, mass, vf, sli friable, oxidized	10.1/10.1		
	128					
		15				
	130					Lost all again at ~131.0'
	132	20				
		80		133.6 Run 20		
	134					
	136					
		5				
		5	Lim	9.9/10.0		Started getting back ~50% water return; reducing to ~25% in Run 20
	138					
		80		~0.1		
	140					

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

Hole No. WES-3-34C-89

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) 3-34C	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					
				143.6		
	144			Run 21		
		45°	Lim sh			
	146					
		0				
	148	0		10.0/10.0		~ 25% water return
	150					
		0				
	152					
		0		153.6		
	154			Run 22		
						Lost all water return for good at ~ 55.0'
	156					
		0		9.5/10.0		
	158	0				(Several) zones of soft drilling)
		0				
		0		-0.5		
	160					

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

PROJECT | HOLE NO.

Hole No. WES-3-34C-89

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) 3-34C	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		Sandstone Cont			
			(Base Big Clifty fm) 161.9			
	162		(Top Beech Creek Ls)			
			Limestone, mgr-Br, m-c crystalline, fossiliferous, vhd + dry, Lim + clay stain along Jts.	163.6 Run 23		Flows
	164					St. in Bed with are stained, minor Solution
	166		Lower half of fm becomes finer crystalline + m Gr - GrBr.			
	168			8.6 / 8.6		
	170					
	172			172.2 Run 24		
	174					
	176			7.2 / 7.7		
	178			-0.5		
	180			179.9		179.6 Full depth

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

PROJECT | HOLE NO.

Hole No. WES-3-34-89

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) 3-34c	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.)	Run 25		
				2.6/2.3		
				+0.3		
	182			182.2		
				Run 26		
	184			4.7/5.0		
				-0.3		
	186					(Ls shows solutioning at contact)
			(Bear Beach Creek Ls) 187.4	187.2		
			(Top Eleuran fm)	Run 27		
	188		Shale of Gn, mass, hard			
	190			4.2/6.7		
				-2.5		
	192					
				193.9		
	194		Bot Depth - 193.9'			

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

PROJECT | HOLE NO.

Hole No. WES-3-34C-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) 3-34C	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-3-34C-89			Date well screen was set: 8/11/89
			+2.5			
			0.0 Ground Surface			
			Grout mixture			Water level just Prior to setting Screen. –
			122.0			
			Bentonite Pellets			
			126.0			Set casing to 118.8'
			Filter Pack			
			177.5			
			Well Screen			
			187.5			
			Trap			
			188.5			
			193.9 Boring Depth			

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

Hole No. WES-3-35C-89

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane Ind	SHEET 1 OF 9 SHEETS
1. PROJECT Hydrogeologic Studies ABG Site		10. SIZE AND TYPE OF BIT HQ wireline core	
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 150U	
4. HOLE NO. (As shown on drawing title and file number) 3-35C		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 8/12/89 COMPLETED 8/19/89	
7. THICKNESS OF OVERBURDEN 5.9		17. ELEVATION TOP OF HOLE TOC = 697.00	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING %	
9. TOTAL DEPTH OF HOLE 177.7		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 Br, w/ss frags, firm			
	2			Auger		
	4					Set 8" dia PVC casing to 5.9'
	6		claystone/clayshale Br & Gr mot, highly oxidized, th bd.	5.9		
	8			R. R. Bit		
	10			10.0' Run 1		Started coring at 10.0' w/HQ wireline
	12			5.4/7.2		
	14			-1.8'		
	16			17.2 Run 2		
	18			3.9/5.5 -1.6		
	20					

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

Hole No. WES-3-35C-89

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) 3-35C	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		Clay shale (Cont)			
						Started losing ~20% water at 21'
	22		Lignite, Blk			
			Sandstone, y Br-Tan, mass, cross bd, f, highly oxid, hd, sli friable	22.7 Run 3		
	24					
	26					
				7.6/10.0		
	28					
				2.4		
	30					rods dropped fast ~1½ to 2.0, at ≈ 30.0'
			(Mansfield Fm)			
			unconformity 32.0'			PENN
	32		(Glen Dean Fm)			MISS
			Limestone, mgr Br f crystalline, oolitic, v hd + dense, occ Stylolite, solutions evident along str + at top	32.7 Run 4		Flange
	34					
	36		dGr in bot ft. (36.5')			10-20% water return
			Laminated lGr SS + dGr-Blk sh, w/ rippled bd, carb flakes along bd, occ pyrite nodule, + occ siderite lens	9.8/10.0		
	38			0.2'		
	40		(Hardinsburg Fm)			

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

Hole No. ~ES-3-35C-89

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) 3-35C	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 + sh (Cont)			
	42			42.7 Run 5		8/14/89
			More shaley below ~43.0'			
	44					
	46			9.8 / 9.8		
	48					
	50					~ 20% water return
	52			52.5 Run 6		
			(53.2) Shale dGn, becoming dGn Gr w/depth, mod hd, crumbly			
	54			4.6 / 4.8		
				-0.2		
	56			57.3 Run 7		
	58			3.6 / 5.4		
				-1.8		
	60					

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

Hole No. WES-3-35C-89

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) 3-35C	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		Sh (Cont.)			
	62		dbr Red mottling	62.7 Run 8		
	64					
	66			10.0/10.0		
			Shale becomes dGnGr, th bd flaky			
	68					
	70					~25-40% water return
	72			72.7 Run 9		
			Limestone, Gr			
	74					
	76			5.5/6.6		
			Limestone, Gr	1.1		
	78			78.8 Run 10		Blocked 8/15/89
	80					

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

Hole No. WES-3-35C-89

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) 3-35C	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.)	3.3 / 3.9		
			Limestone, Gr	-0.6		
	82		Limestone, Gr	82.7		
				Run 11		
	84		(Base Hardinsburg Fm) 84.9	4.0 / 4.3		
			(Top Golconda/Haney Ls)			
			(Shaley)			
	86		Limestone mGr-grBr, med crystalline, fossiliferous, hd, v hd + dense.	-0.3		
				87.0		
				Run 12		
	88					~ 20-30% return
	90			5.6 / 5.7		
				-0.1		
	92		Shaley Ls	92.7		
				Run 13		
	94					
	96			8.6 / 8.7		
	98			-0.1		
	100					

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

Hole No. WES-3-35C-89

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) 3-35C	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		Paso Colorado / Kanaa Ls (100.7') (Lindon Spgs Shale) (Big Clifty)			
				101.4		Blocked
	102			Run 14 ~~15~~ 1.3 102.7		
				R.R. B.T.		Reamed hole to 105.0' & set 4" PVC casing.
	104		104.0' (Big clifty SS)			
			Sandstone Buff mass, lt Tan - vf, oxidized ripples, sli friable, hd.	105.0 Run 15		8/18/89
	106	0				
				6.4		
	108	0		7.5		
				-0.9		
	110	50				
	112	45		112.5 Run 16		
	114	60 65				
	116	39		9.8 10.0		
				-0.2		
	118	60				
	120					

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

PROJECT | HOLE NO.

Hole No. WES-3-35C-89

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) 3-35C		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.)			Lost all water return at ~120.5'. Note: (The water never returned; bot of boring ~122.7')
	122			122.5 Run 17		
	124					
	126			9.6/9.6		
	128					
	130					
	132			132.1 Run 18		
	134					
	136			9.4/9.4		
	138					
	140					

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

PROJECT | HOLE NO.

Hole No. WES-3-35C-89

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) 3-35C	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		SS (cont)			
			(Base Big Clifty fm)	141.5		
			(Top Beech Creek Ls)	Run 19		8/19/89
	142		Limestone, Gr Br, m-c crystalline v hd, v den, fossiliferous	4.1 / 4.2 -0.1		
	144					
			clay filled	145.7		
	146		Jts are sealed	Run 20		
				3.0 / 3.0		
	148			148.7		
			healed jts	Run 21		
	150			4.0 / 4.0		
	152			152.7		
			Changes to d Gr f crystalline w/ occ heavy shaley pts in lower half	Run 22		
	154					
	156			10.0 / 10.0		
	158					
	160					

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

Hole No. WES-3-35C-89

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) 3-35C	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		stn LS (Cont.)			
	162			167.7 Run23		
	164					
	166		stn. Sts	10.0 / 10.0		
	168					
	170					
	172			172.7 Run24		
	174		Limestone Conglomerate (Bot. Beach Creek) 174.4 (Top Elwren Fm)			
	176		Shale, dGn mass hd, occ pyrite nodules, after 4th 1Gr sdy lens & pts below ~20' & increasing in frequency w/depth.	4.0 / 5.0 -1.0' 177.7		
	178		Bot. Depth 177.7'			
	180					

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

PROJECT | HOLE NO.

Hole No. WES-3-35C-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) 3-35C	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-3-35C-89			Date well screen was set: 8/19/89
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting Screen. –
			108.0			
			Bentonite Pellets			
			112.0			
						Set Casing to 165.0'
			Filter Pack			
			164.5			
			Well Screen			
			174.4			
			Trap			
			175.5			
			172.7 Boring Depth			

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

Hole No. WES-3-36C-89

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC, Crane In.	SHEET 1 OF 10 SHEETS

1. PROJECT: Hydrogeologic Studies, ABG Site
2. LOCATION (Coordinates or Station):
3. DRILLING AGENCY: WES
4. HOLE NO. (As shown on drawing title and file number): 3-36C
5. NAME OF DRILLER: Dan Taylor
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 1.1
8. DEPTH DRILLED INTO ROCK:
9. TOTAL DEPTH OF HOLE: 183.1
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 8/25/89 COMPLETED 9/6/89
17. ELEVATION TOP OF HOLE: TOC = 718.74
18. TOTAL CORE RECOVERY FOR BORING %
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, yBr. w/ cs frags	Augered 1.1'		Note: Approx. 3 to 4 feet of soil was cut away by dozer in leveling site for drill rig set-up.
	2		Sandstone, yBr mass-thbd, rippled w/residual clayey wea zones in top, highly oxid. w/ occ bm crustings Sli friable. occ clay lens (wea sh)			
	4			R.R. Bit		0.0' to 1.1' - Augered
	6					
	8					
	10			10.2		
				Run 1		Started coring w/HQ wireline at 10.2'.
	12					
	14			6.7/7.0		
				0.3		
	16			0.0		
				16.9/17.2		Pull depth
	18					
	20			5.9/5.6 +0.3		

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

PROJECT | HOLE NO.

Hole No. WES 3-36C-89

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) 3-36C	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		20.4			
			Sandstone, l buff, w/ltr lGr claystone pts along rippled bd.			
	22					
				23.1		
	24					
	26		olive claystone (26.4)			Started loosing ~20% water return
			Sandstone, ytan, w/occ lGr claystone lens in top 3.0', becoming mass f-m grn clean otz SS in lower zone, sli fria, rippled, lim + mang stn along bd + jts	10.0/10.0		
	28					
	30					
	32					
				33.1		
	34					
	36					
				8.3/10.0		
	38					
				-1.7		Lost all water return at ~40.0'
	40					

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

Hole No. WES-3-36C-89

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) 3-36C	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)			
	42			43.1		
	44		44.3 (Glen Dean Fm.) Limestone			PENN 44.3' unconformity MISS (No water return)
	46			9.0 / 10.0		
	48			-1.0		Core loss accumulated along solution sts
	50					
	52			53.1		
	54					
	56			5.1 / 5.2 -0.1		
	58		highly oxid in Bot w/soln (58.2) Sandstone, 4 Br w/soln shaley pts, highly oxid (Hardinsburg Fm)	58.3 3.5 / 4.4 -0.9		
	60					

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

Hole No. WES-3-36C-89

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) 3-36C	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					
	62		62.0 Shale/claystone, mGn, mass, hd	62.7		
	64			1.9/2.0 -0.1		
			65.0' Shaley sandstone - sdy shale, mGr-grGn, th bd rippled, hd	64.7		
	66					
	68			5.9/7.5		(Core b/ blocking off and grinding core away)
	70			-1.6		
	72		72.0 Shale/claystone, dkRd w/ Gn mottling, mass hd	72.2 1.2/1.8 -0.6 74.0		
	74					
	76			3.5/4.4 -0.9		
	78			78.4		
	80		80.1'	2.4/3.4 -1.0		

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

PROJECT HOLE NO.

Hole No. WES-3-36C-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) 3-36C	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, Br-y Gr, highly fossiliferous, oxid 81.3			Rods dropped ~0.5'
	82		Calcareous Sandstone lgr tan, th bd, occ. olive gr rippled shaley pt, oxidized in upper zone, hd, dense vf-F	81.8 2.5 2.9 -0.4 0.0 84.7		84.3 Full depth 2/28/89
	84					
	86			3.9 3.5 +0.4		
	88			88.2		
	90		not oxidized in lower zone	4.1 4.9 -0.8		
	92		93.3	93.1		
	94		Shale, dGr w/ Gn bd, th bd, soapy, occ Sdy Ls lens.	1.7 1.9 -0.2 95.0		
	96		(Bot. Hardinsburg) 97.3			
	98		(Golconda/Haney Fm.) Shaley Ls - Limey Sh dGr, th bd, fossiliferous, hd	6.8 8.1 -1.3 0.0		
	100					

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

Hole No. WES-3-36C-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) 3-36C	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		Shly Ls (Cont.)			
	101.8			101.8		Pull depth
	102			103.1		
	104			3.9 / 2.6 + 1.3		
				105.7		
	106		Crystalline Ls, v hd, v den			
	108			5.4 / 5.7		
			(Base of Colorado/Morrow) 108.3			
			(Top Indian Springs)	-0.3		
	110		Shale, d Gr - GnGr, mass, hd, crumbly (dry)			
				111.1 / 111.4		Pull depth
	112			2.3 / 2.0 + 0.3		
				113.4		
	114			1.0 / 2.3 - 1.3		Reamed hole & set 4" PVC Casing
				115.7		
	116					9/5/89
						(Regained water return)
	118			6.1 / 7.4 - 1.3'		
	120					

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

Hole No. WES-3-36C-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) 3-36C	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		Shale (Cont.)			
			(Bot Ind Sparr Sh) (121.9') (Top Big Cliffy SS)			
	122		Sandstone, lt Br Buff, mass, oxid, sli friable, hd, occ small vugs, vf	123.1		
	124					
	126					
				10.0 / 10.0		
	128					Lost all drill water at ~ 129.0'
	130					
	132					
				133.1		
	134					
	136			9.9 / 10.0		Core in long unbroken segments
	138					
	140					

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

Hole No. WES-3-36C-89

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) 3-36C	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					
				143.1		143.1 — Full depth
	144					
	146					
				10.0 / 10.0		
	148					
	150					
	152		gypsum crystals along Jt.			
				153.1		53.0 Full depth
	154		mamon stn			
			(Base Big Clifty SS) 155.8'			
	156		(Top Beech Creek Ls)			
			Limestone, 1-m gr Br, Mass, m-c crystalline fossiliferous, v hd + dense, mostly shows bd jts + all show stn + evidence of solutioning.	10.1 / 10.0		
	158					
	160					

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

Hole No. WES-3-36C-89

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) 3-36C	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
	160		Ls (cont.)			
	162		Ls m-dGr w/ occ wavey shly pts.	163.1		
	164					
	166					
	168			10.0 / 10.0		
	170					Jts show solution & are stn'd
	172		stn	173.1		
	174			2.8 / 2.8		
	176			175.9		3 locked
	178			3.1 / 3.1		
	180		(Bass Beach Creek Ls) 179.0' (Top Ekron Sh) Shale, Gn, mass, hd.	179.0		3 locked

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

PROJECT | HOLE NO.

Hole No. WES-3-36C-84

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) 3-36C	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		Sh (cont.)	3.7/4.1		
	182			0.4		
				183.1		
			Bot. of Hole – 183.1'			
	184					
	186					
	188					
	190					
	192					
	194					
	196					
	198					
	200					

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

PROJECT | HOLE NO.

Hole No. WES-3-36C-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) 3-36C	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-3-36C-89			Date well screen was set: 9/6/89
			+2.5			
			0.0 Ground surface			
			Grout mixture			Water level just prior to setting screen. –
			118.0			
			Bentonite Pellets			
			121.0			Casing set to 115.7'
			Filter pack			
			169.0			
			Well Screen			
			179.0			
			Trap			
			180.0			
			183.1 Boring Depth			

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

Hole No. WES-3-37C-89

DRILLING LOG	DIVISION US. Navy	INSTALLATION NWSC Crane, In.	SHEET 1 OF 6 SHEETS

1. PROJECT Hydrogeologic Studies, ABG	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) 3-37C	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 9/9/89 / COMPLETED 9/21/89
7. THICKNESS OF OVERBURDEN 1.5'	17. ELEVATION TOP OF HOLE TOC = 620.28
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 116.7	19. SIGNATURE OF ~~INSPECTOR~~ GEOLOGIST Richard W. Kent

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 w Br (wea shale)			The upper 3' of original soil had been removed by dozer in leveling drill site. material consisted of silty clay w/ss; float from Penn sediments lying higher upslope.
			1.5	Auger		
	2		Shale Gn-olive Gr w/ Red mottling, Soft crumbly, (Hardinsburg Fm.)			
	4			4.0		
	6			R.R. Bit		
	8					
	10			10.7		
				Run 1		
	12					
	14			2.9/7.6		
			~15.0'	-4.7		
	16		Shale olive Gr - olive th bd w/ alt sdy pts, more silty + thicker ss lens w/depth			
	18			18.3		
				Run 2		Hole caving
	20			2.6/3.3 -0.7		

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

PROJECT | HOLE NO.

Hole No. WES-3-37-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 6 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) 3-37C	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		Shale (cont.)			Reamed hole & set 6" PVC casing to 21.6'
				21.6		
	22			Run 3		9/11/89
				3.5/5.1		
	24			-1.6		Lost all water return at ~27.0'
	26			26.7'		
				Run 4		
	28					
	30			4.4/6.8		
				-2.4		
	32		Limestone (Golconda/Honey), lt. Br., oxidized, vhd + den, fossiliferous, solution evident along jts	33.5		
				Run 5		
	34			1.2/2.4		
			(Base of Gol/Honey) 35.6	-1.2		
			(Top Ind. Spr Sh)	35.9		
	36		Shale, olive in top 2-3' becoming d Gr w/depth th bd w/ Carb flakes along bd, fissile	Run 6		
				2.4/2.4		Reamed hole & set 4" PVC casing to 38.3'.
	38			38.3		
				Run 7		9/18/89
				1.1/2.1		
	40			-1.0		

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

PROJECT | HOLE NO.

Hole No. WES-3-37C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 6 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) 3-37C	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.)	40.4		
				Run 8		
				2.0 / 3.1		
				-1.1		
	42			43.5		
				Run 9		
	44			0.8 / 1.7		Core bl keeps blocking
				-0.9		
				45.2		
				Run 10		
	46			0.8 / 1.4		
				-0.6		
				46.6		
				Run 11		
	48			6.2 / 6.2		
	50					
	52			52.8		
				Run 12		
	54		Bot 5-6' olive Gr mass, crumbly.	4.5 / 4.8		
				-0.3		
	56			67.6		
				Run 13		
	58		(Base of Ind Sprs.) 58.7' (Top of Big cliffy SS)			
	60					

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

PROJECT | HOLE NO.

Hole No. WES-3-37C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 4 OF 6 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) 3-37C	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		Sandstone, yellow-olive buff, mass, rippled, vf, sli friable, oxidized			
				5.7 / 5.9		
	62			-0.2		
				63.5 Run 14		
	64					
	66					
	68			10.0 / 10.0		
	70					
	72					
				73.5 Run 15		
	74					
	76					
				10.0 / 10.0		
	78					
	80					

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

Hole No. WES-3-37C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 5 OF 6 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) 3-37C	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	40	SS (Cont.)			
	82	90	healed			
		20				
		50		83.5 Run 16		
	84					
	86	40				
	88			8.4 / 9.7		
	90			-1.3		
			Num closely spaced Sd Sts due to Collapse			Core loss is in clay filled cavity zones?
	92		Core loss zone			
		30		93.2 Run 17		
	94					
	96			6.0 / 9.1		
			(Bot Big Cliff) 97.3 (Top Beech Creek)	-3.1'		
	98	60	Limestone, m-l grBr, m Crystalline, fossiliferous, v hd + den. Solution			
	100					

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

Hole No. WES-3-3X-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 6 OF 6 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) 3-3X	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		evident on jt faces, jts seem to be open but filled w/ clay			
	102			102.3 Run 18		
	104			2.8 / 5.7 -2.9		
	106					
	108			108.0 Run 19		4" Clay + Ls frags falling in on ea Run.
			below ~ 108' Ls is darker Gr, f cryst, has occ wavy d Gr-Blk shly pts.	3.7 / 3.7		
	110					
	112			111.7 Run 20		9/21/89
				2.3 / 1.8 +0.5		
				113.5 Run 21		Flange
	114			2.5 / 3.0 -0.5		
			(Bot Beech Creek Ls) 115.5 (Top Ellaren sh) d Gr. th bd - mass hd.			Blocked
	116			116.7		
			Bot Depth - 116.7'			
	118					
	120					

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

Hole No. WES-3-37C-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) 3-37C	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-3-37C-89			Date well screen was set: 9/21/89
			+2.5			
			0.0 Ground surface			
			Grout mixture			Water level just prior to setting screen. –
			55.0			
			Bentonite Pellets			
			58.0			
						Casing set to 38.3'
			Filter sand			
			104.5			
			Well Screen			
			114.5			
			Trap			
			115.5			
			116.7 Boring Depth			

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

Hole No. WES-3-38C-89

DRILLING LOG	DIVISION US Navy	INSTALLATION NWSC Crane In	SHEET 1 OF 3 SHEETS

1. PROJECT Hydrogeologic Studies, ABG Site	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) 3-38C	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 9/26/89 COMPLETED 9/28/89
7. THICKNESS OF OVERBURDEN 4.0	17. ELEVATION TOP OF HOLE TOC = 572.97
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 55.5'	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, yBr soft, firm w/ss blocks + frags	Auger		Set sur casing to 4.0
	2					
	4		Sandstone (Big Clifty Fm) ytan mass ripped vf-f sli friable, oxidized, clay in jts	4.0		
	6			R. R. Bit		
	8					
	10			10.0		
	12	50°		Run1 4.9/5.5		Started coring at 10.0'
	14					50° Jt w/yBr clay filling 1/2-2/3 core w/ opposite side missing
	16	40°		15.5 Run2		
	18			7.9/8.0		Losing only 5-10% water return; Jts filled w/clay
	20	30°		10.1		

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

Hole No. WES-3-38C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 2 OF 3 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) 3-38C	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		clay filled + lim crusted			
	22					
				23.5		
	24			Run 3		
	26					
	28			9.9/10.0		
	30			0.1		
	32					
				33.5		
	34		Base Big Clifty fm (34.1') Top Beech Creek Ls. Limestone	Run 4		Lost all water return at top of Beech Creek (34.1')
	36			6.0/6.0		
			- ft lined w/calcite			
	38					
				39.5		
	40			Run 5		

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

PROJECT | HOLE NO.

Hole No. WES-3-38C-89

DRILLING LOG	DIVISION	INSTALLATION	SHEET 3 OF 3 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) 3-38C	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					
			stn	3.7/4.0		
	42			~0.3		
			stn	43.5		
	44			Run 6		
	46		stn and stn & clay clay clay coating			
	48			9.2/10.0		
	50		clay filled (Bot of stn sta)	~0.8'		
	52		(Base of Beech Creek) 52.7' (Top Ellwren fm)			
			Shale, Gn, mass hd, crumbly	53.5		Soft in Bot 0.8' Run 6
	54			1.7/2.0 ~0.3		
				55.5		
	56		Bot Depth - 55.5'			
	58					
	60					

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

Hole No.

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number) 3-38C
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
			Well No: WES-3-38C-89			Date well screen was set: 9/29/89
			+2.5			
			0.0' Ground surface			
			Grout mixture			Water level just Prior to setting screen –
			12.0			
			Bentonite Pellets			
			15.0			
			Filter Pack			
			43.0			
			Well Screen			
			53.0			
			Trap			
			54.0			
			55.5' Boring Depth			

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

Appendix F
Groundwater Sampling History for Ammunition Buring Ground, Anacon Data

SAMPLE ANALYSIS RESULTS

NAVWPNSUPPCEN, BLDG 2516
CRANE, INDIANA 47522
ATTN: JO BELCHER

ANACON# 7120
DATE 12-29-89

SAMPLE DESCRIPTION: 3C1 , 10-21-89 , DUPLICATE

ALL RESULTS ARE IN MG/L

TEST RESULTS:

GROUP 3

pH	8.8
SP.COND,UM/CM	809
TOC	
TOX	

GROUP 2

FE	<0.05
MN	
NA	
CA	3.5
MG	1.0
K	3.0
SULFATE	
CHLORIDE	
PHENOL	
BICARBONATE	436
AMMONIA-N	<0.1

EXPLOSIVES

TNT	<0.01
RDX	<0.01
HMX	<0.02
PCB	

GROUP 1

AS	ENDRIN
BA	LINDANE
CD	METHOXYCHLOR
CR	TOXAPHENE
PB	2,4-D
HG	2,4,5-TP
SE	RADIUM,pCi/L
AG	GROSS a,pCi/L
FLUORIDE	GROSS b,pCi/L
NITRATE-N	COLIFORM

ORGANICS

1,1,1-TRICHLOROETHANE	<0.001
TRICHLOROETHYLENE	<0.001
D-N-BUTYL PHTHALATE	<0.01
BIS(2-ETHYLHEXYL)PHTHALATE	<0.01

SUBMITTED BY

ANACON, INC.
9001 AIRPORT BLVD, #605
HOUSTON, TEXAS 77061

VOLATILES ORGANIC ANALYSIS DATA SHEET

CUSTOMER: NWSC, CRANE
SAMPLE ID: 3C1
ANACON NO: 7120

SAMPLE DATE:
REPORT DATE: 11-21-89
FILE REFERENCE NO: 3C1

ORGANICS CONT.

	CAS #	COMPOUND	AMOUNT (UG/L)	
1.	74-87-3	CHLOROMETHANE	3	U
2.	74-83-9	BROMOMETHANE	3	U
3.	75-01-4	VINYL CHLORIDE	3	U
4.	75-00-3	CHLOROETHANE	0.5	U
5.	75-09-2	METHYLENE CHLORIDE	0.5	U
6.	107-02-8	ACROLEIN	30	U
7.	67-64-1	ACETON	25	U
8.	107-37-1	ACRYLONITRILE	15	U
9.	75-15-0	CARBON DISULFIDE	1.0	U
10.	75-35-4	1,1-DICHLORDETHENE	0.5	U
11.	75-35-3	1,1-DICHLORDETHANE	0.5	U
12.	156-60-5	TRANS-1,2-DICHLORDETHENE	0.5	U
13.	67-66-3	CHLOROFORM		4.1
14.	78-93-3	2-BUTANONE	15	U
15.	107-06-2	1,2-DICHLORDETHANE	0.5	U
16.	71-55-6	1,1,1-TRICHLORDETHANE	0.5	U
17.	56-23-5	CARBON TETRACHLORIDE	0.5	U
18.	108-05-4	VINYL ACETATE	5	U
19.	75-27-4	BROMODICHLOROMETHANE	0.5	U
20.	78-87-5	1,2,-DICHLOROPROPANE	0.5	U
21.	10061-02-6	TRANS-1,3-DICHLORDPROPENE	0.5	U
22.	79-01-6	TRICHLORDETHENE		0.8
23.	71-43-2	BENZENE	0.5	U
24.	124-48-1	DIBROMOCHLOROMETHANE	0.5	U
25.	79-00-5	1,1,2-TRICHLORDETHANE	0.5	U
26.	10061-01-5	CIS-1,3-DICHLORDPROPENE	0.5	U
27.	110-75-8	2-CHLOROETHYL VINYL ETHER	0.5	U
28.	75-25-2	BROMOFORM	0.5	U
29.	108-10-1	4-METHYL-2-PENTANONE	1.0	U
30.	519-78-6	2-HEXANONE	15	U
31.	127-18-4	TETRACHLORDETHENE	0.5	U
32.	79-34-5	1,1,2,2-TETRACHLORDETHANE	0.5	U
33.	108-88-3	TOLUENE	0.5	U
34.	108-90-7	CHLOROBENZENE	0.5	U
35.	100-41-4	ETHYLBENZENE	0.5	U
36.	100-42-5	STYRENE	0.5	U
37.	108-38-3	XYLENE (total)	0.5	U

CODES: U - COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
J - ESTIMATED VALUE.
SLC - SUSPECTED LABORATORY CONTAMINANT.
SFC - SUSPECTED FIELD CONTAMINANT.

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-01	Feb-88	Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives
	Feb-89	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-01	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-03	Feb-88	Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
03-04	Feb-88	Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-04	Feb-89	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-04	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-06	Feb-88	Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives
	Feb-89	Group 2 Group 3 Explosives Organics
	Jul-89	Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Jan-91	Group 2 Group 3

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-06	Jan-91	Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-07	Jan-88	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-07	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-09	Feb-88	Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives
	Feb-89	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Group 3

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-09	Jul-89	Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-09	Jan-92	Explosives Organics
03-28	Feb-88	Group 3
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-28	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-29	Jan-88	Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives
03-30	Jul-90	Group 2 Group 3
03-31	Nov-87	Explosives Organics
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-31	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 3 Explosives Organics
03-32	Nov-87	Group 3 Organics
	Feb-88	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-32	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Dec-91	Group 2 Group 3 Explosives Organics
03-33	Nov-87	Explosives Organics
	Jan-88	Group 2 Group 3 Explosives Organics
	Jul-89	Group 2 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-33	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
03-34	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-34	Apr-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-34	Jul-90	Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-35	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-35	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-35	Oct-90	Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-37	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-37	Oct-88	Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-37	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-38	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-38	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-38	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03-39	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-39	Apr-89	Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03-39	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B01	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B01	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B01	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B02	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B02	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B03	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B03	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B03	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B04	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B04	Jul-88	Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B04	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B05	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B05	Jan-89	Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B05	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B06	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B06	Jul-88	Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B06	Jan-91	Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B07	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B07	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B07	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B08	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B08	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B08	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03B09	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B09	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B09	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
03B10	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B10	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jun-91	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03B10	Oct-91	Group 3 Explosives Organics
03C01	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01	Dec-91	Group 2 Group 3 Explosives Organics
03C01P2	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01P2	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01P2	Dec-91	Group 2 Group 3 Explosives Organics
03C01P3	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01P3	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C01P3	Dec-91	Group 2 Group 3 Explosives Organics
03C02	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C02	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C02	Jan-92	Group 2 Group 3 Explosives Organics
03C02P2	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C02P2	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C03	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C03	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C03	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C03P2	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C03P2	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C03P2	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C04	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 3
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C04	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C04	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C05	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C05	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C05	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jun-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C06	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C06	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C06	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C07	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C07	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C07	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C08A	Nov-87	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08A	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08A	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08A	Jan-92	Group 2 Group 3 Explosives Organics
03C08AP2	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08AP2	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08AP2	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C08AP3	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08AP3	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C08AP3	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C09	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C09	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C09	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C09P2	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C09P2	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C09P2	Jul-90	Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C10	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C10	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C10	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Dec-92	Group 2 Group 3 Explosives Organics
03C11	Oct-87	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C11	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C11	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C12	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C12	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C12	Jan-92	Group 2 Group 3 Explosives Organics
03C13	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C13	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C13	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C14	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C14	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C14	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C15	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C15	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C15	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C15P3	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C15P3	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C15P3	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C16	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C16	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C16	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C17	Oct-87	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C17	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C17	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jun-91	Group 2 Group 3 Explosives Organics
	Sep-91	Group 3 Explosives Organics
	Dec-91	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C18	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C18	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C18	Jan-92	Group 2 Group 3 Explosives Organics
03C19	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C19	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 2 Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C19	Sep-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C19P3	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Dec-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C19P3	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
03C20	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C20	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C20	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C21	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C21	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C21	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C21P2	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C21P2	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
03C21P3	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C21P3	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C22	Nov-87	Group 1 Group 2 Group 3 Explosives Organics

WELLNUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C22	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics

WELL NUMBER	SAMPLE PERIOD	PARAMETERS ANALYZED
03C22	Jan-90	Group 1 Group 2 Explosives Organics
	Apr-90	Group 1 Group 2 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 1 Group 2 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Dec-91	Group 2 Group 3 Explosives Organics
03C23	Nov-87	Group 1 Group 2 Group 3 Explosives Organics

03C23	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics

03C23	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Dec-91	Group 2 Group 3 Explosives Organics
03C24	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

03C24	Aug-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics

03C24	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jun-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C25	Sep-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

03C25	Aug-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics

03C25	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C26	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

03C26	Jul-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics

03C26	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C27	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics

03C27	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C27	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jun-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C28	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Jul-88	Group 1 Group 2 Group 3 Explosives Organics

03C28	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Jan-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C28	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Oct-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C29	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Jan-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics

03C29	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C29	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Sep-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C30	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics

03C30	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C30	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Sep-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C31	Oct-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Apr-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics

03C31	Oct-88	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C31	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Sep-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C32	Nov-87	Group 1 Group 2 Group 3 Explosives Organics
	Feb-88	Group 1 Group 2 Group 3 Explosives Organics
	Aug-88	Group 1 Group 2 Group 3 Explosives Organics
	Oct-88	Group 1 Group 2 Group 3 Explosives Organics

03C32	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Jan-89	Group 1 Group 2 Group 3 Explosives Organics
	Apr-89	Group 1 Group 2 Group 3 Explosives Organics
	Jul-89	Group 1 Group 2 Group 3 Explosives Organics
	Oct-89	Group 2 Group 3 Explosives Organics
	Feb-90	Group 2 Group 3 Explosives Organics
	Apr-90	Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics

03C32	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 3 Explosives Organics
	Jul-91	Group 2 Group 3 Explosives Organics
	Sep-91	Group 3 Explosives Organics
	Jan-92	Group 2 Group 3 Explosives Organics
03C34	Feb-90	Group 1 Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 1 Group 2 Group 3 Explosives Organics

03C34	Jul-91	Group 1 Group 2 Group 3 Explosives Organics
	Sep-91	Group 1 Group 2 Group 3 Explosives Organics
	Jan-92	Group 1 Group 2 Group 3 Explosives Organics
03C37	Feb-90	Group 1 Group 2 Group 3 Explosives Organics
	Jul-90	Group 2 Group 3 Explosives Organics
	Oct-90	Group 3 Explosives Organics
	Jan-91	Group 2 Group 3 Explosives Organics
	Apr-91	Group 1 Group 2 Group 3 Explosives Organics
	Jul-91	Group 1 Group 2 Group 3 Explosives Organics

03C37	Oct-91	Group 1 Group 2 Group 3 Explosives Organics
	Jan-92	Group 1 Group 2 Group 3 Explosives Organics

Appendix G
Compounds Detected in the Big Clifty/Beech Creek Aquifer

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-01	02/03/88	pH	6.98000	S.U.
03-01	02/03/88	SPECIFIC CONDUCTANCE	1016.00000	umho/cm
03-01	02/03/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03-01	02/03/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-01	02/03/88	SODIUM	9.00000	mg/L
03-01	02/03/88	SULFATE	265.00000	mg/L
03-01	02/03/88	CHLORIDE	9.00000	mg/L
03-01	02/03/88	RDX	0.02200	mg/L
03-01	02/03/88	TRICHLOROETHYLENE	0.02100	mg/L
03-01	07/20/88	pH	6.50000	S.U.
03-01	07/20/88	SPECIFIC CONDUCTANCE	873.00000	umho/cm
03-01	07/20/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03-01	07/20/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-01	07/20/88	RDX	0.02000	mg/L
03-01	02/24/89	pH	7.40000	S.U.
03-01	02/24/89	SPECIFIC CONDUCTANCE	935.00000	umho/cm
03-01	02/24/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-01	02/24/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-01	02/24/89	IRON, TOTAL	0.02000	mg/L
03-01	02/24/89	SODIUM	5.30000	mg/L
03-01	02/24/89	SULFATE	160.00000	mg/L
03-01	02/24/89	CHLORIDE	10.00000	mg/L
03-01	02/24/89	TRICHLOROETHYLENE	0.01000	mg/L
03-01	07/16/89	pH	7.10000	S.U.
03-01	07/16/89	SPECIFIC CONDUCTANCE	1040.00000	umho/cm
03-01	07/16/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-01	07/16/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-01	07/16/89	SODIUM	2.00000	mg/L
03-01	07/16/89	CALCIUM	103.00000	mg/L
03-01	07/16/89	MAGNESIUM	24.00000	mg/L
03-01	07/16/89	POTASSIUM	1.00000	mg/L
03-01	07/16/89	SULFATE	47.00000	mg/L
03-01	07/16/89	CHLORIDE	13.00000	mg/L
03-01	07/16/89	BICARBONATE	275.00000	mg/L
03-01	07/16/89	TRICHLOROETHYLENE	0.01600	mg/L
03-01	10/21/89	pH	7.10000	S.U.
03-01	10/21/89	SPECIFIC CONDUCTANCE	914.00000	umho/cm
03-01	10/21/89	CALCIUM	178.00000	mg/L
03-01	10/21/89	MAGNESIUM	40.00000	mg/L
03-01	10/21/89	POTASSIUM	1.60000	mg/L
03-01	10/21/89	BICARBONATE	400.00000	mg/L
03-01	10/21/89	RDX	0.01800	mg/L
03-01	10/21/89	TRICHLOROETHYLENE	0.02000	mg/L
03-01	01/30/90	pH	7.30000	S.U.
03-01	01/30/90	SPECIFIC CONDUCTANCE	886.00000	umho/cm
03-01	01/30/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03-01	01/30/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-01	01/30/90	MANGANESE	0.00900	mg/L
03-01	01/30/90	SODIUM	7.00000	mg/L
03-01	01/30/90	CALCIUM	188.00000	mg/L
03-01	01/30/90	MAGNESIUM	42.00000	mg/L
03-01	01/30/90	POTASSIUM	1.00000	mg/L
03-01	01/30/90	SULFATE	260.00000	mg/L
03-01	01/30/90	CHLORIDE	10.00000	mg/L
03-01	01/30/90	BICARBONATE	354.00000	mg/L
03-01	01/30/90	TRICHLOROETHYLENE	0.01900	mg/L
03-01	04/19/90	pH	7.00000	S.U.
03-01	04/19/90	SPECIFIC CONDUCTANCE	870.00000	umho/cm

03-01	04/19/90	CALCIUM	189.00000	mg/L
03-01	04/19/90	MAGNESIUM	49.00000	mg/L
03-01	04/19/90	POTASSIUM	2.00000	mg/L
03-01	04/19/90	BICARBONATE	409.00000	mg/L
03-01	04/19/90	TRICHLOROETHYLENE	0.01400	mg/L
03-01	07/20/90	pH	7.00000	S.U.
03-01	07/20/90	SPECIFIC CONDUCTANCE	925.00000	umho/cm
03-01	07/20/90	TOTAL ORGANIC CARBON	2.30000	mg/L
03-01	07/20/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-01	07/20/90	SODIUM	6.00000	mg/L
03-01	07/20/90	CALCIUM	158.00000	mg/L
03-01	07/20/90	MAGNESIUM	38.00000	mg/L
03-01	07/20/90	POTASSIUM	1.00000	mg/L
03-01	07/20/90	BICARBONATE	362.00000	mg/L
03-01	07/20/90	TRICHLOROETHYLENE	0.02000	mg/L
03-01	10/18/90	pH	7.00000	S.U.
03-01	10/18/90	SPECIFIC CONDUCTANCE	876.00000	umho/cm
03-01	10/18/90	SODIUM	7.00000	mg/L
03-01	10/18/90	CALCIUM	125.00000	mg/L
03-01	10/18/90	MAGNESIUM	43.00000	mg/L
03-01	10/18/90	POTASSIUM	1.00000	mg/L
03-01	10/18/90	TRICHLOROETHYLENE	0.01200	mg/L
03-01	01/14/91	pH	7.04000	S.U.
03-01	01/14/91	SPECIFIC CONDUCTANCE	913.00000	umho/cm
03-01	01/14/91	TOTAL ORGANIC CARBON	0.86000	mg/L
03-01	01/14/91	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03-01	01/14/91	MANGANESE	0.02000	mg/L
03-01	01/14/91	SODIUM	6.00000	mg/L
03-01	01/14/91	CALCIUM	132.00000	mg/L
03-01	01/14/91	MAGNESIUM	47.00000	mg/L
03-01	01/14/91	POTASSIUM	2.00000	mg/L
03-01	01/14/91	SULFATE	275.00000	mg/L
03-01	01/14/91	CHLORIDE	16.00000	mg/L
03-01	01/14/91	BICARBONATE	354.00000	mg/L
03-01	01/14/91	TRICHLOROETHYLENE	0.01600	mg/L
03-01	04/05/91	pH	6.90000	S.U.
03-01	04/05/91	SPECIFIC CONDUCTANCE	881.00000	umho/cm
03-01	04/05/91	CALCIUM	146.20000	mg/L
03-01	04/05/91	MAGNESIUM	35.60000	mg/L
03-01	04/05/91	POTASSIUM	1.70000	mg/L
03-01	04/05/91	BICARBONATE	371.00000	mg/L
03-01	04/05/91	AMMONIA-NITROGEN	0.10000	mg/L
03-01	04/05/91	TRICHLOROETHYLENE	0.02700	mg/L
03-01	07/10/91	pH	6.85000	S.U.
03-01	07/10/91	SPECIFIC CONDUCTANCE	901.00000	umho/cm
03-01	07/10/91	TOTAL ORGANIC CARBON	0.73000	mg/L
03-01	07/10/91	TOTAL ORGANIC HALOGENS	0.10000	mg/L
03-01	07/10/91	MANGANESE	0.03000	mg/L
03-01	07/10/91	SODIUM	5.10000	mg/L
03-01	07/10/91	CALCIUM	139.30000	mg/L
03-01	07/10/91	MAGNESIUM	34.00000	mg/L
03-01	07/10/91	POTASSIUM	1.39000	mg/L
03-01	07/10/91	BICARBONATE	442.00000	mg/L
03-01	07/10/91	TRICHLOROETHENE	0.01500	mg/L
03-01	10/07/91	pH	6.78000	S.U.
03-01	10/07/91	SPECIFIC CONDUCTANCE	839.00000	umho/cm
03-01	10/07/91	SODIUM	3.50000	mg/L
03-01	10/07/91	TRICHLOROETHYLENE	0.01300	mg/L
03-01	10/07/91	BICARBONATE	372.00000	mg/L
03-01	10/07/91	CALCIUM	115.70000	mg/L

03-01	10/07/91	MAGNESIUM	32.20000	mg/L
03-01	10/07/91	POTASSIUM	4.00000	mg/L
03-01	01/09/92	pH	7.50000	S.U.
03-01	01/09/92	SPECIFIC CONDUCTANCE	860.00000	umho/cm
03-01	01/09/92	TOTAL ORGANIC CARBON	0.71000	mg/L
03-01	01/09/92	SODIUM	5.00000	mg/L
03-01	01/09/92	CALCIUM	152.30000	mg/L
03-01	01/09/92	MAGNESIUM	37.30000	mg/L
03-01	01/09/92	POTASSIUM	2.10000	mg/L
03-01	01/09/92	SULFATE	265.00000	mg/L
03-01	01/09/92	CHLORIDE	13.00000	mg/L
03-01	01/09/92	BICARBONATE	341.00000	mg/L
03-01	01/09/92	RDX	0.03000	mg/L
03-01	01/09/92	TRICHLOROETHYLENE	0.01400	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-04	02/05/88	pH	7.66000	S.U.
03-04	02/05/88	SPECIFIC CONDUCTANCE	1746.00000	umho/cm
03-04	02/05/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03-04	02/05/88	MANGANESE	0.75000	mg/L
03-04	02/05/88	SODIUM	242.00000	mg/L
03-04	02/05/88	SULFATE	68.00000	mg/L
03-04	02/05/88	CHLORIDE	3.00000	mg/L
03-04	02/05/88	RDX	0.01000	mg/L
03-04	07/25/88	pH	7.60000	S.U.
03-04	07/25/88	SPECIFIC CONDUCTANCE	500.00000	umho/cm
03-04	07/25/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03-04	02/24/89	pH	8.20000	S.U.
03-04	02/24/89	SPECIFIC CONDUCTANCE	1375.00000	umho/cm
03-04	02/24/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03-04	02/24/89	TOTAL ORGANIC HALOGENS	0.08000	mg/L
03-04	02/24/89	SODIUM	350.00000	mg/L
03-04	02/24/89	SULFATE	36.00000	mg/L
03-04	02/24/89	CHLORIDE	56.00000	mg/L
03-04	02/24/89	1,1,1-TRICHLOROETHANE	0.07000	mg/L
03-04	02/24/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.05000	mg/L
03-04	07/13/89	pH	8.00000	S.U.
03-04	07/13/89	SPECIFIC CONDUCTANCE	872.00000	umho/cm
03-04	07/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-04	07/13/89	SODIUM	62.00000	mg/L
03-04	07/13/89	CALCIUM	48.00000	mg/L
03-04	07/13/89	MAGNESIUM	7.80000	mg/L
03-04	07/13/89	POTASSIUM	2.20000	mg/L
03-04	07/13/89	SULFATE	26.00000	mg/L
03-04	07/13/89	CHLORIDE	8.00000	mg/L
03-04	07/13/89	BICARBONATE	283.00000	mg/L
03-04	07/13/89	TRICHLOROETHYLENE	0.00400	mg/L
03-04	07/13/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03-04	10/21/89	pH	8.40000	S.U.
03-04	10/21/89	SPECIFIC CONDUCTANCE	1281.00000	umho/cm
03-04	10/21/89	CALCIUM	17.00000	mg/L
03-04	10/21/89	MAGNESIUM	4.00000	mg/L
03-04	10/21/89	POTASSIUM	1.20000	mg/L
03-04	10/21/89	BICARBONATE	780.00000	mg/L
03-04	10/21/89	TRICHLOROETHYLENE	0.21600	mg/L
03-04	02/02/90	pH	7.40000	S.U.
03-04	02/02/90	SPECIFIC CONDUCTANCE	1301.00000	umho/cm
03-04	02/02/90	TOTAL ORGANIC CARBON	3.60000	mg/L
03-04	02/02/90	SODIUM	340.00000	mg/L
03-04	02/02/90	CALCIUM	6.00000	mg/L
03-04	02/02/90	MAGNESIUM	2.00000	mg/L
03-04	02/02/90	POTASSIUM	2.00000	mg/L
03-04	02/02/90	SULFATE	43.00000	mg/L
03-04	02/02/90	CHLORIDE	4.00000	mg/L
03-04	02/02/90	BICARBONATE	1037.00000	mg/L
03-04	02/02/90	AMMONIA-NITROGEN	0.50000	mg/L
03-04	02/02/90	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03-04	04/21/90	pH	8.20000	S.U.
03-04	04/21/90	SPECIFIC CONDUCTANCE	987.00000	umho/cm
03-04	04/21/90	IRON, TOTAL	0.10000	mg/L
03-04	04/21/90	CALCIUM	8.00000	mg/L
03-04	04/21/90	MAGNESIUM	4.00000	mg/L
03-04	04/21/90	POTASSIUM	2.00000	mg/L
03-04	04/21/90	BICARBONATE	261.00000	mg/L

03-04	07/20/90	pH	8.40000	S.U.
03-04	07/20/90	SPECIFIC CONDUCTANCE	1272.00000	umho/cm
03-04	07/20/90	TOTAL ORGANIC CARBON	4.50000	mg/L
03-04	07/20/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-04	07/20/90	IRON, TOTAL	2.46000	mg/L
03-04	07/20/90	SODIUM	214.00000	mg/L
03-04	07/20/90	CALCIUM	6.00000	mg/L
03-04	07/20/90	MAGNESIUM	2.00000	mg/L
03-04	07/20/90	POTASSIUM	1.00000	mg/L
03-04	07/20/90	BICARBONATE	927.00000	mg/L
03-04	10/20/90	pH	7.80000	S.U.
03-04	10/20/90	SPECIFIC CONDUCTANCE	1280.00000	umho/cm
03-04	10/20/90	SODIUM	98.00000	mg/L
03-04	10/20/90	CALCIUM	54.00000	mg/L
03-04	10/20/90	MAGNESIUM	9.00000	mg/L
03-04	10/20/90	POTASSIUM	2.00000	mg/L
03-04	10/20/90	AMMONIA-NITROGEN	0.09000	mg/L
03-04	10/20/90	TRICHLOROETHYLENE	0.01800	mg/L
03-04	01/16/91	pH	8.51000	S.U.
03-04	01/16/91	SPECIFIC CONDUCTANCE	836.00000	umho/cm
03-04	01/16/91	TOTAL ORGANIC CARBON	3.24000	mg/L
03-04	01/16/91	SODIUM	229.00000	mg/L
03-04	01/16/91	CALCIUM	5.00000	mg/L
03-04	01/16/91	MAGNESIUM	2.00000	mg/L
03-04	01/16/91	POTASSIUM	2.00000	mg/L
03-04	01/16/91	SULFATE	50.00000	mg/L
03-04	01/16/91	CHLORIDE	8.00000	mg/L
03-04	01/16/91	BICARBONATE	799.00000	mg/L
03-04	04/07/91	pH	8.15000	S.U.
03-04	04/07/91	SPECIFIC CONDUCTANCE	840.00000	umho/cm
03-04	04/07/91	CALCIUM	4.00000	mg/L
03-04	04/07/91	MAGNESIUM	1.50000	mg/L
03-04	04/07/91	POTASSIUM	1.20000	mg/L
03-04	04/07/91	BICARBONATE	741.00000	mg/L
03-04	04/07/91	AMMONIA-NITROGEN	0.20000	mg/L
03-04	07/12/91	pH	7.92000	S.U.
03-04	07/12/91	SPECIFIC CONDUCTANCE	883.00000	umho/cm
03-04	07/12/91	TOTAL ORGANIC CARBON	2.59000	mg/L
03-04	07/12/91	IRON, TOTAL	0.52000	mg/L
03-04	07/12/91	MANGANESE	0.08000	mg/L
03-04	07/12/91	SODIUM	101.70000	mg/L
03-04	07/12/91	CALCIUM	35.40000	mg/L
03-04	07/12/91	MAGNESIUM	35.90000	mg/L
03-04	07/12/91	POTASSIUM	2.50000	mg/L
03-04	07/12/91	BICARBONATE	664.00000	mg/L
03-04	07/12/91	AMMONIA-NITROGEN	131.00000	mg/L
03-04	07/12/91	TRICHLOROETHENE	0.00300	mg/L
03-04	10/03/91	pH	7.54000	S.U.
03-04	10/03/91	SPECIFIC CONDUCTANCE	626.00000	umho/cm
03-04	10/03/91	SODIUM	122.10000	mg/L
03-04	10/03/91	AMMONIA-NITROGEN	0.15000	mg/L
03-04	10/03/91	BICARBONATE	854.00000	mg/L
03-04	10/03/91	CALCIUM	39.90000	mg/L
03-04	10/03/91	MAGNESIUM	8.30000	mg/L
03-04	10/03/91	POTASSIUM	1.70000	mg/L
03-04	01/07/92	pH	8.10000	S.U.
03-04	01/07/92	SPECIFIC CONDUCTANCE	373.00000	umho/cm
03-04	01/07/92	TOTAL ORGANIC CARBON	2.71000	mg/L
03-04	01/07/92	IRON, TOTAL	0.30000	mg/L
03-04	01/07/92	MANGANESE	0.05300	mg/L

03-04	01/07/92	SODIUM	269.00000	mg/L
03-04	01/07/92	CALCIUM	3.40000	mg/L
03-04	01/07/92	MAGNESIUM	1.20000	mg/L
03-04	01/07/92	POTASSIUM	3.70000	mg/L
03-04	01/07/92	SULFATE	19.00000	mg/L
03-04	01/07/92	CHLORIDE	63.00000	mg/L
03-04	01/07/92	BICARBONATE	412.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-06	02/07/88	pH	7.63000	S.U.
03-06	02/07/88	SPECIFIC CONDUCTANCE	382.00000	umho/cm
03-06	02/07/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-06	02/07/88	TOTAL ORGANIC HALOGENS	0.01600	mg/L
03-06	02/07/88	IRON, TOTAL	1.20000	mg/L
03-06	02/07/88	MANGANESE	0.70000	mg/L
03-06	02/07/88	SODIUM	25.00000	mg/L
03-06	02/07/88	SULFATE	15.00000	mg/L
03-06	02/07/88	CHLORIDE	2.00000	mg/L
03-06	02/07/88	TRICHLOROETHYLENE	0.03200	mg/L
03-06	07/25/88	pH	7.90000	S.U.
03-06	07/25/88	SPECIFIC CONDUCTANCE	394.00000	umho/cm
03-06	07/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03-06	02/24/89	pH	7.70000	S.U.
03-06	02/24/89	SPECIFIC CONDUCTANCE	360.00000	umho/cm
03-06	02/24/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-06	02/24/89	IRON, TOTAL	0.18000	mg/L
03-06	02/24/89	SODIUM	2.60000	mg/L
03-06	02/24/89	SULFATE	275.00000	mg/L
03-06	02/24/89	CHLORIDE	5.00000	mg/L
03-06	02/24/89	TRICHLOROETHYLENE	0.01000	mg/L
03-06	07/16/89	CHLORIDE	11.00000	mg/L
03-06	07/16/89	BICARBONATE	224.00000	mg/L
03-06	07/16/89	TRICHLOROETHYLENE	0.01000	mg/L
03-06	10/24/89	pH	7.20000	S.U.
03-06	10/24/89	SPECIFIC CONDUCTANCE	488.00000	umho/cm
03-06	10/24/89	CALCIUM	106.00000	mg/L
03-06	10/24/89	MAGNESIUM	13.00000	mg/L
03-06	10/24/89	POTASSIUM	-9999.0000	mg/L
03-06	10/24/89	BICARBONATE	283.00000	mg/L
03-06	10/24/89	TRICHLOROETHYLENE	0.05300	mg/L
03-06	02/03/90	pH	7.20000	S.U.
03-06	02/03/90	SPECIFIC CONDUCTANCE	285.00000	umho/cm
03-06	02/03/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03-06	02/03/90	SODIUM	2.00000	mg/L
03-06	02/03/90	CALCIUM	41.00000	mg/L
03-06	02/03/90	MAGNESIUM	5.00000	mg/L
03-06	02/03/90	POTASSIUM	1.00000	mg/L
03-06	02/03/90	SULFATE	15.00000	mg/L
03-06	02/03/90	CHLORIDE	5.00000	mg/L
03-06	02/03/90	BICARBONATE	256.00000	mg/L
03-06	02/03/90	TRICHLOROETHYLENE	0.00500	mg/L
03-06	02/03/90	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03-06	04/21/90	pH	7.70000	S.U.
03-06	04/21/90	SPECIFIC CONDUCTANCE	263.00000	umho/cm
03-06	04/21/90	IRON, TOTAL	1.03000	mg/L
03-06	04/21/90	CALCIUM	54.00000	mg/L
03-06	04/21/90	MAGNESIUM	17.00000	mg/L
03-06	04/21/90	POTASSIUM	1.00000	mg/L
03-06	04/21/90	BICARBONATE	251.00000	mg/L
03-06	04/21/90	TRICHLOROETHYLENE	0.00400	mg/L
03-06	07/20/90	pH	7.60000	S.U.
03-06	07/20/90	SPECIFIC CONDUCTANCE	324.00000	umho/cm
03-06	07/20/90	TOTAL ORGANIC CARBON	2.30000	mg/L
03-06	07/20/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-06	07/20/90	IRON, TOTAL	0.50000	mg/L
03-06	07/20/90	SODIUM	4.00000	mg/L
03-06	07/20/90	CALCIUM	59.00000	mg/L

03-06	07/20/90	MAGNESIUM	8.00000	mg/L
03-06	07/20/90	POTASSIUM	1.00000	mg/L
03-06	07/20/90	BICARBONATE	233.00000	mg/L
03-06	07/20/90	TRICHLOROETHYLENE	0.00500	mg/L
03-06	01/16/91	pH	7.50000	S.U.
03-06	01/16/91	SPECIFIC CONDUCTANCE	284.00000	umho/cm
03-06	01/16/91	TOTAL ORGANIC CARBON	0.98000	mg/L
03-06	01/16/91	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03-06	01/16/91	SODIUM	2.00000	mg/L
03-06	01/16/91	CALCIUM	43.00000	mg/L
03-06	01/16/91	MAGNESIUM	9.00000	mg/L
03-06	01/16/91	SULFATE	10.00000	mg/L
03-06	01/16/91	CHLORIDE	9.00000	mg/L
03-06	01/16/91	BICARBONATE	214.00000	mg/L
03-06	01/16/91	TRICHLOROETHYLENE	0.00400	mg/L
03-06	04/07/91	pH	7.27000	S.U.
03-06	04/07/91	SPECIFIC CONDUCTANCE	257.00000	umho/cm
03-06	04/07/91	CALCIUM	52.90000	mg/L
03-06	04/07/91	MAGNESIUM	6.80000	mg/L
03-06	04/07/91	POTASSIUM	0.80000	mg/L
03-06	04/07/91	BICARBONATE	191.00000	mg/L
03-06	04/07/91	TRICHLOROETHYLENE	0.00400	mg/L
03-06	07/12/91	pH	7.43000	S.U.
03-06	07/12/91	SPECIFIC CONDUCTANCE	403.00000	umho/cm
03-06	07/12/91	TOTAL ORGANIC CARBON	2.30000	mg/L
03-06	07/12/91	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-06	07/12/91	MANGANESE	0.01000	mg/L
03-06	07/12/91	SODIUM	5.40000	mg/L
03-06	07/12/91	CALCIUM	50.80000	mg/L
03-06	07/12/91	MAGNESIUM	7.40000	mg/L
03-06	07/12/91	POTASSIUM	1.30000	mg/L
03-06	07/12/91	BICARBONATE	305.00000	mg/L
03-06	07/12/91	TRICHLOROETHENE	0.00500	mg/L
03-06	10/03/91	pH	7.14000	S.U.
03-06	10/03/91	SPECIFIC CONDUCTANCE	309.00000	umho/cm
03-06	10/03/91	SODIUM	2.40000	mg/L
03-06	10/03/91	TRICHLOROETHYLENE	0.00700	mg/L
03-06	10/03/91	BICARBONATE	275.00000	mg/L
03-06	10/03/91	CALCIUM	70.60000	mg/L
03-06	10/03/91	MAGNESIUM	12.60000	mg/L
03-06	10/03/91	POTASSIUM	0.50000	mg/L
03-06	01/07/92	pH	8.10000	S.U.
03-06	01/07/92	SPECIFIC CONDUCTANCE	309.00000	umho/cm
03-06	01/07/92	TOTAL ORGANIC CARBON	0.87000	mg/L
03-06	01/07/92	SODIUM	2.70000	mg/L
03-06	01/07/92	CALCIUM	59.90000	mg/L
03-06	01/07/92	MAGNESIUM	7.50000	mg/L
03-06	01/07/92	SULFATE	13.00000	mg/L
03-06	01/07/92	CHLORIDE	6.00000	mg/L
03-06	01/07/92	BICARBONATE	209.00000	mg/L
03-06	01/07/92	TRICHLOROETHYLENE	0.00500	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-31	11/25/87	1,1,1-TRICHLOROETHANE	0.01800	mg/L
03-31	07/16/89	pH	12.00000	S.U.
03-31	07/16/89	SPECIFIC CONDUCTANCE	1714.00000	umho/cm
03-31	07/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-31	07/16/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-31	07/16/89	SODIUM	9.30000	mg/L
03-31	07/16/89	CALCIUM	93.00000	mg/L
03-31	07/16/89	MAGNESIUM	0.10000	mg/L
03-31	07/16/89	POTASSIUM	6.00000	mg/L
03-31	07/16/89	SULFATE	35.00000	mg/L
03-31	07/16/89	CHLORIDE	36.00000	mg/L
03-31	07/16/89	BICARBONATE	146.00000	mg/L
03-31	07/16/89	AMMONIA-NITROGEN	0.15000	mg/L
03-31	07/16/89	1,1,1-TRICHLOROETHANE	0.00700	mg/L
03-31	07/16/89	TRICHLOROETHYLENE	0.00400	mg/L
03-31	10/24/89	pH	12.10000	S.U.
03-31	10/24/89	SPECIFIC CONDUCTANCE	1601.00000	umho/cm
03-31	10/24/89	CALCIUM	161.00000	mg/L
03-31	10/24/89	MAGNESIUM	1.00000	mg/L
03-31	10/24/89	POTASSIUM	5.40000	mg/L
03-31	10/24/89	BICARBONATE	195.00000	mg/L
03-31	10/24/89	1,1,1-TRICHLOROETHANE	0.01100	mg/L
03-31	10/24/89	TRICHLOROETHYLENE	0.00600	mg/L
03-31	02/02/90	pH	12.30000	S.U.
03-31	02/02/90	SPECIFIC CONDUCTANCE	1163.00000	umho/cm
03-31	02/02/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03-31	02/02/90	SODIUM	7.00000	mg/L
03-31	02/02/90	CALCIUM	104.00000	mg/L
03-31	02/02/90	MAGNESIUM	1.00000	mg/L
03-31	02/02/90	POTASSIUM	6.00000	mg/L
03-31	02/02/90	SULFATE	32.00000	mg/L
03-31	02/02/90	CHLORIDE	68.00000	mg/L
03-31	02/02/90	BICARBONATE	500.00000	mg/L
03-31	02/02/90	AMMONIA-NITROGEN	0.20000	mg/L
03-31	02/02/90	TRICHLOROETHYLENE	0.00200	mg/L
03-31	04/18/90	pH	12.20000	S.U.
03-31	04/18/90	SPECIFIC CONDUCTANCE	818.00000	umho/cm
03-31	04/18/90	IRON, TOTAL	0.21000	mg/L
03-31	04/18/90	CALCIUM	137.00000	mg/L
03-31	04/18/90	MAGNESIUM	1.00000	mg/L
03-31	04/18/90	POTASSIUM	6.00000	mg/L
03-31	04/18/90	BICARBONATE	502.00000	mg/L
03-31	07/20/90	pH	12.00000	S.U.
03-31	07/20/90	SPECIFIC CONDUCTANCE	660.00000	umho/cm
03-31	07/20/90	TOTAL ORGANIC CARBON	2.20000	mg/L
03-31	07/20/90	SODIUM	10.00000	mg/L
03-31	07/20/90	CALCIUM	123.00000	mg/L
03-31	07/20/90	MAGNESIUM	1.00000	mg/L
03-31	07/20/90	POTASSIUM	5.00000	mg/L
03-31	07/20/90	BICARBONATE	182.00000	mg/L
03-31	10/19/90	pH	11.30000	S.U.
03-31	10/19/90	SPECIFIC CONDUCTANCE	1348.00000	umho/cm
03-31	10/19/90	SODIUM	11.00000	mg/L
03-31	10/19/90	CALCIUM	121.00000	mg/L
03-31	10/19/90	POTASSIUM	5.00000	mg/L
03-31	10/19/90	1,1,1-TRICHLOROETHANE	0.00200	mg/L
03-31	01/14/91	pH	12.55000	S.U.
03-31	01/14/91	SPECIFIC CONDUCTANCE	1022.00000	umho/cm

03-31	01/14/91	TOTAL ORGANIC CARBON	1.46000	mg/L
03-31	01/14/91	TOTAL ORGANIC HALOGENS	0.13000	mg/L
03-31	01/14/91	SODIUM	8.00000	mg/L
03-31	01/14/91	CALCIUM	67.00000	mg/L
03-31	01/14/91	POTASSIUM	5.00000	mg/L
03-31	01/14/91	SULFATE	37.00000	mg/L
03-31	01/14/91	CHLORIDE	31.00000	mg/L
03-31	01/14/91	BICARBONATE	268.00000	mg/L
03-31	01/14/91	TRICHLOROETHYLENE	0.00300	mg/L
03-31	04/06/91	pH	11.63000	S.U.
03-31	04/06/91	SPECIFIC CONDUCTANCE	795.00000	umho/cm
03-31	04/06/91	POTASSIUM	2.60000	mg/L
03-31	04/06/91	BICARBONATE	173.00000	mg/L
03-31	04/06/91	AMMONIA-NITROGEN	0.09000	mg/L
03-31	04/06/91	1,1,1-TRICHLOROETHANE	0.00200	mg/L
03-31	07/12/91	pH	11.68000	S.U.
03-31	07/12/91	SPECIFIC CONDUCTANCE	1194.00000	umho/cm
03-31	07/12/91	TOTAL ORGANIC CARBON	1.97000	mg/L
03-31	07/12/91	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-31	07/12/91	SODIUM	7.90000	mg/L
03-31	07/12/91	CALCIUM	87.20000	mg/L
03-31	07/12/91	MAGNESIUM	0.30000	mg/L
03-31	07/12/91	POTASSIUM	0.50000	mg/L
03-31	07/12/91	BICARBONATE	359.00000	mg/L
03-31	07/12/91	1,1,1-TRICHLOROETHANE	0.00400	mg/L
03-31	07/12/91	TRICHLOROETHENE	0.00400	mg/L
03-31	10/03/91	pH	11.70000	S.U.
03-31	10/03/91	SPECIFIC CONDUCTANCE	818.00000	umho/cm
03-31	10/03/91	SODIUM	6.20000	mg/L
03-31	10/03/91	AMMONIA-NITROGEN	0.06000	mg/L
03-31	10/03/91	BICARBONATE	392.00000	mg/L
03-31	10/03/91	CALCIUM	49.80000	mg/L
03-31	10/03/91	MAGNESIUM	1.70000	mg/L
03-31	10/03/91	POTASSIUM	2.70000	mg/L
03-31	01/07/92	pH	11.50000	S.U.
03-31	01/07/92	SPECIFIC CONDUCTANCE	687.00000	umho/cm
03-31	01/07/92	TOTAL ORGANIC CARBON	1.83000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-32	11/25/87	CHLOROFORM	0.00800	mg/L
03-32	02/05/88	pH	7.12000	S.U.
03-32	02/05/88	SPECIFIC CONDUCTANCE	448.00000	umho/cm
03-32	02/05/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03-32	02/05/88	MANGANESE	0.32000	mg/L
03-32	02/05/88	SODIUM	6.00000	mg/L
03-32	02/05/88	SULFATE	48.00000	mg/L
03-32	02/05/88	CHLORIDE	5.00000	mg/L
03-32	07/13/89	pH	7.50000	S.U.
03-32	07/13/89	SPECIFIC CONDUCTANCE	492.00000	umho/cm
03-32	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-32	07/13/89	SODIUM	1.30000	mg/L
03-32	07/13/89	CALCIUM	75.00000	mg/L
03-32	07/13/89	MAGNESIUM	8.20000	mg/L
03-32	07/13/89	POTASSIUM	1.20000	mg/L
03-32	07/13/89	SULFATE	44.00000	mg/L
03-32	07/13/89	CHLORIDE	12.00000	mg/L
03-32	07/13/89	BICARBONATE	156.00000	mg/L
03-32	07/13/89	TRICHLOROETHYLENE	0.00200	mg/L
03-32	07/13/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03-32	10/24/89	pH	7.60000	S.U.
03-32	10/24/89	SPECIFIC CONDUCTANCE	525.00000	umho/cm
03-32	10/24/89	CALCIUM	138.00000	mg/L
03-32	10/24/89	MAGNESIUM	14.00000	mg/L
03-32	10/24/89	POTASSIUM	2.00000	mg/L
03-32	10/24/89	BICARBONATE	176.00000	mg/L
03-32	10/24/89	TRICHLOROETHYLENE	0.03400	mg/L
03-32	02/02/90	pH	7.80000	S.U.
03-32	02/02/90	SPECIFIC CONDUCTANCE	463.00000	umho/cm
03-32	02/02/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03-32	02/02/90	SODIUM	2.00000	mg/L
03-32	02/02/90	CALCIUM	89.00000	mg/L
03-32	02/02/90	MAGNESIUM	10.00000	mg/L
03-32	02/02/90	POTASSIUM	1.00000	mg/L
03-32	02/02/90	SULFATE	42.00000	mg/L
03-32	02/02/90	CHLORIDE	8.00000	mg/L
03-32	02/02/90	BICARBONATE	329.00000	mg/L
03-32	02/02/90	TRICHLOROETHYLENE	0.00500	mg/L
03-32	04/18/90	pH	7.90000	S.U.
03-32	04/18/90	SPECIFIC CONDUCTANCE	444.00000	umho/cm
03-32	04/18/90	CALCIUM	88.00000	mg/L
03-32	04/18/90	MAGNESIUM	9.00000	mg/L
03-32	04/18/90	POTASSIUM	2.00000	mg/L
03-32	04/18/90	BICARBONATE	359.00000	mg/L
03-32	04/18/90	TRICHLOROETHYLENE	0.00200	mg/L
03-32	07/20/90	pH	7.80000	S.U.
03-32	07/20/90	SPECIFIC CONDUCTANCE	488.00000	umho/cm
03-32	07/20/90	TOTAL ORGANIC CARBON	2.60000	mg/L
03-32	07/20/90	SODIUM	3.00000	mg/L
03-32	07/20/90	CALCIUM	95.00000	mg/L
03-32	07/20/90	MAGNESIUM	10.00000	mg/L
03-32	07/20/90	POTASSIUM	2.00000	mg/L
03-32	07/20/90	BICARBONATE	275.00000	mg/L
03-32	10/19/90	pH	7.30000	S.U.
03-32	10/19/90	SPECIFIC CONDUCTANCE	589.00000	umho/cm
03-32	10/19/90	SODIUM	3.00000	mg/L
03-32	10/19/90	CALCIUM	108.00000	mg/L
03-32	10/19/90	MAGNESIUM	11.00000	mg/L

03-32	10/19/90	POTASSIUM	2.00000	mg/L
03-32	01/14/91	pH	7.63000	S.U.
03-32	01/14/91	SPECIFIC CONDUCTANCE	513.00000	umho/cm
03-32	01/14/91	TOTAL ORGANIC CARBON	1.11000	mg/L
03-32	01/14/91	MANGANESE	0.01000	mg/L
03-32	01/14/91	SODIUM	2.00000	mg/L
03-32	01/14/91	CALCIUM	82.00000	mg/L
03-32	01/14/91	MAGNESIUM	12.00000	mg/L
03-32	01/14/91	POTASSIUM	2.00000	mg/L
03-32	01/14/91	SULFATE	67.00000	mg/L
03-32	01/14/91	CHLORIDE	14.00000	mg/L
03-32	01/14/91	BICARBONATE	275.00000	mg/L
03-32	01/14/91	TRICHLOROETHYLENE	0.00100	mg/L
03-32	04/06/91	pH	7.26000	S.U.
03-32	04/06/91	SPECIFIC CONDUCTANCE	465.00000	umho/cm
03-32	04/06/91	CALCIUM	91.70000	mg/L
03-32	04/06/91	MAGNESIUM	9.60000	mg/L
03-32	04/06/91	POTASSIUM	1.70000	mg/L
03-32	04/06/91	BICARBONATE	299.00000	mg/L
03-32	07/12/91	pH	7.37000	S.U.
03-32	07/12/91	SPECIFIC CONDUCTANCE	550.00000	umho/cm
03-32	07/12/91	TOTAL ORGANIC CARBON	1.68000	mg/L
03-32	07/12/91	MANGANESE	0.00700	mg/L
03-32	07/12/91	SODIUM	2.80000	mg/L
03-32	07/12/91	CALCIUM	87.40000	mg/L
03-32	07/12/91	MAGNESIUM	8.50000	mg/L
03-32	07/12/91	POTASSIUM	0.40000	mg/L
03-32	07/12/91	BICARBONATE	269.00000	mg/L
03-32	07/12/91	TRICHLOROETHENE	0.00200	mg/L
03-32	10/03/91	pH	7.10000	S.U.
03-32	10/03/91	SPECIFIC CONDUCTANCE	488.00000	umho/cm
03-32	10/03/91	SODIUM	2.20000	mg/L
03-32	10/03/91	BICARBONATE	336.00000	mg/L
03-32	10/03/91	CALCIUM	104.40000	mg/L
03-32	10/03/91	MAGNESIUM	10.80000	mg/L
03-32	10/03/91	POTASSIUM	3.10000	mg/L
03-32	12/31/91	pH	8.00000	S.U.
03-32	12/31/91	SPECIFIC CONDUCTANCE	450.00000	umho/cm
03-32	12/31/91	TOTAL ORGANIC CARBON	1.48000	mg/L
03-32	12/31/91	SODIUM	3.10000	mg/L
03-32	12/31/91	CALCIUM	101.70000	mg/L
03-32	12/31/91	MAGNESIUM	10.50000	mg/L
03-32	12/31/91	POTASSIUM	2.50000	mg/L
03-32	12/31/91	SULFATE	74.00000	mg/L
03-32	12/31/91	CHLORIDE	15.00000	mg/L
03-32	12/31/91	BICARBONATE	251.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-33	11/25/87	RDX	0.05000	mg/L
03-33	11/25/87	1,1,1-TRICHLOROETHANE	0.00500	mg/L
03-33	01/28/88	pH	7.69000	S.U.
03-33	01/28/88	SPECIFIC CONDUCTANCE	870.00000	umho/cm
03-33	01/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03-33	01/28/88	TOTAL ORGANIC HALOGENS	0.16000	mg/L
03-33	01/28/88	IRON, TOTAL	0.12000	mg/L
03-33	01/28/88	MANGANESE	0.19000	mg/L
03-33	01/28/88	SODIUM	27.00000	mg/L
03-33	01/28/88	SULFATE	28.00000	mg/L
03-33	01/28/88	CHLORIDE	219.00000	mg/L
03-33	01/28/88	PHENOLS	0.00000	mg/L
03-33	01/28/88	RDX	0.05000	mg/L
03-33	01/28/88	TRICHLOROETHYLENE	0.06000	mg/L
03-33	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-33	07/13/89	TOTAL ORGANIC HALOGENS	0.05200	mg/L
03-33	07/13/89	SODIUM	7.90000	mg/L
03-33	07/13/89	CALCIUM	74.00000	mg/L
03-33	07/13/89	MAGNESIUM	6.50000	mg/L
03-33	07/13/89	POTASSIUM	3.00000	mg/L
03-33	07/13/89	SULFATE	40.00000	mg/L
03-33	07/13/89	CHLORIDE	15.00000	mg/L
03-33	07/13/89	BICARBONATE	108.00000	mg/L
03-33	07/13/89	TRICHLOROETHYLENE	0.03500	mg/L
03-33	10/22/89	pH	7.40000	S.U.
03-33	10/22/89	SPECIFIC CONDUCTANCE	801.00000	umho/cm
03-33	10/22/89	CALCIUM	164.00000	mg/L
03-33	10/22/89	MAGNESIUM	14.00000	mg/L
03-33	10/22/89	POTASSIUM	3.00000	mg/L
03-33	10/22/89	BICARBONATE	332.00000	mg/L
03-33	10/22/89	RDX	0.05400	mg/L
03-33	10/22/89	TRICHLOROETHYLENE	0.01200	mg/L
03-33	01/31/90	pH	7.60000	S.U.
03-33	01/31/90	SPECIFIC CONDUCTANCE	704.00000	umho/cm
03-33	01/31/90	TOTAL ORGANIC CARBON	1.90000	mg/L
03-33	01/31/90	SODIUM	24.00000	mg/L
03-33	01/31/90	CALCIUM	99.00000	mg/L
03-33	01/31/90	MAGNESIUM	9.00000	mg/L
03-33	01/31/90	POTASSIUM	2.00000	mg/L
03-33	01/31/90	SULFATE	30.00000	mg/L
03-33	01/31/90	CHLORIDE	115.00000	mg/L
03-33	01/31/90	BICARBONATE	317.00000	mg/L
03-33	01/31/90	AMMONIA-NITROGEN	0.20000	mg/L
03-33	01/31/90	RDX	0.06000	mg/L
03-33	01/31/90	TRICHLOROETHYLENE	0.00200	mg/L
03-33	04/18/90	pH	7.60000	S.U.
03-33	04/18/90	SPECIFIC CONDUCTANCE	672.00000	umho/cm
03-33	04/18/90	CALCIUM	105.00000	mg/L
03-33	04/18/90	MAGNESIUM	9.00000	mg/L
03-33	04/18/90	POTASSIUM	3.00000	mg/L
03-33	04/18/90	BICARBONATE	335.00000	mg/L
03-33	04/18/90	RDX	0.05000	mg/L
03-33	04/18/90	TRICHLOROETHYLENE	0.00500	mg/L
03-33	07/20/90	pH	7.50000	S.U.
03-33	07/20/90	SPECIFIC CONDUCTANCE	756.00000	umho/cm
03-33	07/20/90	TOTAL ORGANIC CARBON	3.80000	mg/L
03-33	07/20/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-33	07/20/90	SODIUM	33.00000	mg/L

03-33	07/20/90	CALCIUM	120.00000	mg/L
03-33	07/20/90	MAGNESIUM	11.00000	mg/L
03-33	07/20/90	POTASSIUM	2.00000	mg/L
03-33	07/20/90	BICARBONATE	137.00000	mg/L
03-33	07/20/90	1,1,1-TRICHLOROETHANE	0.00200	mg/L
03-33	07/20/90	TRICHLOROETHYLENE	0.00300	mg/L
03-33	10/19/90	pH	6.60000	S.U.
03-33	10/19/90	SPECIFIC CONDUCTANCE	841.00000	umho/cm
03-33	10/19/90	SODIUM	39.00000	mg/L
03-33	10/19/90	CALCIUM	123.00000	mg/L
03-33	10/19/90	MAGNESIUM	11.00000	mg/L
03-33	10/19/90	POTASSIUM	2.00000	mg/L
03-33	10/19/90	AMMONIA-NITROGEN	0.06000	mg/L
03-33	01/12/91	pH	7.27000	S.U.
03-33	01/12/91	SPECIFIC CONDUCTANCE	718.00000	umho/cm
03-33	01/12/91	TOTAL ORGANIC CARBON	1.18000	mg/L
03-33	01/12/91	MANGANESE	0.04000	mg/L
03-33	01/12/91	SODIUM	33.00000	mg/L
03-33	01/12/91	CALCIUM	100.00000	mg/L
03-33	01/12/91	MAGNESIUM	14.00000	mg/L
03-33	01/12/91	POTASSIUM	4.00000	mg/L
03-33	01/12/91	SULFATE	26.00000	mg/L
03-33	01/12/91	CHLORIDE	132.00000	mg/L
03-33	01/12/91	BICARBONATE	256.00000	mg/L
03-33	01/12/91	RDX	0.01000	mg/L
03-33	01/12/91	TRICHLOROETHYLENE	0.00100	mg/L
03-33	04/06/91	pH	7.05000	S.U.
03-33	04/06/91	SPECIFIC CONDUCTANCE	594.00000	umho/cm
03-33	04/06/91	CALCIUM	106.90000	mg/L
03-33	04/06/91	MAGNESIUM	10.00000	mg/L
03-33	04/06/91	POTASSIUM	1.80000	mg/L
03-33	04/06/91	BICARBONATE	251.00000	mg/L
03-33	04/06/91	AMMONIA-NITROGEN	0.10000	mg/L
03-33	04/06/91	TRICHLOROETHYLENE	0.00500	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-34	11/24/87	pH	7.91000	S.U.
03-34	11/24/87	SPECIFIC CONDUCTANCE	426.00000	umho/cm
03-34	11/24/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03-34	11/24/87	IRON, TOTAL	0.03000	mg/L
03-34	11/24/87	SODIUM	7.00000	mg/L
03-34	11/24/87	SULFATE	45.00000	mg/L
03-34	11/24/87	CHLORIDE	9.00000	mg/L
03-34	11/24/87	TNT	0.01000	mg/L
03-34	11/24/87	RDX	0.02000	mg/L
03-34	11/24/87	BARIUM, TOTAL	0.05000	mg/L
03-34	11/24/87	LEAD, TOTAL	0.03000	mg/L
03-34	11/24/87	NITRATE-N	2.10000	mg/L
03-34	11/24/87	RADIUM, TOTAL	0.10000	pCi/l
03-34	11/24/87	GROSS ALPHA	0.00000	pCi/l
03-34	11/24/87	GROSS BETA	4.20000	mlrem/y
03-34	11/24/87	TRICHLOROETHENE	0.00400	mg/L
03-34	02/05/88	pH	7.44000	S.U.
03-34	02/05/88	SPECIFIC CONDUCTANCE	156.00000	umho/cm
03-34	02/05/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-34	02/05/88	TOTAL ORGANIC HALOGENS	0.01100	mg/L
03-34	02/05/88	SODIUM	6.00000	mg/L
03-34	02/05/88	SULFATE	32.00000	mg/L
03-34	02/05/88	CHLORIDE	2.00000	mg/L
03-34	02/05/88	BARIUM, TOTAL	0.09000	mg/L
03-34	02/05/88	FLUORIDE, TOTAL	0.14000	mg/L
03-34	02/05/88	NITRATE-N	0.57000	mg/L
03-34	02/05/88	RADIUM, TOTAL	0.00000	pCi/l
03-34	02/05/88	GROSS ALPHA	0.00000	pCi/l
03-34	02/05/88	GROSS BETA	3.20000	mlrem/y
03-34	02/05/88	COLIFORM	1.00000	#/100ml
03-34	04/25/88	pH	7.37000	S.U.
03-34	04/25/88	SPECIFIC CONDUCTANCE	223.00000	umho/cm
03-34	04/25/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03-34	04/25/88	IRON, TOTAL	0.04000	mg/L
03-34	04/25/88	MANGANESE	0.01200	mg/L
03-34	04/25/88	SODIUM	8.90000	mg/L
03-34	04/25/88	SULFATE	40.00000	mg/L
03-34	04/25/88	CHLORIDE	3.00000	mg/L
03-34	04/25/88	BARIUM, TOTAL	0.12000	mg/L
03-34	04/25/88	FLUORIDE, TOTAL	0.33000	mg/L
03-34	04/25/88	RADIUM, TOTAL	0.00000	mg/L
03-34	04/25/88	GROSS ALPHA	1.60000	mg/L
03-34	04/25/88	GROSS BETA	4.90000	mg/L
03-34	04/25/88	COLIFORM	0.00000	#/100ml
03-34	04/25/88	TRICHLOROETHYLENE	0.00700	mg/L
03-34	10/22/88	pH	7.90000	S.U.
03-34	10/22/88	SPECIFIC CONDUCTANCE	383.00000	umho/cm
03-34	10/22/88	TOTAL ORGANIC CARBON	8.00000	mg/L
03-34	10/22/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-34	10/22/88	SODIUM	10.00000	mg/L
03-34	10/22/88	SULFATE	69.00000	mg/L
03-34	10/22/88	CHLORIDE	13.00000	mg/L
03-34	10/22/88	RDX	0.07000	mg/L
03-34	10/22/88	BICARBONATE	311.00000	mg/L
03-34	10/22/88	CALCIUM	61.00000	mg/L
03-34	10/22/88	MAGNESIUM	18.00000	mg/L
03-34	10/22/88	POTASSIUM	9.00000	mg/L
03-34	10/22/88	FLUORIDE, TOTAL	0.12000	mg/L

03-34	10/22/88	NITRATE-N	3.00000	mg/L
03-34	10/22/88	GROSS BETA	4.50000	pcu/L
03-34	10/22/88	COLIFORM	2.00000	TC/.1L
03-34	10/22/88	TRICHLOROETHYLENE	0.01000	mg/L
03-34	01/15/89	pH	7.40000	S.U.
03-34	01/15/89	SPECIFIC CONDUCTANCE	198.00000	umho/cm
03-34	01/15/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-34	01/15/89	SODIUM	6.60000	mg/L
03-34	01/15/89	SULFATE	39.00000	mg/L
03-34	01/15/89	CHLORIDE	5.00000	mg/L
03-34	01/15/89	AMMONIA-NITROGEN	0.20000	mg/L
03-34	01/15/89	BICARBONATE	742.00000	mg/L
03-34	01/15/89	CALCIUM	26.00000	mg/L
03-34	01/15/89	MAGNESIUM	8.00000	mg/L
03-34	01/15/89	POTASSIUM	1.40000	mg/L
03-34	01/15/89	BARIUM, TOTAL	0.09000	mg/L
03-34	01/15/89	FLUORIDE, TOTAL	0.40000	mg/L
03-34	01/15/89	NITRATE-N	0.60000	mg/L
03-34	01/15/89	COLIFORM	0.00000	TC/.1L
03-34	04/15/89	pH	7.70000	S.U.
03-34	04/15/89	SPECIFIC CONDUCTANCE	152.00000	umho/cm
03-34	04/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-34	04/15/89	SODIUM	0.60000	mg/L
03-34	04/15/89	CALCIUM	8.40000	mg/L
03-34	04/15/89	MAGNESIUM	2.90000	mg/L
03-34	04/15/89	POTASSIUM	2.00000	mg/L
03-34	04/15/89	SULFATE	37.00000	mg/L
03-34	04/15/89	CHLORIDE	4.00000	mg/L
03-34	04/15/89	BICARBONATE	59.00000	mg/L
03-34	04/15/89	FLUORIDE, TOTAL	0.07000	mg/L
03-34	04/15/89	COLIFORM	0.00000	TC/.1L
03-34	07/13/89	pH	7.80000	S.U.
03-34	07/13/89	SPECIFIC CONDUCTANCE	859.00000	umho/cm
03-34	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-34	07/13/89	MANGANESE	0.01000	mg/L
03-34	07/13/89	SODIUM	7.00000	mg/L
03-34	07/13/89	CALCIUM	48.00000	mg/L
03-34	07/13/89	MAGNESIUM	14.00000	mg/L
03-34	07/13/89	POTASSIUM	3.00000	mg/L
03-34	07/13/89	SULFATE	38.00000	mg/L
03-34	07/13/89	CHLORIDE	9.00000	mg/L
03-34	07/13/89	BICARBONATE	224.00000	mg/L
03-34	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L
03-34	07/13/89	NITRATE-N	1.19000	mg/L
03-34	07/13/89	COLIFORM	0.00000	TC/.1L
03-34	07/13/89	TRICHLOROETHYLENE	0.00100	mg/L
03-34	10/24/89	pH	7.10000	S.U.
03-34	10/24/89	SPECIFIC CONDUCTANCE	370.00000	umho/cm
03-34	10/24/89	CALCIUM	51.00000	mg/L
03-34	10/24/89	MAGNESIUM	13.00000	mg/L
03-34	10/24/89	POTASSIUM	2.10000	mg/L
03-34	10/24/89	BICARBONATE	195.00000	mg/L
03-34	10/24/89	TRICHLOROETHYLENE	0.00500	mg/L
03-34	02/02/90	pH	9.20000	S.U.
03-34	02/02/90	SPECIFIC CONDUCTANCE	154.00000	umho/cm
03-34	02/02/90	TOTAL ORGANIC CARBON	5.30000	mg/L
03-34	02/02/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-34	02/02/90	SODIUM	2.00000	mg/L
03-34	02/02/90	CALCIUM	19.00000	mg/L
03-34	02/02/90	MAGNESIUM	6.00000	mg/L

03-34	02/02/90	POTASSIUM	1.00000	mg/L
03-34	02/02/90	SULFATE	32.00000	mg/L
03-34	02/02/90	CHLORIDE	9.00000	mg/L
03-34	02/02/90	BICARBONATE	171.00000	mg/L
03-34	02/02/90	DI-N-BUTYL PHTHALATE	0.01400	mg/L
03-34	04/21/90	pH	7.90000	S.U.
03-34	04/21/90	SPECIFIC CONDUCTANCE	180.00000	umho/cm
03-34	04/21/90	IRON, TOTAL	0.17000	mg/L
03-34	04/21/90	CALCIUM	22.00000	mg/L
03-34	04/21/90	MAGNESIUM	6.00000	mg/L
03-34	04/21/90	POTASSIUM	1.00000	mg/L
03-34	04/21/90	BICARBONATE	110.00000	mg/L
03-34	07/17/90	pH	7.20000	S.U.
03-34	07/17/90	SPECIFIC CONDUCTANCE	335.00000	umho/cm
03-34	07/17/90	TOTAL ORGANIC CARBON	4.40000	mg/L
03-34	07/17/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-34	07/17/90	SODIUM	2.00000	mg/L
03-34	07/17/90	CALCIUM	39.00000	mg/L
03-34	07/17/90	MAGNESIUM	12.00000	mg/L
03-34	07/17/90	POTASSIUM	2.00000	mg/L
03-34	07/17/90	BICARBONATE	179.00000	mg/L
03-34	10/20/90	pH	7.30000	S.U.
03-34	10/20/90	SPECIFIC CONDUCTANCE	418.00000	umho/cm
03-34	10/20/90	SODIUM	5.00000	mg/L
03-34	10/20/90	CALCIUM	61.00000	mg/L
03-34	10/20/90	MAGNESIUM	18.00000	mg/L
03-34	10/20/90	POTASSIUM	2.00000	mg/L
03-34	10/20/90	RDX	0.05000	mg/L
03-34	10/20/90	TRICHLOROETHYLENE	0.00300	mg/L
03-34	01/16/91	pH	7.29000	S.U.
03-34	01/16/91	SPECIFIC CONDUCTANCE	141.00000	umho/cm
03-34	01/16/91	TOTAL ORGANIC CARBON	2.45000	mg/L
03-34	01/16/91	IRON, TOTAL	0.15000	mg/L
03-34	01/16/91	SODIUM	1.00000	mg/L
03-34	01/16/91	CALCIUM	14.00000	mg/L
03-34	01/16/91	MAGNESIUM	7.00000	mg/L
03-34	01/16/91	POTASSIUM	1.00000	mg/L
03-34	01/16/91	SULFATE	41.00000	mg/L
03-34	01/16/91	CHLORIDE	11.00000	mg/L
03-34	01/16/91	BICARBONATE	73.00000	mg/L
03-34	01/16/91	BIS(2-ETHYLHEXYL)PHTHALATE	0.01500	mg/L
03-34	04/06/91	pH	6.78000	S.U.
03-34	04/06/91	SPECIFIC CONDUCTANCE	136.00000	umho/cm
03-34	04/06/91	CALCIUM	16.00000	mg/L
03-34	04/06/91	MAGNESIUM	5.70000	mg/L
03-34	04/06/91	POTASSIUM	1.10000	mg/L
03-34	04/06/91	BICARBONATE	60.00000	mg/L
03-34	04/06/91	BIS(2-ETHYLHEXYL)PHTHALATE	0.00800	mg/L
03-34	07/18/91	pH	7.23000	S.U.
03-34	07/18/91	SPECIFIC CONDUCTANCE	351.00000	umho/cm
03-34	07/18/91	TOTAL ORGANIC CARBON	8.02000	mg/L
03-34	07/18/91	IRON, TOTAL	0.41000	mg/L
03-34	07/18/91	MANGANESE	0.02700	mg/L
03-34	07/18/91	SODIUM	4.10000	mg/L
03-34	07/18/91	CALCIUM	41.90000	mg/L
03-34	07/18/91	MAGNESIUM	10.50000	mg/L
03-34	07/18/91	POTASSIUM	4.10000	mg/L
03-34	07/18/91	BICARBONATE	263.00000	mg/L
03-34	07/18/91	RDX	0.03900	mg/L
03-34	07/18/91	TRICHLOROETHENE	0.00400	mg/L

03-34	10/03/91	pH	7.10000	S.U.
03-34	10/03/91	SPECIFIC CONDUCTANCE	368.00000	umho/cm
03-34	10/03/91	SODIUM	5.10000	mg/L
03-34	10/03/91	TRICHLOROETHYLENE	0.00300	mg/L
03-34	10/03/91	AMMONIA-NITROGEN	0.14000	mg/L
03-34	10/03/91	BICARBONATE	238.00000	mg/L
03-34	10/03/91	CALCIUM	227.20000	mg/L
03-34	10/03/91	MAGNESIUM	141.00000	mg/L
03-34	10/03/91	POTASSIUM	14.20000	mg/L
03-34	01/06/92	pH	8.40000	S.U.
03-34	01/06/92	SPECIFIC CONDUCTANCE	146.00000	umho/cm
03-34	01/06/92	TOTAL ORGANIC CARBON	3.89000	mg/L
03-34	01/06/92	SODIUM	7.50000	mg/L
03-34	01/06/92	CALCIUM	48.40000	mg/L
03-34	01/06/92	MAGNESIUM	0.50000	mg/L
03-34	01/06/92	POTASSIUM	1.70000	mg/L
03-34	01/06/92	SULFATE	58.00000	mg/L
03-34	01/06/92	CHLORIDE	7.00000	mg/L
03-34	01/06/92	BICARBONATE	78.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-35	11/24/87	pH	8.16000	S.U.
03-35	11/24/87	SPECIFIC CONDUCTANCE	715.00000	umho/cm
03-35	11/24/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03-35	11/24/87	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-35	11/24/87	MANGANESE	0.11000	mg/L
03-35	11/24/87	SODIUM	175.00000	mg/L
03-35	11/24/87	SULFATE	8.00000	mg/L
03-35	11/24/87	CHLORIDE	9.00000	mg/L
03-35	11/24/87	RDX	0.04000	mg/L
03-35	11/24/87	FLUORIDE, TOTAL	1.10000	mg/L
03-35	11/24/87	NITRATE-N	0.15000	mg/L
03-35	11/24/87	RADIUM, TOTAL	0.30000	pCi/l
03-35	11/24/87	GROSS ALPHA	0.00000	pCi/l
03-35	11/24/87	GROSS BETA	0.00000	mlrem/y
03-35	11/24/87	METHYLENE CHLORIDE	0.00500	mg/L
03-35	11/24/87	TRICHLOROETHENE	0.00600	mg/L
03-35	11/24/87	BENZENE	0.00700	mg/L
03-35	02/05/88	pH	7.76000	S.U.
03-35	02/05/88	SPECIFIC CONDUCTANCE	772.00000	umho/cm
03-35	02/05/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03-35	02/05/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-35	02/05/88	MANGANESE	0.07000	mg/L
03-35	02/05/88	SODIUM	297.00000	mg/L
03-35	02/05/88	SULFATE	6.00000	mg/L
03-35	02/05/88	FLUORIDE, TOTAL	1.60000	mg/L
03-35	02/05/88	NITRATE-N	0.09000	mg/L
03-35	02/05/88	RADIUM, TOTAL	0.10000	pCi/l
03-35	02/05/88	GROSS ALPHA	0.00000	pCi/l
03-35	02/05/88	GROSS BETA	0.60000	mlrem/y
03-35	02/05/88	COLIFORM	3.00000	#/100ml
03-35	04/25/88	pH	7.85000	S.U.
03-35	04/25/88	SPECIFIC CONDUCTANCE	976.00000	umho/cm
03-35	04/25/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-35	04/25/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-35	04/25/88	MANGANESE	0.09000	mg/L
03-35	04/25/88	SODIUM	258.00000	mg/L
03-35	04/25/88	SULFATE	3.00000	mg/L
03-35	04/25/88	CHLORIDE	2.00000	mg/L
03-35	04/25/88	BARIUM, TOTAL	0.08800	mg/L
03-35	04/25/88	FLUORIDE, TOTAL	1.02000	mg/L
03-35	04/25/88	NITRATE-N	0.24000	mg/L
03-35	04/25/88	RADIUM, TOTAL	0.10000	mg/L
03-35	04/25/88	GROSS ALPHA	1.60000	mg/L
03-35	04/25/88	GROSS BETA	6.70000	mg/L
03-35	04/25/88	COLIFORM	0.00000	#/100ml
03-35	04/25/88	TRICHLOROETHYLENE	0.00300	mg/L
03-35	10/22/88	pH	8.00000	S.U.
03-35	10/22/88	SPECIFIC CONDUCTANCE	699.00000	umho/cm
03-35	10/22/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03-35	10/22/88	SODIUM	181.00000	mg/L
03-35	10/22/88	SULFATE	73.00000	mg/L
03-35	10/22/88	CHLORIDE	6.00000	mg/L
03-35	10/22/88	BICARBONATE	970.00000	mg/L
03-35	10/22/88	CALCIUM	46.00000	mg/L
03-35	10/22/88	MAGNESIUM	20.00000	mg/L
03-35	10/22/88	POTASSIUM	5.00000	mg/L
03-35	10/22/88	NITRATE-N	0.55000	mg/L
03-35	10/22/88	GROSS BETA	5.00000	pcu/L

03-35	10/22/88	COLIFORM	0.00000	TC/.1L
03-35	10/22/88	TRICHLOROETHYLENE	0.01000	mg/L
03-35	01/15/89	pH	7.80000	S.U.
03-35	01/15/89	SPECIFIC CONDUCTANCE	738.00000	umho/cm
03-35	01/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-35	01/15/89	MANGANESE	0.14000	mg/L
03-35	01/15/89	SODIUM	63.00000	mg/L
03-35	01/15/89	SULFATE	40.00000	mg/L
03-35	01/15/89	CHLORIDE	6.00000	mg/L
03-35	01/15/89	AMMONIA-NITROGEN	0.34000	mg/L
03-35	01/15/89	BICARBONATE	891.00000	mg/L
03-35	01/15/89	CALCIUM	59.00000	mg/L
03-35	01/15/89	MAGNESIUM	17.00000	mg/L
03-35	01/15/89	POTASSIUM	2.60000	mg/L
03-35	01/15/89	BARIUM, TOTAL	0.19000	mg/L
03-35	01/15/89	LEAD, TOTAL	0.10000	mg/L
03-35	01/15/89	FLUORIDE, TOTAL	1.00000	mg/L
03-35	01/15/89	NITRATE-N	3.50000	mg/L
03-35	01/15/89	COLIFORM	0.00000	TC/.1L
03-35	04/15/89	pH	8.40000	S.U.
03-35	04/15/89	SPECIFIC CONDUCTANCE	823.00000	umho/cm
03-35	04/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-35	04/15/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-35	04/15/89	MANGANESE	0.03000	mg/L
03-35	04/15/89	SODIUM	129.00000	mg/L
03-35	04/15/89	CALCIUM	21.00000	mg/L
03-35	04/15/89	MAGNESIUM	7.10000	mg/L
03-35	04/15/89	POTASSIUM	2.00000	mg/L
03-35	04/15/89	SULFATE	21.00000	mg/L
03-35	04/15/89	CHLORIDE	9.00000	mg/L
03-35	04/15/89	BICARBONATE	255.00000	mg/L
03-35	04/15/89	RDX	0.09500	mg/L
03-35	04/15/89	BARIUM, TOTAL	0.14000	mg/L
03-35	04/15/89	FLUORIDE, TOTAL	1.05000	mg/L
03-35	04/15/89	NITRATE-N	0.17000	mg/L
03-35	04/15/89	COLIFORM	0.00000	TC/.1L
03-35	04/15/89	TRICHLOROETHYLENE	0.01000	mg/L
03-35	07/16/89	pH	8.00000	S.U.
03-35	07/16/89	SPECIFIC CONDUCTANCE	858.00000	umho/cm
03-35	07/16/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-35	07/16/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-35	07/16/89	MANGANESE	0.01000	mg/L
03-35	07/16/89	SODIUM	83.00000	mg/L
03-35	07/16/89	CALCIUM	64.00000	mg/L
03-35	07/16/89	MAGNESIUM	16.00000	mg/L
03-35	07/16/89	POTASSIUM	3.30000	mg/L
03-35	07/16/89	SULFATE	28.00000	mg/L
03-35	07/16/89	CHLORIDE	9.00000	mg/L
03-35	07/16/89	BICARBONATE	381.00000	mg/L
03-35	07/16/89	BARIUM, TOTAL	0.11000	mg/L
03-35	07/16/89	FLUORIDE, TOTAL	2.60000	mg/L
03-35	07/16/89	NITRATE-N	0.10000	mg/L
03-35	07/16/89	COLIFORM	2.00000	TC/.1L
03-35	07/16/89	TRICHLOROETHYLENE	0.00500	mg/L
03-35	10/24/89	pH	8.00000	S.U.
03-35	10/24/89	SPECIFIC CONDUCTANCE	822.00000	umho/cm
03-35	10/24/89	CALCIUM	55.00000	mg/L
03-35	10/24/89	MAGNESIUM	10.00000	mg/L
03-35	10/24/89	POTASSIUM	2.70000	mg/L
03-35	10/24/89	BICARBONATE	566.00000	mg/L

03-35	10/24/89	RDX	0.02000	mg/L
03-35	10/24/89	TRICHLOROETHYLENE	0.29000	mg/L
03-35	02/02/90	pH	7.90000	S.U.
03-35	02/02/90	SPECIFIC CONDUCTANCE	615.00000	umho/cm
03-35	02/02/90	TOTAL ORGANIC CARBON	3.10000	mg/L
03-35	02/02/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-35	02/02/90	MANGANESE	0.01200	mg/L
03-35	02/02/90	SODIUM	21.00000	mg/L
03-35	02/02/90	CALCIUM	77.00000	mg/L
03-35	02/02/90	MAGNESIUM	28.00000	mg/L
03-35	02/02/90	POTASSIUM	3.00000	mg/L
03-35	02/02/90	SULFATE	26.00000	mg/L
03-35	02/02/90	CHLORIDE	7.00000	mg/L
03-35	02/02/90	BICARBONATE	35.00000	mg/L
03-35	02/02/90	RDX	0.09000	mg/L
03-35	02/02/90	TRICHLOROETHYLENE	0.00400	mg/L
03-35	02/02/90	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03-35	04/21/90	pH	7.70000	S.U.
03-35	04/21/90	SPECIFIC CONDUCTANCE	590.00000	umho/cm
03-35	04/21/90	IRON, TOTAL	0.58000	mg/L
03-35	04/21/90	CALCIUM	152.00000	mg/L
03-35	04/21/90	MAGNESIUM	28.00000	mg/L
03-35	04/21/90	POTASSIUM	3.00000	mg/L
03-35	04/21/90	BICARBONATE	468.00000	mg/L
03-35	04/21/90	RDX	0.02000	mg/L
03-35	04/21/90	TRICHLOROETHYLENE	0.00200	mg/L
03-35	07/20/90	pH	7.70000	S.U.
03-35	07/20/90	SPECIFIC CONDUCTANCE	668.00000	umho/cm
03-35	07/20/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03-35	07/20/90	SODIUM	33.00000	mg/L
03-35	07/20/90	CALCIUM	73.00000	mg/L
03-35	07/20/90	MAGNESIUM	18.00000	mg/L
03-35	07/20/90	POTASSIUM	3.00000	mg/L
03-35	07/20/90	BICARBONATE	427.00000	mg/L
03-35	07/20/90	AMMONIA-NITROGEN	0.17000	mg/L
03-35	07/20/90	RDX	0.11000	mg/L
03-35	07/20/90	TRICHLOROETHYLENE	0.01900	mg/L
03-35	10/20/90	pH	7.30000	S.U.
03-35	10/20/90	SPECIFIC CONDUCTANCE	748.00000	umho/cm
03-35	10/20/90	SODIUM	70.00000	mg/L
03-35	10/20/90	CALCIUM	89.00000	mg/L
03-35	10/20/90	MAGNESIUM	15.00000	mg/L
03-35	10/20/90	POTASSIUM	3.00000	mg/L
03-35	10/20/90	RDX	0.05000	mg/L
03-35	10/20/90	TRICHLOROETHYLENE	0.00700	mg/L
03-35	01/14/91	pH	7.95000	S.U.
03-35	01/14/91	SPECIFIC CONDUCTANCE	723.00000	umho/cm
03-35	01/14/91	TOTAL ORGANIC CARBON	1.10000	mg/L
03-35	01/14/91	MANGANESE	0.02000	mg/L
03-35	01/14/91	SODIUM	66.00000	mg/L
03-35	01/14/91	CALCIUM	55.00000	mg/L
03-35	01/14/91	MAGNESIUM	19.00000	mg/L
03-35	01/14/91	POTASSIUM	4.00000	mg/L
03-35	01/14/91	SULFATE	29.00000	mg/L
03-35	01/14/91	CHLORIDE	12.00000	mg/L
03-35	01/14/91	BICARBONATE	494.00000	mg/L
03-35	01/14/91	AMMONIA-NITROGEN	0.14000	mg/L
03-35	01/14/91	TRICHLOROETHYLENE	0.00800	mg/L
03-35	04/06/91	pH	7.34000	S.U.
03-35	04/06/91	SPECIFIC CONDUCTANCE	537.00000	umho/cm

03-35	04/06/91	CALCIUM	15.50000	mg/L
03-35	04/06/91	MAGNESIUM	4.50000	mg/L
03-35	04/06/91	POTASSIUM	1.40000	mg/L
03-35	04/06/91	BICARBONATE	598.00000	mg/L
03-35	04/06/91	AMMONIA-NITROGEN	0.14000	mg/L
03-35	04/06/91	TRICHLOROETHYLENE	0.00400	mg/L
03-35	07/17/91	pH	8.04000	S.U.
03-35	07/17/91	SPECIFIC CONDUCTANCE	786.00000	umho/cm
03-35	07/17/91	TOTAL ORGANIC CARBON	2.17000	mg/L
03-35	07/17/91	MANGANESE	0.06800	mg/L
03-35	07/17/91	SODIUM	144.40000	mg/L
03-35	07/17/91	CALCIUM	15.30000	mg/L
03-35	07/17/91	MAGNESIUM	4.10000	mg/L
03-35	07/17/91	POTASSIUM	2.10000	mg/L
03-35	07/17/91	BICARBONATE	664.00000	mg/L
03-35	07/17/91	AMMONIA-NITROGEN	0.16000	mg/L
03-35	07/17/91	RDX	0.03000	mg/L
03-35	07/17/91	TRICHLOROETHENE	0.00800	mg/L
03-35	10/03/91	pH	7.30000	S.U.
03-35	10/03/91	SPECIFIC CONDUCTANCE	616.00000	umho/cm
03-35	10/03/91	SODIUM	156.00000	mg/L
03-35	10/03/91	AMMONIA-NITROGEN	0.21000	mg/L
03-35	10/03/91	BICARBONATE	512.00000	mg/L
03-35	10/03/91	CALCIUM	22.00000	mg/L
03-35	10/03/91	MAGNESIUM	5.00000	mg/L
03-35	10/03/91	POTASSIUM	3.50000	mg/L
03-35	10/03/91	TRICHLOROETHENE	0.00400	mg/L
03-35	01/06/92	pH	8.00000	S.U.
03-35	01/06/92	SPECIFIC CONDUCTANCE	581.00000	umho/cm
03-35	01/06/92	TOTAL ORGANIC CARBON	1.51000	mg/L
03-35	01/06/92	MANGANESE	0.08300	mg/L
03-35	01/06/92	SODIUM	195.00000	mg/L
03-35	01/06/92	CALCIUM	15.90000	mg/L
03-35	01/06/92	MAGNESIUM	4.80000	mg/L
03-35	01/06/92	POTASSIUM	1.60000	mg/L
03-35	01/06/92	SULFATE	5.00000	mg/L
03-35	01/06/92	CHLORIDE	9.00000	mg/L
03-35	01/06/92	BICARBONATE	454.00000	mg/L
03-35	01/06/92	AMMONIA-NITROGEN	0.11000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-37	11/24/87	pH	7.92000	S.U.
03-37	11/24/87	SPECIFIC CONDUCTANCE	331.00000	umho/cm
03-37	11/24/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03-37	11/24/87	TOTAL ORGANIC HALOGENS	0.01100	mg/L
03-37	11/24/87	SODIUM	26.00000	mg/L
03-37	11/24/87	SULFATE	48.00000	mg/L
03-37	11/24/87	CHLORIDE	7.00000	mg/L
03-37	11/24/87	RDX	0.02000	mg/L
03-37	11/24/87	NITRATE-N	1.50000	mg/L
03-37	11/24/87	RADIUM, TOTAL	0.10000	pCi/l
03-37	11/24/87	GROSS ALPHA	0.00000	pCi/l
03-37	11/24/87	GROSS BETA	2.40000	mlrem/y
03-37	11/24/87	TRICHLOROETHYLENE	0.01000	mg/L
03-37	11/24/87	1,1,1-TRICHLOROETHANE	0.00600	mg/L
03-37	11/24/87	TRICHLOROETHENE	0.00400	mg/L
03-37	02/05/88	pH	7.88000	S.U.
03-37	02/05/88	SPECIFIC CONDUCTANCE	317.00000	umho/cm
03-37	02/05/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-37	02/05/88	MANGANESE	0.16000	mg/L
03-37	02/05/88	SODIUM	31.00000	mg/L
03-37	02/05/88	SULFATE	26.00000	mg/L
03-37	02/05/88	CHLORIDE	4.00000	mg/L
03-37	02/05/88	RDX	0.04000	mg/L
03-37	02/05/88	BARIUM, TOTAL	0.05000	mg/L
03-37	02/05/88	FLUORIDE, TOTAL	0.24000	mg/L
03-37	02/05/88	NITRATE-N	2.10000	mg/L
03-37	02/05/88	RADIUM, TOTAL	0.10000	pCi/l
03-37	02/05/88	GROSS ALPHA	0.00000	pCi/l
03-37	02/05/88	GROSS BETA	3.00000	mlrem/y
03-37	02/05/88	COLIFORM	0.00000	#/100ml
03-37	02/05/88	1,1,1-TRICHLOROETHANE	0.00300	mg/L
03-37	02/05/88	TRICHLOROETHYLENE	0.00700	mg/L
03-37	04/25/88	pH	7.56000	S.U.
03-37	04/25/88	SPECIFIC CONDUCTANCE	354.00000	umho/cm
03-37	04/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03-37	04/25/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-37	04/25/88	SODIUM	9.80000	mg/L
03-37	04/25/88	SULFATE	36.00000	mg/L
03-37	04/25/88	CHLORIDE	2.00000	mg/L
03-37	04/25/88	RDX	0.03400	mg/L
03-37	04/25/88	FLUORIDE, TOTAL	0.20000	mg/L
03-37	04/25/88	NITRATE-N	1.92000	mg/L
03-37	04/25/88	RADIUM, TOTAL	0.00000	mg/L
03-37	04/25/88	GROSS ALPHA	0.90000	mg/L
03-37	04/25/88	GROSS BETA	3.30000	mg/L
03-37	04/25/88	COLIFORM	0.00000	#/100ml
03-37	04/25/88	TRICHLOROETHYLENE	0.01400	mg/L
03-37	04/25/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.03000	mg/L
03-37	10/28/88	pH	7.20000	S.U.
03-37	10/28/88	SPECIFIC CONDUCTANCE	279.00000	umho/cm
03-37	10/28/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-37	10/28/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03-37	10/28/88	MANGANESE	0.01000	mg/L
03-37	10/28/88	SODIUM	13.00000	mg/L
03-37	10/28/88	SULFATE	31.00000	mg/L
03-37	10/28/88	CHLORIDE	4.00000	mg/L
03-37	10/28/88	BICARBONATE	385.00000	mg/L
03-37	10/28/88	CALCIUM	47.00000	mg/L

03-37	10/28/88	MAGNESIUM	8.00000	mg/L
03-37	10/28/88	POTASSIUM	3.00000	mg/L
03-37	10/28/88	NITRATE-N	1.45000	mg/L
03-37	10/28/88	GROSS BETA	5.00000	pcu/L
03-37	10/28/88	COLIFORM	0.00000	TC/.1L
03-37	10/28/88	TRICHLOROETHYLENE	0.01000	mg/L
03-37	01/15/89	pH	7.60000	S.U.
03-37	01/15/89	SPECIFIC CONDUCTANCE	378.00000	umho/cm
03-37	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03-37	01/15/89	MANGANESE	0.04000	mg/L
03-37	01/15/89	SODIUM	15.00000	mg/L
03-37	01/15/89	SULFATE	36.00000	mg/L
03-37	01/15/89	CHLORIDE	4.00000	mg/L
03-37	01/15/89	AMMONIA-NITROGEN	0.10000	mg/L
03-37	01/15/89	BICARBONATE	269.00000	mg/L
03-37	01/15/89	CALCIUM	44.00000	mg/L
03-37	01/15/89	MAGNESIUM	12.00000	mg/L
03-37	01/15/89	POTASSIUM	2.20000	mg/L
03-37	01/15/89	BARIUM, TOTAL	0.05100	mg/L
03-37	01/15/89	FLUORIDE, TOTAL	0.30000	mg/L
03-37	01/15/89	COLIFORM	0.00000	TC/.1L
03-37	01/15/89	TRICHLOROETHYLENE	0.01000	mg/L
03-37	04/15/89	pH	7.70000	S.U.
03-37	04/15/89	SPECIFIC CONDUCTANCE	410.00000	umho/cm
03-37	04/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03-37	04/15/89	SODIUM	12.70000	mg/L
03-37	04/15/89	CALCIUM	40.10000	mg/L
03-37	04/15/89	MAGNESIUM	6.20000	mg/L
03-37	04/15/89	POTASSIUM	3.00000	mg/L
03-37	04/15/89	SULFATE	37.00000	mg/L
03-37	04/15/89	CHLORIDE	7.00000	mg/L
03-37	04/15/89	BICARBONATE	284.00000	mg/L
03-37	04/15/89	RDX	0.03000	mg/L
03-37	04/15/89	FLUORIDE, TOTAL	0.07000	mg/L
03-37	04/15/89	NITRATE-N	1.90000	mg/L
03-37	04/15/89	COLIFORM	20.00000	TC/.1L
03-37	04/15/89	TRICHLOROETHYLENE	0.00800	mg/L
03-37	07/11/89	pH	7.50000	S.U.
03-37	07/11/89	SPECIFIC CONDUCTANCE	316.00000	umho/cm
03-37	07/11/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-37	07/11/89	MANGANESE	0.01300	mg/L
03-37	07/11/89	SODIUM	10.00000	mg/L
03-37	07/11/89	CALCIUM	44.00000	mg/L
03-37	07/11/89	MAGNESIUM	6.70000	mg/L
03-37	07/11/89	POTASSIUM	2.00000	mg/L
03-37	07/11/89	SULFATE	39.00000	mg/L
03-37	07/11/89	CHLORIDE	12.00000	mg/L
03-37	07/11/89	BICARBONATE	166.00000	mg/L
03-37	07/11/89	BARIUM, TOTAL	0.04000	mg/L
03-37	07/11/89	FLUORIDE, TOTAL	0.10000	mg/L
03-37	07/11/89	NITRATE-N	0.90000	mg/L
03-37	07/11/89	COLIFORM	0.00000	TC/.1L
03-37	07/11/89	TRICHLOROETHYLENE	0.00700	mg/L
03-37	07/11/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03-37	10/24/89	pH	7.70000	S.U.
03-37	10/24/89	SPECIFIC CONDUCTANCE	342.00000	umho/cm
03-37	10/24/89	CALCIUM	42.00000	mg/L
03-37	10/24/89	MAGNESIUM	6.00000	mg/L
03-37	10/24/89	POTASSIUM	1.90000	mg/L
03-37	10/24/89	BICARBONATE	205.00000	mg/L

03-37	10/24/89	TRICHLOROETHYLENE	0.00900	mg/L
03-37	01/28/90	pH	7.70000	S.U.
03-37	01/28/90	SPECIFIC CONDUCTANCE	281.00000	umho/cm
03-37	01/28/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03-37	01/28/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-37	01/28/90	MANGANESE	0.00800	mg/L
03-37	01/28/90	SODIUM	7.00000	mg/L
03-37	01/28/90	CALCIUM	36.00000	mg/L
03-37	01/28/90	MAGNESIUM	5.00000	mg/L
03-37	01/28/90	POTASSIUM	2.00000	mg/L
03-37	01/28/90	SULFATE	32.00000	mg/L
03-37	01/28/90	CHLORIDE	12.00000	mg/L
03-37	01/28/90	BICARBONATE	188.00000	mg/L
03-37	01/28/90	RDX	0.03000	mg/L
03-37	01/28/90	TRICHLOROETHYLENE	0.00700	mg/L
03-37	04/21/90	pH	7.70000	S.U.
03-37	04/21/90	SPECIFIC CONDUCTANCE	305.00000	umho/cm
03-37	04/21/90	CALCIUM	43.00000	mg/L
03-37	04/21/90	MAGNESIUM	6.00000	mg/L
03-37	04/21/90	POTASSIUM	2.00000	mg/L
03-37	04/21/90	BICARBONATE	191.00000	mg/L
03-37	04/21/90	RDX	0.04000	mg/L
03-37	04/21/90	TRICHLOROETHYLENE	0.00300	mg/L
03-37	07/11/90	pH	8.30000	S.U.
03-37	07/11/90	SPECIFIC CONDUCTANCE	410.00000	umho/cm
03-37	07/11/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03-37	07/11/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-37	07/11/90	SODIUM	4.00000	mg/L
03-37	07/11/90	CALCIUM	41.00000	mg/L
03-37	07/11/90	MAGNESIUM	7.00000	mg/L
03-37	07/11/90	POTASSIUM	2.00000	mg/L
03-37	07/11/90	BICARBONATE	220.00000	mg/L
03-37	07/11/90	TRICHLOROETHYLENE	0.00600	mg/L
03-37	10/19/90	pH	7.20000	S.U.
03-37	10/19/90	SPECIFIC CONDUCTANCE	603.00000	umho/cm
03-37	10/19/90	SODIUM	13.00000	mg/L
03-37	10/19/90	CALCIUM	50.00000	mg/L
03-37	10/19/90	MAGNESIUM	8.00000	mg/L
03-37	10/19/90	POTASSIUM	1.00000	mg/L
03-37	10/19/90	TRICHLOROETHYLENE	0.01500	mg/L
03-37	01/12/91	pH	7.40000	S.U.
03-37	01/12/91	SPECIFIC CONDUCTANCE	304.00000	umho/cm
03-37	01/12/91	TOTAL ORGANIC CARBON	1.19000	mg/L
03-37	01/12/91	MANGANESE	0.02000	mg/L
03-37	01/12/91	SODIUM	5.00000	mg/L
03-37	01/12/91	CALCIUM	26.00000	mg/L
03-37	01/12/91	MAGNESIUM	75.00000	mg/L
03-37	01/12/91	POTASSIUM	2.00000	mg/L
03-37	01/12/91	SULFATE	40.00000	mg/L
03-37	01/12/91	CHLORIDE	15.00000	mg/L
03-37	01/12/91	BICARBONATE	165.00000	mg/L
03-37	01/12/91	TRICHLOROETHYLENE	0.00400	mg/L
03-37	04/06/91	pH	7.31000	S.U.
03-37	04/06/91	SPECIFIC CONDUCTANCE	354.00000	umho/cm
03-37	04/06/91	CALCIUM	48.20000	mg/L
03-37	04/06/91	MAGNESIUM	0.70000	mg/L
03-37	04/06/91	POTASSIUM	1.60000	mg/L
03-37	04/06/91	BICARBONATE	132.00000	mg/L
03-37	04/06/91	TRICHLOROETHYLENE	0.00600	mg/L
03-37	07/12/91	pH	7.56000	S.U.

03-37	07/12/91	SPECIFIC CONDUCTANCE	301.00000	umho/cm
03-37	07/12/91	TOTAL ORGANIC CARBON	1.97000	mg/L
03-37	07/12/91	IRON, TOTAL	0.16600	mg/L
03-37	07/12/91	MANGANESE	0.01200	mg/L
03-37	07/12/91	SODIUM	7.70000	mg/L
03-37	07/12/91	CALCIUM	35.70000	mg/L
03-37	07/12/91	MAGNESIUM	6.50000	mg/L
03-37	07/12/91	POTASSIUM	5.70000	mg/L
03-37	07/12/91	BICARBONATE	203.00000	mg/L
03-37	07/12/91	RDX	0.02100	mg/L
03-37	07/12/91	TRICHLOROETHENE	0.01000	mg/L
03-37	10/05/91	pH	7.40000	S.U.
03-37	10/05/91	SPECIFIC CONDUCTANCE	387.00000	umho/cm
03-37	10/05/91	SODIUM	56.30000	mg/L
03-37	10/05/91	TRICHLOROETHYLENE	0.00600	mg/L
03-37	10/05/91	BICARBONATE	287.00000	mg/L
03-37	10/05/91	CALCIUM	66.10000	mg/L
03-37	10/05/91	MAGNESIUM	10.30000	mg/L
03-37	10/05/91	POTASSIUM	1.60000	mg/L
03-37	01/07/92	pH	8.30000	S.U.
03-37	01/07/92	SPECIFIC CONDUCTANCE	299.00000	umho/cm
03-37	01/07/92	TOTAL ORGANIC CARBON	2.10000	mg/L
03-37	01/07/92	SODIUM	6.70000	mg/L
03-37	01/07/92	CALCIUM	48.20000	mg/L
03-37	01/07/92	MAGNESIUM	7.40000	mg/L
03-37	01/07/92	POTASSIUM	2.30000	mg/L
03-37	01/07/92	SULFATE	28.00000	mg/L
03-37	01/07/92	CHLORIDE	8.00000	mg/L
03-37	01/07/92	BICARBONATE	185.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-38	11/27/87	pH	7.53000	S.U.
03-38	11/27/87	SPECIFIC CONDUCTANCE	583.00000	umho/cm
03-38	11/27/87	TOTAL ORGANIC CARBON	0.00000	mg/L
03-38	11/27/87	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03-38	11/27/87	MANGANESE	0.00800	mg/L
03-38	11/27/87	SODIUM	9.00000	mg/L
03-38	11/27/87	SULFATE	115.00000	mg/L
03-38	11/27/87	CHLORIDE	8.00000	mg/L
03-38	11/27/87	RDX	0.02000	mg/L
03-38	11/27/87	FLUORIDE, TOTAL	0.13000	mg/L
03-38	11/27/87	NITRATE-N	1.90000	mg/L
03-38	11/27/87	RADIUM, TOTAL	0.00000	pCi/l
03-38	11/27/87	GROSS ALPHA	1.60000	pCi/l
03-38	11/27/87	GROSS BETA	2.50000	mlrem/y
03-38	11/27/87	TRICHLOROETHYLENE	0.01000	mg/L
03-38	11/27/87	1,2-DICHLOROETHANE	0.00400	mg/L
03-38	11/27/87	1,1,1-TRICHLOROETHANE	0.00500	mg/L
03-38	11/27/87	TRICHLOROETHENE	0.06200	mg/L
03-38	11/27/87	BENZENE	0.05300	mg/L
03-38	02/03/88	pH	6.96000	S.U.
03-38	02/03/88	SPECIFIC CONDUCTANCE	661.00000	umho/cm
03-38	02/03/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-38	02/03/88	TOTAL ORGANIC HALOGENS	0.06900	mg/L
03-38	02/03/88	MANGANESE	0.02000	mg/L
03-38	02/03/88	SODIUM	9.00000	mg/L
03-38	02/03/88	SULFATE	120.00000	mg/L
03-38	02/03/88	CHLORIDE	6.00000	mg/L
03-38	02/03/88	RDX	0.03000	mg/L
03-38	02/03/88	FLUORIDE, TOTAL	0.16000	mg/L
03-38	02/03/88	NITRATE-N	2.00000	mg/L
03-38	02/03/88	RADIUM, TOTAL	0.00000	pCi/l
03-38	02/03/88	GROSS ALPHA	0.90000	pCi/l
03-38	02/03/88	GROSS BETA	2.30000	mlrem/y
03-38	02/03/88	COLIFORM	0.00000	#/100ml
03-38	02/03/88	TRICHLOROETHYLENE	0.05300	mg/L
03-38	02/03/88	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03-38	04/24/88	pH	6.76000	S.U.
03-38	04/24/88	SPECIFIC CONDUCTANCE	689.00000	umho/cm
03-38	04/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-38	04/24/88	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03-38	04/24/88	SODIUM	10.30000	mg/L
03-38	04/24/88	SULFATE	120.00000	mg/L
03-38	04/24/88	CHLORIDE	5.00000	mg/L
03-38	04/24/88	RDX	0.02800	mg/L
03-38	04/24/88	FLUORIDE, TOTAL	0.33000	mg/L
03-38	04/24/88	NITRATE-N	1.20000	mg/L
03-38	04/24/88	RADIUM, TOTAL	0.00000	mg/L
03-38	04/24/88	GROSS ALPHA	1.30000	mg/L
03-38	04/24/88	GROSS BETA	5.10000	mg/L
03-38	04/24/88	COLIFORM	0.00000	#/100ml
03-38	04/24/88	TRICHLOROETHYLENE	0.05500	mg/L
03-38	04/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03-38	10/26/88	pH	7.10000	S.U.
03-38	10/26/88	SPECIFIC CONDUCTANCE	507.00000	umho/cm
03-38	10/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03-38	10/26/88	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-38	10/26/88	SODIUM	3.00000	mg/L
03-38	10/26/88	SULFATE	140.00000	mg/L

03-38	10/26/88	CHLORIDE	5.00000	mg/L
03-38	10/26/88	AMMONIA-NITROGEN	1.00000	mg/L
03-38	10/26/88	BICARBONATE	494.00000	mg/L
03-38	10/26/88	CALCIUM	87.00000	mg/L
03-38	10/26/88	MAGNESIUM	20.00000	mg/L
03-38	10/26/88	POTASSIUM	2.00000	mg/L
03-38	10/26/88	FLUORIDE, TOTAL	0.18000	mg/L
03-38	10/26/88	NITRATE-N	2.05000	mg/L
03-38	10/26/88	GROSS BETA	6.00000	pcu/L
03-38	10/26/88	COLIFORM	0.00000	TC/.1L
03-38	10/26/88	TRICHLOROETHYLENE	0.05000	mg/L
03-38	10/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.14000	mg/L
03-38	01/15/89	pH	7.40000	S.U.
03-38	01/15/89	SPECIFIC CONDUCTANCE	628.00000	umho/cm
03-38	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03-38	01/15/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-38	01/15/89	SODIUM	7.00000	mg/L
03-38	01/15/89	SULFATE	170.00000	mg/L
03-38	01/15/89	CHLORIDE	4.00000	mg/L
03-38	01/15/89	AMMONIA-NITROGEN	0.20000	mg/L
03-38	01/15/89	BICARBONATE	415.00000	mg/L
03-38	01/15/89	CALCIUM	40.00000	mg/L
03-38	01/15/89	MAGNESIUM	11.00000	mg/L
03-38	01/15/89	POTASSIUM	1.30000	mg/L
03-38	01/15/89	FLUORIDE, TOTAL	0.53000	mg/L
03-38	01/15/89	NITRATE-N	2.30000	mg/L
03-38	01/15/89	COLIFORM	0.00000	TC/.1L
03-38	01/15/89	TRICHLOROETHYLENE	0.05000	mg/L
03-38	04/16/89	pH	6.80000	S.U.
03-38	04/16/89	SPECIFIC CONDUCTANCE	606.00000	umho/cm
03-38	04/16/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03-38	04/16/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03-38	04/16/89	MANGANESE	0.01000	mg/L
03-38	04/16/89	SODIUM	4.60000	mg/L
03-38	04/16/89	CALCIUM	96.00000	mg/L
03-38	04/16/89	MAGNESIUM	21.00000	mg/L
03-38	04/16/89	POTASSIUM	2.00000	mg/L
03-38	04/16/89	SULFATE	110.00000	mg/L
03-38	04/16/89	CHLORIDE	8.00000	mg/L
03-38	04/16/89	BICARBONATE	265.00000	mg/L
03-38	04/16/89	RDX	0.02000	mg/L
03-38	04/16/89	FLUORIDE, TOTAL	0.17000	mg/L
03-38	04/16/89	NITRATE-N	2.50000	mg/L
03-38	04/16/89	COLIFORM	0.00000	TC/.1L
03-38	04/16/89	TRICHLOROETHYLENE	0.03900	mg/L
03-38	07/11/89	pH	6.80000	S.U.
03-38	07/11/89	SPECIFIC CONDUCTANCE	632.00000	umho/cm
03-38	07/11/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-38	07/11/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-38	07/11/89	SODIUM	4.60000	mg/L
03-38	07/11/89	CALCIUM	100.00000	mg/L
03-38	07/11/89	MAGNESIUM	22.00000	mg/L
03-38	07/11/89	POTASSIUM	2.00000	mg/L
03-38	07/11/89	SULFATE	79.00000	mg/L
03-38	07/11/89	CHLORIDE	12.00000	mg/L
03-38	07/11/89	BICARBONATE	156.00000	mg/L
03-38	07/11/89	FLUORIDE, TOTAL	0.20000	mg/L
03-38	07/11/89	NITRATE-N	1.14000	mg/L
03-38	07/11/89	COLIFORM	0.00000	TC/.1L
03-38	07/11/89	1,1,1-TRICHLOROETHANE	0.00200	mg/L

03-38	07/11/89	TRICHLOROETHYLENE	0.03700	mg/L
03-38	10/21/89	pH	7.00000	S.U.
03-38	10/21/89	SPECIFIC CONDUCTANCE	573.00000	umho/cm
03-38	10/21/89	CALCIUM	93.00000	mg/L
03-38	10/21/89	MAGNESIUM	20.00000	mg/L
03-38	10/21/89	POTASSIUM	1.40000	mg/L
03-38	10/21/89	BICARBONATE	195.00000	mg/L
03-38	10/21/89	RDX	0.01500	mg/L
03-38	10/21/89	TRICHLOROETHYLENE	0.04100	mg/L
03-38	02/03/90	pH	7.30000	S.U.
03-38	02/03/90	SPECIFIC CONDUCTANCE	562.00000	umho/cm
03-38	02/03/90	TOTAL ORGANIC CARBON	2.70000	mg/L
03-38	02/03/90	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03-38	02/03/90	SODIUM	3.00000	mg/L
03-38	02/03/90	CALCIUM	83.00000	mg/L
03-38	02/03/90	MAGNESIUM	18.00000	mg/L
03-38	02/03/90	POTASSIUM	1.00000	mg/L
03-38	02/03/90	SULFATE	130.00000	mg/L
03-38	02/03/90	CHLORIDE	9.00000	mg/L
03-38	02/03/90	BICARBONATE	305.00000	mg/L
03-38	02/03/90	RDX	0.02000	mg/L
03-38	02/03/90	TRICHLOROETHYLENE	0.04200	mg/L
03-38	04/19/90	pH	7.10000	S.U.
03-38	04/19/90	SPECIFIC CONDUCTANCE	443.00000	umho/cm
03-38	04/19/90	IRON, TOTAL	1.52000	mg/L
03-38	04/19/90	CALCIUM	107.00000	mg/L
03-38	04/19/90	MAGNESIUM	25.00000	mg/L
03-38	04/19/90	POTASSIUM	2.00000	mg/L
03-38	04/19/90	BICARBONATE	344.00000	mg/L
03-38	04/19/90	RDX	0.04000	mg/L
03-38	04/19/90	TRICHLOROETHYLENE	0.03800	mg/L
03-38	07/11/90	pH	6.50000	S.U.
03-38	07/11/90	SPECIFIC CONDUCTANCE	659.00000	umho/cm
03-38	07/11/90	TOTAL ORGANIC CARBON	3.00000	mg/L
03-38	07/11/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03-38	07/11/90	SODIUM	3.00000	mg/L
03-38	07/11/90	CALCIUM	92.00000	mg/L
03-38	07/11/90	MAGNESIUM	22.00000	mg/L
03-38	07/11/90	POTASSIUM	1.00000	mg/L
03-38	07/11/90	BICARBONATE	185.00000	mg/L
03-38	07/11/90	TRICHLOROETHYLENE	0.04500	mg/L
03-38	10/18/90	pH	7.20000	S.U.
03-38	10/18/90	SPECIFIC CONDUCTANCE	543.00000	umho/cm
03-38	10/18/90	SODIUM	6.00000	mg/L
03-38	10/18/90	CALCIUM	106.00000	mg/L
03-38	10/18/90	MAGNESIUM	24.00000	mg/L
03-38	10/18/90	AMMONIA-NITROGEN	0.10000	mg/L
03-38	10/18/90	TRICHLOROETHYLENE	0.05100	mg/L
03-38	01/14/91	pH	7.05000	S.U.
03-38	01/14/91	SPECIFIC CONDUCTANCE	575.00000	umho/cm
03-38	01/14/91	TOTAL ORGANIC CARBON	1.15000	mg/L
03-38	01/14/91	TOTAL ORGANIC HALOGENS	0.04400	mg/L
03-38	01/14/91	SODIUM	5.00000	mg/L
03-38	01/14/91	CALCIUM	76.00000	mg/L
03-38	01/14/91	MAGNESIUM	26.00000	mg/L
03-38	01/14/91	POTASSIUM	2.00000	mg/L
03-38	01/14/91	SULFATE	90.00000	mg/L
03-38	01/14/91	CHLORIDE	17.00000	mg/L
03-38	01/14/91	BICARBONATE	286.00000	mg/L
03-38	01/14/91	TRICHLOROETHYLENE	0.03600	mg/L

03-38	04/05/91	pH	6.73000	S.U.
03-38	04/05/91	SPECIFIC CONDUCTANCE	563.00000	umho/cm
03-38	04/05/91	CALCIUM	96.90000	mg/L
03-38	04/05/91	MAGNESIUM	21.30000	mg/L
03-38	04/05/91	POTASSIUM	1.40000	mg/L
03-38	04/05/91	BICARBONATE	179.00000	mg/L
03-38	04/05/91	RDX	0.02000	mg/L
03-38	04/05/91	TRICHLOROETHYLENE	0.06600	mg/L
03-38	07/12/91	pH	6.80000	S.U.
03-38	07/12/91	SPECIFIC CONDUCTANCE	570.00000	umho/cm
03-38	07/12/91	TOTAL ORGANIC CARBON	3.02000	mg/L
03-38	07/12/91	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-38	07/12/91	IRON, TOTAL	0.20000	mg/L
03-38	07/12/91	MANGANESE	0.01200	mg/L
03-38	07/12/91	SODIUM	3.60000	mg/L
03-38	07/12/91	CALCIUM	66.00000	mg/L
03-38	07/12/91	MAGNESIUM	12.60000	mg/L
03-38	07/12/91	POTASSIUM	0.10000	mg/L
03-38	07/12/91	BICARBONATE	323.00000	mg/L
03-38	07/12/91	TRICHLOROETHENE	0.03500	mg/L
03-38	10/07/91	pH	6.80000	S.U.
03-38	10/07/91	SPECIFIC CONDUCTANCE	521.00000	umho/cm
03-38	10/07/91	SODIUM	3.40000	mg/L
03-38	10/07/91	TRICHLOROETHYLENE	0.04200	mg/L
03-38	10/07/91	BICARBONATE	299.00000	mg/L
03-38	10/07/91	CALCIUM	94.20000	mg/L
03-38	10/07/91	MAGNESIUM	31.20000	mg/L
03-38	10/07/91	POTASSIUM	1.50000	mg/L
03-38	01/09/92	pH	7.70000	S.U.
03-38	01/09/92	SPECIFIC CONDUCTANCE	530.00000	umho/cm
03-38	01/09/92	TOTAL ORGANIC CARBON	1.58000	mg/L
03-38	01/09/92	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-38	01/09/92	IRON, TOTAL	0.07000	mg/L
03-38	01/09/92	MANGANESE	0.00800	mg/L
03-38	01/09/92	SODIUM	4.20000	mg/L
03-38	01/09/92	CALCIUM	92.50000	mg/L
03-38	01/09/92	MAGNESIUM	20.80000	mg/L
03-38	01/09/92	POTASSIUM	1.60000	mg/L
03-38	01/09/92	SULFATE	95.00000	mg/L
03-38	01/09/92	CHLORIDE	8.00000	mg/L
03-38	01/09/92	BICARBONATE	287.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03-39	11/27/87	pH	7.70000	S.U.
03-39	11/27/87	SPECIFIC CONDUCTANCE	416.00000	umho/cm
03-39	11/27/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03-39	11/27/87	TOTAL ORGANIC HALOGENS	0.02700	mg/L
03-39	11/27/87	MANGANESE	0.04000	mg/L
03-39	11/27/87	SODIUM	8.00000	mg/L
03-39	11/27/87	SULFATE	35.00000	mg/L
03-39	11/27/87	CHLORIDE	11.00000	mg/L
03-39	11/27/87	RDX	0.02000	mg/L
03-39	11/27/87	FLUORIDE, TOTAL	0.15000	mg/L
03-39	11/27/87	NITRATE-N	2.10000	mg/L
03-39	11/27/87	RADIUM, TOTAL	0.10000	pCi/l
03-39	11/27/87	GROSS ALPHA	0.00000	pCi/l
03-39	11/27/87	GROSS BETA	0.40000	mlrem/y
03-39	11/27/87	TRICHLOROETHYLENE	0.01000	mg/L
03-39	11/27/87	1,1,1-TRICHLOROETHANE	0.02400	mg/L
03-39	11/27/87	TRICHLOROETHENE	0.04800	mg/L
03-39	02/03/88	pH	6.89000	S.U.
03-39	02/03/88	SPECIFIC CONDUCTANCE	535.00000	umho/cm
03-39	02/03/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03-39	02/03/88	TOTAL ORGANIC HALOGENS	0.06200	mg/L
03-39	02/03/88	MANGANESE	0.01000	mg/L
03-39	02/03/88	SODIUM	7.00000	mg/L
03-39	02/03/88	SULFATE	40.00000	mg/L
03-39	02/03/88	CHLORIDE	8.00000	mg/L
03-39	02/03/88	RDX	0.02000	mg/L
03-39	02/03/88	FLUORIDE, TOTAL	0.24000	mg/L
03-39	02/03/88	NITRATE-N	2.80000	mg/L
03-39	02/03/88	RADIUM, TOTAL	0.10000	pCi/l
03-39	02/03/88	GROSS ALPHA	0.00000	pCi/l
03-39	02/03/88	GROSS BETA	0.50000	mlrem/y
03-39	02/03/88	COLIFORM	0.00000	#/100ml
03-39	02/03/88	TRICHLOROETHYLENE	0.06700	mg/L
03-39	10/25/88	pH	7.60000	S.U.
03-39	10/25/88	SPECIFIC CONDUCTANCE	397.00000	umho/cm
03-39	10/25/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03-39	10/25/88	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03-39	10/25/88	SODIUM	6.00000	mg/L
03-39	10/25/88	SULFATE	40.00000	mg/L
03-39	10/25/88	CHLORIDE	5.00000	mg/L
03-39	10/25/88	AMMONIA-NITROGEN	0.44000	mg/L
03-39	10/25/88	BICARBONATE	396.00000	mg/L
03-39	10/25/88	CALCIUM	73.00000	mg/L
03-39	10/25/88	MAGNESIUM	9.40000	mg/L
03-39	10/25/88	POTASSIUM	2.00000	mg/L
03-39	10/25/88	FLUORIDE, TOTAL	0.18000	mg/L
03-39	10/25/88	NITRATE-N	2.85000	mg/L
03-39	10/25/88	GROSS BETA	7.00000	pcu/L
03-39	10/25/88	COLIFORM	0.00000	TC/.1L
03-39	10/25/88	TRICHLOROETHYLENE	0.09000	mg/L
03-39	10/25/88	DI-N-BUTYL PHTHALATE	0.04000	mg/L
03-39	10/25/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03-39	01/15/89	pH	7.40000	S.U.
03-39	01/15/89	SPECIFIC CONDUCTANCE	514.00000	umho/cm
03-39	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03-39	01/15/89	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03-39	01/15/89	SODIUM	6.50000	mg/L
03-39	01/15/89	SULFATE	46.00000	mg/L

03-39	01/15/89	CHLORIDE	6.00000	mg/L
03-39	01/15/89	AMMONIA-NITROGEN	0.34000	mg/L
03-39	01/15/89	BICARBONATE	415.00000	mg/L
03-39	01/15/89	CALCIUM	101.00000	mg/L
03-39	01/15/89	MAGNESIUM	13.00000	mg/L
03-39	01/15/89	POTASSIUM	1.30000	mg/L
03-39	01/15/89	FLUORIDE, TOTAL	0.53000	mg/L
03-39	01/15/89	NITRATE-N	3.00000	mg/L
03-39	01/15/89	COLIFORM	0.00000	TC/.1L
03-39	01/15/89	TRICHLOROETHYLENE	0.03000	mg/L
03-39	04/16/89	pH	7.10000	S.U.
03-39	04/16/89	SPECIFIC CONDUCTANCE	504.00000	umho/cm
03-39	04/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03-39	04/16/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03-39	04/16/89	SODIUM	3.50000	mg/L
03-39	04/16/89	CALCIUM	89.00000	mg/L
03-39	04/16/89	MAGNESIUM	12.00000	mg/L
03-39	04/16/89	POTASSIUM	2.00000	mg/L
03-39	04/16/89	SULFATE	51.00000	mg/L
03-39	04/16/89	CHLORIDE	9.00000	mg/L
03-39	04/16/89	BICARBONATE	245.00000	mg/L
03-39	04/16/89	FLUORIDE, TOTAL	0.17000	mg/L
03-39	04/16/89	COLIFORM	0.00000	TC/.1L
03-39	04/16/89	TRICHLOROETHYLENE	0.05700	mg/L
03-39	07/11/89	pH	7.20000	S.U.
03-39	07/11/89	SPECIFIC CONDUCTANCE	502.00000	umho/cm
03-39	07/11/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03-39	07/11/89	TOTAL ORGANIC HALOGENS	0.08200	mg/L
03-39	07/11/89	SODIUM	3.00000	mg/L
03-39	07/11/89	CALCIUM	84.00000	mg/L
03-39	07/11/89	MAGNESIUM	10.00000	mg/L
03-39	07/11/89	POTASSIUM	1.00000	mg/L
03-39	07/11/89	SULFATE	43.00000	mg/L
03-39	07/11/89	CHLORIDE	11.00000	mg/L
03-39	07/11/89	BICARBONATE	264.00000	mg/L
03-39	07/11/89	FLUORIDE, TOTAL	0.14000	mg/L
03-39	07/11/89	NITRATE-N	2.50000	mg/L
03-39	07/11/89	COLIFORM	0.00000	TC/.1L
03-39	07/11/89	TRICHLOROETHYLENE	0.06000	mg/L
03-39	10/21/89	pH	7.50000	S.U.
03-39	10/21/89	SPECIFIC CONDUCTANCE	492.00000	umho/cm
03-39	10/21/89	CALCIUM	81.00000	mg/L
03-39	10/21/89	MAGNESIUM	10.00000	mg/L
03-39	10/21/89	POTASSIUM	1.30000	mg/L
03-39	10/21/89	BICARBONATE	244.00000	mg/L
03-39	10/21/89	RDX	0.01500	mg/L
03-39	10/21/89	TRICHLOROETHYLENE	0.07600	mg/L
03-39	02/03/90	pH	7.80000	S.U.
03-39	02/03/90	SPECIFIC CONDUCTANCE	433.00000	umho/cm
03-39	02/03/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03-39	02/03/90	TOTAL ORGANIC HALOGENS	0.20000	mg/L
03-39	02/03/90	SODIUM	2.00000	mg/L
03-39	02/03/90	CALCIUM	76.00000	mg/L
03-39	02/03/90	MAGNESIUM	9.00000	mg/L
03-39	02/03/90	POTASSIUM	1.00000	mg/L
03-39	02/03/90	SULFATE	34.00000	mg/L
03-39	02/03/90	CHLORIDE	10.00000	mg/L
03-39	02/03/90	BICARBONATE	232.00000	mg/L
03-39	02/03/90	TRICHLOROETHYLENE	0.09500	mg/L
03-39	02/03/90	DI-N-BUTYL PHTHALATE	0.01600	mg/L

03-39	04/19/90	pH	7.20000	S.U.
03-39	04/19/90	SPECIFIC CONDUCTANCE	456.00000	umho/cm
03-39	04/19/90	CALCIUM	87.00000	mg/L
03-39	04/19/90	MAGNESIUM	11.00000	mg/L
03-39	04/19/90	POTASSIUM	1.00000	mg/L
03-39	04/19/90	BICARBONATE	275.00000	mg/L
03-39	04/19/90	TRICHLOROETHYLENE	0.03500	mg/L
03-39	07/11/90	pH	6.60000	S.U.
03-39	07/11/90	SPECIFIC CONDUCTANCE	531.00000	umho/cm
03-39	07/11/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03-39	07/11/90	TOTAL ORGANIC HALOGENS	0.12000	mg/L
03-39	07/11/90	SODIUM	2.00000	mg/L
03-39	07/11/90	CALCIUM	77.00000	mg/L
03-39	07/11/90	MAGNESIUM	11.00000	mg/L
03-39	07/11/90	POTASSIUM	1.00000	mg/L
03-39	07/11/90	BICARBONATE	248.00000	mg/L
03-39	07/11/90	TRICHLOROETHYLENE	0.11000	mg/L
03-39	10/18/90	pH	7.30000	S.U.
03-39	10/18/90	SPECIFIC CONDUCTANCE	455.00000	umho/cm
03-39	10/18/90	SODIUM	6.00000	mg/L
03-39	10/18/90	CALCIUM	93.00000	mg/L
03-39	10/18/90	MAGNESIUM	11.00000	mg/L
03-39	10/18/90	TRICHLOROETHYLENE	0.12300	mg/L
03-39	01/14/91	pH	7.53000	S.U.
03-39	01/14/91	SPECIFIC CONDUCTANCE	470.00000	umho/cm
03-39	01/14/91	TOTAL ORGANIC CARBON	0.59000	mg/L
03-39	01/14/91	TOTAL ORGANIC HALOGENS	0.08300	mg/L
03-39	01/14/91	MANGANESE	0.01000	mg/L
03-39	01/14/91	SODIUM	3.00000	mg/L
03-39	01/14/91	CALCIUM	59.00000	mg/L
03-39	01/14/91	MAGNESIUM	13.00000	mg/L
03-39	01/14/91	POTASSIUM	1.00000	mg/L
03-39	01/14/91	SULFATE	48.00000	mg/L
03-39	01/14/91	CHLORIDE	11.00000	mg/L
03-39	01/14/91	BICARBONATE	207.00000	mg/L
03-39	01/14/91	TRICHLOROETHYLENE	0.06600	mg/L
03-39	04/05/91	pH	7.13000	S.U.
03-39	04/05/91	SPECIFIC CONDUCTANCE	459.00000	umho/cm
03-39	04/05/91	CALCIUM	95.50000	mg/L
03-39	04/05/91	MAGNESIUM	9.70000	mg/L
03-39	04/05/91	POTASSIUM	1.30000	mg/L
03-39	04/05/91	BICARBONATE	269.00000	mg/L
03-39	04/05/91	TRICHLOROETHYLENE	0.22200	mg/L
03-39	07/10/91	pH	7.13000	S.U.
03-39	07/10/91	SPECIFIC CONDUCTANCE	500.00000	umho/cm
03-39	07/10/91	TOTAL ORGANIC CARBON	1.07000	mg/L
03-39	07/10/91	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03-39	07/10/91	IRON, TOTAL	0.11700	mg/L
03-39	07/10/91	MANGANESE	0.00700	mg/L
03-39	07/10/91	SODIUM	3.60000	mg/L
03-39	07/10/91	CALCIUM	78.00000	mg/L
03-39	07/10/91	MAGNESIUM	12.40000	mg/L
03-39	07/10/91	POTASSIUM	2.10000	mg/L
03-39	07/10/91	BICARBONATE	317.00000	mg/L
03-39	07/10/91	TRICHLOROETHENE	0.08100	mg/L
03-39	10/07/91	pH	7.10000	S.U.
03-39	10/07/91	SPECIFIC CONDUCTANCE	452.00000	umho/cm
03-39	10/07/91	SODIUM	3.00000	mg/L
03-39	10/07/91	1,1,1-TRICHLOROETHANE	0.00100	mg/L
03-39	10/07/91	TRICHLOROETHYLENE	0.01600	mg/L

03-39	10/07/91	BICARBONATE	329.00000	mg/L
03-39	10/07/91	CALCIUM	81.10000	mg/L
03-39	10/07/91	MAGNESIUM	11.60000	mg/L
03-39	10/07/91	POTASSIUM	2.40000	mg/L
03-39	01/09/92	pH	7.60000	S.U.
03-39	01/09/92	SPECIFIC CONDUCTANCE	446.00000	umho/cm
03-39	01/09/92	TOTAL ORGANIC CARBON	1.24000	mg/L
03-39	01/09/92	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03-39	01/09/92	SODIUM	3.30000	mg/L
03-39	01/09/92	CALCIUM	74.50000	mg/L
03-39	01/09/92	MAGNESIUM	11.30000	mg/L
03-39	01/09/92	POTASSIUM	1.00000	mg/L
03-39	01/09/92	SULFATE	47.00000	mg/L
03-39	01/09/92	CHLORIDE	11.00000	mg/L
03-39	01/09/92	BICARBONATE	257.00000	mg/L
03-39	01/09/92	TRICHLOROETHYLENE	0.07900	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C01P2	11/04/87	pH	7.62000	S.U.
03C01P2	11/04/87	SPECIFIC CONDUCTANCE	616.00000	umho/cm
03C01P2	11/04/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01P2	11/04/87	SODIUM	19.00000	mg/L
03C01P2	11/04/87	SULFATE	140.00000	mg/L
03C01P2	11/04/87	CHLORIDE	10.00000	mg/L
03C01P2	11/04/87	RADIUM, TOTAL	0.40000	pCi/l
03C01P2	11/04/87	GROSS ALPHA	0.00000	pCi/l
03C01P2	11/04/87	GROSS BETA	5.40000	mlrem/y
03C01P2	11/04/87	BENZENE	0.00500	mg/L
03C01P2	02/02/88	pH	11.53000	S.U.
03C01P2	02/02/88	SPECIFIC CONDUCTANCE	1396.00000	umho/cm
03C01P2	02/02/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C01P2	02/02/88	SODIUM	22.00000	mg/L
03C01P2	02/02/88	SULFATE	120.00000	mg/L
03C01P2	02/02/88	CHLORIDE	18.00000	mg/L
03C01P2	02/02/88	BARIUM, TOTAL	0.36000	mg/L
03C01P2	02/02/88	FLUORIDE, TOTAL	0.28000	mg/L
03C01P2	02/02/88	NITRATE-N	0.07000	mg/L
03C01P2	02/02/88	RADIUM, TOTAL	0.40000	pCi/l
03C01P2	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C01P2	02/02/88	GROSS BETA	5.00000	mlrem/y
03C01P2	02/02/88	COLIFORM	0.00000	#/100ml
03C01P2	04/23/88	pH	7.52000	S.U.
03C01P2	04/23/88	SPECIFIC CONDUCTANCE	778.00000	umho/cm
03C01P2	04/23/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C01P2	04/23/88	MANGANESE	0.12000	mg/L
03C01P2	04/23/88	SODIUM	18.00000	mg/L
03C01P2	04/23/88	SULFATE	130.00000	mg/L
03C01P2	04/23/88	CHLORIDE	4.00000	mg/L
03C01P2	04/23/88	FLUORIDE, TOTAL	0.33000	mg/L
03C01P2	04/23/88	RADIUM, TOTAL	0.20000	mg/L
03C01P2	04/23/88	GROSS ALPHA	3.80000	mg/L
03C01P2	04/23/88	GROSS BETA	7.70000	mg/L
03C01P2	04/23/88	COLIFORM	0.00000	#/100ml
03C01P2	04/23/88	TRICHLOROETHYLENE	0.00200	mg/L
03C01P2	07/28/88	pH	7.30000	S.U.
03C01P2	07/28/88	SPECIFIC CONDUCTANCE	822.00000	umho/cm
03C01P2	07/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C01P2	10/24/88	pH	7.70000	S.U.
03C01P2	10/24/88	SPECIFIC CONDUCTANCE	609.00000	umho/cm
03C01P2	10/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C01P2	10/24/88	MANGANESE	0.18000	mg/L
03C01P2	10/24/88	SODIUM	20.00000	mg/L
03C01P2	10/24/88	SULFATE	125.00000	mg/L
03C01P2	10/24/88	CHLORIDE	7.00000	mg/L
03C01P2	10/24/88	AMMONIA-NITROGEN	0.04000	mg/L
03C01P2	10/24/88	BICARBONATE	567.00000	mg/L
03C01P2	10/24/88	CALCIUM	81.00000	mg/L
03C01P2	10/24/88	MAGNESIUM	38.00000	mg/L
03C01P2	10/24/88	POTASSIUM	4.00000	mg/L
03C01P2	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C01P2	10/24/88	GROSS BETA	16.00000	pcu/L
03C01P2	01/12/89	pH	7.30000	S.U.
03C01P2	01/12/89	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C01P2	01/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01P2	01/12/89	IRON, TOTAL	1.80000	mg/L
03C01P2	01/12/89	MANGANESE	0.11600	mg/L

03C01P2	01/12/89	SODIUM	13.00000	mg/L
03C01P2	01/12/89	SULFATE	110.00000	mg/L
03C01P2	01/12/89	CHLORIDE	5.00000	mg/L
03C01P2	01/12/89	AMMONIA-NITROGEN	0.24000	mg/L
03C01P2	01/12/89	BICARBONATE	549.00000	mg/L
03C01P2	01/12/89	CALCIUM	93.00000	mg/L
03C01P2	01/12/89	MAGNESIUM	38.00000	mg/L
03C01P2	01/12/89	POTASSIUM	2.80000	mg/L
03C01P2	01/12/89	FLUORIDE, TOTAL	0.53000	mg/L
03C01P2	01/12/89	COLIFORM	0.00000	TC/.1L
03C01P2	04/13/89	pH	7.30000	S.U.
03C01P2	04/13/89	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C01P2	04/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01P2	04/13/89	MANGANESE	0.10100	mg/L
03C01P2	04/13/89	SODIUM	12.00000	mg/L
03C01P2	04/13/89	CALCIUM	88.00000	mg/L
03C01P2	04/13/89	MAGNESIUM	37.00000	mg/L
03C01P2	04/13/89	POTASSIUM	3.50000	mg/L
03C01P2	04/13/89	SULFATE	60.00000	mg/L
03C01P2	04/13/89	CHLORIDE	10.00000	mg/L
03C01P2	04/13/89	BICARBONATE	343.00000	mg/L
03C01P2	04/13/89	FLUORIDE, TOTAL	0.17000	mg/L
03C01P2	04/13/89	NITRATE-N	0.24000	mg/L
03C01P2	04/13/89	COLIFORM	0.00000	TC/.1L
03C01P2	07/13/89	pH	7.40000	S.U.
03C01P2	07/13/89	SPECIFIC CONDUCTANCE	784.00000	umho/cm
03C01P2	07/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01P2	07/13/89	IRON, TOTAL	1.20000	mg/L
03C01P2	07/13/89	MANGANESE	0.09000	mg/L
03C01P2	07/13/89	SODIUM	8.00000	mg/L
03C01P2	07/13/89	CALCIUM	77.00000	mg/L
03C01P2	07/13/89	MAGNESIUM	29.00000	mg/L
03C01P2	07/13/89	POTASSIUM	1.70000	mg/L
03C01P2	07/13/89	SULFATE	76.00000	mg/L
03C01P2	07/13/89	CHLORIDE	16.00000	mg/L
03C01P2	07/13/89	BICARBONATE	371.00000	mg/L
03C01P2	07/13/89	BARIUM, TOTAL	0.03000	mg/L
03C01P2	07/13/89	FLUORIDE, TOTAL	0.16000	mg/L
03C01P2	07/13/89	COLIFORM	0.00000	TC/.1L
03C01P2	10/21/89	pH	7.40000	S.U.
03C01P2	10/21/89	SPECIFIC CONDUCTANCE	667.00000	umho/cm
03C01P2	10/21/89	CALCIUM	84.00000	mg/L
03C01P2	10/21/89	MAGNESIUM	35.00000	mg/L
03C01P2	10/21/89	POTASSIUM	2.20000	mg/L
03C01P2	10/21/89	BICARBONATE	381.00000	mg/L
03C01P2	10/21/89	TRICHLOROETHYLENE	0.07000	mg/L
03C01P2	01/28/90	pH	7.90000	S.U.
03C01P2	01/28/90	SPECIFIC CONDUCTANCE	660.00000	umho/cm
03C01P2	01/28/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C01P2	01/28/90	IRON, TOTAL	0.55000	mg/L
03C01P2	01/28/90	MANGANESE	0.11000	mg/L
03C01P2	01/28/90	SODIUM	13.00000	mg/L
03C01P2	01/28/90	CALCIUM	74.00000	mg/L
03C01P2	01/28/90	MAGNESIUM	38.00000	mg/L
03C01P2	01/28/90	POTASSIUM	2.00000	mg/L
03C01P2	01/28/90	SULFATE	140.00000	mg/L
03C01P2	01/28/90	CHLORIDE	15.00000	mg/L
03C01P2	01/28/90	BICARBONATE	342.00000	mg/L
03C01P2	04/20/90	pH	7.50000	S.U.
03C01P2	04/20/90	SPECIFIC CONDUCTANCE	652.00000	umho/cm

03C01P2	04/20/90	IRON, TOTAL	1.32000	mg/L
03C01P2	04/20/90	CALCIUM	88.00000	mg/L
03C01P2	04/20/90	MAGNESIUM	41.00000	mg/L
03C01P2	04/20/90	POTASSIUM	2.00000	mg/L
03C01P2	04/20/90	BICARBONATE	378.00000	mg/L
03C01P2	07/13/90	pH	7.50000	S.U.
03C01P2	07/13/90	SPECIFIC CONDUCTANCE	737.00000	umho/cm
03C01P2	07/13/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C01P2	07/13/90	IRON, TOTAL	3.79000	mg/L
03C01P2	07/13/90	SODIUM	1.00000	mg/L
03C01P2	07/13/90	CALCIUM	80.00000	mg/L
03C01P2	07/13/90	MAGNESIUM	41.00000	mg/L
03C01P2	07/13/90	POTASSIUM	2.00000	mg/L
03C01P2	07/13/90	BICARBONATE	344.00000	mg/L
03C01P2	10/17/90	pH	7.40000	S.U.
03C01P2	10/17/90	SPECIFIC CONDUCTANCE	634.00000	umho/cm
03C01P2	10/17/90	SODIUM	12.00000	mg/L
03C01P2	10/17/90	CALCIUM	95.00000	mg/L
03C01P2	10/17/90	MAGNESIUM	37.00000	mg/L
03C01P2	10/17/90	POTASSIUM	1.00000	mg/L
03C01P2	01/15/91	pH	7.53000	S.U.
03C01P2	01/15/91	SPECIFIC CONDUCTANCE	714.00000	umho/cm
03C01P2	01/15/91	TOTAL ORGANIC CARBON	1.51000	mg/L
03C01P2	01/15/91	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C01P2	01/15/91	MANGANESE	0.10000	mg/L
03C01P2	01/15/91	SODIUM	14.00000	mg/L
03C01P2	01/15/91	CALCIUM	63.00000	mg/L
03C01P2	01/15/91	MAGNESIUM	50.00000	mg/L
03C01P2	01/15/91	POTASSIUM	3.00000	mg/L
03C01P2	01/15/91	SULFATE	130.00000	mg/L
03C01P2	01/15/91	CHLORIDE	12.00000	mg/L
03C01P2	01/15/91	BICARBONATE	220.00000	mg/L
03C01P2	01/15/91	TRICHLOROETHYLENE	0.01200	mg/L
03C01P2	04/05/91	pH	7.35000	S.U.
03C01P2	04/05/91	SPECIFIC CONDUCTANCE	645.00000	umho/cm
03C01P2	04/05/91	CALCIUM	79.10000	mg/L
03C01P2	04/05/91	MAGNESIUM	35.60000	mg/L
03C01P2	04/05/91	POTASSIUM	1.90000	mg/L
03C01P2	04/05/91	BICARBONATE	365.00000	mg/L
03C01P2	07/10/91	pH	7.45000	S.U.
03C01P2	07/10/91	SPECIFIC CONDUCTANCE	686.00000	umho/cm
03C01P2	07/10/91	TOTAL ORGANIC CARBON	1.02000	mg/L
03C01P2	07/10/91	IRON, TOTAL	0.13900	mg/L
03C01P2	07/10/91	MANGANESE	0.10400	mg/L
03C01P2	07/10/91	SODIUM	15.10000	mg/L
03C01P2	07/10/91	CALCIUM	59.80000	mg/L
03C01P2	07/10/91	MAGNESIUM	33.10000	mg/L
03C01P2	07/10/91	POTASSIUM	2.70000	mg/L
03C01P2	07/10/91	BICARBONATE	377.00000	mg/L
03C01P2	10/05/91	pH	7.10000	S.U.
03C01P2	10/05/91	SPECIFIC CONDUCTANCE	650.00000	umho/cm
03C01P2	10/05/91	SODIUM	11.40000	mg/L
03C01P2	10/05/91	AMMONIA-NITROGEN	0.06000	mg/L
03C01P2	10/05/91	BICARBONATE	384.00000	mg/L
03C01P2	10/05/91	CALCIUM	75.90000	mg/L
03C01P2	10/05/91	MAGNESIUM	40.60000	mg/L
03C01P2	10/05/91	POTASSIUM	6.70000	mg/L
03C01P2	12/31/91	pH	7.90000	S.U.
03C01P2	12/31/91	SPECIFIC CONDUCTANCE	733.00000	umho/cm
03C01P2	12/31/91	TOTAL ORGANIC CARBON	1.24000	mg/L

03C01P2	12/31/91	IRON, TOTAL	0.12200	mg/L
03C01P2	12/31/91	MANGANESE	0.10500	mg/L
03C01P2	12/31/91	SODIUM	14.40000	mg/L
03C01P2	12/31/91	CALCIUM	80.70000	mg/L
03C01P2	12/31/91	MAGNESIUM	40.30000	mg/L
03C01P2	12/31/91	POTASSIUM	32.30000	mg/L
03C01P2	12/31/91	SULFATE	110.00000	mg/L
03C01P2	12/31/91	CHLORIDE	9.00000	mg/L
03C01P2	12/31/91	BICARBONATE	341.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C02P2	11/24/87	pH	7.52000	S.U.
03C02P2	11/24/87	SPECIFIC CONDUCTANCE	579.00000	umho/cm
03C02P2	11/24/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C02P2	11/24/87	TOTAL ORGANIC HALOGENS	0.14000	mg/L
03C02P2	11/24/87	IRON, TOTAL	0.01000	mg/L
03C02P2	11/24/87	SODIUM	20.00000	mg/L
03C02P2	11/24/87	SULFATE	80.00000	mg/L
03C02P2	11/24/87	CHLORIDE	60.00000	mg/L
03C02P2	11/24/87	RDX	0.03000	mg/L
03C02P2	11/24/87	NITRATE-N	2.40000	mg/L
03C02P2	11/24/87	RADIUM, TOTAL	0.00000	pCi/l
03C02P2	11/24/87	GROSS ALPHA	0.00000	pCi/l
03C02P2	11/24/87	GROSS BETA	2.20000	mlrem/y
03C02P2	11/24/87	TRICHLOROETHYLENE	0.01000	mg/L
03C02P2	11/24/87	TRICHLOROETHENE	0.00900	mg/L
03C02P2	01/28/88	pH	7.66000	S.U.
03C02P2	01/28/88	SPECIFIC CONDUCTANCE	351.00000	umho/cm
03C02P2	01/28/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C02P2	01/28/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C02P2	01/28/88	SODIUM	11.00000	mg/L
03C02P2	01/28/88	SULFATE	46.00000	mg/L
03C02P2	01/28/88	CHLORIDE	19.00000	mg/L
03C02P2	01/28/88	BARIUM, TOTAL	0.05700	mg/L
03C02P2	01/28/88	MERCURY, TOTAL	0.00500	mg/L
03C02P2	01/28/88	FLUORIDE, TOTAL	0.10000	mg/L
03C02P2	01/28/88	NITRATE-N	0.58000	mg/L
03C02P2	01/28/88	RADIUM, TOTAL	0.00000	pCi/l
03C02P2	01/28/88	GROSS ALPHA	0.00000	pCi/l
03C02P2	01/28/88	GROSS BETA	3.20000	mlrem/y
03C02P2	01/28/88	COLIFORM	2.00000	#/100ml
03C02P2	01/28/88	TRICHLOROETHYLENE	0.02600	mg/L
03C02P2	04/25/88	pH	6.78000	S.U.
03C02P2	04/25/88	SPECIFIC CONDUCTANCE	336.00000	umho/cm
03C02P2	04/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C02P2	04/25/88	SODIUM	10.40000	mg/L
03C02P2	04/25/88	SULFATE	51.00000	mg/L
03C02P2	04/25/88	CHLORIDE	10.00000	mg/L
03C02P2	04/25/88	BARIUM, TOTAL	0.07000	mg/L
03C02P2	04/25/88	FLUORIDE, TOTAL	0.20000	mg/L
03C02P2	04/25/88	NITRATE-N	0.36000	mg/L
03C02P2	04/25/88	RADIUM, TOTAL	0.00000	mg/L
03C02P2	04/25/88	GROSS ALPHA	6.60000	mg/L
03C02P2	04/25/88	GROSS BETA	8.00000	mg/L
03C02P2	04/25/88	COLIFORM	0.00000	#/100ml
03C02P2	04/25/88	TRICHLOROETHYLENE	0.01000	mg/L
03C02P2	07/21/88	pH	7.50000	S.U.
03C02P2	07/21/88	SPECIFIC CONDUCTANCE	730.00000	umho/cm
03C02P2	07/21/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C02P2	07/21/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C02P2	07/21/88	RDX	0.02000	mg/L
03C02P2	07/21/88	TRICHLOROETHYLENE	0.01000	mg/L
03C02P2	10/22/88	pH	7.40000	S.U.
03C02P2	10/22/88	SPECIFIC CONDUCTANCE	593.00000	umho/cm
03C02P2	10/22/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C02P2	10/22/88	SODIUM	50.00000	mg/L
03C02P2	10/22/88	SULFATE	80.00000	mg/L
03C02P2	10/22/88	CHLORIDE	52.00000	mg/L
03C02P2	10/22/88	AMMONIA-NITROGEN	1.00000	mg/L

03C02P2	10/22/88	BICARBONATE	408.00000	mg/L
03C02P2	10/22/88	CALCIUM	90.00000	mg/L
03C02P2	10/22/88	MAGNESIUM	16.00000	mg/L
03C02P2	10/22/88	POTASSIUM	4.00000	mg/L
03C02P2	10/22/88	FLUORIDE, TOTAL	0.12000	mg/L
03C02P2	10/22/88	NITRATE-N	3.80000	mg/L
03C02P2	10/22/88	GROSS BETA	7.00000	pcu/L
03C02P2	10/22/88	COLIFORM	1.00000	TC/.1L
03C02P2	10/22/88	TRICHLOROETHYLENE	0.02000	mg/L
03C02P2	01/13/89	pH	7.40000	S.U.
03C02P2	01/13/89	SPECIFIC CONDUCTANCE	495.00000	umho/cm
03C02P2	01/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C02P2	01/13/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C02P2	01/13/89	SODIUM	22.00000	mg/L
03C02P2	01/13/89	SULFATE	50.00000	mg/L
03C02P2	01/13/89	CHLORIDE	41.00000	mg/L
03C02P2	01/13/89	AMMONIA-NITROGEN	0.30000	mg/L
03C02P2	01/13/89	BICARBONATE	287.00000	mg/L
03C02P2	01/13/89	CALCIUM	79.00000	mg/L
03C02P2	01/13/89	MAGNESIUM	15.00000	mg/L
03C02P2	01/13/89	POTASSIUM	3.30000	mg/L
03C02P2	01/13/89	BARIUM, TOTAL	0.08000	mg/L
03C02P2	01/13/89	FLUORIDE, TOTAL	0.30000	mg/L
03C02P2	01/13/89	NITRATE-N	5.00000	mg/L
03C02P2	01/13/89	COLIFORM	0.00000	TC/.1L
03C02P2	01/13/89	TRICHLOROETHYLENE	0.03000	mg/L
03C02P2	04/15/89	pH	7.60000	S.U.
03C02P2	04/15/89	SPECIFIC CONDUCTANCE	276.00000	umho/cm
03C02P2	04/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02P2	04/15/89	SODIUM	7.10000	mg/L
03C02P2	04/15/89	CALCIUM	27.00000	mg/L
03C02P2	04/15/89	MAGNESIUM	7.00000	mg/L
03C02P2	04/15/89	POTASSIUM	3.10000	mg/L
03C02P2	04/15/89	SULFATE	47.00000	mg/L
03C02P2	04/15/89	CHLORIDE	17.00000	mg/L
03C02P2	04/15/89	BICARBONATE	88.00000	mg/L
03C02P2	04/15/89	FLUORIDE, TOTAL	0.07000	mg/L
03C02P2	04/15/89	NITRATE-N	5.00000	mg/L
03C02P2	04/15/89	COLIFORM	5.00000	TC/.1L
03C02P2	04/15/89	TRICHLOROETHYLENE	0.00700	mg/L
03C02P2	07/16/89	pH	7.20000	S.U.
03C02P2	07/16/89	SPECIFIC CONDUCTANCE	696.00000	umho/cm
03C02P2	07/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02P2	07/16/89	SODIUM	14.00000	mg/L
03C02P2	07/16/89	CALCIUM	75.00000	mg/L
03C02P2	07/16/89	MAGNESIUM	13.00000	mg/L
03C02P2	07/16/89	POTASSIUM	3.10000	mg/L
03C02P2	07/16/89	SULFATE	43.00000	mg/L
03C02P2	07/16/89	CHLORIDE	51.00000	mg/L
03C02P2	07/16/89	BICARBONATE	264.00000	mg/L
03C02P2	07/16/89	BARIUM, TOTAL	0.09000	mg/L
03C02P2	07/16/89	FLUORIDE, TOTAL	0.07000	mg/L
03C02P2	07/16/89	NITRATE-N	3.00000	mg/L
03C02P2	07/16/89	COLIFORM	12.00000	TC/.1L
03C02P2	07/16/89	TRICHLOROETHYLENE	0.00600	mg/L
03C02P2	10/22/89	pH	7.30000	S.U.
03C02P2	10/22/89	SPECIFIC CONDUCTANCE	575.00000	umho/cm
03C02P2	10/22/89	CALCIUM	78.00000	mg/L
03C02P2	10/22/89	MAGNESIUM	13.00000	mg/L
03C02P2	10/22/89	POTASSIUM	2.90000	mg/L

03C02P2	10/22/89	BICARBONATE	293.00000	mg/L
03C02P2	10/22/89	RDX	0.02000	mg/L
03C02P2	10/22/89	1,1,1-TRICHLOROETHANE	0.00400	mg/L
03C02P2	10/22/89	TRICHLOROETHYLENE	0.01200	mg/L
03C02P2	01/28/90	pH	7.30000	S.U.
03C02P2	01/28/90	SPECIFIC CONDUCTANCE	268.00000	umho/cm
03C02P2	01/28/90	TOTAL ORGANIC CARBON	2.20000	mg/L
03C02P2	01/28/90	SODIUM	6.00000	mg/L
03C02P2	01/28/90	CALCIUM	18.00000	mg/L
03C02P2	01/28/90	MAGNESIUM	4.00000	mg/L
03C02P2	01/28/90	POTASSIUM	1.00000	mg/L
03C02P2	01/28/90	SULFATE	33.00000	mg/L
03C02P2	01/28/90	CHLORIDE	23.00000	mg/L
03C02P2	01/28/90	BICARBONATE	146.00000	mg/L
03C02P2	01/28/90	AMMONIA-NITROGEN	0.10000	mg/L
03C02P2	01/28/90	RDX	0.01000	mg/L
03C02P2	01/28/90	TRICHLOROETHYLENE	0.00400	mg/L
03C02P2	04/18/90	pH	7.80000	S.U.
03C02P2	04/18/90	SPECIFIC CONDUCTANCE	349.00000	umho/cm
03C02P2	04/18/90	IRON, TOTAL	1.92000	mg/L
03C02P2	04/18/90	CALCIUM	63.00000	mg/L
03C02P2	04/18/90	MAGNESIUM	17.00000	mg/L
03C02P2	04/18/90	POTASSIUM	1.00000	mg/L
03C02P2	04/18/90	BICARBONATE	161.00000	mg/L
03C02P2	04/18/90	TRICHLOROETHYLENE	0.00400	mg/L
03C02P2	07/10/90	pH	6.80000	S.U.
03C02P2	07/10/90	SPECIFIC CONDUCTANCE	657.00000	umho/cm
03C02P2	07/10/90	TOTAL ORGANIC CARBON	2.10000	mg/L
03C02P2	07/10/90	SODIUM	7.00000	mg/L
03C02P2	07/10/90	CALCIUM	85.00000	mg/L
03C02P2	07/10/90	MAGNESIUM	15.00000	mg/L
03C02P2	07/10/90	POTASSIUM	3.00000	mg/L
03C02P2	07/10/90	BICARBONATE	287.00000	mg/L
03C02P2	07/10/90	TRICHLOROETHYLENE	0.00200	mg/L
03C02P2	10/19/90	pH	7.20000	S.U.
03C02P2	10/19/90	SPECIFIC CONDUCTANCE	702.00000	umho/cm
03C02P2	10/19/90	SODIUM	27.00000	mg/L
03C02P2	10/19/90	CALCIUM	100.00000	mg/L
03C02P2	10/19/90	MAGNESIUM	15.00000	mg/L
03C02P2	10/19/90	POTASSIUM	2.00000	mg/L
03C02P2	10/19/90	RDX	0.03000	mg/L
03C02P2	10/19/90	TRICHLOROETHYLENE	0.00200	mg/L
03C02P2	01/12/91	pH	7.25000	S.U.
03C02P2	01/12/91	SPECIFIC CONDUCTANCE	283.00000	umho/cm
03C02P2	01/12/91	TOTAL ORGANIC CARBON	2.32000	mg/L
03C02P2	01/12/91	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C02P2	01/12/91	MANGANESE	0.01000	mg/L
03C02P2	01/12/91	SODIUM	14.00000	mg/L
03C02P2	01/12/91	CALCIUM	23.00000	mg/L
03C02P2	01/12/91	MAGNESIUM	9.00000	mg/L
03C02P2	01/12/91	POTASSIUM	2.00000	mg/L
03C02P2	01/12/91	SULFATE	39.00000	mg/L
03C02P2	01/12/91	CHLORIDE	30.00000	mg/L
03C02P2	01/12/91	BICARBONATE	134.00000	mg/L
03C02P2	01/12/91	TRICHLOROETHYLENE	0.00500	mg/L
03C02P2	04/06/91	pH	6.82000	S.U.
03C02P2	04/06/91	SPECIFIC CONDUCTANCE	329.00000	umho/cm
03C02P2	04/06/91	CALCIUM	41.40000	mg/L
03C02P2	04/06/91	MAGNESIUM	9.20000	mg/L
03C02P2	04/06/91	POTASSIUM	1.80000	mg/L

03C02P2	04/06/91	BICARBONATE	132.00000	mg/L
03C02P2	04/06/91	AMMONIA-NITROGEN	0.07000	mg/L
03C02P2	04/06/91	TRICHLOROETHYLENE	0.00500	mg/L
03C02P2	07/18/91	pH	6.83000	S.U.
03C02P2	07/18/91	SPECIFIC CONDUCTANCE	617.00000	umho/cm
03C02P2	07/18/91	TOTAL ORGANIC CARBON	3.04000	mg/L
03C02P2	07/18/91	IRON, TOTAL	0.26400	mg/L
03C02P2	07/18/91	MANGANESE	0.03600	mg/L
03C02P2	07/18/91	SODIUM	20.80000	mg/L
03C02P2	07/18/91	CALCIUM	90.40000	mg/L
03C02P2	07/18/91	MAGNESIUM	13.60000	mg/L
03C02P2	07/18/91	POTASSIUM	2.50000	mg/L
03C02P2	07/18/91	BICARBONATE	311.00000	mg/L
03C02P2	07/18/91	RDX	0.02100	mg/L
03C02P2	07/18/91	TRICHLOROETHENE	0.00200	mg/L
03C02P2	10/03/91	pH	6.80000	S.U.
03C02P2	10/03/91	SPECIFIC CONDUCTANCE	592.00000	umho/cm
03C02P2	10/03/91	SODIUM	15.00000	mg/L
03C02P2	10/03/91	TRICHLOROETHYLENE	0.01400	mg/L
03C02P2	10/03/91	AMMONIA-NITROGEN	0.21000	mg/L
03C02P2	10/03/91	BICARBONATE	293.00000	mg/L
03C02P2	10/03/91	CALCIUM	85.70000	mg/L
03C02P2	10/03/91	MAGNESIUM	15.80000	mg/L
03C02P2	10/03/91	POTASSIUM	1.80000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C03P2	10/27/87	pH	7.81000	S.U.
03C03P2	10/27/87	SPECIFIC CONDUCTANCE	654.00000	umho/cm
03C03P2	10/27/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C03P2	10/27/87	TOTAL ORGANIC HALOGENS	0.18000	mg/L
03C03P2	10/27/87	MANGANESE	0.07000	mg/L
03C03P2	10/27/87	SODIUM	2.00000	mg/L
03C03P2	10/27/87	SULFATE	50.00000	mg/L
03C03P2	10/27/87	CHLORIDE	19.00000	mg/L
03C03P2	10/27/87	HMX	0.15000	mg/L
03C03P2	10/27/87	BARIUM, TOTAL	0.07000	mg/L
03C03P2	10/27/87	NITRATE-N	2.40000	mg/L
03C03P2	10/27/87	2,4,5-TP	0.01000	mg/L
03C03P2	10/27/87	RADIUM, TOTAL	0.20000	pCi/l
03C03P2	10/27/87	GROSS ALPHA	4.30000	pCi/l
03C03P2	10/27/87	GROSS BETA	13.00000	mlrem/y
03C03P2	10/27/87	TRICHLOROETHYLENE	0.20000	mg/L
03C03P2	10/27/87	CHLOROFORM	0.02000	mg/L
03C03P2	10/27/87	1,2-DICHLOROETHANE	0.00200	mg/L
03C03P2	10/27/87	1,1,1-TRICHLOROETHANE	0.00400	mg/L
03C03P2	10/27/87	TRICHLOROETHENE	0.20000	mg/L
03C03P2	10/27/87	BENZENE	0.04600	mg/L
03C03P2	02/03/88	pH	7.60000	S.U.
03C03P2	02/03/88	SPECIFIC CONDUCTANCE	666.00000	umho/cm
03C03P2	02/03/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C03P2	02/03/88	TOTAL ORGANIC HALOGENS	0.26000	mg/L
03C03P2	02/03/88	MANGANESE	0.07000	mg/L
03C03P2	02/03/88	SODIUM	2.00000	mg/L
03C03P2	02/03/88	SULFATE	50.00000	mg/L
03C03P2	02/03/88	CHLORIDE	19.00000	mg/L
03C03P2	02/03/88	HMX	0.14000	mg/L
03C03P2	02/03/88	BARIUM, TOTAL	0.07000	mg/L
03C03P2	02/03/88	NITRATE-N	2.50000	mg/L
03C03P2	02/03/88	RADIUM, TOTAL	0.20000	pCi/l
03C03P2	02/03/88	GROSS ALPHA	3.00000	pCi/l
03C03P2	02/03/88	GROSS BETA	12.00000	mlrem/y
03C03P2	02/03/88	COLIFORM	0.00000	#/100ml
03C03P2	02/03/88	TRICHLOROETHYLENE	0.27000	mg/L
03C03P2	04/25/88	pH	6.94000	S.U.
03C03P2	04/25/88	SPECIFIC CONDUCTANCE	793.00000	umho/cm
03C03P2	04/25/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C03P2	04/25/88	TOTAL ORGANIC HALOGENS	0.34000	mg/L
03C03P2	04/25/88	IRON, TOTAL	0.01000	mg/L
03C03P2	04/25/88	MANGANESE	0.14000	mg/L
03C03P2	04/25/88	SODIUM	17.00000	mg/L
03C03P2	04/25/88	SULFATE	64.00000	mg/L
03C03P2	04/25/88	CHLORIDE	11.00000	mg/L
03C03P2	04/25/88	TNT	0.03900	mg/L
03C03P2	04/25/88	RDX	0.70900	mg/L
03C03P2	04/25/88	BARIUM, TOTAL	0.06500	mg/L
03C03P2	04/25/88	FLUORIDE, TOTAL	0.33000	mg/L
03C03P2	04/25/88	NITRATE-N	0.88000	mg/L
03C03P2	04/25/88	RADIUM, TOTAL	0.20000	mg/L
03C03P2	04/25/88	GROSS ALPHA	0.00000	mg/L
03C03P2	04/25/88	GROSS BETA	2.70000	mg/L
03C03P2	04/25/88	COLIFORM	0.00000	#/100ml
03C03P2	04/25/88	TRICHLOROETHYLENE	0.32100	mg/L
03C03P2	08/01/88	pH	7.10000	S.U.
03C03P2	08/01/88	SPECIFIC CONDUCTANCE	745.00000	umho/cm

03C03P2	08/01/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C03P2	08/01/88	TOTAL ORGANIC HALOGENS	0.14000	mg/L
03C03P2	08/01/88	TNT	0.01000	mg/L
03C03P2	08/01/88	RDX	0.14000	mg/L
03C03P2	08/01/88	TRICHLOROETHYLENE	0.13000	mg/L
03C03P2	10/24/88	pH	7.10000	S.U.
03C03P2	10/24/88	SPECIFIC CONDUCTANCE	473.00000	umho/cm
03C03P2	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C03P2	10/24/88	TOTAL ORGANIC HALOGENS	0.16000	mg/L
03C03P2	10/24/88	MANGANESE	0.08000	mg/L
03C03P2	10/24/88	SODIUM	16.00000	mg/L
03C03P2	10/24/88	SULFATE	64.00000	mg/L
03C03P2	10/24/88	CHLORIDE	11.00000	mg/L
03C03P2	10/24/88	BICARBONATE	397.00000	mg/L
03C03P2	10/24/88	CALCIUM	78.00000	mg/L
03C03P2	10/24/88	MAGNESIUM	14.00000	mg/L
03C03P2	10/24/88	POTASSIUM	4.00000	mg/L
03C03P2	10/24/88	FLUORIDE, TOTAL	0.18000	mg/L
03C03P2	10/24/88	NITRATE-N	5.50000	mg/L
03C03P2	10/24/88	GROSS BETA	16.00000	pcu/L
03C03P2	10/24/88	TRICHLOROETHYLENE	0.23000	mg/L
03C03P2	01/15/89	pH	7.40000	S.U.
03C03P2	01/15/89	SPECIFIC CONDUCTANCE	720.00000	umho/cm
03C03P2	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C03P2	01/15/89	TOTAL ORGANIC HALOGENS	0.15000	mg/L
03C03P2	01/15/89	MANGANESE	0.08000	mg/L
03C03P2	01/15/89	SODIUM	20.00000	mg/L
03C03P2	01/15/89	SULFATE	72.00000	mg/L
03C03P2	01/15/89	CHLORIDE	10.00000	mg/L
03C03P2	01/15/89	AMMONIA-NITROGEN	0.20000	mg/L
03C03P2	01/15/89	BICARBONATE	598.00000	mg/L
03C03P2	01/15/89	CALCIUM	117.00000	mg/L
03C03P2	01/15/89	MAGNESIUM	22.00000	mg/L
03C03P2	01/15/89	POTASSIUM	4.00000	mg/L
03C03P2	01/15/89	BARIUM, TOTAL	0.08000	mg/L
03C03P2	01/15/89	FLUORIDE, TOTAL	0.40000	mg/L
03C03P2	01/15/89	NITRATE-N	5.00000	mg/L
03C03P2	01/15/89	COLIFORM	0.00000	TC/.1L
03C03P2	01/15/89	TRICHLOROETHYLENE	0.16000	mg/L
03C03P2	04/17/89	pH	7.20000	S.U.
03C03P2	04/17/89	SPECIFIC CONDUCTANCE	698.00000	umho/cm
03C03P2	04/17/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C03P2	04/17/89	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03C03P2	04/17/89	MANGANESE	0.07000	mg/L
03C03P2	04/17/89	SODIUM	16.00000	mg/L
03C03P2	04/17/89	CALCIUM	108.00000	mg/L
03C03P2	04/17/89	MAGNESIUM	22.00000	mg/L
03C03P2	04/17/89	POTASSIUM	4.50000	mg/L
03C03P2	04/17/89	SULFATE	56.00000	mg/L
03C03P2	04/17/89	CHLORIDE	15.00000	mg/L
03C03P2	04/17/89	BICARBONATE	323.00000	mg/L
03C03P2	04/17/89	RDX	0.23000	mg/L
03C03P2	04/17/89	BARIUM, TOTAL	0.06000	mg/L
03C03P2	04/17/89	FLUORIDE, TOTAL	0.60000	mg/L
03C03P2	04/17/89	NITRATE-N	3.00000	mg/L
03C03P2	04/17/89	COLIFORM	0.00000	TC/.1L
03C03P2	04/17/89	TRICHLOROETHYLENE	0.11500	mg/L
03C03P2	07/11/89	pH	6.70000	S.U.
03C03P2	07/11/89	SPECIFIC CONDUCTANCE	581.00000	umho/cm
03C03P2	07/11/89	TOTAL ORGANIC CARBON	3.00000	mg/L

03C03P2	07/11/89	TOTAL ORGANIC HALOGENS	0.18000	mg/L
03C03P2	07/11/89	MANGANESE	0.05000	mg/L
03C03P2	07/11/89	SODIUM	9.00000	mg/L
03C03P2	07/11/89	CALCIUM	82.00000	mg/L
03C03P2	07/11/89	MAGNESIUM	13.00000	mg/L
03C03P2	07/11/89	POTASSIUM	2.70000	mg/L
03C03P2	07/11/89	SULFATE	56.00000	mg/L
03C03P2	07/11/89	CHLORIDE	14.00000	mg/L
03C03P2	07/11/89	BICARBONATE	293.00000	mg/L
03C03P2	07/11/89	RDX	0.30000	mg/L
03C03P2	07/11/89	BARIUM, TOTAL	0.06000	mg/L
03C03P2	07/11/89	FLUORIDE, TOTAL	0.10000	mg/L
03C03P2	07/11/89	COLIFORM	0.00000	TC/.1L
03C03P2	07/11/89	TRICHLOROETHYLENE	0.13600	mg/L
03C03P2	10/23/89	pH	7.10000	S.U.
03C03P2	10/23/89	SPECIFIC CONDUCTANCE	582.00000	umho/cm
03C03P2	10/23/89	CALCIUM	84.00000	mg/L
03C03P2	10/23/89	MAGNESIUM	15.00000	mg/L
03C03P2	10/23/89	POTASSIUM	3.00000	mg/L
03C03P2	10/23/89	BICARBONATE	488.00000	mg/L
03C03P2	10/23/89	AMMONIA-NITROGEN	0.50000	mg/L
03C03P2	10/23/89	RDX	0.26000	mg/L
03C03P2	10/23/89	TRICHLOROETHYLENE	0.18000	mg/L
03C03P2	01/28/90	pH	7.10000	S.U.
03C03P2	01/28/90	SPECIFIC CONDUCTANCE	1177.00000	umho/cm
03C03P2	01/28/90	TOTAL ORGANIC HALOGENS	0.20000	mg/L
03C03P2	01/28/90	IRON, TOTAL	0.16000	mg/L
03C03P2	01/28/90	MANGANESE	1.07100	mg/L
03C03P2	01/28/90	SODIUM	187.00000	mg/L
03C03P2	01/28/90	CALCIUM	64.00000	mg/L
03C03P2	01/28/90	MAGNESIUM	11.00000	mg/L
03C03P2	01/28/90	POTASSIUM	5.00000	mg/L
03C03P2	01/28/90	CHLORIDE	106.00000	mg/L
03C03P2	01/28/90	BICARBONATE	610.00000	mg/L
03C03P2	01/28/90	AMMONIA-NITROGEN	4.20000	mg/L
03C03P2	01/28/90	RDX	0.25000	mg/L
03C03P2	01/28/90	TRICHLOROETHYLENE	0.16000	mg/L
03C03P2	01/28/90	DI-N-BUTYL PHTHALATE	0.03000	mg/L
03C03P2	04/19/90	pH	7.30000	S.U.
03C03P2	04/19/90	SPECIFIC CONDUCTANCE	1089.00000	umho/cm
03C03P2	04/19/90	IRON, TOTAL	0.25000	mg/L
03C03P2	04/19/90	CALCIUM	120.00000	mg/L
03C03P2	04/19/90	MAGNESIUM	25.00000	mg/L
03C03P2	04/19/90	POTASSIUM	8.00000	mg/L
03C03P2	04/19/90	BICARBONATE	608.00000	mg/L
03C03P2	04/19/90	AMMONIA-NITROGEN	2.40000	mg/L
03C03P2	04/19/90	RDX	0.13000	mg/L
03C03P2	04/19/90	TRICHLOROETHYLENE	0.17000	mg/L
03C03P2	07/12/90	pH	6.60000	S.U.
03C03P2	07/12/90	SPECIFIC CONDUCTANCE	628.00000	umho/cm
03C03P2	07/12/90	TOTAL ORGANIC CARBON	7.00000	mg/L
03C03P2	07/12/90	TOTAL ORGANIC HALOGENS	0.12000	mg/L
03C03P2	07/12/90	IRON, TOTAL	0.17000	mg/L
03C03P2	07/12/90	SODIUM	5.00000	mg/L
03C03P2	07/12/90	CALCIUM	80.00000	mg/L
03C03P2	07/12/90	MAGNESIUM	15.00000	mg/L
03C03P2	07/12/90	POTASSIUM	8.00000	mg/L
03C03P2	07/12/90	BICARBONATE	323.00000	mg/L
03C03P2	07/12/90	AMMONIA-NITROGEN	2.20000	mg/L
03C03P2	07/12/90	RDX	0.40000	mg/L

03C03P2	07/12/90	TRICHLOROETHYLENE	0.09600	mg/L
03C03P2	10/18/90	pH	6.70000	S.U.
03C03P2	10/18/90	SPECIFIC CONDUCTANCE	1088.00000	umho/cm
03C03P2	10/18/90	SODIUM	53.00000	mg/L
03C03P2	10/18/90	CALCIUM	44.00000	mg/L
03C03P2	10/18/90	MAGNESIUM	7.00000	mg/L
03C03P2	10/18/90	POTASSIUM	1.00000	mg/L
03C03P2	10/18/90	AMMONIA-NITROGEN	1.76000	mg/L
03C03P2	10/18/90	RDX	0.09000	mg/L
03C03P2	10/18/90	1,1,1-TRICHLOROETHANE	0.00160	mg/L
03C03P2	10/18/90	TRICHLOROETHYLENE	0.12600	mg/L
03C03P2	01/18/91	pH	6.91000	S.U.
03C03P2	01/18/91	SPECIFIC CONDUCTANCE	667.00000	umho/cm
03C03P2	01/18/91	TOTAL ORGANIC CARBON	62.27000	mg/L
03C03P2	01/18/91	TOTAL ORGANIC HALOGENS	0.24000	mg/L
03C03P2	01/18/91	IRON, TOTAL	0.08000	mg/L
03C03P2	01/18/91	MANGANESE	0.18000	mg/L
03C03P2	01/18/91	SODIUM	34.00000	mg/L
03C03P2	01/18/91	CALCIUM	62.00000	mg/L
03C03P2	01/18/91	MAGNESIUM	17.00000	mg/L
03C03P2	01/18/91	POTASSIUM	4.00000	mg/L
03C03P2	01/18/91	SULFATE	40.00000	mg/L
03C03P2	01/18/91	CHLORIDE	43.00000	mg/L
03C03P2	01/18/91	AMMONIA-NITROGEN	1.42000	mg/L
03C03P2	01/18/91	TRICHLOROETHYLENE	0.14000	mg/L
03C03P2	01/18/91	RDX	0.02000	mg/L
03C03P2	04/11/91	pH	6.73000	S.U.
03C03P2	04/11/91	SPECIFIC CONDUCTANCE	597.00000	umho/cm
03C03P2	04/11/91	CALCIUM	81.60000	mg/L
03C03P2	04/11/91	MAGNESIUM	26.20000	mg/L
03C03P2	04/11/91	POTASSIUM	7.70000	mg/L
03C03P2	04/11/91	BICARBONATE	311.00000	mg/L
03C03P2	04/11/91	AMMONIA-NITROGEN	1.18000	mg/L
03C03P2	04/11/91	RDX	0.28000	mg/L
03C03P2	04/11/91	TRICHLOROETHYLENE	0.15100	mg/L
03C03P2	07/18/91	pH	6.74000	S.U.
03C03P2	07/18/91	SPECIFIC CONDUCTANCE	594.00000	umho/cm
03C03P2	07/18/91	TOTAL ORGANIC CARBON	7.49000	mg/L
03C03P2	07/18/91	TOTAL ORGANIC HALOGENS	0.44000	mg/L
03C03P2	07/18/91	MANGANESE	0.14000	mg/L
03C03P2	07/18/91	SODIUM	13.50000	mg/L
03C03P2	07/18/91	CALCIUM	79.80000	mg/L
03C03P2	07/18/91	MAGNESIUM	13.50000	mg/L
03C03P2	07/18/91	POTASSIUM	4.10000	mg/L
03C03P2	07/18/91	BICARBONATE	317.00000	mg/L
03C03P2	07/18/91	AMMONIA-NITROGEN	1.32000	mg/L
03C03P2	07/18/91	RDX	0.17000	mg/L
03C03P2	07/18/91	TRICHLOROETHENE	0.17100	mg/L
03C03P2	07/18/91	DI-N-BUTYL PHTHALATE	0.06000	mg/L
03C03P2	10/03/91	pH	6.60000	S.U.
03C03P2	10/03/91	SPECIFIC CONDUCTANCE	539.00000	umho/cm
03C03P2	10/03/91	SODIUM	11.90000	mg/L
03C03P2	10/03/91	RDX	0.21000	mg/L
03C03P2	10/03/91	TRICHLOROETHYLENE	0.18300	mg/L
03C03P2	10/03/91	AMMONIA-NITROGEN	1.25000	mg/L
03C03P2	10/03/91	BICARBONATE	299.00000	mg/L
03C03P2	10/03/91	CALCIUM	66.70000	mg/L
03C03P2	10/03/91	MAGNESIUM	13.00000	mg/L
03C03P2	10/03/91	POTASSIUM	10.60000	mg/L
03C03P2	01/09/92	pH	7.90000	S.U.

03C03P2	01/09/92	SPECIFIC CONDUCTANCE	653.00000	umho/cm
03C03P2	01/09/92	TOTAL ORGANIC CARBON	4.19000	mg/L
03C03P2	01/09/92	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03C03P2	01/09/92	IRON, TOTAL	0.07000	mg/L
03C03P2	01/09/92	MANGANESE	0.27700	mg/L
03C03P2	01/09/92	SODIUM	12.80000	mg/L
03C03P2	01/09/92	CALCIUM	103.70000	mg/L
03C03P2	01/09/92	MAGNESIUM	19.80000	mg/L
03C03P2	01/09/92	POTASSIUM	5.10000	mg/L
03C03P2	01/09/92	SULFATE	55.00000	mg/L
03C03P2	01/09/92	CHLORIDE	15.00000	mg/L
03C03P2	01/09/92	BICARBONATE	395.00000	mg/L
03C03P2	01/09/92	AMMONIA-NITROGEN	0.21000	mg/L
03C03P2	01/09/92	RDX	0.12000	mg/L
03C03P2	01/09/92	TRICHLOROETHYLENE	0.06200	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C04	10/21/87	pH	7.42000	S.U.
03C04	10/21/87	SPECIFIC CONDUCTANCE	1874.00000	umho/cm
03C04	10/21/87	TOTAL ORGANIC CARBON	19.00000	mg/L
03C04	10/21/87	MANGANESE	0.19000	mg/L
03C04	10/21/87	SODIUM	125.00000	mg/L
03C04	10/21/87	SULFATE	725.00000	mg/L
03C04	10/21/87	CHLORIDE	14.00000	mg/L
03C04	10/21/87	FLUORIDE, TOTAL	0.12000	mg/L
03C04	10/21/87	RADIUM, TOTAL	0.20000	pCi/l
03C04	10/21/87	GROSS ALPHA	15.00000	pCi/l
03C04	10/21/87	GROSS BETA	13.00000	mlrem/y
03C04	10/21/87	CHLOROFORM	0.00200	mg/L
03C04	10/21/87	BENZENE	0.00300	mg/L
03C04	02/04/88	pH	7.31000	S.U.
03C04	02/04/88	SPECIFIC CONDUCTANCE	1686.00000	umho/cm
03C04	02/04/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C04	02/04/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C04	02/04/88	IRON, TOTAL	0.05000	mg/L
03C04	02/04/88	MANGANESE	1.48000	mg/L
03C04	02/04/88	SODIUM	130.00000	mg/L
03C04	02/04/88	SULFATE	660.00000	mg/L
03C04	02/04/88	CHLORIDE	17.00000	mg/L
03C04	02/04/88	BARIUM, TOTAL	0.05000	mg/L
03C04	02/04/88	FLUORIDE, TOTAL	0.32000	mg/L
03C04	02/04/88	NITRATE-N	0.07000	mg/L
03C04	02/04/88	RADIUM, TOTAL	0.20000	pCi/l
03C04	02/04/88	GROSS ALPHA	0.00000	pCi/l
03C04	02/04/88	GROSS BETA	0.00000	mlrem/y
03C04	02/04/88	COLIFORM	0.00000	#/100ml
03C04	02/04/88	TRICHLOROETHYLENE	0.02700	mg/L
03C04	04/24/88	pH	7.33000	S.U.
03C04	04/24/88	SPECIFIC CONDUCTANCE	2190.00000	umho/cm
03C04	04/24/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C04	04/24/88	IRON, TOTAL	0.01000	mg/L
03C04	04/24/88	MANGANESE	0.03000	mg/L
03C04	04/24/88	SODIUM	230.00000	mg/L
03C04	04/24/88	SULFATE	750.00000	mg/L
03C04	04/24/88	CHLORIDE	8.00000	mg/L
03C04	04/24/88	BARIUM, TOTAL	0.07500	mg/L
03C04	04/24/88	FLUORIDE, TOTAL	0.60000	mg/L
03C04	04/24/88	RADIUM, TOTAL	0.50000	mg/L
03C04	04/24/88	GROSS ALPHA	1.20000	mg/L
03C04	04/24/88	GROSS BETA	5.20000	mg/L
03C04	04/24/88	COLIFORM	0.00000	#/100ml
03C04	04/24/88	TRICHLOROETHYLENE	0.00800	mg/L
03C04	07/30/88	pH	7.30000	S.U.
03C04	07/30/88	SPECIFIC CONDUCTANCE	1924.00000	umho/cm
03C04	07/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C04	10/27/88	pH	7.80000	S.U.
03C04	10/27/88	SPECIFIC CONDUCTANCE	1424.00000	umho/cm
03C04	10/27/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C04	01/14/89	pH	6.80000	S.U.
03C04	01/14/89	SPECIFIC CONDUCTANCE	1947.00000	umho/cm
03C04	01/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C04	01/14/89	MANGANESE	0.03000	mg/L
03C04	01/14/89	SODIUM	86.00000	mg/L
03C04	01/14/89	SULFATE	900.00000	mg/L
03C04	01/14/89	CHLORIDE	8.00000	mg/L

03C04	01/14/89	BICARBONATE	793.00000	mg/L
03C04	01/14/89	CALCIUM	90.00000	mg/L
03C04	01/14/89	MAGNESIUM	123.00000	mg/L
03C04	01/14/89	POTASSIUM	16.50000	mg/L
03C04	01/14/89	FLUORIDE, TOTAL	0.72000	mg/L
03C04	01/14/89	COLIFORM	0.00000	TC/.1L
03C04	04/12/89	pH	7.50000	S.U.
03C04	04/12/89	SPECIFIC CONDUCTANCE	1796.00000	umho/cm
03C04	04/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C04	04/12/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C04	04/12/89	SODIUM	53.00000	mg/L
03C04	04/12/89	CALCIUM	97.50000	mg/L
03C04	04/12/89	MAGNESIUM	127.00000	mg/L
03C04	04/12/89	POTASSIUM	14.00000	mg/L
03C04	04/12/89	SULFATE	820.00000	mg/L
03C04	04/12/89	CHLORIDE	15.00000	mg/L
03C04	04/12/89	BICARBONATE	470.00000	mg/L
03C04	04/12/89	AMMONIA-NITROGEN	0.10000	mg/L
03C04	04/12/89	FLUORIDE, TOTAL	0.62000	mg/L
03C04	04/12/89	COLIFORM	0.00000	TC/.1L
03C04	04/12/89	TRICHLOROETHYLENE	0.01200	mg/L
03C04	07/14/89	pH	8.00000	S.U.
03C04	07/14/89	SPECIFIC CONDUCTANCE	1880.00000	umho/cm
03C04	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C04	07/14/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C04	07/14/89	MANGANESE	0.02000	mg/L
03C04	07/14/89	SODIUM	90.00000	mg/L
03C04	07/14/89	CALCIUM	121.00000	mg/L
03C04	07/14/89	MAGNESIUM	135.00000	mg/L
03C04	07/14/89	SULFATE	650.00000	mg/L
03C04	07/14/89	CHLORIDE	13.00000	mg/L
03C04	07/14/89	BICARBONATE	576.00000	mg/L
03C04	07/14/89	AMMONIA-NITROGEN	0.10000	mg/L
03C04	07/14/89	BARIUM, TOTAL	0.04000	mg/L
03C04	07/14/89	FLUORIDE, TOTAL	0.30000	mg/L
03C04	07/14/89	COLIFORM	0.00000	TC/.1L
03C04	07/14/89	TRICHLOROETHYLENE	0.00100	mg/L
03C04	10/23/89	pH	7.50000	S.U.
03C04	10/23/89	SPECIFIC CONDUCTANCE	1072.00000	umho/cm
03C04	10/23/89	CALCIUM	128.00000	mg/L
03C04	10/23/89	MAGNESIUM	162.00000	mg/L
03C04	10/23/89	POTASSIUM	0.20000	mg/L
03C04	10/23/89	BICARBONATE	508.00000	mg/L
03C04	10/23/89	TRICHLOROETHYLENE	0.08900	mg/L
03C04	01/31/90	pH	7.50000	S.U.
03C04	01/31/90	SPECIFIC CONDUCTANCE	1650.00000	umho/cm
03C04	01/31/90	TOTAL ORGANIC CARBON	2.10000	mg/L
03C04	01/31/90	MANGANESE	0.07000	mg/L
03C04	01/31/90	SODIUM	74.00000	mg/L
03C04	01/31/90	CALCIUM	114.00000	mg/L
03C04	01/31/90	MAGNESIUM	148.00000	mg/L
03C04	01/31/90	POTASSIUM	1.00000	mg/L
03C04	01/31/90	SULFATE	650.00000	mg/L
03C04	01/31/90	CHLORIDE	12.00000	mg/L
03C04	01/31/90	BICARBONATE	744.00000	mg/L
03C04	04/23/90	pH	7.30000	S.U.
03C04	04/23/90	SPECIFIC CONDUCTANCE	1546.00000	umho/cm
03C04	04/23/90	IRON, TOTAL	0.11000	mg/L
03C04	04/23/90	CALCIUM	119.00000	mg/L
03C04	04/23/90	MAGNESIUM	161.00000	mg/L

03C04	04/23/90	POTASSIUM	13.00000	mg/L
03C04	04/23/90	BICARBONATE	696.00000	mg/L
03C04	07/17/90	pH	7.90000	S.U.
03C04	07/17/90	SPECIFIC CONDUCTANCE	1664.00000	umho/cm
03C04	07/17/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C04	07/17/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C04	07/17/90	SODIUM	60.00000	mg/L
03C04	07/17/90	CALCIUM	111.00000	mg/L
03C04	07/17/90	MAGNESIUM	149.00000	mg/L
03C04	07/17/90	POTASSIUM	8.00000	mg/L
03C04	07/17/90	BICARBONATE	484.00000	mg/L
03C04	07/17/90	RDX	0.40000	mg/L
03C04	10/17/90	pH	7.90000	S.U.
03C04	10/17/90	SPECIFIC CONDUCTANCE	1549.00000	umho/cm
03C04	10/17/90	SODIUM	214.00000	mg/L
03C04	10/17/90	CALCIUM	124.00000	mg/L
03C04	10/17/90	MAGNESIUM	62.00000	mg/L
03C04	10/17/90	POTASSIUM	10.00000	mg/L
03C04	10/17/90	AMMONIA-NITROGEN	0.11000	mg/L
03C04	01/18/91	pH	7.57000	S.U.
03C04	01/18/91	SPECIFIC CONDUCTANCE	1695.00000	umho/cm
03C04	01/18/91	TOTAL ORGANIC CARBON	2.71000	mg/L
03C04	01/18/91	MANGANESE	0.01000	mg/L
03C04	01/18/91	SODIUM	79.00000	mg/L
03C04	01/18/91	CALCIUM	111.00000	mg/L
03C04	01/18/91	MAGNESIUM	203.00000	mg/L
03C04	01/18/91	POTASSIUM	8.00000	mg/L
03C04	01/18/91	SULFATE	825.00000	mg/L
03C04	01/18/91	CHLORIDE	16.00000	mg/L
03C04	01/18/91	BICARBONATE	500.00000	mg/L
03C04	01/18/91	TRICHLOROETHYLENE	0.00100	mg/L
03C04	04/07/91	pH	7.37000	S.U.
03C04	04/07/91	SPECIFIC CONDUCTANCE	1610.00000	umho/cm
03C04	04/07/91	CALCIUM	107.60000	mg/L
03C04	04/07/91	MAGNESIUM	76.50000	mg/L
03C04	04/07/91	POTASSIUM	7.90000	mg/L
03C04	04/07/91	BICARBONATE	508.00000	mg/L
03C04	04/07/91	AMMONIA-NITROGEN	0.13000	mg/L
03C04	07/15/91	pH	7.17000	S.U.
03C04	07/15/91	SPECIFIC CONDUCTANCE	1790.00000	umho/cm
03C04	07/15/91	TOTAL ORGANIC CARBON	1.09000	mg/L
03C04	07/15/91	IRON, TOTAL	0.12000	mg/L
03C04	07/15/91	MANGANESE	0.03000	mg/L
03C04	07/15/91	SODIUM	99.40000	mg/L
03C04	07/15/91	CALCIUM	99.80000	mg/L
03C04	07/15/91	MAGNESIUM	165.00000	mg/L
03C04	07/15/91	POTASSIUM	6.10000	mg/L
03C04	07/15/91	BICARBONATE	550.00000	mg/L
03C04	10/07/91	pH	7.10000	S.U.
03C04	10/07/91	SPECIFIC CONDUCTANCE	1557.00000	umho/cm
03C04	10/07/91	SODIUM	91.90000	mg/L
03C04	10/07/91	BICARBONATE	512.00000	mg/L
03C04	10/07/91	CALCIUM	99.30000	mg/L
03C04	10/07/91	MAGNESIUM	139.00000	mg/L
03C04	01/07/92	pH	8.70000	S.U.
03C04	01/07/92	SPECIFIC CONDUCTANCE	1550.00000	umho/cm
03C04	01/07/92	TOTAL ORGANIC CARBON	1.22000	mg/L
03C04	01/07/92	MANGANESE	0.01900	mg/L
03C04	01/07/92	SODIUM	119.00000	mg/L
03C04	01/07/92	CALCIUM	105.70000	mg/L

03C04	01/07/92	MAGNESIUM	146.00000	mg/L
03C04	01/07/92	POTASSIUM	11.70000	mg/L
03C04	01/07/92	SULFATE	250.00000	mg/L
03C04	01/07/92	CHLORIDE	12.00000	mg/L
03C04	01/07/92	BICARBONATE	4572.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C05	10/21/87	pH	7.70000	S.U.
03C05	10/21/87	SPECIFIC CONDUCTANCE	454.00000	umho/cm
03C05	10/21/87	TOTAL ORGANIC CARBON	6.00000	mg/L
03C05	10/21/87	SODIUM	14.00000	mg/L
03C05	10/21/87	SULFATE	45.00000	mg/L
03C05	10/21/87	CHLORIDE	8.00000	mg/L
03C05	10/21/87	FLUORIDE, TOTAL	0.13000	mg/L
03C05	10/21/87	NITRATE-N	0.60000	mg/L
03C05	10/21/87	RADIUM, TOTAL	0.10000	pCi/l
03C05	10/21/87	GROSS ALPHA	0.00000	pCi/l
03C05	10/21/87	GROSS BETA	3.00000	mlrem/y
03C05	01/28/88	pH	7.70000	S.U.
03C05	01/28/88	SPECIFIC CONDUCTANCE	402.00000	mg/L
03C05	01/28/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C05	01/28/88	TOTAL ORGANIC HALOGENS	0.01900	mg/L
03C05	01/28/88	SODIUM	7.00000	mg/L
03C05	01/28/88	SULFATE	52.00000	mg/L
03C05	01/28/88	CHLORIDE	3.00000	mg/L
03C05	01/28/88	FLUORIDE, TOTAL	0.14000	mg/L
03C05	01/28/88	NITRATE-N	0.51000	mg/L
03C05	01/28/88	RADIUM, TOTAL	0.10000	pCi/l
03C05	01/28/88	GROSS ALPHA	1.50000	pCi/l
03C05	01/28/88	GROSS BETA	3.40000	mlrem/y
03C05	01/28/88	COLIFORM	0.00000	#/100ml
03C05	04/21/88	pH	7.64000	S.U.
03C05	04/21/88	SPECIFIC CONDUCTANCE	418.00000	umho/cm
03C05	04/21/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C05	04/21/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C05	04/21/88	IRON, TOTAL	0.10000	mg/L
03C05	04/21/88	SODIUM	7.80000	mg/L
03C05	04/21/88	SULFATE	56.00000	mg/L
03C05	04/21/88	CHLORIDE	4.00000	mg/L
03C05	04/21/88	BARIUM, TOTAL	0.05000	mg/L
03C05	04/21/88	FLUORIDE, TOTAL	0.27000	mg/L
03C05	04/21/88	NITRATE-N	0.46000	mg/L
03C05	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03C05	04/21/88	GROSS ALPHA	0.00000	mg/L
03C05	04/21/88	GROSS BETA	1.20000	mg/L
03C05	04/21/88	COLIFORM	0.00000	#/100ml
03C05	07/26/88	pH	7.50000	S.U.
03C05	07/26/88	SPECIFIC CONDUCTANCE	406.00000	umho/cm
03C05	07/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C05	07/26/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C05	10/27/88	pH	7.50000	S.U.
03C05	10/27/88	SPECIFIC CONDUCTANCE	296.00000	umho/cm
03C05	10/27/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C05	10/27/88	SODIUM	2.60000	mg/L
03C05	10/27/88	SULFATE	44.00000	mg/L
03C05	10/27/88	CHLORIDE	5.00000	mg/L
03C05	10/27/88	AMMONIA-NITROGEN	0.24000	mg/L
03C05	10/27/88	BICARBONATE	305.00000	mg/L
03C05	10/27/88	CALCIUM	54.00000	mg/L
03C05	10/27/88	MAGNESIUM	6.00000	mg/L
03C05	10/27/88	POTASSIUM	2.00000	mg/L
03C05	10/27/88	FLUORIDE, TOTAL	0.12000	mg/L
03C05	10/27/88	NITRATE-N	1.40000	mg/L
03C05	10/27/88	GROSS BETA	16.00000	pcu/L
03C05	10/27/88	COLIFORM	0.00000	TC/.1L

03C05	10/27/88	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C05	10/27/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C05	01/15/89	pH	7.60000	S.U.
03C05	01/15/89	SPECIFIC CONDUCTANCE	365.00000	umho/cm
03C05	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C05	01/15/89	SODIUM	3.00000	mg/L
03C05	01/15/89	SULFATE	50.00000	mg/L
03C05	01/15/89	CHLORIDE	6.00000	mg/L
03C05	01/15/89	AMMONIA-NITROGEN	0.35000	mg/L
03C05	01/15/89	BICARBONATE	274.00000	mg/L
03C05	01/15/89	CALCIUM	71.00000	mg/L
03C05	01/15/89	MAGNESIUM	6.20000	mg/L
03C05	01/15/89	POTASSIUM	1.10000	mg/L
03C05	01/15/89	FLUORIDE, TOTAL	0.30000	mg/L
03C05	01/15/89	NITRATE-N	0.65000	mg/L
03C05	01/15/89	COLIFORM	0.00000	TC/.1L
03C05	04/14/89	pH	7.60000	S.U.
03C05	04/14/89	SPECIFIC CONDUCTANCE	368.00000	umho/cm
03C05	04/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C05	04/14/89	SODIUM	2.70000	mg/L
03C05	04/14/89	CALCIUM	47.00000	mg/L
03C05	04/14/89	MAGNESIUM	4.70000	mg/L
03C05	04/14/89	POTASSIUM	2.00000	mg/L
03C05	04/14/89	SULFATE	44.00000	mg/L
03C05	04/14/89	CHLORIDE	10.00000	mg/L
03C05	04/14/89	BICARBONATE	186.00000	mg/L
03C05	04/14/89	FLUORIDE, TOTAL	0.05000	mg/L
03C05	04/14/89	NITRATE-N	0.80000	mg/L
03C05	04/14/89	COLIFORM	0.00000	TC/.1L
03C05	04/14/89	TRICHLOROETHYLENE	0.00300	mg/L
03C05	07/11/89	pH	7.60000	S.U.
03C05	07/11/89	SPECIFIC CONDUCTANCE	357.00000	umho/cm
03C05	07/11/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C05	07/11/89	SODIUM	2.40000	mg/L
03C05	07/11/89	CALCIUM	63.00000	mg/L
03C05	07/11/89	MAGNESIUM	6.00000	mg/L
03C05	07/11/89	POTASSIUM	0.70000	mg/L
03C05	07/11/89	SULFATE	44.00000	mg/L
03C05	07/11/89	CHLORIDE	12.00000	mg/L
03C05	07/11/89	BICARBONATE	195.00000	mg/L
03C05	07/11/89	BARIUM, TOTAL	0.03000	mg/L
03C05	07/11/89	FLUORIDE, TOTAL	0.05000	mg/L
03C05	07/11/89	NITRATE-N	0.73000	mg/L
03C05	07/11/89	COLIFORM	2.00000	TC/.1L
03C05	10/20/89	pH	7.60000	S.U.
03C05	10/20/89	SPECIFIC CONDUCTANCE	433.00000	umho/cm
03C05	10/20/89	CALCIUM	73.00000	mg/L
03C05	10/20/89	MAGNESIUM	7.00000	mg/L
03C05	10/20/89	POTASSIUM	1.30000	mg/L
03C05	10/20/89	BICARBONATE	225.00000	mg/L
03C05	10/20/89	TRICHLOROETHYLENE	0.00700	mg/L
03C05	01/31/90	pH	7.80000	S.U.
03C05	01/31/90	SPECIFIC CONDUCTANCE	380.00000	umho/cm
03C05	01/31/90	TOTAL ORGANIC CARBON	1.40000	mg/L
03C05	01/31/90	SODIUM	3.00000	mg/L
03C05	01/31/90	CALCIUM	54.00000	mg/L
03C05	01/31/90	MAGNESIUM	5.00000	mg/L
03C05	01/31/90	POTASSIUM	1.00000	mg/L
03C05	01/31/90	SULFATE	39.00000	mg/L
03C05	01/31/90	CHLORIDE	12.00000	mg/L

03C05	01/31/90	BICARBONATE	207.00000	mg/L
03C05	04/18/90	pH	7.90000	S.U.
03C05	04/18/90	SPECIFIC CONDUCTANCE	350.00000	umho/cm
03C05	04/18/90	CALCIUM	65.00000	mg/L
03C05	04/18/90	MAGNESIUM	7.00000	mg/L
03C05	04/18/90	POTASSIUM	2.00000	mg/L
03C05	04/18/90	BICARBONATE	237.00000	mg/L
03C05	07/10/90	pH	7.60000	S.U.
03C05	07/10/90	SPECIFIC CONDUCTANCE	387.00000	umho/cm
03C05	07/10/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C05	07/10/90	SODIUM	4.00000	mg/L
03C05	07/10/90	CALCIUM	62.00000	mg/L
03C05	07/10/90	MAGNESIUM	6.00000	mg/L
03C05	07/10/90	POTASSIUM	3.00000	mg/L
03C05	07/10/90	BICARBONATE	209.00000	mg/L
03C05	07/10/90	RDX	0.40000	mg/L
03C05	07/10/90	TRICHLOROETHYLENE	0.00300	mg/L
03C05	10/16/90	pH	7.30000	S.U.
03C05	10/16/90	SPECIFIC CONDUCTANCE	243.00000	umho/cm
03C05	10/16/90	SODIUM	4.00000	mg/L
03C05	10/16/90	CALCIUM	81.00000	mg/L
03C05	10/16/90	MAGNESIUM	7.00000	mg/L
03C05	10/16/90	POTASSIUM	2.00000	mg/L
03C05	01/13/91	pH	7.70000	S.U.
03C05	01/13/91	SPECIFIC CONDUCTANCE	393.00000	umho/cm
03C05	01/13/91	TOTAL ORGANIC CARBON	1.05000	mg/L
03C05	01/13/91	SODIUM	2.00000	mg/L
03C05	01/13/91	CALCIUM	52.00000	mg/L
03C05	01/13/91	MAGNESIUM	7.00000	mg/L
03C05	01/13/91	POTASSIUM	1.00000	mg/L
03C05	01/13/91	SULFATE	49.00000	mg/L
03C05	01/13/91	CHLORIDE	12.00000	mg/L
03C05	01/13/91	BICARBONATE	244.00000	mg/L
03C05	01/13/91	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03C05	04/03/91	pH	7.41000	S.U.
03C05	04/03/91	SPECIFIC CONDUCTANCE	341.00000	umho/cm
03C05	04/03/91	CALCIUM	64.10000	mg/L
03C05	04/03/91	MAGNESIUM	5.70000	mg/L
03C05	04/03/91	POTASSIUM	1.20000	mg/L
03C05	04/03/91	BICARBONATE	221.00000	mg/L
03C05	04/03/91	AMMONIA-NITROGEN	0.10000	mg/L
03C05	06/29/91	pH	7.75000	S.U.
03C05	06/29/91	SPECIFIC CONDUCTANCE	377.00000	umho/cm
03C05	06/29/91	TOTAL ORGANIC CARBON	1.11000	mg/L
03C05	06/29/91	IRON, TOTAL	0.07000	mg/L
03C05	06/29/91	MANGANESE	0.05000	mg/L
03C05	06/29/91	SODIUM	3.50000	mg/L
03C05	06/29/91	CALCIUM	52.80000	mg/L
03C05	06/29/91	MAGNESIUM	6.40000	mg/L
03C05	06/29/91	POTASSIUM	4.80000	mg/L
03C05	06/29/91	BICARBONATE	233.00000	mg/L
03C05	10/04/91	pH	7.20000	S.U.
03C05	10/04/91	SPECIFIC CONDUCTANCE	355.00000	umho/cm
03C05	10/04/91	SODIUM	2.30000	mg/L
03C05	10/04/91	BICARBONATE	220.00000	mg/L
03C05	10/04/91	CALCIUM	64.60000	mg/L
03C05	10/04/91	MAGNESIUM	7.60000	mg/L
03C05	10/04/91	POTASSIUM	1.10000	mg/L
03C05	01/02/92	pH	8.10000	S.U.
03C05	01/02/92	SPECIFIC CONDUCTANCE	360.00000	umho/cm

03C05	01/02/92	TOTAL ORGANIC CARBON	0.74000	mg/L
03C05	01/02/92	SODIUM	2.10000	mg/L
03C05	01/02/92	CALCIUM	67.10000	mg/L
03C05	01/02/92	MAGNESIUM	5.60000	mg/L
03C05	01/02/92	SULFATE	32.00000	mg/L
03C05	01/02/92	CHLORIDE	10.00000	mg/L
03C05	01/02/92	BICARBONATE	203.00000	mg/L
03C05	01/02/92	TNT	0.01000	mg/L
03C05	01/02/92	RDX	0.05000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C06	11/17/87	pH	7.48000	S.U.
03C06	11/17/87	SPECIFIC CONDUCTANCE	541.00000	umho/cm
03C06	11/17/87	TOTAL ORGANIC CARBON	10.00000	mg/L
03C06	11/17/87	IRON, TOTAL	0.01000	mg/L
03C06	11/17/87	SODIUM	16.00000	mg/L
03C06	11/17/87	SULFATE	35.00000	mg/L
03C06	11/17/87	CHLORIDE	4.00000	mg/L
03C06	11/17/87	FLUORIDE, TOTAL	0.15000	mg/L
03C06	11/17/87	NITRATE-N	0.16020	mg/L
03C06	11/17/87	RADIUM, TOTAL	0.00000	pCi/l
03C06	11/17/87	GROSS ALPHA	0.50000	pCi/l
03C06	11/17/87	GROSS BETA	1.50000	mlrem/y
03C06	11/17/87	BENZENE	0.00300	mg/L
03C06	02/07/88	pH	7.57000	S.U.
03C06	02/07/88	SPECIFIC CONDUCTANCE	694.00000	umho/cm
03C06	02/07/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C06	02/07/88	MANGANESE	0.01700	mg/L
03C06	02/07/88	SODIUM	13.00000	mg/L
03C06	02/07/88	SULFATE	64.00000	mg/L
03C06	02/07/88	CHLORIDE	2.00000	mg/L
03C06	02/07/88	PHENOLS	0.00000	mg/L
03C06	02/07/88	BARIUM, TOTAL	0.07000	mg/L
03C06	02/07/88	FLUORIDE, TOTAL	0.18000	mg/L
03C06	02/07/88	NITRATE-N	0.09000	mg/L
03C06	02/07/88	RADIUM, TOTAL	0.20000	pCi/l
03C06	02/07/88	GROSS ALPHA	0.00000	pCi/l
03C06	02/07/88	GROSS BETA	1.40000	mlrem/y
03C06	02/07/88	COLIFORM	0.00000	#/100ml
03C06	02/07/88	TRICHLOROETHYLENE	0.00600	mg/L
03C06	04/27/88	pH	6.99000	S.U.
03C06	04/27/88	SPECIFIC CONDUCTANCE	576.00000	umho/cm
03C06	04/27/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C06	04/27/88	IRON, TOTAL	0.01000	mg/L
03C06	04/27/88	MANGANESE	0.05000	mg/L
03C06	04/27/88	SODIUM	128.00000	mg/L
03C06	04/27/88	SULFATE	58.00000	mg/L
03C06	04/27/88	CHLORIDE	2.00000	mg/L
03C06	04/27/88	FLUORIDE, TOTAL	0.60000	mg/L
03C06	04/27/88	NITRATE-N	0.10000	mg/L
03C06	04/27/88	RADIUM, TOTAL	0.10000	mg/L
03C06	04/27/88	GROSS ALPHA	0.00000	mg/L
03C06	04/27/88	GROSS BETA	0.60000	mg/L
03C06	04/27/88	COLIFORM	0.00000	#/100ml
03C06	04/27/88	TRICHLOROETHYLENE	0.00300	mg/L
03C06	07/25/88	pH	7.20000	S.U.
03C06	07/25/88	SPECIFIC CONDUCTANCE	688.00000	umho/cm
03C06	07/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C06	10/22/88	pH	7.70000	S.U.
03C06	10/22/88	SPECIFIC CONDUCTANCE	536.00000	umho/cm
03C06	10/22/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C06	10/22/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C06	10/22/88	MANGANESE	0.15200	mg/L
03C06	10/22/88	SODIUM	48.00000	mg/L
03C06	10/22/88	SULFATE	68.00000	mg/L
03C06	10/22/88	CHLORIDE	4.00000	mg/L
03C06	10/22/88	AMMONIA-NITROGEN	0.24000	mg/L
03C06	10/22/88	BICARBONATE	732.00000	mg/L
03C06	10/22/88	CALCIUM	62.00000	mg/L

03C06	10/22/88	MAGNESIUM	26.00000	mg/L
03C06	10/22/88	POTASSIUM	2.00000	mg/L
03C06	10/22/88	FLUORIDE, TOTAL	0.14000	mg/L
03C06	10/22/88	NITRATE-N	0.12000	mg/L
03C06	10/22/88	GROSS BETA	2.80000	pcu/L
03C06	10/22/88	COLIFORM	0.00000	TC/.1L
03C06	01/15/89	pH	7.40000	S.U.
03C06	01/15/89	SPECIFIC CONDUCTANCE	613.00000	umho/cm
03C06	01/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C06	01/15/89	MANGANESE	0.02000	mg/L
03C06	01/15/89	SODIUM	16.00000	mg/L
03C06	01/15/89	SULFATE	75.00000	mg/L
03C06	01/15/89	CHLORIDE	4.00000	mg/L
03C06	01/15/89	AMMONIA-NITROGEN	0.62000	mg/L
03C06	01/15/89	BICARBONATE	549.00000	mg/L
03C06	01/15/89	CALCIUM	71.00000	mg/L
03C06	01/15/89	MAGNESIUM	26.00000	mg/L
03C06	01/15/89	POTASSIUM	1.30000	mg/L
03C06	01/15/89	BARIUM, TOTAL	0.05000	mg/L
03C06	01/15/89	FLUORIDE, TOTAL	0.52000	mg/L
03C06	01/15/89	NITRATE-N	0.90000	mg/L
03C06	01/15/89	COLIFORM	0.00000	TC/.1L
03C06	04/13/89	pH	7.40000	S.U.
03C06	04/13/89	SPECIFIC CONDUCTANCE	598.00000	umho/cm
03C06	04/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C06	04/13/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C06	04/13/89	SODIUM	65.00000	mg/L
03C06	04/13/89	CALCIUM	56.00000	mg/L
03C06	04/13/89	MAGNESIUM	22.00000	mg/L
03C06	04/13/89	POTASSIUM	2.00000	mg/L
03C06	04/13/89	SULFATE	37.00000	mg/L
03C06	04/13/89	CHLORIDE	7.00000	mg/L
03C06	04/13/89	BICARBONATE	353.00000	mg/L
03C06	04/13/89	FLUORIDE, TOTAL	0.26000	mg/L
03C06	04/13/89	COLIFORM	0.00000	TC/.1L
03C06	04/13/89	TRICHLOROETHYLENE	0.00400	mg/L
03C06	07/16/89	pH	7.50000	S.U.
03C06	07/16/89	SPECIFIC CONDUCTANCE	666.00000	umho/cm
03C06	07/16/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C06	07/16/89	TOTAL ORGANIC HALOGENS	0.03100	mg/L
03C06	07/16/89	SODIUM	10.00000	mg/L
03C06	07/16/89	CALCIUM	63.00000	mg/L
03C06	07/16/89	MAGNESIUM	24.00000	mg/L
03C06	07/16/89	POTASSIUM	10.00000	mg/L
03C06	07/16/89	SULFATE	64.00000	mg/L
03C06	07/16/89	CHLORIDE	9.00000	mg/L
03C06	07/16/89	BICARBONATE	420.00000	mg/L
03C06	07/16/89	BARIUM, TOTAL	0.04000	mg/L
03C06	07/16/89	FLUORIDE, TOTAL	0.20000	mg/L
03C06	07/16/89	NITRATE-N	0.17000	mg/L
03C06	07/16/89	COLIFORM	0.00000	TC/.1L
03C06	07/16/89	TRICHLOROETHYLENE	0.04000	mg/L
03C06	10/24/89	pH	7.40000	S.U.
03C06	10/24/89	SPECIFIC CONDUCTANCE	580.00000	umho/cm
03C06	10/24/89	CALCIUM	66.00000	mg/L
03C06	10/24/89	MAGNESIUM	25.00000	mg/L
03C06	10/24/89	POTASSIUM	1.50000	mg/L
03C06	10/24/89	BICARBONATE	371.00000	mg/L
03C06	10/24/89	TRICHLOROETHYLENE	0.08600	mg/L
03C06	02/03/90	pH	7.60000	S.U.

03C06	02/03/90	SPECIFIC CONDUCTANCE	543.00000	umho/cm
03C06	02/03/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C06	02/03/90	MANGANESE	0.00900	mg/L
03C06	02/03/90	SODIUM	8.00000	mg/L
03C06	02/03/90	CALCIUM	61.00000	mg/L
03C06	02/03/90	MAGNESIUM	23.00000	mg/L
03C06	02/03/90	POTASSIUM	1.00000	mg/L
03C06	02/03/90	SULFATE	43.00000	mg/L
03C06	02/03/90	CHLORIDE	8.00000	mg/L
03C06	02/03/90	BICARBONATE	329.00000	mg/L
03C06	04/23/90	pH	7.30000	S.U.
03C06	04/23/90	SPECIFIC CONDUCTANCE	540.00000	umho/cm
03C06	04/23/90	CALCIUM	74.00000	mg/L
03C06	04/23/90	MAGNESIUM	31.00000	mg/L
03C06	04/23/90	POTASSIUM	3.00000	mg/L
03C06	04/23/90	BICARBONATE	355.00000	mg/L
03C06	07/20/90	pH	7.60000	S.U.
03C06	07/20/90	SPECIFIC CONDUCTANCE	776.00000	umho/cm
03C06	07/20/90	TOTAL ORGANIC CARBON	1.30000	mg/L
03C06	07/20/90	SODIUM	8.00000	mg/L
03C06	07/20/90	CALCIUM	73.00000	mg/L
03C06	07/20/90	MAGNESIUM	30.00000	mg/L
03C06	07/20/90	POTASSIUM	1.00000	mg/L
03C06	07/20/90	BICARBONATE	287.00000	mg/L
03C06	10/20/90	pH	7.60000	S.U.
03C06	10/20/90	SPECIFIC CONDUCTANCE	678.00000	umho/cm
03C06	10/20/90	SODIUM	84.00000	mg/L
03C06	10/20/90	CALCIUM	62.00000	mg/L
03C06	10/20/90	MAGNESIUM	24.00000	mg/L
03C06	10/20/90	POTASSIUM	1.00000	mg/L
03C06	10/20/90	AMMONIA-NITROGEN	0.13000	mg/L
03C06	01/13/91	pH	7.37000	S.U.
03C06	01/13/91	SPECIFIC CONDUCTANCE	588.00000	umho/cm
03C06	01/13/91	TOTAL ORGANIC CARBON	1.00000	mg/L
03C06	01/13/91	MANGANESE	0.01000	mg/L
03C06	01/13/91	SODIUM	13.00000	mg/L
03C06	01/13/91	CALCIUM	62.00000	mg/L
03C06	01/13/91	MAGNESIUM	36.00000	mg/L
03C06	01/13/91	POTASSIUM	2.00000	mg/L
03C06	01/13/91	SULFATE	69.00000	mg/L
03C06	01/13/91	CHLORIDE	18.00000	mg/L
03C06	01/13/91	BICARBONATE	390.00000	mg/L
03C06	01/13/91	TRICHLOROETHYLENE	0.00200	mg/L
03C06	04/07/91	pH	7.38000	S.U.
03C06	04/07/91	SPECIFIC CONDUCTANCE	623.00000	umho/cm
03C06	04/07/91	CALCIUM	48.20000	mg/L
03C06	04/07/91	MAGNESIUM	19.10000	mg/L
03C06	04/07/91	POTASSIUM	1.90000	mg/L
03C06	04/07/91	BICARBONATE	401.00000	mg/L
03C06	04/07/91	AMMONIA-NITROGEN	0.09000	mg/L
03C06	07/12/91	pH	7.13000	S.U.
03C06	07/12/91	SPECIFIC CONDUCTANCE	553.00000	umho/cm
03C06	07/12/91	TOTAL ORGANIC CARBON	2.00000	mg/L
03C06	07/12/91	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C06	07/12/91	IRON, TOTAL	0.07000	mg/L
03C06	07/12/91	MANGANESE	0.00800	mg/L
03C06	07/12/91	SODIUM	10.70000	mg/L
03C06	07/12/91	CALCIUM	66.10000	mg/L
03C06	07/12/91	MAGNESIUM	23.80000	mg/L
03C06	07/12/91	POTASSIUM	1.00000	mg/L

03C06	07/12/91	BICARBONATE	371.00000	mg/L
03C06	07/12/91	TRICHLOROETHENE	0.03000	mg/L
03C06	10/02/91	pH	7.00000	S.U.
03C06	10/02/91	SPECIFIC CONDUCTANCE	568.00000	umho/cm
03C06	10/02/91	SODIUM	15.90000	mg/L
03C06	10/02/91	TRICHLOROETHYLENE	0.00900	mg/L
03C06	10/02/91	AMMONIA-NITROGEN	0.09000	mg/L
03C06	10/02/91	BICARBONATE	392.00000	mg/L
03C06	10/02/91	CALCIUM	60.30000	mg/L
03C06	10/02/91	MAGNESIUM	24.90000	mg/L
03C06	10/02/91	POTASSIUM	0.50000	mg/L
03C06	01/04/92	pH	7.80000	S.U.
03C06	01/04/92	SPECIFIC CONDUCTANCE	485.00000	umho/cm
03C06	01/04/92	TOTAL ORGANIC CARBON	1.12000	mg/L
03C06	01/04/92	SODIUM	8.40000	mg/L
03C06	01/04/92	CALCIUM	71.20000	mg/L
03C06	01/04/92	MAGNESIUM	27.00000	mg/L
03C06	01/04/92	POTASSIUM	2.70000	mg/L
03C06	01/04/92	SULFATE	68.00000	mg/L
03C06	01/04/92	CHLORIDE	10.00000	mg/L
03C06	01/04/92	BICARBONATE	311.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C07	10/21/87	pH	7.63000	S.U.
03C07	10/21/87	SPECIFIC CONDUCTANCE	824.00000	umho/cm
03C07	10/21/87	TOTAL ORGANIC CARBON	8.00000	mg/L
03C07	10/21/87	MANGANESE	0.03000	mg/L
03C07	10/21/87	SODIUM	22.00000	mg/L
03C07	10/21/87	SULFATE	95.00000	mg/L
03C07	10/21/87	CHLORIDE	20.00000	mg/L
03C07	10/21/87	CADMIUM, TOTAL	0.06000	mg/L
03C07	10/21/87	FLUORIDE, TOTAL	0.15000	mg/L
03C07	10/21/87	NITRATE-N	0.13000	mg/L
03C07	10/21/87	RADIUM, TOTAL	0.10000	pCi/l
03C07	10/21/87	GROSS ALPHA	4.70000	pCi/l
03C07	10/21/87	GROSS BETA	3.40000	mlrem/y
03C07	10/21/87	CHLOROFORM	0.00200	mg/L
03C07	10/21/87	TRICHLOROETHENE	0.00200	mg/L
03C07	02/04/88	pH	7.52000	S.U.
03C07	02/04/88	SPECIFIC CONDUCTANCE	925.00000	umho/cm
03C07	02/04/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C07	02/04/88	MANGANESE	0.50000	mg/L
03C07	02/04/88	SODIUM	29.00000	mg/L
03C07	02/04/88	SULFATE	95.00000	mg/L
03C07	02/04/88	CHLORIDE	14.00000	mg/L
03C07	02/04/88	BARIUM, TOTAL	0.07000	mg/L
03C07	02/04/88	FLUORIDE, TOTAL	0.28000	mg/L
03C07	02/04/88	NITRATE-N	0.07000	mg/L
03C07	02/04/88	RADIUM, TOTAL	0.40000	pCi/l
03C07	02/04/88	GROSS ALPHA	1.10000	pCi/l
03C07	02/04/88	GROSS BETA	14.00000	mlrem/y
03C07	02/04/88	COLIFORM	0.00000	#/100ml
03C07	04/25/88	pH	7.11000	S.U.
03C07	04/25/88	SPECIFIC CONDUCTANCE	918.00000	umho/cm
03C07	04/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C07	04/25/88	MANGANESE	0.17000	mg/L
03C07	04/25/88	SODIUM	30.00000	mg/L
03C07	04/25/88	SULFATE	68.00000	mg/L
03C07	04/25/88	CHLORIDE	8.00000	mg/L
03C07	04/25/88	BARIUM, TOTAL	0.06000	mg/L
03C07	04/25/88	FLUORIDE, TOTAL	0.40000	mg/L
03C07	04/25/88	RADIUM, TOTAL	0.00000	mg/L
03C07	04/25/88	GROSS ALPHA	1.90000	mg/L
03C07	04/25/88	GROSS BETA	17.00000	mg/L
03C07	04/25/88	COLIFORM	0.00000	#/100ml
03C07	04/25/88	TRICHLOROETHYLENE	0.00300	mg/L
03C07	07/30/88	pH	7.30000	S.U.
03C07	07/30/88	SPECIFIC CONDUCTANCE	820.00000	umho/cm
03C07	07/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C07	07/30/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C07	07/30/88	RDX	0.01000	mg/L
03C07	10/25/88	pH	7.50000	S.U.
03C07	10/25/88	SPECIFIC CONDUCTANCE	637.00000	umho/cm
03C07	10/25/88	TOTAL ORGANIC CARBON	10.00000	mg/L
03C07	10/25/88	MANGANESE	0.27000	mg/L
03C07	10/25/88	SODIUM	30.00000	mg/L
03C07	10/25/88	SULFATE	78.00000	mg/L
03C07	10/25/88	CHLORIDE	9.00000	mg/L
03C07	10/25/88	AMMONIA-NITROGEN	0.10000	mg/L
03C07	10/25/88	BICARBONATE	683.00000	mg/L
03C07	10/25/88	CALCIUM	86.00000	mg/L

03C07	10/25/88	MAGNESIUM	49.00000	mg/L
03C07	10/25/88	POTASSIUM	2.00000	mg/L
03C07	10/25/88	FLUORIDE, TOTAL	0.40000	mg/L
03C07	10/25/88	NITRATE-N	0.10000	mg/L
03C07	10/25/88	GROSS BETA	3.00000	pcu/L
03C07	10/25/88	COLIFORM	0.00000	TC/.1L
03C07	01/16/89	pH	7.20000	S.U.
03C07	01/16/89	SPECIFIC CONDUCTANCE	788.00000	umho/cm
03C07	01/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C07	01/16/89	MANGANESE	0.24000	mg/L
03C07	01/16/89	SODIUM	97.00000	mg/L
03C07	01/16/89	SULFATE	90.00000	mg/L
03C07	01/16/89	CHLORIDE	8.00000	mg/L
03C07	01/16/89	AMMONIA-NITROGEN	0.20000	mg/L
03C07	01/16/89	BICARBONATE	842.00000	mg/L
03C07	01/16/89	CALCIUM	80.00000	mg/L
03C07	01/16/89	MAGNESIUM	40.00000	mg/L
03C07	01/16/89	POTASSIUM	9.20000	mg/L
03C07	01/16/89	COLIFORM	0.00000	TC/.1L
03C07	04/16/89	pH	7.10000	S.U.
03C07	04/16/89	SPECIFIC CONDUCTANCE	791.00000	umho/cm
03C07	04/16/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C07	04/16/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C07	04/16/89	MANGANESE	0.06000	mg/L
03C07	04/16/89	SODIUM	40.00000	mg/L
03C07	04/16/89	CALCIUM	79.60000	mg/L
03C07	04/16/89	MAGNESIUM	41.00000	mg/L
03C07	04/16/89	POTASSIUM	5.00000	mg/L
03C07	04/16/89	SULFATE	77.00000	mg/L
03C07	04/16/89	CHLORIDE	13.00000	mg/L
03C07	04/16/89	BICARBONATE	450.00000	mg/L
03C07	04/16/89	FLUORIDE, TOTAL	0.26000	mg/L
03C07	04/16/89	NITRATE-N	0.50000	mg/L
03C07	04/16/89	COLIFORM	0.00000	TC/.1L
03C07	04/16/89	TRICHLOROETHYLENE	0.00600	mg/L
03C07	07/14/89	pH	7.40000	S.U.
03C07	07/14/89	SPECIFIC CONDUCTANCE	816.00000	umho/cm
03C07	07/14/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C07	07/14/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C07	07/14/89	MANGANESE	0.04000	mg/L
03C07	07/14/89	SODIUM	20.00000	mg/L
03C07	07/14/89	CALCIUM	87.00000	mg/L
03C07	07/14/89	MAGNESIUM	44.00000	mg/L
03C07	07/14/89	POTASSIUM	10.00000	mg/L
03C07	07/14/89	SULFATE	16.00000	mg/L
03C07	07/14/89	CHLORIDE	16.00000	mg/L
03C07	07/14/89	BICARBONATE	475.00000	mg/L
03C07	07/14/89	BARIUM, TOTAL	0.04000	mg/L
03C07	07/14/89	FLUORIDE, TOTAL	0.24000	mg/L
03C07	07/14/89	COLIFORM	0.00000	TC/.1L
03C07	07/14/89	TRICHLOROETHYLENE	0.00100	mg/L
03C07	10/22/89	pH	7.60000	S.U.
03C07	10/22/89	SPECIFIC CONDUCTANCE	753.00000	umho/cm
03C07	10/22/89	CALCIUM	80.00000	mg/L
03C07	10/22/89	MAGNESIUM	42.00000	mg/L
03C07	10/22/89	POTASSIUM	5.40000	mg/L
03C07	10/22/89	BICARBONATE	391.00000	mg/L
03C07	10/22/89	TRICHLOROETHYLENE	0.00600	mg/L
03C07	01/31/90	pH	7.60000	S.U.
03C07	01/31/90	SPECIFIC CONDUCTANCE	760.00000	umho/cm

03C07	01/31/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03C07	01/31/90	MANGANESE	0.01500	mg/L
03C07	01/31/90	SODIUM	33.00000	mg/L
03C07	01/31/90	CALCIUM	55.00000	mg/L
03C07	01/31/90	MAGNESIUM	28.00000	mg/L
03C07	01/31/90	POTASSIUM	61.00000	mg/L
03C07	01/31/90	SULFATE	54.00000	mg/L
03C07	01/31/90	CHLORIDE	13.00000	mg/L
03C07	01/31/90	BICARBONATE	464.00000	mg/L
03C07	04/23/90	pH	8.00000	S.U.
03C07	04/23/90	SPECIFIC CONDUCTANCE	740.00000	umho/cm
03C07	04/23/90	IRON, TOTAL	0.07000	mg/L
03C07	04/23/90	CALCIUM	80.00000	mg/L
03C07	04/23/90	MAGNESIUM	47.00000	mg/L
03C07	04/23/90	POTASSIUM	7.00000	mg/L
03C07	04/23/90	BICARBONATE	425.00000	mg/L
03C07	07/17/90	pH	7.50000	S.U.
03C07	07/17/90	SPECIFIC CONDUCTANCE	742.00000	umho/cm
03C07	07/17/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C07	07/17/90	IRON, TOTAL	0.07000	mg/L
03C07	07/17/90	SODIUM	36.00000	mg/L
03C07	07/17/90	CALCIUM	70.00000	mg/L
03C07	07/17/90	MAGNESIUM	41.00000	mg/L
03C07	07/17/90	POTASSIUM	6.00000	mg/L
03C07	07/17/90	BICARBONATE	455.00000	mg/L
03C07	10/18/90	pH	7.30000	S.U.
03C07	10/18/90	SPECIFIC CONDUCTANCE	728.00000	umho/cm
03C07	10/18/90	SODIUM	30.00000	mg/L
03C07	10/18/90	CALCIUM	93.00000	mg/L
03C07	10/18/90	MAGNESIUM	45.00000	mg/L
03C07	10/18/90	POTASSIUM	2.00000	mg/L
03C07	01/18/91	pH	7.36000	S.U.
03C07	01/18/91	SPECIFIC CONDUCTANCE	751.00000	umho/cm
03C07	01/18/91	TOTAL ORGANIC CARBON	1.02000	mg/L
03C07	01/18/91	MANGANESE	0.06000	mg/L
03C07	01/18/91	SODIUM	27.00000	mg/L
03C07	01/18/91	CALCIUM	59.00000	mg/L
03C07	01/18/91	MAGNESIUM	52.00000	mg/L
03C07	01/18/91	POTASSIUM	4.00000	mg/L
03C07	01/18/91	SULFATE	90.00000	mg/L
03C07	01/18/91	CHLORIDE	16.00000	mg/L
03C07	01/18/91	BICARBONATE	488.00000	mg/L
03C07	01/18/91	TRICHLOROETHYLENE	0.00100	mg/L
03C07	04/07/91	pH	7.01000	S.U.
03C07	04/07/91	SPECIFIC CONDUCTANCE	754.00000	umho/cm
03C07	04/07/91	CALCIUM	86.30000	mg/L
03C07	04/07/91	MAGNESIUM	45.40000	mg/L
03C07	04/07/91	POTASSIUM	5.10000	mg/L
03C07	04/07/91	BICARBONATE	496.00000	mg/L
03C07	04/07/91	AMMONIA-NITROGEN	0.06000	mg/L
03C07	04/07/91	TRICHLOROETHYLENE	0.00200	mg/L
03C07	07/15/91	pH	7.10000	S.U.
03C07	07/15/91	SPECIFIC CONDUCTANCE	751.00000	umho/cm
03C07	07/15/91	TOTAL ORGANIC CARBON	1.08000	mg/L
03C07	07/15/91	IRON, TOTAL	0.13000	mg/L
03C07	07/15/91	MANGANESE	0.02000	mg/L
03C07	07/15/91	SODIUM	17.70000	mg/L
03C07	07/15/91	CALCIUM	65.00000	mg/L
03C07	07/15/91	MAGNESIUM	33.00000	mg/L
03C07	07/15/91	POTASSIUM	6.20000	mg/L

03C07	07/15/91	BICARBONATE	450.00000	mg/L
03C07	10/07/91	pH	7.10000	S.U.
03C07	10/07/91	SPECIFIC CONDUCTANCE	682.00000	umho/cm
03C07	10/07/91	SODIUM	19.90000	mg/L
03C07	10/07/91	AMMONIA-NITROGEN	0.06000	mg/L
03C07	10/07/91	BICARBONATE	458.00000	mg/L
03C07	10/07/91	CALCIUM	85.00000	mg/L
03C07	10/07/91	MAGNESIUM	44.40000	mg/L
03C07	10/07/91	POTASSIUM	14.50000	mg/L
03C07	01/10/92	pH	7.40000	S.U.
03C07	01/10/92	SPECIFIC CONDUCTANCE	657.00000	umho/cm
03C07	01/10/92	TOTAL ORGANIC CARBON	1.56000	mg/L
03C07	01/10/92	SODIUM	19.00000	mg/L
03C07	01/10/92	CALCIUM	83.50000	mg/L
03C07	01/10/92	MAGNESIUM	43.40000	mg/L
03C07	01/10/92	SULFATE	80.00000	mg/L
03C07	01/10/92	CHLORIDE	11.00000	mg/L
03C07	01/10/92	BICARBONATE	448.00000	mg/L
03C07	01/10/92	TRICHLOROETHYLENE	0.00300	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C08AP2	11/10/87	pH	7.59000	S.U.
03C08AP2	11/10/87	SPECIFIC CONDUCTANCE	1061.00000	umho/cm
03C08AP2	11/10/87	TOTAL ORGANIC CARBON	8.00000	mg/L
03C08AP2	11/10/87	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C08AP2	11/10/87	SODIUM	41.00000	mg/L
03C08AP2	11/10/87	SULFATE	100.00000	mg/L
03C08AP2	11/10/87	CHLORIDE	61.00000	mg/L
03C08AP2	11/10/87	HMX	0.08000	mg/L
03C08AP2	11/10/87	BARIUM, TOTAL	0.09000	mg/L
03C08AP2	11/10/87	FLUORIDE, TOTAL	0.10000	mg/L
03C08AP2	11/10/87	NITRATE-N	12.60000	mg/L
03C08AP2	11/10/87	RADIUM, TOTAL	0.40000	pCi/l
03C08AP2	11/10/87	GROSS ALPHA	0.00000	pCi/l
03C08AP2	11/10/87	GROSS BETA	43.00000	mlrem/y
03C08AP2	11/10/87	TRICHLOROETHYLENE	0.02000	mg/L
03C08AP2	11/10/87	CHLOROFORM	0.00300	mg/L
03C08AP2	11/10/87	BENZENE	0.01100	mg/L
03C08AP2	02/07/88	pH	8.48000	S.U.
03C08AP2	02/07/88	SPECIFIC CONDUCTANCE	1116.00000	umho/cm
03C08AP2	02/07/88	TOTAL ORGANIC CARBON	9.00000	mg/L
03C08AP2	02/07/88	TOTAL ORGANIC HALOGENS	0.02400	mg/L
03C08AP2	02/07/88	SODIUM	56.00000	mg/L
03C08AP2	02/07/88	SULFATE	130.00000	mg/L
03C08AP2	02/07/88	CHLORIDE	54.00000	mg/L
03C08AP2	02/07/88	RDX	0.15000	mg/L
03C08AP2	02/07/88	BARIUM, TOTAL	0.12000	mg/L
03C08AP2	02/07/88	FLUORIDE, TOTAL	0.18000	mg/L
03C08AP2	02/07/88	NITRATE-N	16.20000	mg/L
03C08AP2	02/07/88	RADIUM, TOTAL	0.00000	pCi/l
03C08AP2	02/07/88	GROSS ALPHA	9.00000	pCi/l
03C08AP2	02/07/88	GROSS BETA	0.00000	mlrem/y
03C08AP2	02/07/88	COLIFORM	0.00000	#/100ml
03C08AP2	02/07/88	1,1,1-TRICHLOROETHANE	4.00500	mg/L
03C08AP2	02/07/88	TRICHLOROETHYLENE	0.02100	mg/L
03C08AP2	04/24/88	pH	7.75000	S.U.
03C08AP2	04/24/88	SPECIFIC CONDUCTANCE	1099.00000	umho/cm
03C08AP2	04/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C08AP2	04/24/88	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C08AP2	04/24/88	SODIUM	40.00000	mg/L
03C08AP2	04/24/88	SULFATE	140.00000	mg/L
03C08AP2	04/24/88	CHLORIDE	37.00000	mg/L
03C08AP2	04/24/88	RDX	0.26300	mg/L
03C08AP2	04/24/88	BARIUM, TOTAL	0.08000	mg/L
03C08AP2	04/24/88	FLUORIDE, TOTAL	0.33000	mg/L
03C08AP2	04/24/88	NITRATE-N	10.80000	mg/L
03C08AP2	04/24/88	RADIUM, TOTAL	0.00000	mg/L
03C08AP2	04/24/88	GROSS ALPHA	1.10000	mg/L
03C08AP2	04/24/88	GROSS BETA	750.00000	mg/L
03C08AP2	04/24/88	COLIFORM	0.00000	#/100ml
03C08AP2	04/24/88	TRICHLOROETHYLENE	0.03900	mg/L
03C08AP2	04/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.07000	mg/L
03C08AP2	07/26/88	pH	7.40000	S.U.
03C08AP2	07/26/88	SPECIFIC CONDUCTANCE	1132.00000	umho/cm
03C08AP2	07/26/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C08AP2	07/26/88	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C08AP2	07/26/88	RDX	0.20000	mg/L
03C08AP2	07/26/88	TRICHLOROETHYLENE	0.03000	mg/L
03C08AP2	07/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L

03C08AP2	10/26/88	pH	7.70000	S.U.
03C08AP2	10/26/88	SPECIFIC CONDUCTANCE	802.00000	umho/cm
03C08AP2	10/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C08AP2	10/26/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C08AP2	10/26/88	SODIUM	24.00000	mg/L
03C08AP2	10/26/88	SULFATE	90.00000	mg/L
03C08AP2	10/26/88	CHLORIDE	36.00000	mg/L
03C08AP2	10/26/88	RDX	0.09000	mg/L
03C08AP2	10/26/88	BICARBONATE	646.00000	mg/L
03C08AP2	10/26/88	CALCIUM	97.00000	mg/L
03C08AP2	10/26/88	MAGNESIUM	38.00000	mg/L
03C08AP2	10/26/88	POTASSIUM	34.00000	mg/L
03C08AP2	10/26/88	FLUORIDE, TOTAL	1.20000	mg/L
03C08AP2	10/26/88	GROSS BETA	40.00000	pcu/L
03C08AP2	10/26/88	COLIFORM	0.00000	TC/.1L
03C08AP2	10/26/88	TRICHLOROETHYLENE	0.03000	mg/L
03C08AP2	01/17/89	pH	7.10000	S.U.
03C08AP2	01/17/89	SPECIFIC CONDUCTANCE	982.00000	umho/cm
03C08AP2	01/17/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C08AP2	01/17/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C08AP2	01/17/89	MANGANESE	0.02000	mg/L
03C08AP2	01/17/89	SODIUM	58.00000	mg/L
03C08AP2	01/17/89	SULFATE	165.00000	mg/L
03C08AP2	01/17/89	CHLORIDE	39.00000	mg/L
03C08AP2	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03C08AP2	01/17/89	BICARBONATE	561.00000	mg/L
03C08AP2	01/17/89	CALCIUM	120.00000	mg/L
03C08AP2	01/17/89	MAGNESIUM	43.00000	mg/L
03C08AP2	01/17/89	POTASSIUM	31.00000	mg/L
03C08AP2	01/17/89	BARIUM, TOTAL	0.15000	mg/L
03C08AP2	01/17/89	FLUORIDE, TOTAL	0.53000	mg/L
03C08AP2	01/17/89	NITRATE-N	12.00000	mg/L
03C08AP2	01/17/89	GROSS BETA	9.70000	pcu/L
03C08AP2	01/17/89	COLIFORM	0.00000	TC/.1L
03C08AP2	01/17/89	TRICHLOROETHYLENE	0.01000	mg/L
03C08AP2	04/16/89	pH	7.40000	S.U.
03C08AP2	04/16/89	SPECIFIC CONDUCTANCE	972.00000	umho/cm
03C08AP2	04/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C08AP2	04/16/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C08AP2	04/16/89	SODIUM	27.00000	mg/L
03C08AP2	04/16/89	CALCIUM	103.00000	mg/L
03C08AP2	04/16/89	MAGNESIUM	35.00000	mg/L
03C08AP2	04/16/89	POTASSIUM	17.00000	mg/L
03C08AP2	04/16/89	SULFATE	110.00000	mg/L
03C08AP2	04/16/89	CHLORIDE	4.00000	mg/L
03C08AP2	04/16/89	BICARBONATE	256.00000	mg/L
03C08AP2	04/16/89	BARIUM, TOTAL	0.12000	mg/L
03C08AP2	04/16/89	FLUORIDE, TOTAL	0.17000	mg/L
03C08AP2	04/16/89	NITRATE-N	4.00000	mg/L
03C08AP2	04/16/89	GROSS BETA	12.00000	pcu/L
03C08AP2	04/16/89	COLIFORM	0.00000	TC/.1L
03C08AP2	04/16/89	TRICHLOROETHYLENE	0.00900	mg/L
03C08AP2	07/16/89	pH	7.20000	S.U.
03C08AP2	07/16/89	SPECIFIC CONDUCTANCE	1032.00000	umho/cm
03C08AP2	07/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C08AP2	07/16/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C08AP2	07/16/89	SODIUM	9.00000	mg/L
03C08AP2	07/16/89	CALCIUM	89.00000	mg/L
03C08AP2	07/16/89	MAGNESIUM	25.00000	mg/L
03C08AP2	07/16/89	POTASSIUM	18.00000	mg/L

03C08AP2	07/16/89	SULFATE	80.00000	mg/L
03C08AP2	07/16/89	CHLORIDE	38.00000	mg/L
03C08AP2	07/16/89	BICARBONATE	429.00000	mg/L
03C08AP2	07/16/89	RDX	0.30000	mg/L
03C08AP2	07/16/89	BARIUM, TOTAL	0.06000	mg/L
03C08AP2	07/16/89	NITRATE-N	6.00000	mg/L
03C08AP2	07/16/89	GROSS BETA	12.00000	pcu/L
03C08AP2	07/16/89	COLIFORM	0.00000	TC/.1L
03C08AP2	07/16/89	TRICHLOROETHYLENE	0.02300	mg/L
03C08AP2	07/16/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03C08AP2	10/21/89	pH	7.10000	S.U.
03C08AP2	10/21/89	SPECIFIC CONDUCTANCE	1012.00000	umho/cm
03C08AP2	10/21/89	CALCIUM	114.00000	mg/L
03C08AP2	10/21/89	MAGNESIUM	34.00000	mg/L
03C08AP2	10/21/89	POTASSIUM	13.80000	mg/L
03C08AP2	10/21/89	BICARBONATE	400.00000	mg/L
03C08AP2	10/21/89	AMMONIA-NITROGEN	0.72000	mg/L
03C08AP2	10/21/89	RDX	0.11000	mg/L
03C08AP2	10/21/89	TRICHLOROETHYLENE	0.00800	mg/L
03C08AP2	01/31/90	pH	7.60000	S.U.
03C08AP2	01/31/90	SPECIFIC CONDUCTANCE	963.00000	umho/cm
03C08AP2	01/31/90	TOTAL ORGANIC CARBON	2.70000	mg/L
03C08AP2	01/31/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C08AP2	01/31/90	SODIUM	38.00000	mg/L
03C08AP2	01/31/90	CALCIUM	107.00000	mg/L
03C08AP2	01/31/90	MAGNESIUM	36.00000	mg/L
03C08AP2	01/31/90	POTASSIUM	25.00000	mg/L
03C08AP2	01/31/90	SULFATE	150.00000	mg/L
03C08AP2	01/31/90	CHLORIDE	37.00000	mg/L
03C08AP2	01/31/90	BICARBONATE	500.00000	mg/L
03C08AP2	01/31/90	AMMONIA-NITROGEN	0.10000	mg/L
03C08AP2	01/31/90	RDX	0.09000	mg/L
03C08AP2	01/31/90	TRICHLOROETHYLENE	0.02700	mg/L
03C08AP2	04/21/90	pH	7.40000	S.U.
03C08AP2	04/21/90	SPECIFIC CONDUCTANCE	867.00000	umho/cm
03C08AP2	04/21/90	CALCIUM	102.00000	mg/L
03C08AP2	04/21/90	MAGNESIUM	36.00000	mg/L
03C08AP2	04/21/90	POTASSIUM	38.00000	mg/L
03C08AP2	04/21/90	BICARBONATE	508.00000	mg/L
03C08AP2	04/21/90	RDX	0.16000	mg/L
03C08AP2	04/21/90	TRICHLOROETHYLENE	0.01600	mg/L
03C08AP2	07/13/90	pH	7.10000	S.U.
03C08AP2	07/13/90	SPECIFIC CONDUCTANCE	971.00000	umho/cm
03C08AP2	07/13/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C08AP2	07/13/90	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C08AP2	07/13/90	SODIUM	21.00000	mg/L
03C08AP2	07/13/90	CALCIUM	111.00000	mg/L
03C08AP2	07/13/90	MAGNESIUM	36.00000	mg/L
03C08AP2	07/13/90	POTASSIUM	18.00000	mg/L
03C08AP2	07/13/90	BICARBONATE	418.00000	mg/L
03C08AP2	07/13/90	AMMONIA-NITROGEN	0.36000	mg/L
03C08AP2	07/13/90	RDX	0.20000	mg/L
03C08AP2	07/13/90	TRICHLOROETHYLENE	0.04100	mg/L
03C08AP2	10/20/90	pH	7.10000	S.U.
03C08AP2	10/20/90	SPECIFIC CONDUCTANCE	980.00000	umho/cm
03C08AP2	10/20/90	SODIUM	27.00000	mg/L
03C08AP2	10/20/90	CALCIUM	125.00000	mg/L
03C08AP2	10/20/90	MAGNESIUM	40.00000	mg/L
03C08AP2	10/20/90	POTASSIUM	15.00000	mg/L
03C08AP2	10/20/90	RDX	0.10000	mg/L

03C08AP2	10/20/90	TRICHLOROETHYLENE	0.03600	mg/L
03C08AP2	01/12/91	pH	7.47000	S.U.
03C08AP2	01/12/91	SPECIFIC CONDUCTANCE	863.00000	umho/cm
03C08AP2	01/12/91	TOTAL ORGANIC CARBON	1.97000	mg/L
03C08AP2	01/12/91	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C08AP2	01/12/91	MANGANESE	0.01000	mg/L
03C08AP2	01/12/91	SODIUM	27.00000	mg/L
03C08AP2	01/12/91	CALCIUM	75.00000	mg/L
03C08AP2	01/12/91	MAGNESIUM	43.00000	mg/L
03C08AP2	01/12/91	POTASSIUM	68.00000	mg/L
03C08AP2	01/12/91	SULFATE	145.00000	mg/L
03C08AP2	01/12/91	BICARBONATE	457.00000	mg/L
03C08AP2	01/12/91	RDX	0.19000	mg/L
03C08AP2	01/12/91	TRICHLOROETHYLENE	0.03100	mg/L
03C08AP2	01/12/91	CHLORIDE	40.00000	mg/L
03C08AP2	04/06/91	pH	7.21000	S.U.
03C08AP2	04/06/91	SPECIFIC CONDUCTANCE	892.00000	umho/cm
03C08AP2	04/06/91	CALCIUM	80.80000	mg/L
03C08AP2	04/06/91	MAGNESIUM	30.70000	mg/L
03C08AP2	04/06/91	POTASSIUM	21.00000	mg/L
03C08AP2	04/06/91	BICARBONATE	424.00000	mg/L
03C08AP2	04/06/91	AMMONIA-NITROGEN	0.11000	mg/L
03C08AP2	04/06/91	RDX	0.08000	mg/L
03C08AP2	07/17/91	pH	7.08000	S.U.
03C08AP2	07/17/91	SPECIFIC CONDUCTANCE	864.00000	umho/cm
03C08AP2	07/17/91	TOTAL ORGANIC CARBON	1.67000	mg/L
03C08AP2	07/17/91	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C08AP2	07/17/91	MANGANESE	0.00600	mg/L
03C08AP2	07/17/91	SODIUM	22.00000	mg/L
03C08AP2	07/17/91	CALCIUM	94.40000	mg/L
03C08AP2	07/17/91	MAGNESIUM	28.60000	mg/L
03C08AP2	07/17/91	POTASSIUM	13.90000	mg/L
03C08AP2	07/17/91	BICARBONATE	412.00000	mg/L
03C08AP2	07/17/91	RDX	0.06000	mg/L
03C08AP2	07/17/91	TRICHLOROETHENE	0.04000	mg/L
03C08AP2	10/01/91	pH	7.00000	S.U.
03C08AP2	10/01/91	SPECIFIC CONDUCTANCE	837.00000	umho/cm
03C08AP2	10/01/91	SODIUM	13.50000	mg/L
03C08AP2	10/01/91	RDX	0.06000	mg/L
03C08AP2	10/01/91	TRICHLOROETHYLENE	0.05200	mg/L
03C08AP2	10/01/91	BICARBONATE	415.00000	mg/L
03C08AP2	10/01/91	CALCIUM	96.20000	mg/L
03C08AP2	10/01/91	MAGNESIUM	31.50000	mg/L
03C08AP2	10/01/91	POTASSIUM	18.90000	mg/L
03C08AP2	01/04/92	pH	7.30000	S.U.
03C08AP2	01/04/92	SPECIFIC CONDUCTANCE	744.00000	umho/cm
03C08AP2	01/04/92	TOTAL ORGANIC CARBON	1.90000	mg/L
03C08AP2	01/04/92	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C08AP2	01/04/92	SODIUM	248.00000	mg/L
03C08AP2	01/04/92	CALCIUM	91.55000	mg/L
03C08AP2	01/04/92	MAGNESIUM	31.40000	mg/L
03C08AP2	01/04/92	POTASSIUM	60.60000	mg/L
03C08AP2	01/04/92	SULFATE	120.00000	mg/L
03C08AP2	01/04/92	CHLORIDE	35.00000	mg/L
03C08AP2	01/04/92	BICARBONATE	365.00000	mg/L
03C08AP2	01/04/92	TRICHLOROETHYLENE	0.05000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C09P2	10/30/87	pH	7.18000	S.U.
03C09P2	10/30/87	SPECIFIC CONDUCTANCE	596.00000	umho/cm
03C09P2	10/30/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C09P2	10/30/87	TOTAL ORGANIC HALOGENS	0.09000	mg/L
03C09P2	10/30/87	SODIUM	10.00000	mg/L
03C09P2	10/30/87	SULFATE	25.00000	mg/L
03C09P2	10/30/87	CHLORIDE	14.00000	mg/L
03C09P2	10/30/87	NITRATE-N	5.10000	mg/L
03C09P2	10/30/87	RADIUM, TOTAL	0.50000	pCi/l
03C09P2	10/30/87	GROSS ALPHA	0.00000	pCi/l
03C09P2	10/30/87	GROSS BETA	2.30000	mlrem/y
03C09P2	10/30/87	TRICHLOROETHYLENE	0.10000	mg/L
03C09P2	10/30/87	1,2-DICHLOROETHANE	0.00300	mg/L
03C09P2	10/30/87	TRICHLOROETHENE	0.12000	mg/L
03C09P2	02/03/88	pH	7.23000	S.U.
03C09P2	02/03/88	SPECIFIC CONDUCTANCE	573.00000	umho/cm
03C09P2	02/03/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C09P2	02/03/88	TOTAL ORGANIC HALOGENS	0.11200	mg/L
03C09P2	02/03/88	SODIUM	8.00000	mg/L
03C09P2	02/03/88	SULFATE	54.00000	mg/L
03C09P2	02/03/88	CHLORIDE	8.00000	mg/L
03C09P2	02/03/88	RDX	0.05000	mg/L
03C09P2	02/03/88	ARSENIC, TOTAL	0.05000	mg/L
03C09P2	02/03/88	FLUORIDE, TOTAL	0.24000	mg/L
03C09P2	02/03/88	NITRATE-N	7.40000	mg/L
03C09P2	02/03/88	RADIUM, TOTAL	0.10000	pCi/l
03C09P2	02/03/88	GROSS ALPHA	0.00000	pCi/l
03C09P2	02/03/88	GROSS BETA	0.00000	mlrem/y
03C09P2	02/03/88	COLIFORM	0.00000	#/100ml
03C09P2	02/03/88	TRICHLOROETHYLENE	0.11600	mg/L
03C09P2	04/24/88	pH	7.01000	S.U.
03C09P2	04/24/88	SPECIFIC CONDUCTANCE	557.00000	umho/cm
03C09P2	04/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C09P2	04/24/88	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03C09P2	04/24/88	IRON, TOTAL	0.01000	mg/L
03C09P2	04/24/88	SODIUM	8.80000	mg/L
03C09P2	04/24/88	SULFATE	48.00000	mg/L
03C09P2	04/24/88	CHLORIDE	6.00000	mg/L
03C09P2	04/24/88	RDX	0.03000	mg/L
03C09P2	04/24/88	MERCURY, TOTAL	0.12400	mg/L
03C09P2	04/24/88	FLUORIDE, TOTAL	0.33000	mg/L
03C09P2	04/24/88	NITRATE-N	4.90000	mg/L
03C09P2	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C09P2	04/24/88	GROSS ALPHA	0.00000	mg/L
03C09P2	04/24/88	GROSS BETA	3.20000	mg/L
03C09P2	04/24/88	COLIFORM	0.00000	#/100ml
03C09P2	04/24/88	TRICHLOROETHYLENE	0.10500	mg/L
03C09P2	07/29/88	pH	7.20000	S.U.
03C09P2	07/29/88	SPECIFIC CONDUCTANCE	517.00000	umho/cm
03C09P2	07/29/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C09P2	07/29/88	TOTAL ORGANIC HALOGENS	0.10000	mg/L
03C09P2	07/29/88	RDX	0.03000	mg/L
03C09P2	07/29/88	TRICHLOROETHYLENE	0.10000	mg/L
03C09P2	07/29/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03C09P2	10/26/88	pH	10.40000	S.U.
03C09P2	10/26/88	SPECIFIC CONDUCTANCE	455.00000	umho/cm
03C09P2	10/26/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C09P2	10/26/88	TOTAL ORGANIC HALOGENS	0.07000	mg/L

03C09P2	10/26/88	SODIUM	3.00000	mg/L
03C09P2	10/26/88	SULFATE	49.00000	mg/L
03C09P2	10/26/88	CHLORIDE	7.00000	mg/L
03C09P2	10/26/88	AMMONIA-NITROGEN	0.50000	mg/L
03C09P2	10/26/88	BICARBONATE	408.00000	mg/L
03C09P2	10/26/88	CALCIUM	78.00000	mg/L
03C09P2	10/26/88	MAGNESIUM	15.00000	mg/L
03C09P2	10/26/88	POTASSIUM	3.00000	mg/L
03C09P2	10/26/88	FLUORIDE, TOTAL	0.14000	mg/L
03C09P2	10/26/88	NITRATE-N	5.50000	mg/L
03C09P2	10/26/88	GROSS BETA	2.00000	pcu/L
03C09P2	10/26/88	TRICHLOROETHYLENE	0.11000	mg/L
03C09P2	10/26/88	DI-N-BUTYL PHTHALATE	0.05000	mg/L
03C09P2	10/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03C09P2	01/13/89	pH	7.50000	S.U.
03C09P2	01/13/89	SPECIFIC CONDUCTANCE	492.00000	umho/cm
03C09P2	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C09P2	01/13/89	TOTAL ORGANIC HALOGENS	0.09000	mg/L
03C09P2	01/13/89	SODIUM	8.00000	mg/L
03C09P2	01/13/89	SULFATE	42.00000	mg/L
03C09P2	01/13/89	CHLORIDE	9.00000	mg/L
03C09P2	01/13/89	AMMONIA-NITROGEN	0.10000	mg/L
03C09P2	01/13/89	BICARBONATE	494.00000	mg/L
03C09P2	01/13/89	CALCIUM	92.20000	mg/L
03C09P2	01/13/89	MAGNESIUM	15.40000	mg/L
03C09P2	01/13/89	POTASSIUM	1.70000	mg/L
03C09P2	01/13/89	FLUORIDE, TOTAL	0.53000	mg/L
03C09P2	01/13/89	NITRATE-N	16.50000	mg/L
03C09P2	01/13/89	COLIFORM	0.00000	TC/.1L
03C09P2	01/13/89	TRICHLOROETHYLENE	0.08000	mg/L
03C09P2	04/16/89	pH	7.10000	S.U.
03C09P2	04/16/89	SPECIFIC CONDUCTANCE	506.00000	umho/cm
03C09P2	04/16/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C09P2	04/16/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C09P2	04/16/89	SODIUM	1.40000	mg/L
03C09P2	04/16/89	CALCIUM	33.00000	mg/L
03C09P2	04/16/89	FLUORIDE, TOTAL	0.17000	mg/L
03C09P2	04/16/89	NITRATE-N	3.00000	mg/L
03C09P2	04/16/89	COLIFORM	0.00000	TC/.1L
03C09P2	04/16/89	TRICHLOROETHYLENE	0.08000	mg/L
03C09P2	04/16/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.01400	mg/L
03C09P2	04/16/89	MAGNESIUM	5.90000	mg/L
03C09P2	04/16/89	POTASSIUM	3.00000	mg/L
03C09P2	04/16/89	SULFATE	49.00000	mg/L
03C09P2	04/16/89	CHLORIDE	12.00000	mg/L
03C09P2	04/16/89	BICARBONATE	255.00000	mg/L
03C09P2	04/16/89	RDX	0.03000	mg/L
03C09P2	07/13/89	pH	7.00000	S.U.
03C09P2	07/13/89	SPECIFIC CONDUCTANCE	559.00000	umho/cm
03C09P2	07/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C09P2	07/13/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C09P2	07/13/89	SODIUM	2.90000	mg/L
03C09P2	07/13/89	CALCIUM	68.00000	mg/L
03C09P2	07/13/89	MAGNESIUM	12.00000	mg/L
03C09P2	07/13/89	POTASSIUM	1.40000	mg/L
03C09P2	07/13/89	SULFATE	42.00000	mg/L
03C09P2	07/13/89	CHLORIDE	11.00000	mg/L
03C09P2	07/13/89	BICARBONATE	264.00000	mg/L
03C09P2	07/13/89	RDX	0.04000	mg/L
03C09P2	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L

03C09P2	07/13/89	NITRATE-N	2.60000	mg/L
03C09P2	07/13/89	COLIFORM	0.00000	TC/.1L
03C09P2	07/13/89	TRICHLOROETHYLENE	0.07700	mg/L
03C09P2	10/21/89	pH	7.30000	S.U.
03C09P2	10/21/89	SPECIFIC CONDUCTANCE	507.00000	umho/cm
03C09P2	10/21/89	CALCIUM	80.00000	mg/L
03C09P2	10/21/89	MAGNESIUM	15.00000	mg/L
03C09P2	10/21/89	POTASSIUM	1.70000	mg/L
03C09P2	10/21/89	BICARBONATE	225.00000	mg/L
03C09P2	10/21/89	RDX	0.05000	mg/L
03C09P2	10/21/89	TRICHLOROETHYLENE	0.07700	mg/L
03C09P2	01/27/90	pH	7.40000	S.U.
03C09P2	01/27/90	SPECIFIC CONDUCTANCE	497.00000	umho/cm
03C09P2	01/27/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C09P2	01/27/90	TOTAL ORGANIC HALOGENS	0.09000	mg/L
03C09P2	01/27/90	MANGANESE	0.01200	mg/L
03C09P2	01/27/90	SODIUM	3.00000	mg/L
03C09P2	01/27/90	CALCIUM	56.00000	mg/L
03C09P2	01/27/90	MAGNESIUM	11.00000	mg/L
03C09P2	01/27/90	POTASSIUM	2.00000	mg/L
03C09P2	01/27/90	SULFATE	48.00000	mg/L
03C09P2	01/27/90	CHLORIDE	14.00000	mg/L
03C09P2	01/27/90	BICARBONATE	317.00000	mg/L
03C09P2	01/27/90	RDX	0.05000	mg/L
03C09P2	01/27/90	TRICHLOROETHYLENE	0.07600	mg/L
03C09P2	01/27/90	DI-N-BUTYL PHTHALATE	0.03000	mg/L
03C09P2	04/19/90	pH	7.40000	S.U.
03C09P2	04/19/90	SPECIFIC CONDUCTANCE	479.00000	umho/cm
03C09P2	04/19/90	IRON, TOTAL	0.21000	mg/L
03C09P2	04/19/90	CALCIUM	93.00000	mg/L
03C09P2	04/19/90	MAGNESIUM	17.00000	mg/L
03C09P2	04/19/90	POTASSIUM	2.00000	mg/L
03C09P2	04/19/90	BICARBONATE	344.00000	mg/L
03C09P2	04/19/90	RDX	0.05000	mg/L
03C09P2	04/19/90	TRICHLOROETHYLENE	0.05100	mg/L
03C09P2	07/15/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C09P2	07/15/90	TOTAL ORGANIC HALOGENS	0.12000	mg/L
03C09P2	07/15/90	SODIUM	3.00000	mg/L
03C09P2	07/15/90	CALCIUM	73.00000	mg/L
03C09P2	07/15/90	MAGNESIUM	15.00000	mg/L
03C09P2	07/15/90	POTASSIUM	1.00000	mg/L
03C09P2	07/15/90	BICARBONATE	278.00000	mg/L
03C09P2	07/15/90	RDX	0.05000	mg/L
03C09P2	07/15/90	TRICHLOROETHYLENE	0.08700	mg/L
03C09P2	10/18/90	pH	7.70000	S.U.
03C09P2	10/18/90	SPECIFIC CONDUCTANCE	460.00000	umho/cm
03C09P2	10/18/90	SODIUM	7.00000	mg/L
03C09P2	10/18/90	CALCIUM	88.00000	mg/L
03C09P2	10/18/90	MAGNESIUM	16.00000	mg/L
03C09P2	10/18/90	POTASSIUM	1.00000	mg/L
03C09P2	10/18/90	RDX	0.07000	mg/L
03C09P2	10/18/90	TRICHLOROETHYLENE	0.08500	mg/L
03C09P2	01/16/91	pH	7.24000	S.U.
03C09P2	01/16/91	SPECIFIC CONDUCTANCE	458.00000	umho/cm
03C09P2	01/16/91	TOTAL ORGANIC CARBON	1.23000	mg/L
03C09P2	01/16/91	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03C09P2	01/16/91	MANGANESE	0.01000	mg/L
03C09P2	01/16/91	SODIUM	3.00000	mg/L
03C09P2	01/16/91	CALCIUM	55.00000	mg/L
03C09P2	01/16/91	MAGNESIUM	17.00000	mg/L

03C09P2	01/16/91	POTASSIUM	2.00000	mg/L
03C09P2	01/16/91	SULFATE	50.00000	mg/L
03C09P2	01/16/91	CHLORIDE	13.00000	mg/L
03C09P2	01/16/91	BICARBONATE	165.00000	mg/L
03C09P2	01/16/91	RDX	0.07000	mg/L
03C09P2	01/16/91	1,1,1-TRICHLOROETHANE	0.00100	mg/L
03C09P2	01/16/91	TRICHLOROETHYLENE	0.05200	mg/L
03C09P2	04/06/91	pH	7.04000	S.U.
03C09P2	04/06/91	SPECIFIC CONDUCTANCE	544.00000	umho/cm
03C09P2	04/06/91	CALCIUM	68.90000	mg/L
03C09P2	04/06/91	MAGNESIUM	11.60000	mg/L
03C09P2	04/06/91	POTASSIUM	1.50000	mg/L
03C09P2	04/06/91	BICARBONATE	257.00000	mg/L
03C09P2	04/06/91	AMMONIA-NITROGEN	0.07000	mg/L
03C09P2	04/06/91	RDX	0.02000	mg/L
03C09P2	04/06/91	TRICHLOROETHYLENE	0.13600	mg/L
03C09P2	07/12/91	pH	7.08000	S.U.
03C09P2	07/12/91	SPECIFIC CONDUCTANCE	494.00000	umho/cm
03C09P2	07/12/91	TOTAL ORGANIC CARBON	1.46000	mg/L
03C09P2	07/12/91	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03C09P2	07/12/91	IRON, TOTAL	0.13000	mg/L
03C09P2	07/12/91	MANGANESE	0.02000	mg/L
03C09P2	07/12/91	SODIUM	5.00000	mg/L
03C09P2	07/12/91	CALCIUM	67.60000	mg/L
03C09P2	07/12/91	MAGNESIUM	12.20000	mg/L
03C09P2	07/12/91	POTASSIUM	2.00000	mg/L
03C09P2	07/12/91	BICARBONATE	299.00000	mg/L
03C09P2	07/12/91	RDX	0.02000	mg/L
03C09P2	07/12/91	TRICHLOROETHENE	0.08100	mg/L
03C09P2	10/07/91	pH	7.00000	S.U.
03C09P2	10/07/91	SPECIFIC CONDUCTANCE	443.00000	umho/cm
03C09P2	10/07/91	SODIUM	3.10000	mg/L
03C09P2	10/07/91	RDX	0.02000	mg/L
03C09P2	10/07/91	TRICHLOROETHYLENE	0.10900	mg/L
03C09P2	10/07/91	BICARBONATE	305.00000	mg/L
03C09P2	10/07/91	CALCIUM	77.50000	mg/L
03C09P2	10/07/91	MAGNESIUM	13.50000	mg/L
03C09P2	10/07/91	POTASSIUM	2.70000	mg/L
03C09P2	01/09/92	pH	8.10000	S.U.
03C09P2	01/09/92	SPECIFIC CONDUCTANCE	450.00000	umho/cm
03C09P2	01/09/92	TOTAL ORGANIC CARBON	1.82000	mg/L
03C09P2	01/09/92	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C09P2	01/09/92	SODIUM	4.00000	mg/L
03C09P2	01/09/92	CALCIUM	80.00000	mg/L
03C09P2	01/09/92	MAGNESIUM	14.10000	mg/L
03C09P2	01/09/92	POTASSIUM	2.10000	mg/L
03C09P2	01/09/92	SULFATE	47.00000	mg/L
03C09P2	01/09/92	CHLORIDE	8.00000	mg/L
03C09P2	01/09/92	BICARBONATE	269.00000	mg/L
03C09P2	01/09/92	TRICHLOROETHYLENE	0.06000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C10	10/27/87	pH	6.90000	S.U.
03C10	10/27/87	SPECIFIC CONDUCTANCE	668.00000	umho/cm
03C10	10/27/87	TOTAL ORGANIC CARBON	10.00000	mg/L
03C10	10/27/87	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C10	10/27/87	SODIUM	13.00000	mg/L
03C10	10/27/87	SULFATE	60.00000	mg/L
03C10	10/27/87	CHLORIDE	24.00000	mg/L
03C10	10/27/87	RDX	0.03000	mg/L
03C10	10/27/87	ARSENIC, TOTAL	0.05000	mg/L
03C10	10/27/87	CADMIUM, TOTAL	0.05000	mg/L
03C10	10/27/87	FLUORIDE, TOTAL	0.10000	mg/L
03C10	10/27/87	NITRATE-N	3.20000	mg/L
03C10	10/27/87	RADIUM, TOTAL	0.40000	pCi/l
03C10	10/27/87	GROSS ALPHA	0.00000	pCi/l
03C10	10/27/87	GROSS BETA	1.10000	mlrem/y
03C10	10/27/87	1,2-DICHLOROETHANE	0.01000	mg/L
03C10	10/27/87	TRICHLOROETHENE	0.00300	mg/L
03C10	10/27/87	BENZENE	0.01200	mg/L
03C10	02/02/88	pH	7.03000	S.U.
03C10	02/02/88	SPECIFIC CONDUCTANCE	624.00000	umho/cm
03C10	02/02/88	TOTAL ORGANIC CARBON	0.02000	mg/L
03C10	02/02/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C10	02/02/88	IRON, TOTAL	0.07000	mg/L
03C10	02/02/88	MANGANESE	0.01100	mg/L
03C10	02/02/88	SODIUM	11.00000	mg/L
03C10	02/02/88	SULFATE	63.00000	mg/L
03C10	02/02/88	CHLORIDE	22.00000	mg/L
03C10	02/02/88	RDX	0.06000	mg/L
03C10	02/02/88	FLUORIDE, TOTAL	0.14000	mg/L
03C10	02/02/88	NITRATE-N	3.40000	mg/L
03C10	02/02/88	RADIUM, TOTAL	0.10000	pCi/l
03C10	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C10	02/02/88	GROSS BETA	0.50000	mlrem/y
03C10	02/02/88	COLIFORM	0.00000	#/100ml
03C10	02/02/88	TRICHLOROETHYLENE	0.00600	mg/L
03C10	04/24/88	pH	6.77000	S.U.
03C10	04/24/88	SPECIFIC CONDUCTANCE	761.00000	umho/cm
03C10	04/24/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C10	04/24/88	IRON, TOTAL	0.01000	mg/L
03C10	04/24/88	MANGANESE	0.03000	mg/L
03C10	04/24/88	SODIUM	15.00000	mg/L
03C10	04/24/88	SULFATE	70.00000	mg/L
03C10	04/24/88	CHLORIDE	11.00000	mg/L
03C10	04/24/88	RDX	0.04500	mg/L
03C10	04/24/88	FLUORIDE, TOTAL	0.33000	mg/L
03C10	04/24/88	NITRATE-N	1.92000	mg/L
03C10	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C10	04/24/88	GROSS ALPHA	0.00000	mg/L
03C10	04/24/88	GROSS BETA	0.00000	mg/L
03C10	04/24/88	COLIFORM	0.00000	#/100ml
03C10	04/24/88	1,1,1-TRICHLOROETHANE	1.00000	mg/L
03C10	04/24/88	TRICHLOROETHYLENE	0.00900	mg/L
03C10	07/26/88	pH	6.70000	S.U.
03C10	07/26/88	SPECIFIC CONDUCTANCE	716.00000	umho/cm
03C10	07/26/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C10	07/26/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C10	07/26/88	RDX	0.06000	mg/L
03C10	07/26/88	TRICHLOROETHYLENE	0.02000	mg/L

03C10	10/20/88	GROSS BETA	2.00000	pcu/L
03C10	10/20/88	COLIFORM	0.00000	TC/.1L
03C10	10/20/88	CHLORIDE	2.00000	mg/L
03C10	10/20/88	SODIUM	1.10000	mg/L
03C10	10/20/88	SULFATE	8.00000	mg/L
03C10	10/20/88	pH	7.70000	S.U.
03C10	10/20/88	SPECIFIC CONDUCTANCE	164.00000	umho/cm
03C10	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C10	10/24/88	pH	7.50000	S.U.
03C10	10/24/88	SPECIFIC CONDUCTANCE	530.00000	umho/cm
03C10	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C10	10/24/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C10	10/24/88	MANGANESE	0.01700	mg/L
03C10	10/24/88	SODIUM	5.00000	mg/L
03C10	10/24/88	SULFATE	68.00000	mg/L
03C10	10/24/88	CHLORIDE	9.00000	mg/L
03C10	10/24/88	RDX	0.02000	mg/L
03C10	10/24/88	BICARBONATE	567.00000	mg/L
03C10	10/24/88	CALCIUM	111.00000	mg/L
03C10	10/24/88	MAGNESIUM	15.00000	mg/L
03C10	10/24/88	POTASSIUM	2.00000	mg/L
03C10	10/24/88	FLUORIDE, TOTAL	0.18000	mg/L
03C10	10/24/88	NITRATE-N	3.50000	mg/L
03C10	10/24/88	GROSS BETA	1.50000	pcu/L
03C10	10/24/88	COLIFORM	0.00000	TC/.1L
03C10	10/24/88	TRICHLOROETHYLENE	0.02000	mg/L
03C10	01/12/89	pH	7.10000	S.U.
03C10	01/12/89	SPECIFIC CONDUCTANCE	620.00000	umho/cm
03C10	01/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C10	01/12/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C10	01/12/89	MANGANESE	0.02700	mg/L
03C10	01/12/89	SODIUM	17.00000	mg/L
03C10	01/12/89	SULFATE	75.00000	mg/L
03C10	01/12/89	CHLORIDE	12.00000	mg/L
03C10	01/12/89	BICARBONATE	650.00000	mg/L
03C10	01/12/89	CALCIUM	104.00000	mg/L
03C10	01/12/89	MAGNESIUM	14.00000	mg/L
03C10	01/12/89	POTASSIUM	1.20000	mg/L
03C10	01/12/89	BARIUM, TOTAL	0.07000	mg/L
03C10	01/12/89	FLUORIDE, TOTAL	0.40000	mg/L
03C10	01/12/89	NITRATE-N	0.20000	mg/L
03C10	01/12/89	COLIFORM	0.00000	TC/.1L
03C10	01/12/89	TRICHLOROETHYLENE	0.02000	mg/L
03C10	04/16/89	pH	6.90000	S.U.
03C10	04/16/89	SPECIFIC CONDUCTANCE	640.00000	umho/cm
03C10	04/16/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C10	04/16/89	SODIUM	8.60000	mg/L
03C10	04/16/89	CALCIUM	102.00000	mg/L
03C10	04/16/89	MAGNESIUM	14.00000	mg/L
03C10	04/16/89	POTASSIUM	2.00000	mg/L
03C10	04/16/89	SULFATE	56.00000	mg/L
03C10	04/16/89	CHLORIDE	16.00000	mg/L
03C10	04/16/89	BICARBONATE	323.00000	mg/L
03C10	04/16/89	RDX	0.03000	mg/L
03C10	04/16/89	FLUORIDE, TOTAL	0.11000	mg/L
03C10	04/16/89	NITRATE-N	4.50000	mg/L
03C10	04/16/89	COLIFORM	0.00000	TC/.1L
03C10	04/16/89	1,1,1-TRICHLOROETHANE	0.00800	mg/L
03C10	04/16/89	TRICHLOROETHYLENE	0.02000	mg/L
03C10	07/13/89	pH	7.10000	S.U.

03C10	07/13/89	SPECIFIC CONDUCTANCE	682.00000	umho/cm
03C10	07/13/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C10	07/13/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C10	07/13/89	MANGANESE	0.01000	mg/L
03C10	07/13/89	SODIUM	6.40000	mg/L
03C10	07/13/89	CALCIUM	126.00000	mg/L
03C10	07/13/89	MAGNESIUM	14.00000	mg/L
03C10	07/13/89	POTASSIUM	2.00000	mg/L
03C10	07/13/89	SULFATE	32.00000	mg/L
03C10	07/13/89	CHLORIDE	16.00000	mg/L
03C10	07/13/89	BICARBONATE	312.00000	mg/L
03C10	07/13/89	BARIUM, TOTAL	0.05000	mg/L
03C10	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L
03C10	07/13/89	NITRATE-N	2.60000	mg/L
03C10	07/13/89	COLIFORM	0.00000	TC/.1L
03C10	07/13/89	1,1,1-TRICHLOROETHANE	0.00800	mg/L
03C10	07/13/89	TRICHLOROETHYLENE	0.01800	mg/L
03C10	10/21/89	pH	7.10000	S.U.
03C10	10/21/89	SPECIFIC CONDUCTANCE	607.00000	umho/cm
03C10	10/21/89	CALCIUM	106.00000	mg/L
03C10	10/21/89	MAGNESIUM	14.00000	mg/L
03C10	10/21/89	POTASSIUM	1.20000	mg/L
03C10	10/21/89	BICARBONATE	420.00000	mg/L
03C10	10/21/89	AMMONIA-NITROGEN	0.41000	mg/L
03C10	10/21/89	RDX	0.02000	mg/L
03C10	10/21/89	TRICHLOROETHYLENE	0.02100	mg/L
03C10	01/28/90	pH	7.00000	S.U.
03C10	01/28/90	SPECIFIC CONDUCTANCE	550.00000	umho/cm
03C10	01/28/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03C10	01/28/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C10	01/28/90	SODIUM	8.00000	mg/L
03C10	01/28/90	CALCIUM	87.00000	mg/L
03C10	01/28/90	MAGNESIUM	13.00000	mg/L
03C10	01/28/90	POTASSIUM	1.00000	mg/L
03C10	01/28/90	SULFATE	46.00000	mg/L
03C10	01/28/90	CHLORIDE	15.00000	mg/L
03C10	01/28/90	BICARBONATE	353.00000	mg/L
03C10	01/28/90	AMMONIA-NITROGEN	0.10000	mg/L
03C10	01/28/90	RDX	0.05000	mg/L
03C10	01/28/90	TRICHLOROETHYLENE	0.01700	mg/L
03C10	04/19/90	pH	6.90000	S.U.
03C10	04/19/90	SPECIFIC CONDUCTANCE	561.00000	umho/cm
03C10	04/19/90	CALCIUM	118.00000	mg/L
03C10	04/19/90	MAGNESIUM	15.00000	mg/L
03C10	04/19/90	POTASSIUM	1.00000	mg/L
03C10	04/19/90	BICARBONATE	344.00000	mg/L
03C10	04/19/90	RDX	0.04000	mg/L
03C10	04/19/90	TRICHLOROETHYLENE	0.01800	mg/L
03C10	07/11/90	pH	6.80000	S.U.
03C10	07/11/90	SPECIFIC CONDUCTANCE	664.00000	umho/cm
03C10	07/11/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C10	07/11/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C10	07/11/90	SODIUM	7.00000	mg/L
03C10	07/11/90	CALCIUM	97.00000	mg/L
03C10	07/11/90	MAGNESIUM	14.00000	mg/L
03C10	07/11/90	POTASSIUM	1.00000	mg/L
03C10	07/11/90	BICARBONATE	347.00000	mg/L
03C10	07/11/90	RDX	0.04000	mg/L
03C10	07/11/90	TRICHLOROETHYLENE	0.01700	mg/L
03C10	10/18/90	pH	7.10000	S.U.

03C10	10/18/90	SPECIFIC CONDUCTANCE	556.00000	umho/cm
03C10	10/18/90	SODIUM	13.00000	mg/L
03C10	10/18/90	CALCIUM	115.00000	mg/L
03C10	10/18/90	MAGNESIUM	15.00000	mg/L
03C10	10/18/90	AMMONIA-NITROGEN	0.04000	mg/L
03C10	10/18/90	RDX	0.03000	mg/L
03C10	10/18/90	TRICHLOROETHYLENE	0.02200	mg/L
03C10	01/13/91	pH	6.94000	S.U.
03C10	01/13/91	SPECIFIC CONDUCTANCE	576.00000	umho/cm
03C10	01/13/91	TOTAL ORGANIC CARBON	2.01000	mg/L
03C10	01/13/91	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C10	01/13/91	IRON, TOTAL	0.10000	mg/L
03C10	01/13/91	MANGANESE	0.02000	mg/L
03C10	01/13/91	SODIUM	9.00000	mg/L
03C10	01/13/91	CALCIUM	84.00000	mg/L
03C10	01/13/91	MAGNESIUM	18.00000	mg/L
03C10	01/13/91	POTASSIUM	1.00000	mg/L
03C10	01/13/91	SULFATE	55.00000	mg/L
03C10	01/13/91	CHLORIDE	17.00000	mg/L
03C10	01/13/91	BICARBONATE	323.00000	mg/L
03C10	01/13/91	TRICHLOROETHYLENE	0.01600	mg/L
03C10	04/05/91	pH	6.81000	S.U.
03C10	04/05/91	SPECIFIC CONDUCTANCE	590.00000	umho/cm
03C10	04/05/91	CALCIUM	96.00000	mg/L
03C10	04/05/91	MAGNESIUM	13.50000	mg/L
03C10	04/05/91	POTASSIUM	1.30000	mg/L
03C10	04/05/91	BICARBONATE	347.00000	mg/L
03C10	04/05/91	AMMONIA-NITROGEN	0.11000	mg/L
03C10	04/05/91	RDX	0.02000	mg/L
03C10	04/05/91	TRICHLOROETHYLENE	0.02400	mg/L
03C10	07/10/91	pH	6.72000	S.U.
03C10	07/10/91	SPECIFIC CONDUCTANCE	574.00000	umho/cm
03C10	07/10/91	TOTAL ORGANIC CARBON	1.68000	mg/L
03C10	07/10/91	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C10	07/10/91	IRON, TOTAL	0.07000	mg/L
03C10	07/10/91	MANGANESE	0.00900	mg/L
03C10	07/10/91	SODIUM	7.70000	mg/L
03C10	07/10/91	CALCIUM	85.60000	mg/L
03C10	07/10/91	MAGNESIUM	12.00000	mg/L
03C10	07/10/91	POTASSIUM	0.70000	mg/L
03C10	07/10/91	BICARBONATE	371.00000	mg/L
03C10	07/10/91	1,1,1-TRICHLOROETHANE	0.00100	mg/L
03C10	07/10/91	TRICHLOROETHENE	0.02000	mg/L
03C10	10/02/91	pH	6.80000	S.U.
03C10	10/02/91	SPECIFIC CONDUCTANCE	580.00000	umho/cm
03C10	10/02/91	SODIUM	6.80000	mg/L
03C10	10/02/91	RDX	0.03000	mg/L
03C10	10/02/91	TRICHLOROETHYLENE	0.01100	mg/L
03C10	10/02/91	BICARBONATE	293.00000	mg/L
03C10	10/02/91	CALCIUM	105.30000	mg/L
03C10	10/02/91	MAGNESIUM	26.70000	mg/L
03C10	10/02/91	POTASSIUM	25.20000	mg/L
03C10	12/31/91	pH	7.10000	S.U.
03C10	12/31/91	SPECIFIC CONDUCTANCE	665.00000	umho/cm
03C10	12/31/91	TOTAL ORGANIC CARBON	1.79000	mg/L
03C10	12/31/91	IRON, TOTAL	0.05000	mg/L
03C10	12/31/91	SODIUM	6.30000	mg/L
03C10	12/31/91	CALCIUM	90.60000	mg/L
03C10	12/31/91	MAGNESIUM	12.20000	mg/L
03C10	12/31/91	POTASSIUM	1.00000	mg/L

03C10	12/31/91	SULFATE	62.00000	mg/L
03C10	12/31/91	CHLORIDE	12.00000	mg/L
03C10	12/31/91	BICARBONATE	317.00000	mg/L
03C10	12/31/91	TRICHLOROETHYLENE	0.04100	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C11	10/21/87	pH	7.92000	S.U.
03C11	10/21/87	SPECIFIC CONDUCTANCE	791.00000	umho/cm
03C11	10/21/87	TOTAL ORGANIC CARBON	5.00000	mg/L
03C11	10/21/87	MANGANESE	0.02000	mg/L
03C11	10/21/87	SODIUM	37.00000	mg/L
03C11	10/21/87	SULFATE	40.00000	mg/L
03C11	10/21/87	CHLORIDE	63.00000	mg/L
03C11	10/21/87	RDX	0.02000	mg/L
03C11	10/21/87	BARIUM, TOTAL	0.06000	mg/L
03C11	10/21/87	FLUORIDE, TOTAL	0.12000	mg/L
03C11	10/21/87	NITRATE-N	1.90000	mg/L
03C11	10/21/87	RADIUM, TOTAL	7.00000	pCi/l
03C11	10/21/87	GROSS ALPHA	0.00000	pCi/l
03C11	10/21/87	GROSS BETA	1.40000	mlrem/y
03C11	10/21/87	TRICHLOROETHENE	0.00900	mg/L
03C11	10/21/87	BENZENE	0.00400	mg/L
03C11	02/02/88	pH	6.99000	S.U.
03C11	02/02/88	SPECIFIC CONDUCTANCE	1831.00000	umho/cm
03C11	02/02/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C11	02/02/88	TOTAL ORGANIC HALOGENS	0.69200	mg/L
03C11	02/02/88	SODIUM	38.00000	mg/L
03C11	02/02/88	SULFATE	630.00000	mg/L
03C11	02/02/88	CHLORIDE	30.00000	mg/L
03C11	02/02/88	RDX	0.04000	mg/L
03C11	02/02/88	FLUORIDE, TOTAL	0.10000	mg/L
03C11	02/02/88	NITRATE-N	4.00000	mg/L
03C11	02/02/88	RADIUM, TOTAL	0.10000	pCi/l
03C11	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C11	02/02/88	GROSS BETA	0.50000	mlrem/y
03C11	02/02/88	COLIFORM	0.00000	#/100ml
03C11	02/02/88	TRICHLOROETHYLENE	0.89000	mg/L
03C11	04/25/88	pH	7.11000	S.U.
03C11	04/25/88	SPECIFIC CONDUCTANCE	1931.00000	umho/cm
03C11	04/25/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C11	04/25/88	TOTAL ORGANIC HALOGENS	0.22000	mg/L
03C11	04/25/88	MANGANESE	0.15000	mg/L
03C11	04/25/88	SODIUM	214.00000	mg/L
03C11	04/25/88	SULFATE	475.00000	mg/L
03C11	04/25/88	CHLORIDE	15.00000	mg/L
03C11	04/25/88	FLUORIDE, TOTAL	0.74000	mg/L
03C11	04/25/88	NITRATE-N	2.70000	mg/L
03C11	04/25/88	RADIUM, TOTAL	0.20000	mg/L
03C11	04/25/88	GROSS ALPHA	1.10000	mg/L
03C11	04/25/88	GROSS BETA	0.00000	mg/L
03C11	04/25/88	COLIFORM	0.00000	#/100ml
03C11	04/25/88	TRICHLOROETHYLENE	0.58200	mg/L
03C11	04/25/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.16000	mg/L
03C11	08/01/88	pH	6.80000	S.U.
03C11	08/01/88	SPECIFIC CONDUCTANCE	1820.00000	umho/cm
03C11	08/01/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C11	08/01/88	TOTAL ORGANIC HALOGENS	1.22000	mg/L
03C11	08/01/88	RDX	0.03000	mg/L
03C11	08/01/88	TRICHLOROETHYLENE	0.93000	mg/L
03C11	10/22/88	pH	7.60000	S.U.
03C11	10/22/88	SPECIFIC CONDUCTANCE	1356.00000	umho/cm
03C11	10/22/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C11	10/22/88	TOTAL ORGANIC HALOGENS	0.34000	mg/L
03C11	10/22/88	MANGANESE	0.16200	mg/L

03C11	10/22/88	SODIUM	395.00000	mg/L
03C11	10/22/88	SULFATE	530.00000	mg/L
03C11	10/22/88	CHLORIDE	14.00000	mg/L
03C11	10/22/88	BICARBONATE	927.00000	mg/L
03C11	10/22/88	CALCIUM	122.00000	mg/L
03C11	10/22/88	MAGNESIUM	108.00000	mg/L
03C11	10/22/88	POTASSIUM	40.00000	mg/L
03C11	10/22/88	FLUORIDE, TOTAL	0.60000	mg/L
03C11	10/22/88	NITRATE-N	2.80000	mg/L
03C11	10/22/88	GROSS BETA	1.60000	pcu/L
03C11	10/22/88	COLIFORM	0.00000	TC/.1L
03C11	10/22/88	TRICHLOROETHYLENE	0.68700	mg/L
03C11	01/12/89	pH	7.60000	S.U.
03C11	01/12/89	SPECIFIC CONDUCTANCE	1510.00000	umho/cm
03C11	01/12/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C11	01/12/89	TOTAL ORGANIC HALOGENS	1.90000	mg/L
03C11	01/12/89	MANGANESE	0.44000	mg/L
03C11	01/12/89	SODIUM	165.00000	mg/L
03C11	01/12/89	SULFATE	625.00000	mg/L
03C11	01/12/89	CHLORIDE	16.00000	mg/L
03C11	01/12/89	AMMONIA-NITROGEN	0.50000	mg/L
03C11	01/12/89	BICARBONATE	812.00000	mg/L
03C11	01/12/89	CALCIUM	67.00000	mg/L
03C11	01/12/89	MAGNESIUM	17.00000	mg/L
03C11	01/12/89	POTASSIUM	3.40000	mg/L
03C11	01/12/89	FLUORIDE, TOTAL	1.00000	mg/L
03C11	01/12/89	NITRATE-N	2.60000	mg/L
03C11	01/12/89	COLIFORM	0.00000	TC/.1L
03C11	01/12/89	TRICHLOROETHYLENE	0.97900	mg/L
03C11	04/15/89	pH	7.30000	S.U.
03C11	04/15/89	SPECIFIC CONDUCTANCE	1500.00000	umho/cm
03C11	04/15/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C11	04/15/89	TOTAL ORGANIC HALOGENS	0.46000	mg/L
03C11	04/15/89	MANGANESE	0.09000	mg/L
03C11	04/15/89	SODIUM	100.00000	mg/L
03C11	04/15/89	CALCIUM	147.00000	mg/L
03C11	04/15/89	MAGNESIUM	109.00000	mg/L
03C11	04/15/89	POTASSIUM	4.00000	mg/L
03C11	04/15/89	SULFATE	875.00000	mg/L
03C11	04/15/89	CHLORIDE	23.00000	mg/L
03C11	04/15/89	BICARBONATE	499.00000	mg/L
03C11	04/15/89	FLUORIDE, TOTAL	0.26000	mg/L
03C11	04/15/89	NITRATE-N	4.90000	mg/L
03C11	04/15/89	COLIFORM	0.00000	TC/.1L
03C11	04/15/89	TRICHLOROETHYLENE	0.70000	mg/L
03C11	07/16/89	pH	7.20000	S.U.
03C11	07/16/89	SPECIFIC CONDUCTANCE	1816.00000	umho/cm
03C11	07/16/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C11	07/16/89	TOTAL ORGANIC HALOGENS	0.74000	mg/L
03C11	07/16/89	SODIUM	25.00000	mg/L
03C11	07/16/89	CALCIUM	122.00000	mg/L
03C11	07/16/89	MAGNESIUM	83.00000	mg/L
03C11	07/16/89	POTASSIUM	5.50000	mg/L
03C11	07/16/89	SULFATE	800.00000	mg/L
03C11	07/16/89	CHLORIDE	12.00000	mg/L
03C11	07/16/89	BICARBONATE	390.00000	mg/L
03C11	07/16/89	FLUORIDE, TOTAL	0.20000	mg/L
03C11	07/16/89	NITRATE-N	3.80000	mg/L
03C11	07/16/89	COLIFORM	0.00000	TC/.1L
03C11	07/16/89	TRICHLOROETHYLENE	0.80000	mg/L

03C11	07/16/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C11	10/24/89	pH	7.30000	S.U.
03C11	10/24/89	SPECIFIC CONDUCTANCE	1498.00000	umho/cm
03C11	10/24/89	CALCIUM	144.00000	mg/L
03C11	10/24/89	MAGNESIUM	103.00000	mg/L
03C11	10/24/89	POTASSIUM	2.80000	mg/L
03C11	10/24/89	BICARBONATE	705.00000	mg/L
03C11	10/24/89	RDX	0.02000	mg/L
03C11	10/24/89	TRICHLOROETHYLENE	0.59200	mg/L
03C11	01/28/90	pH	7.40000	S.U.
03C11	01/28/90	SPECIFIC CONDUCTANCE	1561.00000	umho/cm
03C11	01/28/90	TOTAL ORGANIC CARBON	3.00000	mg/L
03C11	01/28/90	TOTAL ORGANIC HALOGENS	1.00000	mg/L
03C11	01/28/90	MANGANESE	0.08100	mg/L
03C11	01/28/90	SODIUM	77.00000	mg/L
03C11	01/28/90	CALCIUM	88.00000	mg/L
03C11	01/28/90	MAGNESIUM	71.00000	mg/L
03C11	01/28/90	POTASSIUM	2.00000	mg/L
03C11	01/28/90	SULFATE	380.00000	mg/L
03C11	01/28/90	CHLORIDE	23.00000	mg/L
03C11	01/28/90	BICARBONATE	634.00000	mg/L
03C11	01/28/90	AMMONIA-NITROGEN	0.20000	mg/L
03C11	01/28/90	RDX	0.02000	mg/L
03C11	01/28/90	TRICHLOROETHYLENE	0.64800	mg/L
03C11	04/21/90	pH	7.20000	S.U.
03C11	04/21/90	SPECIFIC CONDUCTANCE	1528.00000	umho/cm
03C11	04/21/90	CALCIUM	133.00000	mg/L
03C11	04/21/90	MAGNESIUM	95.00000	mg/L
03C11	04/21/90	POTASSIUM	2.00000	mg/L
03C11	04/21/90	BICARBONATE	592.00000	mg/L
03C11	04/21/90	TRICHLOROETHYLENE	0.13200	mg/L
03C11	07/17/90	pH	7.50000	S.U.
03C11	07/17/90	SPECIFIC CONDUCTANCE	1462.00000	umho/cm
03C11	07/17/90	TOTAL ORGANIC CARBON	5.00000	mg/L
03C11	07/17/90	TOTAL ORGANIC HALOGENS	1.10000	mg/L
03C11	07/17/90	SODIUM	106.00000	mg/L
03C11	07/17/90	CALCIUM	115.00000	mg/L
03C11	07/17/90	MAGNESIUM	92.00000	mg/L
03C11	07/17/90	POTASSIUM	2.00000	mg/L
03C11	07/17/90	BICARBONATE	517.00000	mg/L
03C11	07/17/90	TRICHLOROETHYLENE	1.00000	mg/L
03C11	10/19/90	pH	7.10000	S.U.
03C11	10/19/90	SPECIFIC CONDUCTANCE	1690.00000	umho/cm
03C11	10/19/90	SODIUM	208.00000	mg/L
03C11	10/19/90	CALCIUM	161.00000	mg/L
03C11	10/19/90	MAGNESIUM	110.00000	mg/L
03C11	10/19/90	POTASSIUM	2.00000	mg/L
03C11	10/19/90	AMMONIA-NITROGEN	0.12000	mg/L
03C11	10/19/90	TRICHLOROETHYLENE	1.06300	mg/L
03C11	01/12/91	pH	7.68000	S.U.
03C11	01/12/91	SPECIFIC CONDUCTANCE	1307.00000	umho/cm
03C11	01/12/91	TOTAL ORGANIC CARBON	2.37000	mg/L
03C11	01/12/91	TOTAL ORGANIC HALOGENS	1.18000	mg/L
03C11	01/12/91	IRON, TOTAL	0.07000	mg/L
03C11	01/12/91	MANGANESE	0.01000	mg/L
03C11	01/12/91	SODIUM	123.00000	mg/L
03C11	01/12/91	CALCIUM	106.00000	mg/L
03C11	01/12/91	MAGNESIUM	115.00000	mg/L
03C11	01/12/91	POTASSIUM	3.00000	mg/L
03C11	01/12/91	CHLORIDE	22.00000	mg/L

03C11	01/12/91	BICARBONATE	500.00000	mg/L
03C11	01/12/91	AMMONIA-NITROGEN	0.18000	mg/L
03C11	01/12/91	RDX	0.15000	mg/L
03C11	01/12/91	TRICHLOROETHYLENE	0.56900	mg/L
03C11	01/12/91	SULFATE	760.00000	mg/L
03C11	04/06/91	pH	7.44000	S.U.
03C11	04/06/91	SPECIFIC CONDUCTANCE	1452.00000	umho/cm
03C11	04/06/91	CALCIUM	107.10000	mg/L
03C11	04/06/91	MAGNESIUM	77.20000	mg/L
03C11	04/06/91	POTASSIUM	1.90000	mg/L
03C11	04/06/91	BICARBONATE	532.00000	mg/L
03C11	04/06/91	TRICHLOROETHYLENE	1.29200	mg/L
03C11	07/12/91	pH	7.12000	S.U.
03C11	07/12/91	SPECIFIC CONDUCTANCE	1740.00000	umho/cm
03C11	07/12/91	TOTAL ORGANIC CARBON	2.90000	mg/L
03C11	07/12/91	TOTAL ORGANIC HALOGENS	1.08000	mg/L
03C11	07/12/91	IRON, TOTAL	0.11000	mg/L
03C11	07/12/91	MANGANESE	0.06000	mg/L
03C11	07/12/91	SODIUM	150.90000	mg/L
03C11	07/12/91	CALCIUM	119.40000	mg/L
03C11	07/12/91	MAGNESIUM	87.00000	mg/L
03C11	07/12/91	POTASSIUM	1.00000	mg/L
03C11	07/12/91	BICARBONATE	532.00000	mg/L
03C11	07/12/91	AMMONIA-NITROGEN	0.08000	mg/L
03C11	07/12/91	TRICHLOROETHENE	1.23500	mg/L
03C11	10/01/91	pH	7.40000	S.U.
03C11	10/01/91	SPECIFIC CONDUCTANCE	1297.00000	umho/cm
03C11	10/01/91	SODIUM	209.00000	mg/L
03C11	10/01/91	TRICHLOROETHYLENE	1.23500	mg/L
03C11	10/01/91	AMMONIA-NITROGEN	0.72000	mg/L
03C11	10/01/91	BICARBONATE	537.00000	mg/L
03C11	10/01/91	CALCIUM	121.70000	mg/L
03C11	10/01/91	MAGNESIUM	83.10000	mg/L
03C11	10/01/91	POTASSIUM	3.80000	mg/L
03C11	01/04/92	pH	7.60000	S.U.
03C11	01/04/92	SPECIFIC CONDUCTANCE	1490.00000	umho/cm
03C11	01/04/92	TOTAL ORGANIC CARBON	1.64000	mg/L
03C11	01/04/92	TOTAL ORGANIC HALOGENS	1.10000	mg/L
03C11	01/04/92	SODIUM	92.80000	mg/L
03C11	01/04/92	CALCIUM	147.00000	mg/L
03C11	01/04/92	MAGNESIUM	106.90000	mg/L
03C11	01/04/92	POTASSIUM	7.90000	mg/L
03C11	01/04/92	SULFATE	70.00000	mg/L
03C11	01/04/92	CHLORIDE	20.00000	mg/L
03C11	01/04/92	BICARBONATE	484.00000	mg/L
03C11	01/04/92	AMMONIA-NITROGEN	0.30000	mg/L
03C11	01/04/92	TRICHLOROETHYLENE	1.20000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C12	10/27/87	pH	7.08000	S.U.
03C12	10/27/87	SPECIFIC CONDUCTANCE	1705.00000	umho/cm
03C12	10/27/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C12	10/27/87	TOTAL ORGANIC HALOGENS	0.42000	mg/L
03C12	10/27/87	SODIUM	88.00000	mg/L
03C12	10/27/87	SULFATE	500.00000	mg/L
03C12	10/27/87	CHLORIDE	32.00000	mg/L
03C12	10/27/87	RDX	0.03000	mg/L
03C12	10/27/87	CADMIUM, TOTAL	0.02000	mg/L
03C12	10/27/87	FLUORIDE, TOTAL	0.12000	mg/L
03C12	10/27/87	NITRATE-N	2.70000	mg/L
03C12	10/27/87	RADIUM, TOTAL	0.30000	pCi/l
03C12	10/27/87	GROSS ALPHA	0.00000	pCi/l
03C12	10/27/87	GROSS BETA	0.00000	mlrem/y
03C12	10/27/87	TRICHLOROETHYLENE	0.60000	mg/L
03C12	10/27/87	TRICHLOROETHENE	0.81000	mg/L
03C12	02/05/88	pH	7.63000	S.U.
03C12	02/05/88	SPECIFIC CONDUCTANCE	488.00000	umho/cm
03C12	02/05/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C12	02/05/88	TOTAL ORGANIC HALOGENS	0.01600	mg/L
03C12	02/05/88	MANGANESE	0.21000	mg/L
03C12	02/05/88	SODIUM	45.00000	mg/L
03C12	02/05/88	SULFATE	58.00000	mg/L
03C12	02/05/88	CHLORIDE	19.00000	mg/L
03C12	02/05/88	BARIUM, TOTAL	0.07000	mg/L
03C12	02/05/88	FLUORIDE, TOTAL	0.18000	mg/L
03C12	02/05/88	NITRATE-N	0.35000	mg/L
03C12	02/05/88	RADIUM, TOTAL	0.10000	pCi/l
03C12	02/05/88	GROSS ALPHA	0.00000	pCi/l
03C12	02/05/88	GROSS BETA	0.80000	mlrem/y
03C12	02/05/88	COLIFORM	8.00000	#/100ml
03C12	02/05/88	TRICHLOROETHYLENE	0.02700	mg/L
03C12	04/25/88	pH	7.64000	S.U.
03C12	04/25/88	SPECIFIC CONDUCTANCE	804.00000	umho/cm
03C12	04/25/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C12	04/25/88	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C12	04/25/88	MANGANESE	0.01300	mg/L
03C12	04/25/88	SODIUM	36.00000	mg/L
03C12	04/25/88	SULFATE	61.00000	mg/L
03C12	04/25/88	CHLORIDE	42.00000	mg/L
03C12	04/25/88	RDX	0.02600	mg/L
03C12	04/25/88	BARIUM, TOTAL	0.10000	mg/L
03C12	04/25/88	FLUORIDE, TOTAL	0.33000	mg/L
03C12	04/25/88	NITRATE-N	1.42000	mg/L
03C12	04/25/88	RADIUM, TOTAL	0.20000	mg/L
03C12	04/25/88	GROSS ALPHA	0.20000	mg/L
03C12	04/25/88	GROSS BETA	2.40000	mg/L
03C12	04/25/88	COLIFORM	3.00000	#/100ml
03C12	04/25/88	TRICHLOROETHYLENE	0.04000	mg/L
03C12	04/25/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.10000	mg/L
03C12	07/20/88	pH	6.30000	S.U.
03C12	07/20/88	SPECIFIC CONDUCTANCE	790.00000	umho/cm
03C12	07/20/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C12	07/20/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C12	07/20/88	RDX	0.02000	mg/L
03C12	07/20/88	TRICHLOROETHYLENE	0.01000	mg/L
03C12	10/22/88	pH	8.00000	S.U.
03C12	10/22/88	SPECIFIC CONDUCTANCE	584.00000	umho/cm

03C12	10/22/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C12	10/22/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C12	10/22/88	MANGANESE	0.07000	mg/L
03C12	10/22/88	SODIUM	26.00000	mg/L
03C12	10/22/88	SULFATE	70.00000	mg/L
03C12	10/22/88	CHLORIDE	46.00000	mg/L
03C12	10/22/88	BICARBONATE	730.00000	mg/L
03C12	10/22/88	CALCIUM	92.00000	mg/L
03C12	10/22/88	MAGNESIUM	9.00000	mg/L
03C12	10/22/88	POTASSIUM	4.00000	mg/L
03C12	10/22/88	FLUORIDE, TOTAL	0.18000	mg/L
03C12	10/22/88	NITRATE-N	1.65000	mg/L
03C12	10/22/88	GROSS BETA	1.00000	pcu/L
03C12	10/22/88	COLIFORM	0.00000	TC/.1L
03C12	10/22/88	TRICHLOROETHYLENE	0.01000	mg/L
03C12	01/13/89	pH	7.60000	S.U.
03C12	01/13/89	SPECIFIC CONDUCTANCE	653.00000	umho/cm
03C12	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C12	01/13/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C12	01/13/89	MANGANESE	0.03000	mg/L
03C12	01/13/89	SODIUM	27.00000	mg/L
03C12	01/13/89	SULFATE	80.00000	mg/L
03C12	01/13/89	CHLORIDE	49.00000	mg/L
03C12	01/13/89	AMMONIA-NITROGEN	0.10000	mg/L
03C12	01/13/89	BICARBONATE	451.00000	mg/L
03C12	01/13/89	CALCIUM	122.00000	mg/L
03C12	01/13/89	MAGNESIUM	11.00000	mg/L
03C12	01/13/89	POTASSIUM	2.70000	mg/L
03C12	01/13/89	BARIUM, TOTAL	0.11300	mg/L
03C12	01/13/89	FLUORIDE, TOTAL	0.30000	mg/L
03C12	01/13/89	NITRATE-N	2.00000	mg/L
03C12	01/13/89	COLIFORM	0.00000	TC/.1L
03C12	01/13/89	TRICHLOROETHYLENE	0.04000	mg/L
03C12	04/15/89	pH	7.60000	S.U.
03C12	04/15/89	SPECIFIC CONDUCTANCE	644.00000	umho/cm
03C12	04/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C12	04/15/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C12	04/15/89	MANGANESE	0.04400	mg/L
03C12	04/15/89	SODIUM	40.00000	mg/L
03C12	04/15/89	CALCIUM	91.00000	mg/L
03C12	04/15/89	MAGNESIUM	9.40000	mg/L
03C12	04/15/89	POTASSIUM	4.00000	mg/L
03C12	04/15/89	SULFATE	57.00000	mg/L
03C12	04/15/89	CHLORIDE	47.00000	mg/L
03C12	04/15/89	BICARBONATE	273.00000	mg/L
03C12	04/15/89	BARIUM, TOTAL	0.11000	mg/L
03C12	04/15/89	FLUORIDE, TOTAL	0.07000	mg/L
03C12	04/15/89	NITRATE-N	2.20000	mg/L
03C12	04/15/89	COLIFORM	0.00000	TC/.1L
03C12	04/15/89	TRICHLOROETHYLENE	0.15000	mg/L
03C12	04/15/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.03700	mg/L
03C12	07/16/89	pH	7.40000	S.U.
03C12	07/16/89	SPECIFIC CONDUCTANCE	727.00000	umho/cm
03C12	07/16/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C12	07/16/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C12	07/16/89	MANGANESE	0.05000	mg/L
03C12	07/16/89	SODIUM	22.00000	mg/L
03C12	07/16/89	CALCIUM	93.00000	mg/L
03C12	07/16/89	MAGNESIUM	9.00000	mg/L
03C12	07/16/89	POTASSIUM	3.00000	mg/L

03C12	07/16/89	SULFATE	52.00000	mg/L
03C12	07/16/89	CHLORIDE	51.00000	mg/L
03C12	07/16/89	BICARBONATE	381.00000	mg/L
03C12	07/16/89	BARIUM, TOTAL	0.10000	mg/L
03C12	07/16/89	NITRATE-N	1.20000	mg/L
03C12	07/16/89	COLIFORM	0.00000	TC/.1L
03C12	07/16/89	TRICHLOROETHYLENE	0.00800	mg/L
03C12	07/16/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03C12	10/24/89	pH	7.30000	S.U.
03C12	10/24/89	SPECIFIC CONDUCTANCE	652.00000	umho/cm
03C12	10/24/89	CALCIUM	90.00000	mg/L
03C12	10/24/89	MAGNESIUM	8.00000	mg/L
03C12	10/24/89	POTASSIUM	2.30000	mg/L
03C12	10/24/89	BICARBONATE	391.00000	mg/L
03C12	10/24/89	TRICHLOROETHYLENE	0.00200	mg/L
03C12	01/28/90	pH	7.50000	S.U.
03C12	01/28/90	SPECIFIC CONDUCTANCE	623.00000	umho/cm
03C12	01/28/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03C12	01/28/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C12	01/28/90	MANGANESE	0.01600	mg/L
03C12	01/28/90	SODIUM	30.00000	mg/L
03C12	01/28/90	CALCIUM	65.00000	mg/L
03C12	01/28/90	MAGNESIUM	5.00000	mg/L
03C12	01/28/90	POTASSIUM	2.00000	mg/L
03C12	01/28/90	SULFATE	46.00000	mg/L
03C12	01/28/90	CHLORIDE	43.00000	mg/L
03C12	01/28/90	BICARBONATE	403.00000	mg/L
03C12	01/28/90	TRICHLOROETHYLENE	0.02100	mg/L
03C12	04/21/90	pH	7.30000	S.U.
03C12	04/21/90	SPECIFIC CONDUCTANCE	606.00000	umho/cm
03C12	04/21/90	CALCIUM	124.00000	mg/L
03C12	04/21/90	MAGNESIUM	13.00000	mg/L
03C12	04/21/90	POTASSIUM	3.00000	mg/L
03C12	04/21/90	BICARBONATE	435.00000	mg/L
03C12	04/21/90	TRICHLOROETHYLENE	0.02000	mg/L
03C12	07/11/90	pH	7.60000	S.U.
03C12	07/11/90	SPECIFIC CONDUCTANCE	796.00000	umho/cm
03C12	07/11/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03C12	07/11/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C12	07/11/90	SODIUM	35.00000	mg/L
03C12	07/11/90	CALCIUM	67.00000	mg/L
03C12	07/11/90	MAGNESIUM	5.00000	mg/L
03C12	07/11/90	POTASSIUM	2.00000	mg/L
03C12	07/11/90	BICARBONATE	460.00000	mg/L
03C12	07/11/90	AMMONIA-NITROGEN	0.33000	mg/L
03C12	07/11/90	TRICHLOROETHYLENE	0.01100	mg/L
03C12	10/19/90	pH	7.30000	S.U.
03C12	10/19/90	SPECIFIC CONDUCTANCE	600.00000	umho/cm
03C12	10/19/90	SODIUM	39.00000	mg/L
03C12	10/19/90	CALCIUM	111.00000	mg/L
03C12	10/19/90	MAGNESIUM	11.00000	mg/L
03C12	10/19/90	POTASSIUM	2.00000	mg/L
03C12	10/19/90	TRICHLOROETHYLENE	0.01800	mg/L
03C12	01/12/91	pH	7.35000	S.U.
03C12	01/12/91	SPECIFIC CONDUCTANCE	618.00000	umho/cm
03C12	01/12/91	TOTAL ORGANIC CARBON	1.79000	mg/L
03C12	01/12/91	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C12	01/12/91	MANGANESE	0.02000	mg/L
03C12	01/12/91	SODIUM	25.00000	mg/L
03C12	01/12/91	CALCIUM	76.00000	mg/L

03C12	01/12/91	MAGNESIUM	12.00000	mg/L
03C12	01/12/91	POTASSIUM	3.00000	mg/L
03C12	01/12/91	SULFATE	64.00000	mg/L
03C12	01/12/91	CHLORIDE	51.00000	mg/L
03C12	01/12/91	BICARBONATE	317.00000	mg/L
03C12	01/12/91	RDX	0.03000	mg/L
03C12	01/12/91	TRICHLOROETHYLENE	0.02600	mg/L
03C12	04/06/91	pH	7.18000	S.U.
03C12	04/06/91	SPECIFIC CONDUCTANCE	695.00000	umho/cm
03C12	04/06/91	CALCIUM	98.00000	mg/L
03C12	04/06/91	MAGNESIUM	10.40000	mg/L
03C12	04/06/91	POTASSIUM	1.70000	mg/L
03C12	04/06/91	BICARBONATE	335.00000	mg/L
03C12	04/06/91	AMMONIA-NITROGEN	0.14000	mg/L
03C12	04/06/91	TRICHLOROETHYLENE	0.01600	mg/L
03C12	07/12/91	pH	7.13000	S.U.
03C12	07/12/91	SPECIFIC CONDUCTANCE	679.00000	umho/cm
03C12	07/12/91	TOTAL ORGANIC CARBON	2.24000	mg/L
03C12	07/12/91	IRON, TOTAL	0.27000	mg/L
03C12	07/12/91	MANGANESE	0.02000	mg/L
03C12	07/12/91	SODIUM	19.10000	mg/L
03C12	07/12/91	CALCIUM	87.70000	mg/L
03C12	07/12/91	MAGNESIUM	7.40000	mg/L
03C12	07/12/91	POTASSIUM	1.00000	mg/L
03C12	07/12/91	BICARBONATE	383.00000	mg/L
03C12	07/12/91	RDX	0.02000	mg/L
03C12	07/12/91	TRICHLOROETHENE	0.00500	mg/L
03C12	10/01/91	pH	7.00000	S.U.
03C12	10/01/91	SPECIFIC CONDUCTANCE	656.00000	umho/cm
03C12	10/01/91	SODIUM	18.00000	mg/L
03C12	10/01/91	TRICHLOROETHYLENE	0.10600	mg/L
03C12	10/01/91	BICARBONATE	262.00000	mg/L
03C12	10/01/91	CALCIUM	103.70000	mg/L
03C12	10/01/91	MAGNESIUM	9.50000	mg/L
03C12	10/01/91	POTASSIUM	1.70000	mg/L
03C12	01/04/92	pH	7.60000	S.U.
03C12	01/04/92	SPECIFIC CONDUCTANCE	590.00000	umho/cm
03C12	01/04/92	TOTAL ORGANIC CARBON	1.47000	mg/L
03C12	01/04/92	MANGANESE	0.01200	mg/L
03C12	01/04/92	SODIUM	22.90000	mg/L
03C12	01/04/92	CALCIUM	103.40000	mg/L
03C12	01/04/92	MAGNESIUM	10.90000	mg/L
03C12	01/04/92	POTASSIUM	3.80000	mg/L
03C12	01/04/92	SULFATE	68.00000	mg/L
03C12	01/04/92	CHLORIDE	51.00000	mg/L
03C12	01/04/92	BICARBONATE	317.00000	mg/L
03C12	01/04/92	AMMONIA-NITROGEN	0.06000	mg/L
03C12	01/04/92	TRICHLOROETHYLENE	0.02700	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C13	11/10/87	pH	7.27000	S.U.
03C13	11/10/87	SPECIFIC CONDUCTANCE	717.00000	umho/cm
03C13	11/10/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03C13	11/10/87	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C13	11/10/87	IRON, TOTAL	0.09000	mg/L
03C13	11/10/87	SODIUM	18.00000	mg/L
03C13	11/10/87	SULFATE	155.00000	mg/L
03C13	11/10/87	CHLORIDE	14.00000	mg/L
03C13	11/10/87	FLUORIDE, TOTAL	1.15000	mg/L
03C13	11/10/87	NITRATE-N	0.65000	mg/L
03C13	11/10/87	RADIUM, TOTAL	0.50000	pCi/l
03C13	11/10/87	GROSS ALPHA	0.00000	pCi/l
03C13	11/10/87	GROSS BETA	0.00000	mlrem/y
03C13	11/10/87	TRICHLOROETHYLENE	0.05000	mg/L
03C13	11/10/87	TRICHLOROETHENE	0.04800	mg/L
03C13	11/10/87	BENZENE	0.02200	mg/L
03C13	02/08/88	pH	7.36000	S.U.
03C13	02/08/88	SPECIFIC CONDUCTANCE	1008.00000	umho/cm
03C13	02/08/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C13	02/08/88	TOTAL ORGANIC HALOGENS	0.07300	mg/L
03C13	02/08/88	MANGANESE	0.02000	mg/L
03C13	02/08/88	SODIUM	19.00000	mg/L
03C13	02/08/88	SULFATE	150.00000	mg/L
03C13	02/08/88	CHLORIDE	9.00000	mg/L
03C13	02/08/88	RDX	0.02000	mg/L
03C13	02/08/88	FLUORIDE, TOTAL	1.20000	mg/L
03C13	02/08/88	NITRATE-N	0.76000	mg/L
03C13	02/08/88	RADIUM, TOTAL	0.40000	pCi/l
03C13	02/08/88	GROSS ALPHA	0.00000	pCi/l
03C13	02/08/88	GROSS BETA	0.00000	mlrem/y
03C13	02/08/88	COLIFORM	0.00000	#/100ml
03C13	02/08/88	TRICHLOROETHYLENE	0.05000	mg/L
03C13	04/24/88	pH	7.09000	S.U.
03C13	04/24/88	SPECIFIC CONDUCTANCE	908.00000	umho/cm
03C13	04/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C13	04/24/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C13	04/24/88	MANGANESE	0.03000	mg/L
03C13	04/24/88	SODIUM	23.00000	mg/L
03C13	04/24/88	SULFATE	175.00000	mg/L
03C13	04/24/88	CHLORIDE	5.00000	mg/L
03C13	04/24/88	FLUORIDE, TOTAL	0.40000	mg/L
03C13	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C13	04/24/88	GROSS ALPHA	3.40000	mg/L
03C13	04/24/88	GROSS BETA	6.70000	mg/L
03C13	04/24/88	COLIFORM	0.00000	#/100ml
03C13	04/24/88	TRICHLOROETHYLENE	0.01900	mg/L
03C13	08/01/88	pH	7.00000	S.U.
03C13	08/01/88	SPECIFIC CONDUCTANCE	848.00000	umho/cm
03C13	08/01/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C13	08/01/88	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C13	08/01/88	RDX	0.01000	mg/L
03C13	08/01/88	TRICHLOROETHYLENE	0.06000	mg/L
03C13	10/25/88	pH	7.10000	S.U.
03C13	10/25/88	SPECIFIC CONDUCTANCE	638.00000	umho/cm
03C13	10/25/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C13	10/25/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C13	10/25/88	MANGANESE	0.02000	mg/L
03C13	10/25/88	SODIUM	25.00000	mg/L

03C13	10/25/88	SULFATE	165.00000	mg/L
03C13	10/25/88	CHLORIDE	7.00000	mg/L
03C13	10/25/88	AMMONIA-NITROGEN	0.95000	mg/L
03C13	10/25/88	BICARBONATE	610.00000	mg/L
03C13	10/25/88	CALCIUM	111.00000	mg/L
03C13	10/25/88	MAGNESIUM	28.00000	mg/L
03C13	10/25/88	POTASSIUM	2.00000	mg/L
03C13	10/25/88	FLUORIDE, TOTAL	0.14000	mg/L
03C13	10/25/88	NITRATE-N	0.13000	mg/L
03C13	10/25/88	GROSS BETA	0.00000	pcu/L
03C13	10/25/88	COLIFORM	0.00000	TC/.1L
03C13	10/25/88	TRICHLOROETHYLENE	0.05000	mg/L
03C13	01/11/89	pH	7.70000	S.U.
03C13	01/11/89	SPECIFIC CONDUCTANCE	756.00000	umho/cm
03C13	01/11/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C13	01/11/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C13	01/11/89	MANGANESE	0.02000	mg/L
03C13	01/11/89	SODIUM	26.00000	mg/L
03C13	01/11/89	SULFATE	215.00000	mg/L
03C13	01/11/89	CHLORIDE	7.00000	mg/L
03C13	01/11/89	BICARBONATE	622.00000	mg/L
03C13	01/11/89	CALCIUM	134.00000	mg/L
03C13	01/11/89	MAGNESIUM	31.00000	mg/L
03C13	01/11/89	POTASSIUM	1.60000	mg/L
03C13	01/11/89	FLUORIDE, TOTAL	0.53000	mg/L
03C13	01/11/89	NITRATE-N	0.46000	mg/L
03C13	01/11/89	COLIFORM	0.00000	TC/.1L
03C13	01/11/89	TRICHLOROETHYLENE	0.03000	mg/L
03C13	04/12/89	pH	7.30000	S.U.
03C13	04/12/89	SPECIFIC CONDUCTANCE	800.00000	umho/cm
03C13	04/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C13	04/12/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C13	04/12/89	MANGANESE	0.01000	mg/L
03C13	04/12/89	SODIUM	19.00000	mg/L
03C13	04/12/89	CALCIUM	126.00000	mg/L
03C13	04/12/89	MAGNESIUM	31.00000	mg/L
03C13	04/12/89	POTASSIUM	2.50000	mg/L
03C13	04/12/89	SULFATE	165.00000	mg/L
03C13	04/12/89	CHLORIDE	13.00000	mg/L
03C13	04/12/89	BICARBONATE	363.00000	mg/L
03C13	04/12/89	FLUORIDE, TOTAL	0.17000	mg/L
03C13	04/12/89	NITRATE-N	0.25000	mg/L
03C13	04/12/89	COLIFORM	0.00000	TC/.1L
03C13	04/12/89	TRICHLOROETHYLENE	0.04000	mg/L
03C13	07/13/89	pH	7.20000	S.U.
03C13	07/13/89	SPECIFIC CONDUCTANCE	878.00000	umho/cm
03C13	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C13	07/13/89	TOTAL ORGANIC HALOGENS	0.03800	mg/L
03C13	07/13/89	MANGANESE	0.01400	mg/L
03C13	07/13/89	SODIUM	16.00000	mg/L
03C13	07/13/89	CALCIUM	120.00000	mg/L
03C13	07/13/89	MAGNESIUM	30.00000	mg/L
03C13	07/13/89	POTASSIUM	2.00000	mg/L
03C13	07/13/89	SULFATE	160.00000	mg/L
03C13	07/13/89	CHLORIDE	9.00000	mg/L
03C13	07/13/89	BICARBONATE	361.00000	mg/L
03C13	07/13/89	FLUORIDE, TOTAL	0.16000	mg/L
03C13	07/13/89	NITRATE-N	0.76000	mg/L
03C13	07/13/89	COLIFORM	0.00000	TC/.1L
03C13	07/13/89	TRICHLOROETHYLENE	0.03800	mg/L

03C13	10/22/89	pH	7.40000	S.U.
03C13	10/22/89	SPECIFIC CONDUCTANCE	708.00000	umho/cm
03C13	10/22/89	CALCIUM	97.00000	mg/L
03C13	10/22/89	MAGNESIUM	22.00000	mg/L
03C13	10/22/89	POTASSIUM	1.70000	mg/L
03C13	10/22/89	BICARBONATE	342.00000	mg/L
03C13	10/22/89	AMMONIA-NITROGEN	1.20000	mg/L
03C13	10/22/89	RDX	0.01000	mg/L
03C13	10/22/89	TRICHLOROETHYLENE	0.04400	mg/L
03C13	01/28/90	pH	7.50000	S.U.
03C13	01/28/90	SPECIFIC CONDUCTANCE	690.00000	umho/cm
03C13	01/28/90	TOTAL ORGANIC CARBON	1.90000	mg/L
03C13	01/28/90	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C13	01/28/90	MANGANESE	0.01100	mg/L
03C13	01/28/90	SODIUM	11.00000	mg/L
03C13	01/28/90	CALCIUM	86.00000	mg/L
03C13	01/28/90	MAGNESIUM	20.00000	mg/L
03C13	01/28/90	POTASSIUM	2.00000	mg/L
03C13	01/28/90	SULFATE	160.00000	mg/L
03C13	01/28/90	CHLORIDE	11.00000	mg/L
03C13	01/28/90	BICARBONATE	427.00000	mg/L
03C13	01/28/90	TRICHLOROETHYLENE	0.05700	mg/L
03C13	04/23/90	pH	7.50000	S.U.
03C13	04/23/90	SPECIFIC CONDUCTANCE	683.00000	umho/cm
03C13	04/23/90	IRON, TOTAL	0.13000	mg/L
03C13	04/23/90	CALCIUM	136.00000	mg/L
03C13	04/23/90	MAGNESIUM	33.00000	mg/L
03C13	04/23/90	POTASSIUM	4.00000	mg/L
03C13	04/23/90	BICARBONATE	425.00000	mg/L
03C13	04/23/90	TRICHLOROETHYLENE	0.04000	mg/L
03C13	07/17/90	pH	7.30000	S.U.
03C13	07/17/90	SPECIFIC CONDUCTANCE	731.00000	umho/cm
03C13	07/17/90	TOTAL ORGANIC CARBON	1.30000	mg/L
03C13	07/17/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C13	07/17/90	IRON, TOTAL	0.06000	mg/L
03C13	07/17/90	SODIUM	18.00000	mg/L
03C13	07/17/90	CALCIUM	118.00000	mg/L
03C13	07/17/90	MAGNESIUM	28.00000	mg/L
03C13	07/17/90	POTASSIUM	2.00000	mg/L
03C13	07/17/90	BICARBONATE	350.00000	mg/L
03C13	07/17/90	TRICHLOROETHYLENE	0.06100	mg/L
03C13	10/18/90	pH	6.80000	S.U.
03C13	10/18/90	SPECIFIC CONDUCTANCE	690.00000	umho/cm
03C13	10/18/90	SODIUM	19.00000	mg/L
03C13	10/18/90	CALCIUM	115.00000	mg/L
03C13	10/18/90	MAGNESIUM	28.00000	mg/L
03C13	10/18/90	POTASSIUM	1.00000	mg/L
03C13	10/18/90	TRICHLOROETHYLENE	0.05100	mg/L
03C13	01/18/91	pH	7.31000	S.U.
03C13	01/18/91	SPECIFIC CONDUCTANCE	737.00000	umho/cm
03C13	01/18/91	TOTAL ORGANIC CARBON	0.87000	mg/L
03C13	01/18/91	TOTAL ORGANIC HALOGENS	0.10000	mg/L
03C13	01/18/91	MANGANESE	0.03000	mg/L
03C13	01/18/91	SODIUM	18.00000	mg/L
03C13	01/18/91	CALCIUM	99.00000	mg/L
03C13	01/18/91	MAGNESIUM	33.00000	mg/L
03C13	01/18/91	POTASSIUM	2.00000	mg/L
03C13	01/18/91	SULFATE	170.00000	mg/L
03C13	01/18/91	CHLORIDE	13.00000	mg/L
03C13	01/18/91	BICARBONATE	305.00000	mg/L

03C13	01/18/91	TRICHLOROETHYLENE	0.06400	mg/L
03C13	04/07/91	pH	7.04000	S.U.
03C13	04/07/91	SPECIFIC CONDUCTANCE	774.00000	umho/cm
03C13	04/07/91	CALCIUM	97.50000	mg/L
03C13	04/07/91	MAGNESIUM	25.90000	mg/L
03C13	04/07/91	POTASSIUM	1.50000	mg/L
03C13	04/07/91	BICARBONATE	395.00000	mg/L
03C13	04/07/91	TRICHLOROETHYLENE	0.07900	mg/L
03C13	07/13/91	pH	7.01000	S.U.
03C13	07/13/91	SPECIFIC CONDUCTANCE	780.00000	umho/cm
03C13	07/13/91	TOTAL ORGANIC CARBON	1.00000	mg/L
03C13	07/13/91	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03C13	07/13/91	MANGANESE	0.01800	mg/L
03C13	07/13/91	SODIUM	14.10000	mg/L
03C13	07/13/91	CALCIUM	94.20000	mg/L
03C13	07/13/91	MAGNESIUM	23.90000	mg/L
03C13	07/13/91	POTASSIUM	1.40000	mg/L
03C13	07/13/91	BICARBONATE	407.00000	mg/L
03C13	07/13/91	TRICHLOROETHENE	0.05300	mg/L
03C13	10/07/91	pH	7.00000	S.U.
03C13	10/07/91	SPECIFIC CONDUCTANCE	667.00000	umho/cm
03C13	10/07/91	SODIUM	12.60000	mg/L
03C13	10/07/91	TRICHLOROETHYLENE	0.06900	mg/L
03C13	10/07/91	AMMONIA-NITROGEN	0.05000	mg/L
03C13	10/07/91	BICARBONATE	366.00000	mg/L
03C13	10/07/91	CALCIUM	93.30000	mg/L
03C13	10/07/91	MAGNESIUM	25.80000	mg/L
03C13	10/07/91	POTASSIUM	3.10000	mg/L
03C13	01/10/92	pH	7.60000	S.U.
03C13	01/10/92	SPECIFIC CONDUCTANCE	689.00000	umho/cm
03C13	01/10/92	TOTAL ORGANIC CARBON	1.86000	mg/L
03C13	01/10/92	MANGANESE	0.01000	mg/L
03C13	01/10/92	SODIUM	14.00000	mg/L
03C13	01/10/92	CALCIUM	113.90000	mg/L
03C13	01/10/92	MAGNESIUM	28.00000	mg/L
03C13	01/10/92	POTASSIUM	2.10000	mg/L
03C13	01/10/92	SULFATE	130.00000	mg/L
03C13	01/10/92	CHLORIDE	13.00000	mg/L
03C13	01/10/92	BICARBONATE	353.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C14	10/23/87	pH	7.74000	S.U.
03C14	10/23/87	SPECIFIC CONDUCTANCE	913.00000	umho/cm
03C14	10/23/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C14	10/23/87	MANGANESE	0.04000	mg/L
03C14	10/23/87	SODIUM	17.00000	mg/L
03C14	10/23/87	SULFATE	125.00000	mg/L
03C14	10/23/87	CHLORIDE	21.00000	mg/L
03C14	10/23/87	CADMIUM, TOTAL	0.08000	mg/L
03C14	10/23/87	FLUORIDE, TOTAL	0.14000	mg/L
03C14	10/23/87	NITRATE-N	0.16000	mg/L
03C14	10/23/87	METHOXYCHLOR	0.10000	mg/L
03C14	10/23/87	RADIUM, TOTAL	0.30000	pCi/l
03C14	10/23/87	GROSS ALPHA	0.00000	pCi/l
03C14	10/23/87	GROSS BETA	2.10000	mlrem/y
03C14	02/04/88	pH	7.33000	S.U.
03C14	02/04/88	SPECIFIC CONDUCTANCE	931.00000	umho/cm
03C14	02/04/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C14	02/04/88	MANGANESE	0.02600	mg/L
03C14	02/04/88	SODIUM	17.00000	mg/L
03C14	02/04/88	SULFATE	265.00000	mg/L
03C14	02/04/88	CHLORIDE	15.00000	mg/L
03C14	02/04/88	BARIUM, TOTAL	0.05700	mg/L
03C14	02/04/88	FLUORIDE, TOTAL	0.24000	mg/L
03C14	02/04/88	NITRATE-N	0.13000	mg/L
03C14	02/04/88	RADIUM, TOTAL	0.30000	pCi/l
03C14	02/04/88	GROSS ALPHA	0.00000	pCi/l
03C14	02/04/88	GROSS BETA	0.00000	mlrem/y
03C14	02/04/88	COLIFORM	0.00000	#/100ml
03C14	04/22/88	pH	7.16000	S.U.
03C14	04/22/88	SPECIFIC CONDUCTANCE	708.00000	umho/cm
03C14	04/22/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C14	04/22/88	IRON, TOTAL	0.04000	mg/L
03C14	04/22/88	MANGANESE	0.05000	mg/L
03C14	04/22/88	SODIUM	14.50000	mg/L
03C14	04/22/88	SULFATE	76.00000	mg/L
03C14	04/22/88	CHLORIDE	10.00000	mg/L
03C14	04/22/88	BARIUM, TOTAL	0.05000	mg/L
03C14	04/22/88	MERCURY, TOTAL	0.34000	mg/L
03C14	04/22/88	FLUORIDE, TOTAL	0.45000	mg/L
03C14	04/22/88	NITRATE-N	0.72000	mg/L
03C14	04/22/88	RADIUM, TOTAL	0.20000	mg/L
03C14	04/22/88	GROSS ALPHA	3.50000	mg/L
03C14	04/22/88	GROSS BETA	3.20000	mg/L
03C14	04/22/88	COLIFORM	0.00000	#/100ml
03C14	04/22/88	TRICHLOROETHYLENE	0.00200	mg/L
03C14	07/28/88	pH	7.20000	S.U.
03C14	07/28/88	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C14	07/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C14	07/28/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C14	07/28/88	TRICHLOROETHYLENE	0.01000	mg/L
03C14	10/27/88	pH	7.10000	S.U.
03C14	10/27/88	SPECIFIC CONDUCTANCE	515.00000	umho/cm
03C14	10/27/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C14	10/27/88	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C14	10/27/88	MANGANESE	0.03000	mg/L
03C14	10/27/88	SODIUM	9.00000	mg/L
03C14	10/27/88	SULFATE	73.00000	mg/L
03C14	10/27/88	CHLORIDE	8.00000	mg/L

03C14	10/27/88	AMMONIA-NITROGEN	0.52000	mg/L
03C14	10/27/88	BICARBONATE	537.00000	mg/L
03C14	10/27/88	CALCIUM	103.00000	mg/L
03C14	10/27/88	MAGNESIUM	24.00000	mg/L
03C14	10/27/88	POTASSIUM	4.00000	mg/L
03C14	10/27/88	FLUORIDE, TOTAL	0.18000	mg/L
03C14	10/27/88	NITRATE-N	0.50000	mg/L
03C14	10/27/88	GROSS BETA	2.00000	pcu/L
03C14	10/27/88	COLIFORM	0.00000	TC/.1L
03C14	10/27/88	TRICHLOROETHYLENE	0.02000	mg/L
03C14	10/27/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03C14	01/13/89	pH	7.60000	S.U.
03C14	01/13/89	SPECIFIC CONDUCTANCE	582.00000	umho/cm
03C14	01/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C14	01/13/89	MANGANESE	0.24000	mg/L
03C14	01/13/89	SODIUM	18.00000	mg/L
03C14	01/13/89	SULFATE	70.00000	mg/L
03C14	01/13/89	CHLORIDE	8.00000	mg/L
03C14	01/13/89	BICARBONATE	647.00000	mg/L
03C14	01/13/89	CALCIUM	106.00000	mg/L
03C14	01/13/89	MAGNESIUM	24.40000	mg/L
03C14	01/13/89	POTASSIUM	1.70000	mg/L
03C14	01/13/89	BARIUM, TOTAL	0.05000	mg/L
03C14	01/13/89	FLUORIDE, TOTAL	0.53000	mg/L
03C14	01/13/89	NITRATE-N	0.46000	mg/L
03C14	01/13/89	COLIFORM	0.00000	TC/.1L
03C14	04/12/89	pH	7.30000	S.U.
03C14	04/12/89	SPECIFIC CONDUCTANCE	595.00000	umho/cm
03C14	04/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C14	04/12/89	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C14	04/12/89	MANGANESE	0.05000	mg/L
03C14	04/12/89	SODIUM	12.00000	mg/L
03C14	04/12/89	CALCIUM	94.00000	mg/L
03C14	04/12/89	MAGNESIUM	20.00000	mg/L
03C14	04/12/89	POTASSIUM	1.50000	mg/L
03C14	04/12/89	SULFATE	74.00000	mg/L
03C14	04/12/89	CHLORIDE	5.00000	mg/L
03C14	04/12/89	BICARBONATE	333.00000	mg/L
03C14	04/12/89	FLUORIDE, TOTAL	0.17000	mg/L
03C14	04/12/89	NITRATE-N	0.25000	mg/L
03C14	04/12/89	COLIFORM	0.00000	TC/.1L
03C14	04/12/89	TRICHLOROETHYLENE	0.05000	mg/L
03C14	07/15/89	pH	7.20000	S.U.
03C14	07/15/89	SPECIFIC CONDUCTANCE	613.00000	umho/cm
03C14	07/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C14	07/15/89	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C14	07/15/89	IRON, TOTAL	0.10000	mg/L
03C14	07/15/89	MANGANESE	0.03000	mg/L
03C14	07/15/89	SODIUM	4.00000	mg/L
03C14	07/15/89	CALCIUM	56.00000	mg/L
03C14	07/15/89	MAGNESIUM	11.00000	mg/L
03C14	07/15/89	POTASSIUM	1.10000	mg/L
03C14	07/15/89	SULFATE	66.00000	mg/L
03C14	07/15/89	CHLORIDE	12.00000	mg/L
03C14	07/15/89	BICARBONATE	292.00000	mg/L
03C14	07/15/89	AMMONIA-NITROGEN	0.12000	mg/L
03C14	07/15/89	FLUORIDE, TOTAL	0.14000	mg/L
03C14	07/15/89	NITRATE-N	0.56000	mg/L
03C14	07/15/89	COLIFORM	0.00000	TC/.1L
03C14	07/15/89	TRICHLOROETHYLENE	0.02400	mg/L

03C14	10/21/89	pH	7.60000	S.U.
03C14	10/21/89	SPECIFIC CONDUCTANCE	520.00000	umho/cm
03C14	10/21/89	CALCIUM	73.00000	mg/L
03C14	10/21/89	MAGNESIUM	15.00000	mg/L
03C14	10/21/89	POTASSIUM	1.30000	mg/L
03C14	10/21/89	BICARBONATE	351.00000	mg/L
03C14	10/21/89	AMMONIA-NITROGEN	0.35000	mg/L
03C14	10/21/89	TRICHLOROETHYLENE	0.05000	mg/L
03C14	01/27/90	pH	7.80000	S.U.
03C14	01/27/90	SPECIFIC CONDUCTANCE	571.00000	umho/cm
03C14	01/27/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C14	01/27/90	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C14	01/27/90	MANGANESE	0.09200	mg/L
03C14	01/27/90	SODIUM	13.00000	mg/L
03C14	01/27/90	CALCIUM	106.00000	mg/L
03C14	01/27/90	MAGNESIUM	21.00000	mg/L
03C14	01/27/90	POTASSIUM	2.00000	mg/L
03C14	01/27/90	SULFATE	44.00000	mg/L
03C14	01/27/90	CHLORIDE	14.00000	mg/L
03C14	01/27/90	BICARBONATE	281.00000	mg/L
03C14	01/27/90	AMMONIA-NITROGEN	0.20000	mg/L
03C14	01/27/90	TRICHLOROETHYLENE	0.01300	mg/L
03C14	04/24/90	pH	7.30000	S.U.
03C14	04/24/90	SPECIFIC CONDUCTANCE	575.00000	umho/cm
03C14	04/24/90	IRON, TOTAL	0.17000	mg/L
03C14	04/24/90	CALCIUM	105.00000	mg/L
03C14	04/24/90	MAGNESIUM	24.00000	mg/L
03C14	04/24/90	POTASSIUM	2.00000	mg/L
03C14	04/24/90	BICARBONATE	360.00000	mg/L
03C14	07/14/90	pH	7.40000	S.U.
03C14	07/14/90	SPECIFIC CONDUCTANCE	608.00000	umho/cm
03C14	07/14/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03C14	07/14/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C14	07/14/90	IRON, TOTAL	0.07000	mg/L
03C14	07/14/90	SODIUM	12.00000	mg/L
03C14	07/14/90	CALCIUM	93.00000	mg/L
03C14	07/14/90	MAGNESIUM	20.00000	mg/L
03C14	07/14/90	POTASSIUM	1.00000	mg/L
03C14	07/14/90	BICARBONATE	329.00000	mg/L
03C14	10/16/90	pH	7.10000	S.U.
03C14	10/16/90	SPECIFIC CONDUCTANCE	455.00000	umho/cm
03C14	10/16/90	SODIUM	15.00000	mg/L
03C14	10/16/90	CALCIUM	101.00000	mg/L
03C14	10/16/90	MAGNESIUM	22.00000	mg/L
03C14	10/16/90	POTASSIUM	1.00000	mg/L
03C14	01/16/91	pH	7.37000	S.U.
03C14	01/16/91	SPECIFIC CONDUCTANCE	530.00000	umho/cm
03C14	01/16/91	TOTAL ORGANIC CARBON	1.69000	mg/L
03C14	01/16/91	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C14	01/16/91	MANGANESE	0.07000	mg/L
03C14	01/16/91	SODIUM	13.00000	mg/L
03C14	01/16/91	CALCIUM	72.00000	mg/L
03C14	01/16/91	MAGNESIUM	24.00000	mg/L
03C14	01/16/91	POTASSIUM	2.00000	mg/L
03C14	01/16/91	SULFATE	66.00000	mg/L
03C14	01/16/91	CHLORIDE	16.00000	mg/L
03C14	01/16/91	BICARBONATE	341.00000	mg/L
03C14	01/16/91	TRICHLOROETHYLENE	0.00300	mg/L
03C14	04/03/91	pH	7.13000	S.U.
03C14	04/03/91	SPECIFIC CONDUCTANCE	539.00000	umho/cm

03C14	04/03/91	CALCIUM	87.30000	mg/L
03C14	04/03/91	MAGNESIUM	17.90000	mg/L
03C14	04/03/91	POTASSIUM	1.50000	mg/L
03C14	04/03/91	BICARBONATE	341.00000	mg/L
03C14	04/03/91	AMMONIA-NITROGEN	0.19000	mg/L
03C14	07/09/91	pH	7.10000	S.U.
03C14	07/09/91	SPECIFIC CONDUCTANCE	554.00000	umho/cm
03C14	07/09/91	TOTAL ORGANIC CARBON	0.79000	mg/L
03C14	07/09/91	MANGANESE	0.05000	mg/L
03C14	07/09/91	SODIUM	10.30000	mg/L
03C14	07/09/91	CALCIUM	79.30000	mg/L
03C14	07/09/91	MAGNESIUM	16.80000	mg/L
03C14	07/09/91	POTASSIUM	0.10000	mg/L
03C14	07/09/91	BICARBONATE	365.00000	mg/L
03C14	07/09/91	TRICHLOROETHENE	0.00600	mg/L
03C14	10/05/91	pH	6.90000	S.U.
03C14	10/05/91	SPECIFIC CONDUCTANCE	513.00000	umho/cm
03C14	10/05/91	SODIUM	6.30000	mg/L
03C14	10/05/91	AMMONIA-NITROGEN	0.07000	mg/L
03C14	10/05/91	BICARBONATE	354.00000	mg/L
03C14	10/05/91	CALCIUM	71.10000	mg/L
03C14	10/05/91	MAGNESIUM	16.90000	mg/L
03C14	10/05/91	POTASSIUM	10.20000	mg/L
03C14	01/02/92	pH	7.30000	S.U.
03C14	01/02/92	SPECIFIC CONDUCTANCE	528.00000	umho/cm
03C14	01/02/92	TOTAL ORGANIC CARBON	1.37000	mg/L
03C14	01/02/92	IRON, TOTAL	0.15000	mg/L
03C14	01/02/92	MANGANESE	0.08100	mg/L
03C14	01/02/92	SODIUM	9.20000	mg/L
03C14	01/02/92	CALCIUM	86.70000	mg/L
03C14	01/02/92	MAGNESIUM	17.60000	mg/L
03C14	01/02/92	POTASSIUM	2.50000	mg/L
03C14	01/02/92	SULFATE	12.00000	mg/L
03C14	01/02/92	CHLORIDE	13.00000	mg/L
03C14	01/02/92	BICARBONATE	353.00000	mg/L
03C14	01/02/92	pH	7.60000	S.U.
03C14	01/02/92	SPECIFIC CONDUCTANCE	689.00000	umho/cm
03C14	01/02/92	TOTAL ORGANIC CARBON	1.86000	mg/L
03C14	01/02/92	IRON, TOTAL	0.15000	mg/L
03C14	01/02/92	MANGANESE	0.08100	mg/L
03C14	01/02/92	SODIUM	9.20000	mg/L
03C14	01/02/92	CALCIUM	86.70000	mg/L
03C14	01/02/92	MAGNESIUM	17.60000	mg/L
03C14	01/02/92	POTASSIUM	2.50000	mg/L
03C14	01/02/92	SULFATE	62.00000	mg/L
03C14	01/02/92	CHLORIDE	12.00000	mg/L
03C14	01/02/92	BICARBONATE	353.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C15	10/30/87	pH	7.32000	S.U.
03C15	10/30/87	SPECIFIC CONDUCTANCE	629.00000	umho/cm
03C15	10/30/87	TOTAL ORGANIC CARBON	6.00000	mg/L
03C15	10/30/87	MANGANESE	0.06000	mg/L
03C15	10/30/87	SODIUM	12.00000	mg/L
03C15	10/30/87	SULFATE	70.00000	mg/L
03C15	10/30/87	CHLORIDE	14.00000	mg/L
03C15	10/30/87	CADMIUM, TOTAL	0.03000	mg/L
03C15	10/30/87	FLUORIDE, TOTAL	0.10000	mg/L
03C15	10/30/87	RADIUM, TOTAL	0.50000	pCi/l
03C15	10/30/87	GROSS ALPHA	0.30000	pCi/l
03C15	10/30/87	GROSS BETA	3.60000	mlrem/y
03C15	02/02/88	pH	7.60000	S.U.
03C15	02/02/88	SPECIFIC CONDUCTANCE	599.00000	umho/cm
03C15	02/02/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C15	02/02/88	TOTAL ORGANIC HALOGENS	0.02400	mg/L
03C15	02/02/88	IRON, TOTAL	0.06000	mg/L
03C15	02/02/88	MANGANESE	0.04000	mg/L
03C15	02/02/88	SODIUM	13.00000	mg/L
03C15	02/02/88	SULFATE	80.00000	mg/L
03C15	02/02/88	CHLORIDE	9.00000	mg/L
03C15	02/02/88	FLUORIDE, TOTAL	0.28000	mg/L
03C15	02/02/88	RADIUM, TOTAL	0.80000	pCi/l
03C15	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C15	02/02/88	GROSS BETA	0.00000	mlrem/y
03C15	02/02/88	COLIFORM	0.00000	#/100ml
03C15	04/23/88	pH	7.18000	S.U.
03C15	04/23/88	SPECIFIC CONDUCTANCE	736.00000	umho/cm
03C15	04/23/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C15	04/23/88	IRON, TOTAL	0.02000	mg/L
03C15	04/23/88	MANGANESE	0.03000	mg/L
03C15	04/23/88	SODIUM	15.00000	mg/L
03C15	04/23/88	SULFATE	90.00000	mg/L
03C15	04/23/88	CHLORIDE	4.00000	mg/L
03C15	04/23/88	FLUORIDE, TOTAL	0.33000	mg/L
03C15	04/23/88	RADIUM, TOTAL	0.20000	mg/L
03C15	04/23/88	GROSS ALPHA	0.00000	mg/L
03C15	04/23/88	GROSS BETA	1.90000	mg/L
03C15	04/23/88	COLIFORM	0.00000	#/100ml
03C15	07/22/88	pH	7.30000	S.U.
03C15	07/22/88	SPECIFIC CONDUCTANCE	669.00000	umho/cm
03C15	07/22/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C15	07/22/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C15	10/24/88	pH	7.20000	S.U.
03C15	10/24/88	SPECIFIC CONDUCTANCE	5336.00000	umho/cm
03C15	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C15	10/24/88	MANGANESE	0.04000	mg/L
03C15	10/24/88	SODIUM	19.00000	mg/L
03C15	10/24/88	SULFATE	95.00000	mg/L
03C15	10/24/88	CHLORIDE	8.00000	mg/L
03C15	10/24/88	BICARBONATE	549.00000	mg/L
03C15	10/24/88	CALCIUM	78.00000	mg/L
03C15	10/24/88	MAGNESIUM	29.00000	mg/L
03C15	10/24/88	POTASSIUM	2.00000	mg/L
03C15	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C15	10/24/88	GROSS BETA	4.00000	pcu/L
03C15	10/24/88	COLIFORM	0.00000	TC/.1L
03C15	10/24/88	1,1,1-TRICHLOROETHANE	0.33000	mg/L

03C15	10/24/88	TRICHLOROETHYLENE	0.64000	mg/L
03C15	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.15000	mg/L
03C15	01/13/89	pH	7.00000	S.U.
03C15	01/13/89	SPECIFIC CONDUCTANCE	632.00000	umho/cm
03C15	01/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C15	01/13/89	IRON, TOTAL	0.17000	mg/L
03C15	01/13/89	MANGANESE	0.03000	mg/L
03C15	01/13/89	SODIUM	13.00000	mg/L
03C15	01/13/89	SULFATE	105.00000	mg/L
03C15	01/13/89	CHLORIDE	8.00000	mg/L
03C15	01/13/89	BICARBONATE	574.00000	mg/L
03C15	01/13/89	CALCIUM	98.00000	mg/L
03C15	01/13/89	MAGNESIUM	34.00000	mg/L
03C15	01/13/89	POTASSIUM	1.70000	mg/L
03C15	01/13/89	FLUORIDE, TOTAL	0.53000	mg/L
03C15	01/13/89	COLIFORM	10.00000	TC/.1L
03C15	04/13/89	pH	7.30000	S.U.
03C15	04/13/89	SPECIFIC CONDUCTANCE	640.00000	umho/cm
03C15	04/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C15	04/13/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C15	04/13/89	IRON, TOTAL	0.13000	mg/L
03C15	04/13/89	MANGANESE	0.02000	mg/L
03C15	04/13/89	SODIUM	14.00000	mg/L
03C15	04/13/89	CALCIUM	93.00000	mg/L
03C15	04/13/89	MAGNESIUM	33.00000	mg/L
03C15	04/13/89	POTASSIUM	2.50000	mg/L
03C15	04/13/89	SULFATE	88.00000	mg/L
03C15	04/13/89	CHLORIDE	11.00000	mg/L
03C15	04/13/89	BICARBONATE	353.00000	mg/L
03C15	04/13/89	FLUORIDE, TOTAL	0.17000	mg/L
03C15	04/13/89	NITRATE-N	0.17000	mg/L
03C15	04/13/89	COLIFORM	0.00000	TC/.1L
03C15	04/13/89	TRICHLOROETHYLENE	0.00700	mg/L
03C15	07/13/89	pH	7.10000	S.U.
03C15	07/13/89	SPECIFIC CONDUCTANCE	788.00000	umho/cm
03C15	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C15	07/13/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C15	07/13/89	IRON, TOTAL	0.23000	mg/L
03C15	07/13/89	MANGANESE	0.02300	mg/L
03C15	07/13/89	SODIUM	9.00000	mg/L
03C15	07/13/89	CALCIUM	76.00000	mg/L
03C15	07/13/89	MAGNESIUM	26.00000	mg/L
03C15	07/13/89	POTASSIUM	2.00000	mg/L
03C15	07/13/89	SULFATE	140.00000	mg/L
03C15	07/13/89	CHLORIDE	11.00000	mg/L
03C15	07/13/89	BICARBONATE	371.00000	mg/L
03C15	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L
03C15	07/13/89	COLIFORM	0.00000	TC/.1L
03C15	10/20/89	pH	7.20000	S.U.
03C15	10/20/89	SPECIFIC CONDUCTANCE	770.00000	umho/cm
03C15	10/20/89	IRON, TOTAL	0.10000	mg/L
03C15	10/20/89	CALCIUM	74.00000	mg/L
03C15	10/20/89	MAGNESIUM	25.00000	mg/L
03C15	10/20/89	POTASSIUM	1.70000	mg/L
03C15	10/20/89	BICARBONATE	429.00000	mg/L
03C15	01/27/90	pH	7.40000	S.U.
03C15	01/27/90	SPECIFIC CONDUCTANCE	659.00000	umho/cm
03C15	01/27/90	TOTAL ORGANIC CARBON	1.20000	mg/L
03C15	01/27/90	MANGANESE	0.03100	mg/L
03C15	01/27/90	SODIUM	16.00000	mg/L

03C15	01/27/90	CALCIUM	94.00000	mg/L
03C15	01/27/90	MAGNESIUM	34.00000	mg/L
03C15	01/27/90	POTASSIUM	1.00000	mg/L
03C15	01/27/90	SULFATE	160.00000	mg/L
03C15	01/27/90	CHLORIDE	12.00000	mg/L
03C15	01/27/90	BICARBONATE	317.00000	mg/L
03C15	04/20/90	pH	7.50000	S.U.
03C15	04/20/90	SPECIFIC CONDUCTANCE	653.00000	umho/cm
03C15	04/20/90	IRON, TOTAL	0.51000	mg/L
03C15	04/20/90	CALCIUM	98.00000	mg/L
03C15	04/20/90	MAGNESIUM	40.00000	mg/L
03C15	04/20/90	POTASSIUM	2.00000	mg/L
03C15	04/20/90	BICARBONATE	419.00000	mg/L
03C15	07/13/90	pH	7.40000	S.U.
03C15	07/13/90	SPECIFIC CONDUCTANCE	755.00000	umho/cm
03C15	07/13/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03C15	07/13/90	IRON, TOTAL	0.26000	mg/L
03C15	07/13/90	SODIUM	17.00000	mg/L
03C15	07/13/90	CALCIUM	95.00000	mg/L
03C15	07/13/90	MAGNESIUM	35.00000	mg/L
03C15	07/13/90	POTASSIUM	2.00000	mg/L
03C15	07/13/90	BICARBONATE	359.00000	mg/L
03C15	10/17/90	pH	7.40000	S.U.
03C15	10/17/90	SPECIFIC CONDUCTANCE	445.00000	umho/cm
03C15	10/17/90	SODIUM	21.00000	mg/L
03C15	10/17/90	CALCIUM	102.00000	mg/L
03C15	10/17/90	MAGNESIUM	38.00000	mg/L
03C15	10/17/90	POTASSIUM	1.00000	mg/L
03C15	01/15/91	pH	7.21000	S.U.
03C15	01/15/91	SPECIFIC CONDUCTANCE	703.00000	umho/cm
03C15	01/15/91	TOTAL ORGANIC CARBON	0.52000	mg/L
03C15	01/15/91	MANGANESE	0.04000	mg/L
03C15	01/15/91	SODIUM	14.00000	mg/L
03C15	01/15/91	CALCIUM	67.00000	mg/L
03C15	01/15/91	MAGNESIUM	40.00000	mg/L
03C15	01/15/91	POTASSIUM	3.00000	mg/L
03C15	01/15/91	SULFATE	125.00000	mg/L
03C15	01/15/91	CHLORIDE	13.00000	mg/L
03C15	01/15/91	BICARBONATE	347.00000	mg/L
03C15	04/05/91	pH	7.07000	S.U.
03C15	04/05/91	SPECIFIC CONDUCTANCE	724.00000	umho/cm
03C15	04/05/91	CALCIUM	97.20000	mg/L
03C15	04/05/91	MAGNESIUM	40.10000	mg/L
03C15	04/05/91	POTASSIUM	1.90000	mg/L
03C15	04/05/91	BICARBONATE	383.00000	mg/L
03C15	04/05/91	AMMONIA-NITROGEN	0.14000	mg/L
03C15	07/10/91	pH	7.08000	S.U.
03C15	07/10/91	SPECIFIC CONDUCTANCE	690.00000	umho/cm
03C15	07/10/91	TOTAL ORGANIC CARBON	0.63000	mg/L
03C15	07/10/91	IRON, TOTAL	0.46000	mg/L
03C15	07/10/91	MANGANESE	0.03000	mg/L
03C15	07/10/91	SODIUM	18.70000	mg/L
03C15	07/10/91	CALCIUM	90.30000	mg/L
03C15	07/10/91	MAGNESIUM	34.80000	mg/L
03C15	07/10/91	POTASSIUM	1.40000	mg/L
03C15	07/10/91	BICARBONATE	436.00000	mg/L
03C15	10/05/91	pH	6.90000	S.U.
03C15	10/05/91	SPECIFIC CONDUCTANCE	661.00000	umho/cm
03C15	10/05/91	SODIUM	17.60000	mg/L
03C15	10/05/91	BICARBONATE	384.00000	mg/L

03C15	10/05/91	CALCIUM	91.60000	mg/L
03C15	10/05/91	MAGNESIUM	37.80000	mg/L
03C15	10/05/91	POTASSIUM	35.90000	mg/L
03C15	01/06/92	pH	7.00000	S.U.
03C15	01/06/92	SPECIFIC CONDUCTANCE	560.00000	umho/cm
03C15	01/06/92	TOTAL ORGANIC CARBON	1.43000	mg/L
03C15	01/06/92	MANGANESE	0.03300	mg/L
03C15	01/06/92	SODIUM	18.60000	mg/L
03C15	01/06/92	CALCIUM	93.10000	mg/L
03C15	01/06/92	MAGNESIUM	37.30000	mg/L
03C15	01/06/92	POTASSIUM	2.10000	mg/L
03C15	01/06/92	SULFATE	100.00000	mg/L
03C15	01/06/92	CHLORIDE	20.00000	mg/L
03C15	01/06/92	BICARBONATE	353.00000	mg/L
03C15	01/06/92	AMMONIA-NITROGEN	0.12000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C16	11/17/87	pH	8.86000	S.U.
03C16	11/17/87	SPECIFIC CONDUCTANCE	569.00000	umho/cm
03C16	11/17/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03C16	11/17/87	TOTAL ORGANIC HALOGENS	0.01200	mg/L
03C16	11/17/87	SODIUM	71.00000	mg/L
03C16	11/17/87	SULFATE	43.00000	mg/L
03C16	11/17/87	CHLORIDE	15.00000	mg/L
03C16	11/17/87	FLUORIDE, TOTAL	0.16000	mg/L
03C16	11/17/87	RADIUM, TOTAL	0.10000	pCi/l
03C16	11/17/87	GROSS ALPHA	0.30000	pCi/l
03C16	11/17/87	GROSS BETA	3.50000	mlrem/y
03C16	11/17/87	METHYLENE CHLORIDE	0.00400	mg/L
03C16	11/17/87	1,1-DICHLOROETHENE	0.00300	mg/L
03C16	02/04/88	pH	7.44000	S.U.
03C16	02/04/88	SPECIFIC CONDUCTANCE	669.00000	umho/cm
03C16	02/04/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C16	02/04/88	IRON, TOTAL	0.09000	mg/L
03C16	02/04/88	MANGANESE	0.03000	mg/L
03C16	02/04/88	SODIUM	14.00000	mg/L
03C16	02/04/88	SULFATE	74.00000	mg/L
03C16	02/04/88	CHLORIDE	12.00000	mg/L
03C16	02/04/88	FLUORIDE, TOTAL	0.18000	mg/L
03C16	02/04/88	NITRATE-N	1.00000	mg/L
03C16	02/04/88	RADIUM, TOTAL	0.30000	pCi/l
03C16	02/04/88	GROSS ALPHA	0.00000	pCi/l
03C16	02/04/88	GROSS BETA	0.00000	mlrem/y
03C16	02/04/88	COLIFORM	0.00000	#/100ml
03C16	04/22/88	pH	7.18000	S.U.
03C16	04/22/88	SPECIFIC CONDUCTANCE	701.00000	umho/cm
03C16	04/22/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C16	04/22/88	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C16	04/22/88	IRON, TOTAL	0.12000	mg/L
03C16	04/22/88	MANGANESE	0.04000	mg/L
03C16	04/22/88	SODIUM	12.00000	mg/L
03C16	04/22/88	SULFATE	77.00000	mg/L
03C16	04/22/88	CHLORIDE	5.00000	mg/L
03C16	04/22/88	FLUORIDE, TOTAL	0.27000	mg/L
03C16	04/22/88	RADIUM, TOTAL	0.40000	mg/L
03C16	04/22/88	GROSS ALPHA	0.20000	mg/L
03C16	04/22/88	GROSS BETA	0.20000	mg/L
03C16	04/22/88	COLIFORM	0.00000	#/100ml
03C16	04/22/88	TRICHLOROETHYLENE	0.05300	mg/L
03C16	08/01/88	pH	7.00000	S.U.
03C16	08/01/88	SPECIFIC CONDUCTANCE	661.00000	umho/cm
03C16	08/01/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C16	10/24/88	pH	7.40000	S.U.
03C16	10/24/88	SPECIFIC CONDUCTANCE	541.00000	umho/cm
03C16	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C16	10/24/88	MANGANESE	0.03000	mg/L
03C16	10/24/88	SODIUM	5.00000	mg/L
03C16	10/24/88	SULFATE	95.00000	mg/L
03C16	10/24/88	CHLORIDE	6.00000	mg/L
03C16	10/24/88	BICARBONATE	610.00000	mg/L
03C16	10/24/88	CALCIUM	86.00000	mg/L
03C16	10/24/88	MAGNESIUM	20.00000	mg/L
03C16	10/24/88	POTASSIUM	2.00000	mg/L
03C16	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C16	10/24/88	GROSS BETA	0.00000	pcu/L

03C16	10/24/88	COLIFORM	0.00000	TC/.1L
03C16	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.09000	mg/L
03C16	01/17/89	pH	6.60000	S.U.
03C16	01/17/89	SPECIFIC CONDUCTANCE	619.00000	umho/cm
03C16	01/17/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C16	01/17/89	IRON, TOTAL	0.18000	mg/L
03C16	01/17/89	MANGANESE	0.05000	mg/L
03C16	01/17/89	SODIUM	14.00000	mg/L
03C16	01/17/89	SULFATE	105.00000	mg/L
03C16	01/17/89	CHLORIDE	6.00000	mg/L
03C16	01/17/89	BICARBONATE	592.00000	mg/L
03C16	01/17/89	CALCIUM	106.00000	mg/L
03C16	01/17/89	MAGNESIUM	23.00000	mg/L
03C16	01/17/89	POTASSIUM	1.70000	mg/L
03C16	01/17/89	BARIUM, TOTAL	0.05000	mg/L
03C16	01/17/89	FLUORIDE, TOTAL	0.53000	mg/L
03C16	01/17/89	NITRATE-N	4.60000	mg/L
03C16	01/17/89	COLIFORM	0.00000	TC/.1L
03C16	04/12/89	pH	7.30000	S.U.
03C16	04/12/89	SPECIFIC CONDUCTANCE	641.00000	umho/cm
03C16	04/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C16	04/12/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C16	04/12/89	IRON, TOTAL	0.17000	mg/L
03C16	04/12/89	MANGANESE	0.03000	mg/L
03C16	04/12/89	SODIUM	7.50000	mg/L
03C16	04/12/89	CALCIUM	101.00000	mg/L
03C16	04/12/89	MAGNESIUM	22.00000	mg/L
03C16	04/12/89	POTASSIUM	2.50000	mg/L
03C16	04/12/89	SULFATE	94.00000	mg/L
03C16	04/12/89	CHLORIDE	10.00000	mg/L
03C16	04/12/89	BICARBONATE	313.00000	mg/L
03C16	04/12/89	FLUORIDE, TOTAL	0.17000	mg/L
03C16	04/12/89	NITRATE-N	0.24000	mg/L
03C16	04/12/89	COLIFORM	0.00000	TC/.1L
03C16	04/12/89	TRICHLOROETHYLENE	0.02000	mg/L
03C16	07/15/89	pH	7.20000	S.U.
03C16	07/15/89	SPECIFIC CONDUCTANCE	686.00000	umho/cm
03C16	07/15/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C16	07/15/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C16	07/15/89	SODIUM	8.50000	mg/L
03C16	07/15/89	CALCIUM	95.00000	mg/L
03C16	07/15/89	MAGNESIUM	14.00000	mg/L
03C16	07/15/89	POTASSIUM	5.00000	mg/L
03C16	07/15/89	SULFATE	72.00000	mg/L
03C16	07/15/89	CHLORIDE	16.00000	mg/L
03C16	07/15/89	BICARBONATE	390.00000	mg/L
03C16	07/15/89	FLUORIDE, TOTAL	0.20000	mg/L
03C16	07/15/89	NITRATE-N	0.10000	mg/L
03C16	07/15/89	COLIFORM	0.00000	TC/.1L
03C16	07/15/89	TRICHLOROETHYLENE	0.00100	mg/L
03C16	10/20/89	pH	7.40000	S.U.
03C16	10/20/89	SPECIFIC CONDUCTANCE	676.00000	umho/cm
03C16	10/20/89	CALCIUM	68.00000	mg/L
03C16	10/20/89	MAGNESIUM	16.00000	mg/L
03C16	10/20/89	POTASSIUM	3.80000	mg/L
03C16	10/20/89	BICARBONATE	195.00000	mg/L
03C16	10/20/89	AMMONIA-NITROGEN	0.31000	mg/L
03C16	01/27/90	pH	7.50000	S.U.
03C16	01/27/90	SPECIFIC CONDUCTANCE	628.00000	umho/cm
03C16	01/27/90	TOTAL ORGANIC CARBON	2.30000	mg/L

03C16	01/27/90	SODIUM	32.00000	mg/L
03C16	01/27/90	CALCIUM	85.00000	mg/L
03C16	01/27/90	MAGNESIUM	23.00000	mg/L
03C16	01/27/90	POTASSIUM	3.00000	mg/L
03C16	01/27/90	SULFATE	50.00000	mg/L
03C16	01/27/90	CHLORIDE	15.00000	mg/L
03C16	01/27/90	BICARBONATE	390.00000	mg/L
03C16	01/27/90	AMMONIA-NITROGEN	0.80000	mg/L
03C16	04/24/90	pH	7.20000	S.U.
03C16	04/24/90	SPECIFIC CONDUCTANCE	608.00000	umho/cm
03C16	04/24/90	CALCIUM	79.00000	mg/L
03C16	04/24/90	MAGNESIUM	20.00000	mg/L
03C16	04/24/90	POTASSIUM	4.00000	mg/L
03C16	04/24/90	BICARBONATE	412.00000	mg/L
03C16	04/24/90	TRICHLOROETHYLENE	0.01400	mg/L
03C16	07/14/90	pH	7.40000	S.U.
03C16	07/14/90	SPECIFIC CONDUCTANCE	626.00000	umho/cm
03C16	07/14/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C16	07/14/90	SODIUM	9.00000	mg/L
03C16	07/14/90	CALCIUM	101.00000	mg/L
03C16	07/14/90	MAGNESIUM	22.00000	mg/L
03C16	07/14/90	POTASSIUM	2.00000	mg/L
03C16	07/14/90	BICARBONATE	332.00000	mg/L
03C16	10/17/90	pH	7.10000	S.U.
03C16	10/17/90	SPECIFIC CONDUCTANCE	606.00000	umho/cm
03C16	10/17/90	AMMONIA-NITROGEN	0.14000	mg/L
03C16	01/14/91	pH	7.26000	S.U.
03C16	01/14/91	SPECIFIC CONDUCTANCE	588.00000	umho/cm
03C16	01/14/91	TOTAL ORGANIC CARBON	1.50000	mg/L
03C16	01/14/91	MANGANESE	0.03000	mg/L
03C16	01/14/91	SODIUM	7.00000	mg/L
03C16	01/14/91	CALCIUM	79.00000	mg/L
03C16	01/14/91	MAGNESIUM	27.00000	mg/L
03C16	01/14/91	POTASSIUM	2.00000	mg/L
03C16	01/14/91	SULFATE	78.00000	mg/L
03C16	01/14/91	CHLORIDE	9.00000	mg/L
03C16	01/14/91	BICARBONATE	353.00000	mg/L
03C16	04/03/91	pH	7.06000	S.U.
03C16	04/03/91	SPECIFIC CONDUCTANCE	566.00000	umho/cm
03C16	04/03/91	CALCIUM	927.00000	mg/L
03C16	04/03/91	MAGNESIUM	19.40000	mg/L
03C16	04/03/91	POTASSIUM	1.50000	mg/L
03C16	04/03/91	BICARBONATE	341.00000	mg/L
03C16	04/03/91	AMMONIA-NITROGEN	0.25000	mg/L
03C16	04/03/91	TRICHLOROETHYLENE	0.00600	mg/L
03C16	07/09/91	pH	7.03000	S.U.
03C16	07/09/91	SPECIFIC CONDUCTANCE	594.00000	umho/cm
03C16	07/09/91	TOTAL ORGANIC CARBON	0.66000	mg/L
03C16	07/09/91	IRON, TOTAL	0.09000	mg/L
03C16	07/09/91	MANGANESE	0.03000	mg/L
03C16	07/09/91	SODIUM	6.00000	mg/L
03C16	07/09/91	CALCIUM	81.00000	mg/L
03C16	07/09/91	MAGNESIUM	17.70000	mg/L
03C16	07/09/91	POTASSIUM	0.50000	mg/L
03C16	07/09/91	BICARBONATE	371.00000	mg/L
03C16	10/05/91	pH	7.03000	S.U.
03C16	10/05/91	SPECIFIC CONDUCTANCE	563.00000	umho/cm
03C16	10/05/91	SODIUM	5.80000	mg/L
03C16	10/05/91	AMMONIA-NITROGEN	0.06000	mg/L
03C16	10/05/91	BICARBONATE	348.00000	mg/L

03C16	10/05/91	CALCIUM	91.20000	mg/L
03C16	10/05/91	MAGNESIUM	21.10000	mg/L
03C16	10/05/91	POTASSIUM	0.30000	mg/L
03C16	01/02/92	pH	7.30000	S.U.
03C16	01/02/92	SPECIFIC CONDUCTANCE	575.00000	umho/cm
03C16	01/02/92	TOTAL ORGANIC CARBON	0.92000	mg/L
03C16	01/02/92	IRON, TOTAL	0.27000	mg/L
03C16	01/02/92	MANGANESE	0.04400	mg/L
03C16	01/02/92	SODIUM	6.30000	mg/L
03C16	01/02/92	CALCIUM	101.00000	mg/L
03C16	01/02/92	MAGNESIUM	20.10000	mg/L
03C16	01/02/92	POTASSIUM	1.80000	mg/L
03C16	01/02/92	SULFATE	50.00000	mg/L
03C16	01/02/92	CHLORIDE	8.00000	mg/L
03C16	01/02/92	BICARBONATE	358.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C17	10/02/87	pH	6.66000	S.U.
03C17	10/02/87	SPECIFIC CONDUCTANCE	2810.00000	umho/cm
03C17	10/02/87	TOTAL ORGANIC CARBON	11.00000	mg/L
03C17	10/02/87	MANGANESE	0.65000	mg/L
03C17	10/02/87	SODIUM	192.00000	mg/L
03C17	10/02/87	SULFATE	1400.00000	mg/L
03C17	10/02/87	CHLORIDE	8.00000	mg/L
03C17	10/02/87	FLUORIDE, TOTAL	0.10000	mg/L
03C17	10/02/87	RADIUM, TOTAL	0.00000	pCi/l
03C17	10/02/87	GROSS ALPHA	0.00000	pCi/l
03C17	10/02/87	GROSS BETA	7.30000	mlrem/y
03C17	11/18/87	pH	6.70000	S.U.
03C17	11/18/87	SPECIFIC CONDUCTANCE	3110.00000	umho/cm
03C17	11/18/87	TOTAL ORGANIC CARBON	16.00000	mg/L
03C17	11/18/87	TOTAL ORGANIC HALOGENS	0.08400	mg/L
03C17	11/18/87	IRON, TOTAL	0.59000	mg/L
03C17	11/18/87	MANGANESE	1.00000	mg/L
03C17	11/18/87	SODIUM	175.00000	mg/L
03C17	11/18/87	SULFATE	1650.00000	mg/L
03C17	11/18/87	CHLORIDE	11.00000	mg/L
03C17	11/18/87	RADIUM, TOTAL	0.00000	pCi/l
03C17	11/18/87	GROSS ALPHA	0.00000	pCi/l
03C17	11/18/87	GROSS BETA	5.60000	mlrem/y
03C17	02/08/88	pH	7.34000	S.U.
03C17	02/08/88	SPECIFIC CONDUCTANCE	3260.00000	umho/cm
03C17	02/08/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C17	02/08/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C17	02/08/88	MANGANESE	1.90000	mg/L
03C17	02/08/88	SODIUM	210.00000	mg/L
03C17	02/08/88	SULFATE	1200.00000	mg/L
03C17	02/08/88	CHLORIDE	5.00000	mg/L
03C17	02/08/88	BARIUM, TOTAL	0.05000	mg/L
03C17	02/08/88	FLUORIDE, TOTAL	0.10000	mg/L
03C17	02/08/88	RADIUM, TOTAL	0.60000	pCi/l
03C17	02/08/88	GROSS ALPHA	14.00000	pCi/l
03C17	02/08/88	GROSS BETA	35.00000	mlrem/y
03C17	02/08/88	COLIFORM	157.00000	#/100ml
03C17	02/08/88	1,1,1-TRICHLOROETHANE	0.00500	mg/L
03C17	07/30/88	pH	7.00000	S.U.
03C17	07/30/88	SPECIFIC CONDUCTANCE	2710.00000	umho/cm
03C17	07/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C17	07/30/88	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C17	10/27/88	pH	7.80000	S.U.
03C17	10/27/88	SPECIFIC CONDUCTANCE	1990.00000	umho/cm
03C17	10/27/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C17	10/27/88	IRON, TOTAL	0.74000	mg/L
03C17	10/27/88	MANGANESE	1.08000	mg/L
03C17	10/27/88	SODIUM	339.00000	mg/L
03C17	10/27/88	SULFATE	1450.00000	mg/L
03C17	10/27/88	CHLORIDE	5.00000	mg/L
03C17	10/27/88	BICARBONATE	854.00000	mg/L
03C17	10/27/88	CALCIUM	184.00000	mg/L
03C17	10/27/88	MAGNESIUM	121.00000	mg/L
03C17	10/27/88	POTASSIUM	2.00000	mg/L
03C17	10/27/88	FLUORIDE, TOTAL	0.14000	mg/L
03C17	10/27/88	NITRATE-N	0.20000	mg/L
03C17	10/27/88	GROSS BETA	5.00000	pcu/L
03C17	10/27/88	COLIFORM	200.00000	TC/.1L

03C17	10/27/88	DI-N-BUTYL PHTHALATE	0.03000	mg/L
03C17	10/27/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.03000	mg/L
03C17	01/10/89	pH	7.40000	S.U.
03C17	01/10/89	SPECIFIC CONDUCTANCE	247.00000	umho/cm
03C17	01/10/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C17	01/10/89	MANGANESE	0.86000	mg/L
03C17	01/10/89	SODIUM	233.00000	mg/L
03C17	01/10/89	SULFATE	1300.00000	mg/L
03C17	01/10/89	CHLORIDE	5.00000	mg/L
03C17	01/10/89	AMMONIA-NITROGEN	0.34000	mg/L
03C17	01/10/89	BICARBONATE	934.00000	mg/L
03C17	01/10/89	CALCIUM	214.00000	mg/L
03C17	01/10/89	MAGNESIUM	123.00000	mg/L
03C17	01/10/89	POTASSIUM	11.00000	mg/L
03C17	01/10/89	FLUORIDE, TOTAL	0.53000	mg/L
03C17	01/10/89	NITRATE-N	0.56000	mg/L
03C17	01/10/89	COLIFORM	0.00000	TC/.1L
03C17	04/17/89	pH	7.10000	S.U.
03C17	04/17/89	SPECIFIC CONDUCTANCE	2270.00000	umho/cm
03C17	04/17/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C17	04/17/89	MANGANESE	0.18000	mg/L
03C17	04/17/89	SODIUM	129.00000	mg/L
03C17	04/17/89	CALCIUM	211.00000	mg/L
03C17	04/17/89	MAGNESIUM	129.00000	mg/L
03C17	04/17/89	POTASSIUM	6.00000	mg/L
03C17	04/17/89	SULFATE	1425.00000	mg/L
03C17	04/17/89	CHLORIDE	5.00000	mg/L
03C17	04/17/89	BICARBONATE	620.00000	mg/L
03C17	04/17/89	AMMONIA-NITROGEN	0.01000	mg/L
03C17	04/17/89	FLUORIDE, TOTAL	0.17000	mg/L
03C17	04/17/89	COLIFORM	15.00000	TC/.1L
03C17	04/17/89	TRICHLOROETHYLENE	0.00900	mg/L
03C17	07/10/89	pH	7.20000	S.U.
03C17	07/10/89	SPECIFIC CONDUCTANCE	2420.00000	umho/cm
03C17	07/10/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C17	07/10/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C17	07/10/89	MANGANESE	0.45000	mg/L
03C17	07/10/89	SODIUM	94.00000	mg/L
03C17	07/10/89	CALCIUM	169.00000	mg/L
03C17	07/10/89	MAGNESIUM	190.00000	mg/L
03C17	07/10/89	POTASSIUM	7.00000	mg/L
03C17	07/10/89	SULFATE	1200.00000	mg/L
03C17	07/10/89	CHLORIDE	12.00000	mg/L
03C17	07/10/89	BICARBONATE	586.00000	mg/L
03C17	07/10/89	AMMONIA-NITROGEN	0.15000	mg/L
03C17	07/10/89	FLUORIDE, TOTAL	0.14000	mg/L
03C17	07/10/89	COLIFORM	0.00000	TC/.1L
03C17	10/23/89	pH	7.30000	S.U.
03C17	10/23/89	SPECIFIC CONDUCTANCE	2050.00000	umho/cm
03C17	10/23/89	IRON, TOTAL	0.15000	mg/L
03C17	10/23/89	CALCIUM	152.00000	mg/L
03C17	10/23/89	MAGNESIUM	150.00000	mg/L
03C17	10/23/89	POTASSIUM	1.20000	mg/L
03C17	10/23/89	BICARBONATE	732.00000	mg/L
03C17	10/23/89	AMMONIA-NITROGEN	0.23000	mg/L
03C17	01/27/90	pH	7.50000	S.U.
03C17	01/27/90	SPECIFIC CONDUCTANCE	2150.00000	umho/cm
03C17	01/27/90	TOTAL ORGANIC CARBON	2.90000	mg/L
03C17	01/27/90	SODIUM	70.00000	mg/L
03C17	01/27/90	CALCIUM	92.00000	mg/L

03C17	01/27/90	MAGNESIUM	108.00000	mg/L
03C17	01/27/90	POTASSIUM	6.00000	mg/L
03C17	01/27/90	SULFATE	560.00000	mg/L
03C17	01/27/90	CHLORIDE	13.00000	mg/L
03C17	01/27/90	BICARBONATE	732.00000	mg/L
03C17	01/27/90	TRICHLOROETHYLENE	0.00200	mg/L
03C17	04/18/90	pH	7.50000	S.U.
03C17	04/18/90	SPECIFIC CONDUCTANCE	2110.00000	umho/cm
03C17	04/18/90	CALCIUM	168.00000	mg/L
03C17	04/18/90	MAGNESIUM	178.00000	mg/L
03C17	04/18/90	POTASSIUM	6.00000	mg/L
03C17	04/18/90	BICARBONATE	693.00000	mg/L
03C17	07/10/90	pH	7.10000	S.U.
03C17	07/10/90	SPECIFIC CONDUCTANCE	2280.00000	umho/cm
03C17	07/10/90	TOTAL ORGANIC CARBON	2.10000	mg/L
03C17	07/10/90	IRON, TOTAL	1.40000	mg/L
03C17	07/10/90	SODIUM	112.00000	mg/L
03C17	07/10/90	CALCIUM	209.00000	mg/L
03C17	07/10/90	MAGNESIUM	211.00000	mg/L
03C17	07/10/90	POTASSIUM	5.00000	mg/L
03C17	07/10/90	BICARBONATE	544.00000	mg/L
03C17	10/20/90	pH	7.30000	S.U.
03C17	10/20/90	SPECIFIC CONDUCTANCE	2420.00000	umho/cm
03C17	10/20/90	SODIUM	242.00000	mg/L
03C17	10/20/90	CALCIUM	124.00000	mg/L
03C17	10/20/90	MAGNESIUM	60.00000	mg/L
03C17	10/20/90	POTASSIUM	6.00000	mg/L
03C17	01/23/91	pH	7.27000	S.U.
03C17	01/23/91	SPECIFIC CONDUCTANCE	2010.00000	umho/cm
03C17	01/23/91	TOTAL ORGANIC CARBON	3.43000	mg/L
03C17	01/23/91	MANGANESE	0.33000	mg/L
03C17	01/23/91	SODIUM	136.00000	mg/L
03C17	01/23/91	CALCIUM	153.00000	mg/L
03C17	01/23/91	MAGNESIUM	231.00000	mg/L
03C17	01/23/91	POTASSIUM	8.00000	mg/L
03C17	01/23/91	SULFATE	1175.00000	mg/L
03C17	01/23/91	CHLORIDE	13.00000	mg/L
03C17	01/23/91	BICARBONATE	592.00000	mg/L
03C17	01/23/91	AMMONIA-NITROGEN	0.24000	mg/L
03C17	04/03/91	pH	7.03000	S.U.
03C17	04/03/91	SPECIFIC CONDUCTANCE	2060.00000	umho/cm
03C17	04/03/91	CALCIUM	175.00000	mg/L
03C17	04/03/91	MAGNESIUM	75.90000	mg/L
03C17	04/03/91	POTASSIUM	8.90000	mg/L
03C17	04/03/91	BICARBONATE	592.00000	mg/L
03C17	04/03/91	AMMONIA-NITROGEN	0.46000	mg/L
03C17	06/29/91	pH	7.12000	S.U.
03C17	06/29/91	SPECIFIC CONDUCTANCE	2120.00000	umho/cm
03C17	06/29/91	TOTAL ORGANIC CARBON	2.05000	mg/L
03C17	06/29/91	MANGANESE	0.10000	mg/L
03C17	06/29/91	SODIUM	114.00000	mg/L
03C17	06/29/91	CALCIUM	182.50000	mg/L
03C17	06/29/91	MAGNESIUM	210.00000	mg/L
03C17	06/29/91	POTASSIUM	3.00000	mg/L
03C17	06/29/91	BICARBONATE	604.00000	mg/L
03C17	06/29/91	AMMONIA-NITROGEN	0.25000	mg/L
03C17	09/27/91	pH	6.90000	S.U.
03C17	09/27/91	SPECIFIC CONDUCTANCE	2010.00000	umho/cm
03C17	09/27/91	SODIUM	136.90000	mg/L
03C17	09/27/91	AMMONIA-NITROGEN	0.11000	mg/L

03C17	09/27/91	BICARBONATE	342.00000	mg/L
03C17	09/27/91	CALCIUM	162.30000	mg/L
03C17	09/27/91	MAGNESIUM	147.20000	mg/L
03C17	09/27/91	POTASSIUM	16.60000	mg/L
03C17	12/31/91	pH	6.80000	S.U.
03C17	12/31/91	SPECIFIC CONDUCTANCE	2130.00000	umho/cm
03C17	12/31/91	TOTAL ORGANIC CARBON	1.67000	mg/L
03C17	12/31/91	IRON, TOTAL	0.09000	mg/L
03C17	12/31/91	MANGANESE	0.27700	mg/L
03C17	12/31/91	SODIUM	136.60000	mg/L
03C17	12/31/91	CALCIUM	176.50000	mg/L
03C17	12/31/91	MAGNESIUM	183.40000	mg/L
03C17	12/31/91	POTASSIUM	1.90000	mg/L
03C17	12/31/91	SULFATE	600.00000	mg/L
03C17	12/31/91	CHLORIDE	12.00000	mg/L
03C17	12/31/91	BICARBONATE	496.00000	mg/L
03C17	12/31/91	AMMONIA-NITROGEN	0.12000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C19	11/18/87	pH	8.00000	S.U.
03C19	11/18/87	SPECIFIC CONDUCTANCE	1059.00000	umho/cm
03C19	11/18/87	TOTAL ORGANIC CARBON	5.00000	mg/L
03C19	11/18/87	MANGANESE	0.16200	mg/L
03C19	11/18/87	SODIUM	66.00000	mg/L
03C19	11/18/87	SULFATE	350.00000	mg/L
03C19	11/18/87	CHLORIDE	13.00000	mg/L
03C19	11/18/87	CADMIUM, TOTAL	0.05000	mg/L
03C19	11/18/87	FLUORIDE, TOTAL	0.26000	mg/L
03C19	11/18/87	RADIUM, TOTAL	0.00000	pCi/l
03C19	11/18/87	GROSS ALPHA	0.50000	pCi/l
03C19	11/18/87	GROSS BETA	2.50000	mlrem/y
03C19	11/18/87	METHYLENE CHLORIDE	0.00200	mg/L
03C19	11/18/87	CHLOROFORM	0.00200	mg/L
03C19	01/30/88	pH	7.42000	S.U.
03C19	01/30/88	SPECIFIC CONDUCTANCE	1352.00000	umho/cm
03C19	01/30/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C19	01/30/88	MANGANESE	0.26000	mg/L
03C19	01/30/88	SODIUM	108.00000	mg/L
03C19	01/30/88	SULFATE	340.00000	mg/L
03C19	01/30/88	CHLORIDE	3.00000	mg/L
03C19	01/30/88	MERCURY, TOTAL	0.00400	mg/L
03C19	01/30/88	FLUORIDE, TOTAL	0.28000	mg/L
03C19	01/30/88	RADIUM, TOTAL	0.40000	pCi/l
03C19	01/30/88	GROSS ALPHA	0.00000	pCi/l
03C19	01/30/88	GROSS BETA	5.00000	mlrem/y
03C19	01/30/88	COLIFORM	0.00000	#/100ml
03C19	01/30/88	TRICHLOROETHYLENE	0.02100	mg/L
03C19	04/20/88	pH	7.10000	S.U.
03C19	04/20/88	SPECIFIC CONDUCTANCE	1618.00000	umho/cm
03C19	04/20/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C19	04/20/88	IRON, TOTAL	0.20000	mg/L
03C19	04/20/88	MANGANESE	0.29000	mg/L
03C19	04/20/88	SODIUM	62.00000	mg/L
03C19	04/20/88	SULFATE	475.00000	mg/L
03C19	04/20/88	CHLORIDE	2.00000	mg/L
03C19	04/20/88	FLUORIDE, TOTAL	0.47000	mg/L
03C19	04/20/88	RADIUM, TOTAL	0.60000	mg/L
03C19	04/20/88	GROSS ALPHA	0.00000	mg/L
03C19	04/20/88	GROSS BETA	1.10000	mg/L
03C19	04/20/88	COLIFORM	0.00000	#/100ml
03C19	10/27/88	pH	8.00000	S.U.
03C19	10/27/88	SPECIFIC CONDUCTANCE	1312.00000	umho/cm
03C19	10/27/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C19	10/27/88	MANGANESE	0.32000	mg/L
03C19	10/27/88	SODIUM	91.00000	mg/L
03C19	10/27/88	SULFATE	430.00000	mg/L
03C19	10/27/88	CHLORIDE	4.00000	mg/L
03C19	10/27/88	BICARBONATE	836.00000	mg/L
03C19	10/27/88	CALCIUM	166.00000	mg/L
03C19	10/27/88	MAGNESIUM	152.00000	mg/L
03C19	10/27/88	POTASSIUM	2.00000	mg/L
03C19	10/27/88	FLUORIDE, TOTAL	0.14000	mg/L
03C19	10/27/88	GROSS BETA	5.00000	pcu/L
03C19	10/27/88	COLIFORM	0.00000	TC/.1L
03C19	10/27/88	TRICHLOROETHYLENE	0.01000	mg/L
03C19	01/10/89	pH	6.70000	S.U.
03C19	01/10/89	SPECIFIC CONDUCTANCE	1586.00000	umho/cm

03C19	01/10/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C19	01/10/89	IRON, TOTAL	0.16000	mg/L
03C19	01/10/89	MANGANESE	0.30000	mg/L
03C19	01/10/89	SODIUM	75.00000	mg/L
03C19	01/10/89	SULFATE	650.00000	mg/L
03C19	01/10/89	CHLORIDE	5.00000	mg/L
03C19	01/10/89	AMMONIA-NITROGEN	0.10000	mg/L
03C19	01/10/89	BICARBONATE	976.00000	mg/L
03C19	01/10/89	CALCIUM	160.00000	mg/L
03C19	01/10/89	MAGNESIUM	142.00000	mg/L
03C19	01/10/89	POTASSIUM	5.00000	mg/L
03C19	01/10/89	FLUORIDE, TOTAL	0.72000	mg/L
03C19	01/10/89	COLIFORM	0.00000	TC/.1L
03C19	04/15/89	pH	7.00000	S.U.
03C19	04/15/89	SPECIFIC CONDUCTANCE	1660.00000	umho/cm
03C19	04/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C19	04/15/89	IRON, TOTAL	0.12000	mg/L
03C19	04/15/89	MANGANESE	0.21000	mg/L
03C19	04/15/89	SODIUM	62.00000	mg/L
03C19	04/15/89	CALCIUM	152.00000	mg/L
03C19	04/15/89	MAGNESIUM	130.00000	mg/L
03C19	04/15/89	POTASSIUM	6.00000	mg/L
03C19	04/15/89	SULFATE	620.00000	mg/L
03C19	04/15/89	CHLORIDE	14.00000	mg/L
03C19	04/15/89	BICARBONATE	499.00000	mg/L
03C19	04/15/89	AMMONIA-NITROGEN	0.10000	mg/L
03C19	04/15/89	FLUORIDE, TOTAL	0.52000	mg/L
03C19	07/15/89	pH	7.00000	S.U.
03C19	07/15/89	SPECIFIC CONDUCTANCE	1750.00000	umho/cm
03C19	07/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C19	07/15/89	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C19	07/15/89	SODIUM	6.00000	mg/L
03C19	07/15/89	CALCIUM	78.00000	mg/L
03C19	07/15/89	MAGNESIUM	27.00000	mg/L
03C19	07/15/89	POTASSIUM	2.00000	mg/L
03C19	07/15/89	SULFATE	700.00000	mg/L
03C19	07/15/89	CHLORIDE	15.00000	mg/L
03C19	07/15/89	BICARBONATE	537.00000	mg/L
03C19	07/15/89	FLUORIDE, TOTAL	0.16000	mg/L
03C19	07/15/89	COLIFORM	0.00000	TC/.1L
03C19	07/15/89	TRICHLOROETHYLENE	0.00800	mg/L
03C19	07/15/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03C19	10/23/89	pH	7.10000	S.U.
03C19	10/23/89	SPECIFIC CONDUCTANCE	1326.00000	umho/cm
03C19	10/23/89	CALCIUM	111.00000	mg/L
03C19	10/23/89	MAGNESIUM	96.00000	mg/L
03C19	10/23/89	POTASSIUM	3.80000	mg/L
03C19	10/23/89	BICARBONATE	498.00000	mg/L
03C19	01/31/90	pH	7.30000	S.U.
03C19	01/31/90	SPECIFIC CONDUCTANCE	1440.00000	umho/cm
03C19	01/31/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03C19	01/31/90	MANGANESE	0.32900	mg/L
03C19	01/31/90	SODIUM	51.00000	mg/L
03C19	01/31/90	CALCIUM	112.00000	mg/L
03C19	01/31/90	MAGNESIUM	49.00000	mg/L
03C19	01/31/90	POTASSIUM	6.00000	mg/L
03C19	01/31/90	SULFATE	370.00000	mg/L
03C19	01/31/90	CHLORIDE	10.00000	mg/L
03C19	01/31/90	BICARBONATE	479.00000	mg/L
03C19	04/24/90	pH	6.90000	S.U.

03C19	04/24/90	SPECIFIC CONDUCTANCE	1434.00000	umho/cm
03C19	04/24/90	CALCIUM	123.00000	mg/L
03C19	04/24/90	MAGNESIUM	104.00000	mg/L
03C19	04/24/90	POTASSIUM	4.00000	mg/L
03C19	04/24/90	BICARBONATE	586.00000	mg/L
03C19	07/18/90	pH	7.10000	S.U.
03C19	07/18/90	SPECIFIC CONDUCTANCE	1580.00000	umho/cm
03C19	07/18/90	TOTAL ORGANIC CARBON	3.20000	mg/L
03C19	07/18/90	IRON, TOTAL	0.32000	mg/L
03C19	07/18/90	SODIUM	61.00000	mg/L
03C19	07/18/90	CALCIUM	151.00000	mg/L
03C19	07/18/90	MAGNESIUM	136.00000	mg/L
03C19	07/18/90	POTASSIUM	4.00000	mg/L
03C19	07/18/90	BICARBONATE	538.00000	mg/L
03C19	07/18/90	AMMONIA-NITROGEN	0.12000	mg/L
03C19	10/21/90	pH	7.20000	S.U.
03C19	10/21/90	SPECIFIC CONDUCTANCE	1595.00000	umho/cm
03C19	10/21/90	SODIUM	96.00000	mg/L
03C19	10/21/90	CALCIUM	125.00000	mg/L
03C19	10/21/90	MAGNESIUM	62.00000	mg/L
03C19	10/21/90	POTASSIUM	3.00000	mg/L
03C19	10/21/90	AMMONIA-NITROGEN	0.16000	mg/L
03C19	01/18/91	pH	7.20000	S.U.
03C19	01/18/91	SPECIFIC CONDUCTANCE	1404.00000	umho/cm
03C19	01/18/91	TOTAL ORGANIC CARBON	0.99000	mg/L
03C19	01/18/91	MANGANESE	0.26000	mg/L
03C19	01/18/91	SODIUM	61.00000	mg/L
03C19	01/18/91	CALCIUM	100.00000	mg/L
03C19	01/18/91	MAGNESIUM	129.00000	mg/L
03C19	01/18/91	POTASSIUM	5.00000	mg/L
03C19	01/18/91	SULFATE	575.00000	mg/L
03C19	01/18/91	CHLORIDE	11.00000	mg/L
03C19	01/18/91	BICARBONATE	543.00000	mg/L
03C19	01/18/91	AMMONIA-NITROGEN	0.16000	mg/L
03C19	04/07/91	pH	6.91000	S.U.
03C19	04/07/91	SPECIFIC CONDUCTANCE	1486.00000	umho/cm
03C19	04/07/91	TOTAL ORGANIC CARBON	141.10000	mg/L
03C19	04/07/91	TOTAL ORGANIC HALOGENS	76.70000	mg/L
03C19	04/07/91	IRON, TOTAL	3.30000	mg/L
03C19	04/07/91	BICARBONATE	568.00000	mg/L
03C19	04/07/91	AMMONIA-NITROGEN	0.11000	mg/L
03C19	07/17/91	pH	6.85000	S.U.
03C19	07/17/91	SPECIFIC CONDUCTANCE	1610.00000	umho/cm
03C19	07/17/91	TOTAL ORGANIC CARBON	1.19000	mg/L
03C19	07/17/91	IRON, TOTAL	0.12000	mg/L
03C19	07/17/91	MANGANESE	0.23000	mg/L
03C19	07/17/91	SODIUM	50.30000	mg/L
03C19	07/17/91	CALCIUM	131.00000	mg/L
03C19	07/17/91	MAGNESIUM	140.00000	mg/L
03C19	07/17/91	POTASSIUM	3.50000	mg/L
03C19	07/17/91	BICARBONATE	634.00000	mg/L
03C19	07/17/91	AMMONIA-NITROGEN	0.09000	mg/L
03C19	09/27/91	pH	6.78000	S.U.
03C19	09/27/91	SPECIFIC CONDUCTANCE	1530.00000	umho/cm
03C19	09/27/91	SODIUM	49.30000	mg/L
03C19	09/27/91	AMMONIA-NITROGEN	0.11000	mg/L
03C19	09/27/91	BICARBONATE	585.00000	mg/L
03C19	09/27/91	CALCIUM	123.40000	mg/L
03C19	09/27/91	MAGNESIUM	128.80000	mg/L
03C19	09/27/91	POTASSIUM	124.50000	mg/L

03C19	01/09/92	pH	7.80000	S.U.
03C19	01/09/92	SPECIFIC CONDUCTANCE	1450.00000	umho/cm
03C19	01/09/92	TOTAL ORGANIC CARBON	1.47000	mg/L
03C19	01/09/92	IRON, TOTAL	0.51000	mg/L
03C19	01/09/92	MANGANESE	0.26900	mg/L
03C19	01/09/92	SODIUM	64.20000	mg/L
03C19	01/09/92	CALCIUM	168.40000	mg/L
03C19	01/09/92	MAGNESIUM	154.80000	mg/L
03C19	01/09/92	POTASSIUM	10.90000	mg/L
03C19	01/09/92	SULFATE	250.00000	mg/L
03C19	01/09/92	CHLORIDE	19.00000	mg/L
03C19	01/09/92	BICARBONATE	574.00000	mg/L
03C19	01/09/92	AMMONIA-NITROGEN	0.07000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C20	10/20/87	pH	10.95000	S.U.
03C20	10/20/87	SPECIFIC CONDUCTANCE	444.00000	umho/cm
03C20	10/20/87	TOTAL ORGANIC CARBON	8.00000	mg/L
03C20	10/20/87	TOTAL ORGANIC HALOGENS	0.89000	mg/L
03C20	10/20/87	SODIUM	23.00000	mg/L
03C20	10/20/87	SULFATE	23.00000	mg/L
03C20	10/20/87	CHLORIDE	9.00000	mg/L
03C20	10/20/87	FLUORIDE, TOTAL	0.16000	mg/L
03C20	10/20/87	NITRATE-N	2.20000	mg/L
03C20	10/20/87	RADIUM, TOTAL	0.00000	pCi/l
03C20	10/20/87	GROSS ALPHA	1.30000	pCi/l
03C20	10/20/87	GROSS BETA	4.50000	mlrem/y
03C20	10/20/87	TRICHLOROETHYLENE	0.65000	mg/L
03C20	10/20/87	TRICHLOROETHENE	0.87000	mg/L
03C20	02/07/88	pH	11.18000	S.U.
03C20	02/07/88	SPECIFIC CONDUCTANCE	740.00000	umho/cm
03C20	02/07/88	TOTAL ORGANIC CARBON	10.00000	mg/L
03C20	02/07/88	TOTAL ORGANIC HALOGENS	0.14800	mg/L
03C20	02/07/88	SODIUM	36.00000	mg/L
03C20	02/07/88	SULFATE	76.00000	mg/L
03C20	02/07/88	CHLORIDE	13.00000	mg/L
03C20	02/07/88	PHENOLS	0.00000	mg/L
03C20	02/07/88	RDX	0.02000	mg/L
03C20	02/07/88	FLUORIDE, TOTAL	0.18000	mg/L
03C20	02/07/88	NITRATE-N	3.80000	mg/L
03C20	02/07/88	RADIUM, TOTAL	0.00000	pCi/l
03C20	02/07/88	GROSS ALPHA	0.00000	pCi/l
03C20	02/07/88	GROSS BETA	4.30000	mlrem/y
03C20	02/07/88	COLIFORM	0.00000	#/100ml
03C20	02/07/88	TRICHLOROETHYLENE	1.51100	mg/L
03C20	04/20/88	pH	7.32000	S.U.
03C20	04/20/88	SPECIFIC CONDUCTANCE	700.00000	umho/cm
03C20	04/20/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C20	04/20/88	TOTAL ORGANIC HALOGENS	2.19000	mg/L
03C20	04/20/88	IRON, TOTAL	0.01000	mg/L
03C20	04/20/88	MANGANESE	0.01100	mg/L
03C20	04/20/88	SODIUM	15.00000	mg/L
03C20	04/20/88	SULFATE	130.00000	mg/L
03C20	04/20/88	CHLORIDE	3.00000	mg/L
03C20	04/20/88	RDX	0.11000	mg/L
03C20	04/20/88	FLUORIDE, TOTAL	0.47000	mg/L
03C20	04/20/88	NITRATE-N	0.45000	mg/L
03C20	04/20/88	RADIUM, TOTAL	0.00000	mg/L
03C20	04/20/88	GROSS ALPHA	0.00000	mg/L
03C20	04/20/88	GROSS BETA	2.70000	mg/L
03C20	04/20/88	COLIFORM	0.00000	#/100ml
03C20	04/20/88	TRICHLOROETHYLENE	2.52800	mg/L
03C20	07/29/88	pH	7.40000	S.U.
03C20	07/29/88	SPECIFIC CONDUCTANCE	720.00000	umho/cm
03C20	07/29/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C20	07/29/88	TOTAL ORGANIC HALOGENS	2.13000	mg/L
03C20	07/29/88	RDX	0.13000	mg/L
03C20	07/29/88	TRICHLOROETHYLENE	1.84000	mg/L
03C20	10/27/88	pH	6.70000	S.U.
03C20	10/27/88	SPECIFIC CONDUCTANCE	555.00000	umho/cm
03C20	10/27/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C20	10/27/88	TOTAL ORGANIC HALOGENS	2.21000	mg/L
03C20	10/27/88	SODIUM	9.00000	mg/L

03C20	10/27/88	SULFATE	135.00000	mg/L
03C20	10/27/88	CHLORIDE	4.00000	mg/L
03C20	10/27/88	RDX	0.04000	mg/L
03C20	10/27/88	AMMONIA-NITROGEN	0.95000	mg/L
03C20	10/27/88	BICARBONATE	506.00000	mg/L
03C20	10/27/88	CALCIUM	69.00000	mg/L
03C20	10/27/88	MAGNESIUM	38.00000	mg/L
03C20	10/27/88	POTASSIUM	3.00000	mg/L
03C20	10/27/88	FLUORIDE, TOTAL	0.40000	mg/L
03C20	10/27/88	NITRATE-N	3.70000	mg/L
03C20	10/27/88	GROSS BETA	5.00000	pcu/L
03C20	10/27/88	COLIFORM	0.00000	TC/.1L
03C20	10/27/88	TRICHLOROETHYLENE	2.51600	mg/L
03C20	01/13/89	pH	7.40000	S.U.
03C20	01/13/89	SPECIFIC CONDUCTANCE	599.00000	umho/cm
03C20	01/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C20	01/13/89	TOTAL ORGANIC HALOGENS	2.50000	mg/L
03C20	01/13/89	SODIUM	15.00000	mg/L
03C20	01/13/89	SULFATE	29.00000	mg/L
03C20	01/13/89	CHLORIDE	1180.00000	mg/L
03C20	01/13/89	AMMONIA-NITROGEN	0.20000	mg/L
03C20	01/13/89	BICARBONATE	415.00000	mg/L
03C20	01/13/89	CALCIUM	102.00000	mg/L
03C20	01/13/89	MAGNESIUM	35.00000	mg/L
03C20	01/13/89	POTASSIUM	2.10000	mg/L
03C20	01/13/89	FLUORIDE, TOTAL	0.72000	mg/L
03C20	01/13/89	NITRATE-N	3.50000	mg/L
03C20	01/13/89	COLIFORM	0.00000	TC/.1L
03C20	01/13/89	TRICHLOROETHYLENE	2.46000	mg/L
03C20	04/12/89	pH	7.60000	S.U.
03C20	04/12/89	SPECIFIC CONDUCTANCE	539.00000	umho/cm
03C20	04/12/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C20	04/12/89	TOTAL ORGANIC HALOGENS	2.10000	mg/L
03C20	04/12/89	SODIUM	4.30000	mg/L
03C20	04/12/89	CALCIUM	44.80000	mg/L
03C20	04/12/89	MAGNESIUM	16.20000	mg/L
03C20	04/12/89	POTASSIUM	3.00000	mg/L
03C20	04/12/89	SULFATE	30.00000	mg/L
03C20	04/12/89	CHLORIDE	10.00000	mg/L
03C20	04/12/89	BICARBONATE	225.00000	mg/L
03C20	04/12/89	RDX	0.11000	mg/L
03C20	04/12/89	FLUORIDE, TOTAL	0.26000	mg/L
03C20	04/12/89	NITRATE-N	1.40000	mg/L
03C20	04/12/89	COLIFORM	0.00000	TC/.1L
03C20	04/12/89	TRICHLOROETHYLENE	1.93000	mg/L
03C20	07/15/89	pH	7.30000	S.U.
03C20	07/15/89	SPECIFIC CONDUCTANCE	659.00000	umho/cm
03C20	07/15/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C20	07/15/89	TOTAL ORGANIC HALOGENS	2.25000	mg/L
03C20	07/15/89	IRON, TOTAL	0.13000	mg/L
03C20	07/15/89	MANGANESE	0.22500	mg/L
03C20	07/15/89	SODIUM	20.00000	mg/L
03C20	07/15/89	CALCIUM	100.00000	mg/L
03C20	07/15/89	MAGNESIUM	86.00000	mg/L
03C20	07/15/89	POTASSIUM	5.00000	mg/L
03C20	07/15/89	SULFATE	80.00000	mg/L
03C20	07/15/89	CHLORIDE	8.00000	mg/L
03C20	07/15/89	BICARBONATE	283.00000	mg/L
03C20	07/15/89	FLUORIDE, TOTAL	0.20000	mg/L
03C20	07/15/89	NITRATE-N	0.84000	mg/L

03C20	07/15/89	COLIFORM	0.00000	TC/.1L
03C20	07/15/89	TRICHLOROETHYLENE	1.99000	mg/L
03C20	10/23/89	pH	7.50000	S.U.
03C20	10/23/89	SPECIFIC CONDUCTANCE	570.00000	umho/cm
03C20	10/23/89	CALCIUM	71.00000	mg/L
03C20	10/23/89	MAGNESIUM	24.00000	mg/L
03C20	10/23/89	POTASSIUM	1.80000	mg/L
03C20	10/23/89	BICARBONATE	293.00000	mg/L
03C20	10/23/89	TNT	0.01000	mg/L
03C20	10/23/89	RDX	0.13000	mg/L
03C20	10/23/89	1,1,1-TRICHLOROETHANE	0.62000	mg/L
03C20	10/23/89	TRICHLOROETHYLENE	2.20000	mg/L
03C20	01/27/90	pH	7.70000	S.U.
03C20	01/27/90	SPECIFIC CONDUCTANCE	605.00000	umho/cm
03C20	01/27/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03C20	01/27/90	TOTAL ORGANIC HALOGENS	4.10000	mg/L
03C20	01/27/90	MANGANESE	0.01300	mg/L
03C20	01/27/90	SODIUM	7.00000	mg/L
03C20	01/27/90	CALCIUM	61.00000	mg/L
03C20	01/27/90	MAGNESIUM	22.00000	mg/L
03C20	01/27/90	POTASSIUM	1.00000	mg/L
03C20	01/27/90	SULFATE	60.00000	mg/L
03C20	01/27/90	CHLORIDE	10.00000	mg/L
03C20	01/27/90	BICARBONATE	366.00000	mg/L
03C20	01/27/90	AMMONIA-NITROGEN	0.07000	mg/L
03C20	01/27/90	RDX	0.18000	mg/L
03C20	01/27/90	TRICHLOROETHYLENE	4.04000	mg/L
03C20	04/20/90	pH	7.40000	S.U.
03C20	04/20/90	SPECIFIC CONDUCTANCE	615.00000	umho/cm
03C20	04/20/90	CALCIUM	89.00000	mg/L
03C20	04/20/90	MAGNESIUM	31.00000	mg/L
03C20	04/20/90	POTASSIUM	3.00000	mg/L
03C20	04/20/90	BICARBONATE	373.00000	mg/L
03C20	04/20/90	RDX	0.09000	mg/L
03C20	04/20/90	TRICHLOROETHYLENE	2.83600	mg/L
03C20	07/14/90	pH	7.40000	S.U.
03C20	07/14/90	SPECIFIC CONDUCTANCE	628.00000	umho/cm
03C20	07/14/90	TOTAL ORGANIC CARBON	2.30000	mg/L
03C20	07/14/90	TOTAL ORGANIC HALOGENS	1.00000	mg/L
03C20	07/14/90	SODIUM	11.00000	mg/L
03C20	07/14/90	CALCIUM	29.00000	mg/L
03C20	07/14/90	MAGNESIUM	27.00000	mg/L
03C20	07/14/90	POTASSIUM	2.00000	mg/L
03C20	07/14/90	BICARBONATE	299.00000	mg/L
03C20	07/14/90	RDX	0.10000	mg/L
03C20	07/14/90	TRICHLOROETHYLENE	1.31000	mg/L
03C20	10/16/90	pH	7.40000	S.U.
03C20	10/16/90	SPECIFIC CONDUCTANCE	429.00000	umho/cm
03C20	10/16/90	SODIUM	11.00000	mg/L
03C20	10/16/90	POTASSIUM	1.00000	mg/L
03C20	10/16/90	AMMONIA-NITROGEN	0.07000	mg/L
03C20	10/16/90	TRICHLOROETHYLENE	17.84000	mg/L
03C20	01/16/91	pH	7.42000	S.U.
03C20	01/16/91	SPECIFIC CONDUCTANCE	559.00000	umho/cm
03C20	01/16/91	TOTAL ORGANIC CARBON	2.41000	mg/L
03C20	01/16/91	TOTAL ORGANIC HALOGENS	1.15000	mg/L
03C20	01/16/91	MANGANESE	0.02000	mg/L
03C20	01/16/91	SODIUM	9.00000	mg/L
03C20	01/16/91	CALCIUM	60.00000	mg/L
03C20	01/16/91	MAGNESIUM	32.00000	mg/L

03C20	01/16/91	POTASSIUM	2.00000	mg/L
03C20	01/16/91	SULFATE	125.00000	mg/L
03C20	01/16/91	CHLORIDE	10.00000	mg/L
03C20	01/16/91	BICARBONATE	293.00000	mg/L
03C20	04/03/91	pH	7.07000	S.U.
03C20	04/03/91	SPECIFIC CONDUCTANCE	669.00000	umho/cm
03C20	04/03/91	POTASSIUM	1.80000	mg/L
03C20	04/03/91	BICARBONATE	299.00000	mg/L
03C20	04/03/91	AMMONIA-NITROGEN	0.15000	mg/L
03C20	04/03/91	RDX	0.08000	mg/L
03C20	04/03/91	TRICHLOROETHYLENE	3.46200	mg/L
03C20	07/09/91	pH	7.11000	S.U.
03C20	07/09/91	SPECIFIC CONDUCTANCE	594.00000	umho/cm
03C20	07/09/91	TOTAL ORGANIC CARBON	1.08000	mg/L
03C20	07/09/91	TOTAL ORGANIC HALOGENS	2.00000	mg/L
03C20	07/09/91	IRON, TOTAL	0.07000	mg/L
03C20	07/09/91	MANGANESE	0.02000	mg/L
03C20	07/09/91	SODIUM	8.90000	mg/L
03C20	07/09/91	CALCIUM	76.80000	mg/L
03C20	07/09/91	MAGNESIUM	25.90000	mg/L
03C20	07/09/91	POTASSIUM	2.73000	mg/L
03C20	07/09/91	BICARBONATE	347.00000	mg/L
03C20	07/09/91	RDX	0.07000	mg/L
03C20	07/09/91	TRICHLOROETHENE	1.82900	mg/L
03C20	10/05/91	pH	7.10000	S.U.
03C20	10/05/91	SPECIFIC CONDUCTANCE	567.00000	umho/cm
03C20	10/05/91	SODIUM	6.70000	mg/L
03C20	10/05/91	RDX	0.06000	mg/L
03C20	10/05/91	TRICHLOROETHYLENE	3.06200	mg/L
03C20	10/05/91	BICARBONATE	323.00000	mg/L
03C20	10/05/91	CALCIUM	68.20000	mg/L
03C20	10/05/91	MAGNESIUM	27.50000	mg/L
03C20	10/05/91	POTASSIUM	6.00000	mg/L
03C20	01/02/92	pH	7.90000	S.U.
03C20	01/02/92	SPECIFIC CONDUCTANCE	544.00000	umho/cm
03C20	01/02/92	TOTAL ORGANIC CARBON	1.17000	mg/L
03C20	01/02/92	TOTAL ORGANIC HALOGENS	2.50000	mg/L
03C20	01/02/92	SODIUM	11.00000	mg/L
03C20	01/02/92	CALCIUM	74.10000	mg/L
03C20	01/02/92	MAGNESIUM	25.20000	mg/L
03C20	01/02/92	POTASSIUM	4.30000	mg/L
03C20	01/02/92	SULFATE	80.00000	mg/L
03C20	01/02/92	CHLORIDE	9.00000	mg/L
03C20	01/02/92	BICARBONATE	269.00000	mg/L
03C20	01/02/92	AMMONIA-NITROGEN	0.45000	mg/L
03C20	01/02/92	RDX	0.03000	mg/L
03C20	01/02/92	TRICHLOROETHYLENE	2.48800	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C21	11/11/87	pH	7.24000	S.U.
03C21	11/11/87	SPECIFIC CONDUCTANCE	536.00000	umho/cm
03C21	11/11/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C21	11/11/87	MANGANESE	0.06500	mg/L
03C21	11/11/87	SODIUM	31.00000	mg/L
03C21	11/11/87	SULFATE	50.00000	mg/L
03C21	11/11/87	CHLORIDE	9.00000	mg/L
03C21	11/11/87	FLUORIDE, TOTAL	0.20000	mg/L
03C21	11/11/87	RADIUM, TOTAL	0.20000	pCi/l
03C21	11/11/87	GROSS ALPHA	0.00000	pCi/l
03C21	11/11/87	GROSS BETA	0.00000	mlrem/y
03C21	02/04/88	pH	7.59000	S.U.
03C21	02/04/88	SPECIFIC CONDUCTANCE	587.00000	umho/cm
03C21	02/04/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C21	02/04/88	MANGANESE	0.05100	mg/L
03C21	02/04/88	SODIUM	9.00000	mg/L
03C21	02/04/88	SULFATE	70.00000	mg/L
03C21	02/04/88	CHLORIDE	4.00000	mg/L
03C21	02/04/88	FLUORIDE, TOTAL	0.28000	mg/L
03C21	02/04/88	RADIUM, TOTAL	0.10000	pCi/l
03C21	02/04/88	GROSS ALPHA	0.00000	pCi/l
03C21	02/04/88	GROSS BETA	1.00000	mlrem/y
03C21	02/04/88	COLIFORM	0.00000	#/100ml
03C21	04/22/88	pH	7.30000	S.U.
03C21	04/22/88	SPECIFIC CONDUCTANCE	632.00000	umho/cm
03C21	04/22/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C21	04/22/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C21	04/22/88	IRON, TOTAL	0.01000	mg/L
03C21	04/22/88	MANGANESE	0.05500	mg/L
03C21	04/22/88	SODIUM	10.00000	mg/L
03C21	04/22/88	SULFATE	70.00000	mg/L
03C21	04/22/88	CHLORIDE	3.00000	mg/L
03C21	04/22/88	FLUORIDE, TOTAL	0.33000	mg/L
03C21	04/22/88	RADIUM, TOTAL	0.20000	mg/L
03C21	04/22/88	GROSS ALPHA	0.00000	mg/L
03C21	04/22/88	GROSS BETA	3.70000	mg/L
03C21	04/22/88	COLIFORM	0.00000	#/100ml
03C21	07/28/88	pH	7.30000	S.U.
03C21	07/28/88	SPECIFIC CONDUCTANCE	611.00000	umho/cm
03C21	07/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C21	10/27/88	pH	7.40000	S.U.
03C21	10/27/88	SPECIFIC CONDUCTANCE	446.00000	umho/cm
03C21	10/27/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C21	10/27/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C21	10/27/88	MANGANESE	0.04000	mg/L
03C21	10/27/88	SODIUM	8.00000	mg/L
03C21	10/27/88	SULFATE	76.00000	mg/L
03C21	10/27/88	CHLORIDE	6.00000	mg/L
03C21	10/27/88	RDX	0.04000	mg/L
03C21	10/27/88	BICARBONATE	457.00000	mg/L
03C21	10/27/88	CALCIUM	36.00000	mg/L
03C21	10/27/88	MAGNESIUM	29.00000	mg/L
03C21	10/27/88	POTASSIUM	2.00000	mg/L
03C21	10/27/88	FLUORIDE, TOTAL	0.14000	mg/L
03C21	10/27/88	GROSS BETA	0.00000	pcu/L
03C21	10/27/88	COLIFORM	0.00000	TC/.1L
03C21	10/27/88	TRICHLOROETHYLENE	0.01000	mg/L
03C21	01/13/89	pH	7.62000	S.U.

03C21	01/13/89	SPECIFIC CONDUCTANCE	548.00000	umho/cm
03C21	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C21	01/13/89	MANGANESE	0.08000	mg/L
03C21	01/13/89	SODIUM	10.00000	mg/L
03C21	01/13/89	SULFATE	60.00000	mg/L
03C21	01/13/89	CHLORIDE	6.00000	mg/L
03C21	01/13/89	BICARBONATE	555.00000	mg/L
03C21	01/13/89	CALCIUM	82.00000	mg/L
03C21	01/13/89	MAGNESIUM	24.00000	mg/L
03C21	01/13/89	POTASSIUM	1.30000	mg/L
03C21	01/13/89	FLUORIDE, TOTAL	0.53000	mg/L
03C21	01/13/89	COLIFORM	0.00000	TC/.1L
03C21	04/12/89	pH	7.30000	S.U.
03C21	04/12/89	SPECIFIC CONDUCTANCE	544.00000	umho/cm
03C21	04/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C21	04/12/89	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C21	04/12/89	MANGANESE	0.05000	mg/L
03C21	04/12/89	SODIUM	8.40000	mg/L
03C21	04/12/89	CALCIUM	83.00000	mg/L
03C21	04/12/89	MAGNESIUM	28.00000	mg/L
03C21	04/12/89	POTASSIUM	2.00000	mg/L
03C21	04/12/89	SULFATE	100.00000	mg/L
03C21	04/12/89	CHLORIDE	10.00000	mg/L
03C21	04/12/89	BICARBONATE	304.00000	mg/L
03C21	04/12/89	FLUORIDE, TOTAL	0.17000	mg/L
03C21	04/12/89	NITRATE-N	0.80000	mg/L
03C21	04/12/89	COLIFORM	0.00000	TC/.1L
03C21	04/12/89	TRICHLOROETHYLENE	0.02200	mg/L
03C21	07/15/89	pH	7.30000	S.U.
03C21	07/15/89	SPECIFIC CONDUCTANCE	572.00000	umho/cm
03C21	07/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C21	07/15/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C21	07/15/89	IRON, TOTAL	28.00000	mg/L
03C21	07/15/89	SODIUM	8.20000	mg/L
03C21	07/15/89	CALCIUM	86.00000	mg/L
03C21	07/15/89	MAGNESIUM	25.00000	mg/L
03C21	07/15/89	POTASSIUM	1.20000	mg/L
03C21	07/15/89	SULFATE	58.00000	mg/L
03C21	07/15/89	CHLORIDE	11.00000	mg/L
03C21	07/15/89	BICARBONATE	322.00000	mg/L
03C21	07/15/89	FLUORIDE, TOTAL	0.16000	mg/L
03C21	07/15/89	COLIFORM	0.00000	TC/.1L
03C21	07/15/89	TRICHLOROETHYLENE	0.00900	mg/L
03C21	10/22/89	pH	7.70000	S.U.
03C21	10/22/89	SPECIFIC CONDUCTANCE	525.00000	umho/cm
03C21	10/22/89	CALCIUM	65.00000	mg/L
03C21	10/22/89	MAGNESIUM	19.00000	mg/L
03C21	10/22/89	POTASSIUM	1.20000	mg/L
03C21	10/22/89	BICARBONATE	312.00000	mg/L
03C21	10/22/89	TRICHLOROETHYLENE	0.00900	mg/L
03C21	01/27/90	pH	7.70000	S.U.
03C21	01/27/90	SPECIFIC CONDUCTANCE	511.00000	umho/cm
03C21	01/27/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03C21	01/27/90	MANGANESE	0.06300	mg/L
03C21	01/27/90	SODIUM	6.00000	mg/L
03C21	01/27/90	CALCIUM	79.00000	mg/L
03C21	01/27/90	MAGNESIUM	24.00000	mg/L
03C21	01/27/90	POTASSIUM	1.00000	mg/L
03C21	01/27/90	SULFATE	60.00000	mg/L
03C21	01/27/90	CHLORIDE	11.00000	mg/L

03C21	01/27/90	BICARBONATE	195.00000	mg/L
03C21	01/27/90	TRICHLOROETHYLENE	0.07600	mg/L
03C21	04/24/90	pH	7.40000	S.U.
03C21	04/24/90	SPECIFIC CONDUCTANCE	515.00000	umho/cm
03C21	04/24/90	CALCIUM	80.00000	mg/L
03C21	04/24/90	MAGNESIUM	25.00000	mg/L
03C21	04/24/90	POTASSIUM	1.00000	mg/L
03C21	04/24/90	BICARBONATE	285.00000	mg/L
03C21	07/14/90	pH	7.30000	S.U.
03C21	07/14/90	SPECIFIC CONDUCTANCE	544.00000	umho/cm
03C21	07/14/90	TOTAL ORGANIC CARBON	2.20000	mg/L
03C21	07/14/90	SODIUM	7.00000	mg/L
03C21	07/14/90	CALCIUM	75.00000	mg/L
03C21	07/14/90	MAGNESIUM	22.00000	mg/L
03C21	07/14/90	POTASSIUM	1.00000	mg/L
03C21	07/14/90	BICARBONATE	323.00000	mg/L
03C21	10/16/90	pH	7.00000	S.U.
03C21	10/16/90	SPECIFIC CONDUCTANCE	410.00000	umho/cm
03C21	10/16/90	SODIUM	8.00000	mg/L
03C21	10/16/90	CALCIUM	88.00000	mg/L
03C21	10/16/90	MAGNESIUM	27.00000	mg/L
03C21	01/16/91	pH	7.50000	S.U.
03C21	01/16/91	SPECIFIC CONDUCTANCE	478.00000	umho/cm
03C21	01/16/91	TOTAL ORGANIC CARBON	0.80000	mg/L
03C21	01/16/91	MANGANESE	0.06000	mg/L
03C21	01/16/91	SODIUM	6.00000	mg/L
03C21	01/16/91	CALCIUM	56.00000	mg/L
03C21	01/16/91	MAGNESIUM	26.00000	mg/L
03C21	01/16/91	POTASSIUM	2.00000	mg/L
03C21	01/16/91	SULFATE	66.00000	mg/L
03C21	01/16/91	CHLORIDE	10.00000	mg/L
03C21	01/16/91	BICARBONATE	244.00000	mg/L
03C21	04/03/91	pH	7.15000	S.U.
03C21	04/03/91	SPECIFIC CONDUCTANCE	509.00000	umho/cm
03C21	04/03/91	CALCIUM	75.40000	mg/L
03C21	04/03/91	MAGNESIUM	24.90000	mg/L
03C21	04/03/91	POTASSIUM	1.40000	mg/L
03C21	04/03/91	BICARBONATE	317.00000	mg/L
03C21	04/03/91	TRICHLOROETHYLENE	0.03000	mg/L
03C21	07/09/91	pH	7.18000	S.U.
03C21	07/09/91	SPECIFIC CONDUCTANCE	507.00000	umho/cm
03C21	07/09/91	TOTAL ORGANIC CARBON	0.68000	mg/L
03C21	07/09/91	MANGANESE	0.04000	mg/L
03C21	07/09/91	SODIUM	6.50000	mg/L
03C21	07/09/91	CALCIUM	6.50000	mg/L
03C21	07/09/91	MAGNESIUM	22.20000	mg/L
03C21	07/09/91	POTASSIUM	0.45000	mg/L
03C21	07/09/91	BICARBONATE	323.00000	mg/L
03C21	10/05/91	pH	7.12000	S.U.
03C21	10/05/91	SPECIFIC CONDUCTANCE	487.00000	umho/cm
03C21	10/05/91	SODIUM	5.30000	mg/L
03C21	10/05/91	TRICHLOROETHYLENE	0.07000	mg/L
03C21	10/05/91	BICARBONATE	342.00000	mg/L
03C21	10/05/91	CALCIUM	63.40000	mg/L
03C21	10/05/91	MAGNESIUM	23.50000	mg/L
03C21	10/05/91	POTASSIUM	0.30000	mg/L
03C21	01/02/92	pH	7.90000	S.U.
03C21	01/02/92	SPECIFIC CONDUCTANCE	468.00000	umho/cm
03C21	01/02/92	TOTAL ORGANIC CARBON	0.97000	mg/L
03C21	01/02/92	SODIUM	6.30000	mg/L

03C21	01/02/92	CALCIUM	68.50000	mg/L
03C21	01/02/92	MAGNESIUM	41.30000	mg/L
03C21	01/02/92	POTASSIUM	6.00000	mg/L
03C21	01/02/92	SULFATE	90.00000	mg/L
03C21	01/02/92	CHLORIDE	12.00000	mg/L
03C21	01/02/92	BICARBONATE	377.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C24	09/29/87	pH	6.83000	S.U.
03C24	09/29/87	SPECIFIC CONDUCTANCE	307.00000	umho/cm
03C24	09/29/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C24	09/29/87	SODIUM	7.00000	mg/L
03C24	09/29/87	SULFATE	14.00000	mg/L
03C24	09/29/87	CHLORIDE	3.00000	mg/L
03C24	09/29/87	RADIUM, TOTAL	0.30000	pCi/l
03C24	09/29/87	GROSS ALPHA	0.00000	pCi/l
03C24	09/29/87	GROSS BETA	0.00000	mlrem/y
03C24	09/29/87	METHYLENE CHLORIDE	0.00400	mg/L
03C24	01/30/88	pH	7.38000	S.U.
03C24	01/30/88	SPECIFIC CONDUCTANCE	230.00000	umho/cm
03C24	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C24	01/30/88	TOTAL ORGANIC HALOGENS	0.01300	mg/L
03C24	01/30/88	SODIUM	2.00000	mg/L
03C24	01/30/88	SULFATE	12.00000	mg/L
03C24	01/30/88	MERCURY, TOTAL	0.00700	mg/L
03C24	01/30/88	FLUORIDE, TOTAL	0.10000	mg/L
03C24	01/30/88	NITRATE-N	0.62000	mg/L
03C24	01/30/88	RADIUM, TOTAL	0.00000	pCi/l
03C24	01/30/88	GROSS ALPHA	0.00000	pCi/l
03C24	01/30/88	GROSS BETA	1.00000	mlrem/y
03C24	01/30/88	COLIFORM	0.00000	#/100ml
03C24	04/21/88	pH	7.85000	S.U.
03C24	04/21/88	SPECIFIC CONDUCTANCE	262.00000	umho/cm
03C24	04/21/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C24	04/21/88	SODIUM	5.00000	mg/L
03C24	04/21/88	SULFATE	18.00000	mg/L
03C24	04/21/88	CHLORIDE	2.00000	mg/L
03C24	04/21/88	FLUORIDE, TOTAL	0.33000	mg/L
03C24	04/21/88	NITRATE-N	0.90000	mg/L
03C24	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03C24	04/21/88	GROSS ALPHA	1.40000	mg/L
03C24	04/21/88	GROSS BETA	2.10000	mg/L
03C24	04/21/88	COLIFORM	0.00000	#/100ml
03C24	08/01/88	pH	8.00000	S.U.
03C24	08/01/88	SPECIFIC CONDUCTANCE	204.00000	umho/cm
03C24	08/01/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C24	08/01/88	SODIUM	2.30000	mg/L
03C24	08/01/88	SULFATE	14.00000	mg/L
03C24	08/01/88	CHLORIDE	5.00000	mg/L
03C24	08/01/88	FLUORIDE, TOTAL	0.18000	mg/L
03C24	08/01/88	NITRATE-N	0.42000	mg/L
03C24	08/01/88	RADIUM, TOTAL	0.10000	pcu/L
03C24	08/01/88	GROSS ALPHA	0.00000	pcu/L
03C24	08/01/88	GROSS BETA	4.20000	pcu/L
03C24	08/01/88	COLIFORM	0.00000	TC/.1L
03C24	08/01/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03C24	10/21/88	pH	7.30000	S.U.
03C24	10/21/88	SPECIFIC CONDUCTANCE	270.00000	umho/cm
03C24	10/21/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C24	10/21/88	SODIUM	0.60000	mg/L
03C24	10/21/88	SULFATE	12.00000	mg/L
03C24	10/21/88	CHLORIDE	4.00000	mg/L
03C24	10/21/88	BICARBONATE	232.00000	mg/L
03C24	10/21/88	CALCIUM	29.00000	mg/L
03C24	10/21/88	MAGNESIUM	5.00000	mg/L
03C24	10/21/88	POTASSIUM	2.00000	mg/L

03C24	10/21/88	pH	7.30000	S.U.
03C24	10/21/88	SPECIFIC CONDUCTANCE	270.00000	umho/cm
03C24	10/21/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C24	10/21/88	SODIUM	0.60000	mg/L
03C24	10/21/88	SULFATE	12.00000	mg/L
03C24	10/21/88	CHLORIDE	4.00000	mg/L
03C24	10/21/88	BICARBONATE	232.00000	mg/L
03C24	10/21/88	CALCIUM	29.00000	mg/L
03C24	10/21/88	MAGNESIUM	5.00000	mg/L
03C24	10/21/88	POTASSIUM	2.00000	mg/L
03C24	10/21/88	NITRATE-N	0.20000	mg/L
03C24	10/21/88	GROSS BETA	0.00000	pcu/L
03C24	10/21/88	COLIFORM	0.00000	TC/.1L
03C24	10/21/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03C24	01/12/89	pH	7.50000	S.U.
03C24	01/12/89	SPECIFIC CONDUCTANCE	212.00000	umho/cm
03C24	01/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C24	01/12/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C24	01/12/89	SODIUM	1.00000	mg/L
03C24	01/12/89	SULFATE	29.00000	mg/L
03C24	01/12/89	CHLORIDE	6.00000	mg/L
03C24	01/12/89	BICARBONATE	196.00000	mg/L
03C24	01/12/89	CALCIUM	39.00000	mg/L
03C24	01/12/89	MAGNESIUM	4.00000	mg/L
03C24	01/12/89	POTASSIUM	2.20000	mg/L
03C24	01/12/89	FLUORIDE, TOTAL	0.21000	mg/L
03C24	01/12/89	COLIFORM	0.00000	TC/.1L
03C24	04/14/89	pH	8.20000	S.U.
03C24	04/14/89	SPECIFIC CONDUCTANCE	192.00000	umho/cm
03C24	04/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C24	04/14/89	SODIUM	1.10000	mg/L
03C24	04/14/89	CALCIUM	28.00000	mg/L
03C24	04/14/89	MAGNESIUM	3.00000	mg/L
03C24	04/14/89	POTASSIUM	3.00000	mg/L
03C24	04/14/89	SULFATE	15.00000	mg/L
03C24	04/14/89	CHLORIDE	5.00000	mg/L
03C24	04/14/89	PHENOLS	0.05000	mg/L
03C24	04/14/89	BICARBONATE	180.00000	mg/L
03C24	04/14/89	FLUORIDE, TOTAL	0.03500	mg/L
03C24	04/14/89	NITRATE-N	3.00000	mg/L
03C24	04/14/89	COLIFORM	4.00000	TC/.1L
03C24	04/14/89	TRICHLOROETHYLENE	0.00500	mg/L
03C24	07/14/89	pH	8.10000	S.U.
03C24	07/14/89	SPECIFIC CONDUCTANCE	262.00000	umho/cm
03C24	07/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C24	07/14/89	IRON, TOTAL	1.00000	mg/L
03C24	07/14/89	MANGANESE	0.32000	mg/L
03C24	07/14/89	SODIUM	2.00000	mg/L
03C24	07/14/89	CALCIUM	39.00000	mg/L
03C24	07/14/89	MAGNESIUM	4.00000	mg/L
03C24	07/14/89	POTASSIUM	1.00000	mg/L
03C24	07/14/89	SULFATE	80.00000	mg/L
03C24	07/14/89	CHLORIDE	9.00000	mg/L
03C24	07/14/89	PHENOLS	0.05000	mg/L
03C24	07/14/89	BICARBONATE	146.00000	mg/L
03C24	07/14/89	BARIUM, TOTAL	0.07000	mg/L
03C24	07/14/89	NITRATE-N	0.90000	mg/L
03C24	07/14/89	COLIFORM	30.00000	TC/.1L
03C24	10/25/89	pH	7.90000	S.U.
03C24	10/25/89	SPECIFIC CONDUCTANCE	219.00000	umho/cm

03C24	10/25/89	CALCIUM	29.00000	mg/L
03C24	10/25/89	MAGNESIUM	3.00000	mg/L
03C24	10/25/89	POTASSIUM	2.30000	mg/L
03C24	10/25/89	BICARBONATE	147.00000	mg/L
03C24	10/25/89	TRICHLOROETHYLENE	0.01400	mg/L
03C24	01/30/90	pH	7.90000	S.U.
03C24	01/30/90	SPECIFIC CONDUCTANCE	228.00000	umho/cm
03C24	01/30/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C24	01/30/90	SODIUM	1.00000	mg/L
03C24	01/30/90	CALCIUM	69.00000	mg/L
03C24	01/30/90	MAGNESIUM	38.00000	mg/L
03C24	01/30/90	POTASSIUM	3.00000	mg/L
03C24	01/30/90	SULFATE	19.00000	mg/L
03C24	01/30/90	CHLORIDE	5.00000	mg/L
03C24	01/30/90	BICARBONATE	451.00000	mg/L
03C24	04/18/90	pH	8.00000	S.U.
03C24	04/18/90	SPECIFIC CONDUCTANCE	204.00000	umho/cm
03C24	04/18/90	CALCIUM	42.00000	mg/L
03C24	04/18/90	MAGNESIUM	5.00000	mg/L
03C24	04/18/90	POTASSIUM	2.00000	mg/L
03C24	04/18/90	BICARBONATE	184.00000	mg/L
03C24	07/17/90	pH	7.80000	S.U.
03C24	07/17/90	SPECIFIC CONDUCTANCE	243.00000	umho/cm
03C24	07/17/90	TOTAL ORGANIC CARBON	1.00000	mg/L
03C24	07/17/90	SODIUM	3.00000	mg/L
03C24	07/17/90	CALCIUM	38.00000	mg/L
03C24	07/17/90	MAGNESIUM	5.00000	mg/L
03C24	07/17/90	POTASSIUM	2.00000	mg/L
03C24	07/17/90	BICARBONATE	137.00000	mg/L
03C24	10/21/90	pH	7.60000	S.U.
03C24	10/21/90	SPECIFIC CONDUCTANCE	251.00000	umho/cm
03C24	10/21/90	SODIUM	2.00000	mg/L
03C24	10/21/90	CALCIUM	40.00000	mg/L
03C24	10/21/90	MAGNESIUM	6.00000	mg/L
03C24	10/21/90	POTASSIUM	3.00000	mg/L
03C24	01/17/91	pH	7.96000	S.U.
03C24	01/17/91	SPECIFIC CONDUCTANCE	204.00000	umho/cm
03C24	01/17/91	TOTAL ORGANIC CARBON	1.24000	mg/L
03C24	01/17/91	SODIUM	3.00000	mg/L
03C24	01/17/91	CALCIUM	24.00000	mg/L
03C24	01/17/91	MAGNESIUM	5.00000	mg/L
03C24	01/17/91	POTASSIUM	3.00000	mg/L
03C24	01/17/91	SULFATE	48.00000	mg/L
03C24	01/17/91	CHLORIDE	11.00000	mg/L
03C24	01/17/91	BICARBONATE	122.00000	mg/L
03C24	04/02/91	pH	7.50000	S.U.
03C24	04/02/91	SPECIFIC CONDUCTANCE	143.00000	umho/cm
03C24	04/02/91	CALCIUM	27.00000	mg/L
03C24	04/02/91	MAGNESIUM	3.50000	mg/L
03C24	04/02/91	POTASSIUM	1.90000	mg/L
03C24	04/02/91	BICARBONATE	120.00000	mg/L
03C24	04/02/91	AMMONIA-NITROGEN	0.28000	mg/L
03C24	04/02/91	TRICHLOROETHYLENE	0.07700	mg/L
03C24	06/29/91	pH	7.52000	S.U.
03C24	06/29/91	SPECIFIC CONDUCTANCE	162.00000	umho/cm
03C24	06/29/91	TOTAL ORGANIC CARBON	1.87000	mg/L
03C24	06/29/91	MANGANESE	0.01000	mg/L
03C24	06/29/91	SODIUM	2.80000	mg/L
03C24	06/29/91	CALCIUM	29.80000	mg/L
03C24	06/29/91	MAGNESIUM	6.10000	mg/L

03C24	06/29/91	POTASSIUM	4.10000	mg/L
03C24	06/29/91	BICARBONATE	155.00000	mg/L
03C24	10/04/91	pH	7.48000	S.U.
03C24	10/04/91	SPECIFIC CONDUCTANCE	198.00000	umho/cm
03C24	10/04/91	SODIUM	1.00000	mg/L
03C24	10/04/91	BICARBONATE	153.00000	mg/L
03C24	10/04/91	CALCIUM	31.60000	mg/L
03C24	10/04/91	MAGNESIUM	7.90000	mg/L
03C24	10/04/91	POTASSIUM	5.20000	mg/L
03C24	01/09/92	pH	7.90000	S.U.
03C24	01/09/92	SPECIFIC CONDUCTANCE	135.00000	umho/cm
03C24	01/09/92	TOTAL ORGANIC CARBON	1.13000	mg/L
03C24	01/09/92	SODIUM	1.90000	mg/L
03C24	01/09/92	CALCIUM	26.90000	mg/L
03C24	01/09/92	MAGNESIUM	3.90000	mg/L
03C24	01/09/92	POTASSIUM	1.50000	mg/L
03C24	01/09/92	SULFATE	13.00000	mg/L
03C24	01/09/92	CHLORIDE	6.00000	mg/L
03C24	01/09/92	BICARBONATE	114.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C25	09/29/87	pH	6.56000	S.U.
03C25	09/29/87	SPECIFIC CONDUCTANCE	966.00000	umho/cm
03C25	09/29/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C25	09/29/87	MANGANESE	0.16000	mg/L
03C25	09/29/87	SODIUM	89.00000	mg/L
03C25	09/29/87	SULFATE	190.00000	mg/L
03C25	09/29/87	CHLORIDE	7.00000	mg/L
03C25	09/29/87	FLUORIDE, TOTAL	0.40000	mg/L
03C25	09/29/87	RADIUM, TOTAL	1.40000	pCi/l
03C25	09/29/87	GROSS ALPHA	0.00000	pCi/l
03C25	09/29/87	GROSS BETA	0.00000	mlrem/y
03C25	09/29/87	METHYLENE CHLORIDE	0.00300	mg/L
03C25	09/29/87	BENZENE	0.00200	mg/L
03C25	02/08/88	pH	7.47000	S.U.
03C25	02/08/88	SPECIFIC CONDUCTANCE	1211.00000	umho/cm
03C25	02/08/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C25	02/08/88	MANGANESE	0.07000	mg/L
03C25	02/08/88	SODIUM	120.00000	mg/L
03C25	02/08/88	SULFATE	230.00000	mg/L
03C25	02/08/88	CHLORIDE	3.00000	mg/L
03C25	02/08/88	FLUORIDE, TOTAL	0.40000	mg/L
03C25	02/08/88	NITRATE-N	0.11000	mg/L
03C25	02/08/88	RADIUM, TOTAL	0.70000	pCi/l
03C25	02/08/88	GROSS ALPHA	0.00000	pCi/l
03C25	02/08/88	GROSS BETA	1.60000	mlrem/y
03C25	02/08/88	COLIFORM	0.00000	#/100ml
03C25	04/21/88	pH	7.23000	S.U.
03C25	04/21/88	SPECIFIC CONDUCTANCE	1209.00000	umho/cm
03C25	04/21/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C25	04/21/88	IRON, TOTAL	0.07000	mg/L
03C25	04/21/88	MANGANESE	0.06000	mg/L
03C25	04/21/88	SODIUM	144.00000	mg/L
03C25	04/21/88	SULFATE	200.00000	mg/L
03C25	04/21/88	CHLORIDE	2.00000	mg/L
03C25	04/21/88	FLUORIDE, TOTAL	0.60000	mg/L
03C25	04/21/88	RADIUM, TOTAL	0.70000	mg/L
03C25	04/21/88	GROSS ALPHA	1.50000	mg/L
03C25	04/21/88	GROSS BETA	0.90000	mg/L
03C25	04/21/88	COLIFORM	5.00000	#/100ml
03C25	08/01/88	pH	7.00000	S.U.
03C25	08/01/88	SPECIFIC CONDUCTANCE	1069.00000	umho/cm
03C25	08/01/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C25	08/01/88	IRON, TOTAL	0.08000	mg/L
03C25	08/01/88	MANGANESE	0.03700	mg/L
03C25	08/01/88	SODIUM	88.60000	mg/L
03C25	08/01/88	SULFATE	235.00000	mg/L
03C25	08/01/88	CHLORIDE	8.00000	mg/L
03C25	08/01/88	FLUORIDE, TOTAL	0.37000	mg/L
03C25	08/01/88	RADIUM, TOTAL	0.50000	pcu/L
03C25	08/01/88	GROSS ALPHA	0.60000	pcu/L
03C25	08/01/88	GROSS BETA	0.50000	pcu/L
03C25	08/01/88	COLIFORM	0.00000	TC/.1L
03C25	10/20/88	FLUORIDE, TOTAL	0.14000	mg/L
03C25	10/20/88	COLIFORM	0.00000	TC/.1L
03C25	10/20/88	CHLORIDE	4.00000	mg/L
03C25	10/20/88	IRON, TOTAL	0.06000	mg/L
03C25	10/20/88	MANGANESE	0.02800	mg/L
03C25	10/20/88	SODIUM	63.00000	mg/L

03C25	10/20/88	SULFATE	275.00000	mg/L
03C25	10/20/88	pH	7.00000	S.U.
03C25	10/20/88	SPECIFIC CONDUCTANCE	843.00000	umho/cm
03C25	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C25	10/22/88	pH	7.00000	S.U.
03C25	10/22/88	SPECIFIC CONDUCTANCE	843.00000	umho/cm
03C25	10/22/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C25	10/22/88	IRON, TOTAL	0.06000	mg/L
03C25	10/22/88	MANGANESE	0.02800	mg/L
03C25	10/22/88	SODIUM	63.00000	mg/L
03C25	10/22/88	SULFATE	275.00000	mg/L
03C25	10/22/88	CHLORIDE	4.00000	mg/L
03C25	10/22/88	BICARBONATE	964.00000	mg/L
03C25	10/22/88	CALCIUM	88.00000	mg/L
03C25	10/22/88	MAGNESIUM	52.00000	mg/L
03C25	10/22/88	POTASSIUM	5.00000	mg/L
03C25	10/22/88	FLUORIDE, TOTAL	0.14000	mg/L
03C25	10/22/88	GROSS BETA	0.00000	pcu/L
03C25	10/22/88	COLIFORM	0.00000	TC/.1L
03C25	01/17/89	pH	7.10000	S.U.
03C25	01/17/89	SPECIFIC CONDUCTANCE	1011.00000	umho/cm
03C25	01/17/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C25	01/17/89	IRON, TOTAL	0.14000	mg/L
03C25	01/17/89	MANGANESE	0.07000	mg/L
03C25	01/17/89	SODIUM	108.00000	mg/L
03C25	01/17/89	SULFATE	210.00000	mg/L
03C25	01/17/89	CHLORIDE	6.00000	mg/L
03C25	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03C25	01/17/89	BICARBONATE	787.00000	mg/L
03C25	01/17/89	CALCIUM	110.00000	mg/L
03C25	01/17/89	MAGNESIUM	59.00000	mg/L
03C25	01/17/89	POTASSIUM	3.80000	mg/L
03C25	01/17/89	FLUORIDE, TOTAL	0.72000	mg/L
03C25	01/17/89	COLIFORM	0.00000	TC/.1L
03C25	04/14/89	pH	7.30000	S.U.
03C25	04/14/89	SPECIFIC CONDUCTANCE	1019.00000	umho/cm
03C25	04/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C25	04/14/89	IRON, TOTAL	0.11000	mg/L
03C25	04/14/89	MANGANESE	0.02500	mg/L
03C25	04/14/89	SODIUM	67.00000	mg/L
03C25	04/14/89	CALCIUM	100.00000	mg/L
03C25	04/14/89	MAGNESIUM	56.00000	mg/L
03C25	04/14/89	POTASSIUM	4.50000	mg/L
03C25	04/14/89	SULFATE	215.00000	mg/L
03C25	04/14/89	CHLORIDE	7.00000	mg/L
03C25	04/14/89	BICARBONATE	451.00000	mg/L
03C25	04/14/89	FLUORIDE, TOTAL	0.26000	mg/L
03C25	04/14/89	COLIFORM	0.00000	TC/.1L
03C25	07/14/89	pH	7.30000	S.U.
03C25	07/14/89	SPECIFIC CONDUCTANCE	1040.00000	umho/cm
03C25	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C25	07/14/89	IRON, TOTAL	0.11000	mg/L
03C25	07/14/89	MANGANESE	0.03000	mg/L
03C25	07/14/89	SODIUM	38.00000	mg/L
03C25	07/14/89	CALCIUM	88.00000	mg/L
03C25	07/14/89	MAGNESIUM	48.00000	mg/L
03C25	07/14/89	POTASSIUM	3.00000	mg/L
03C25	07/14/89	SULFATE	56.00000	mg/L
03C25	07/14/89	CHLORIDE	9.00000	mg/L
03C25	07/14/89	BICARBONATE	468.00000	mg/L

03C25	07/14/89	FLUORIDE, TOTAL	0.20000	mg/L
03C25	07/14/89	COLIFORM	0.00000	TC/.1L
03C25	10/25/89	pH	7.30000	S.U.
03C25	10/25/89	SPECIFIC CONDUCTANCE	947.00000	umho/cm
03C25	10/25/89	IRON, TOTAL	0.08000	mg/L
03C25	10/25/89	CALCIUM	83.00000	mg/L
03C25	10/25/89	MAGNESIUM	44.00000	mg/L
03C25	10/25/89	POTASSIUM	2.90000	mg/L
03C25	10/25/89	BICARBONATE	488.00000	mg/L
03C25	10/25/89	TRICHLOROETHYLENE	0.00500	mg/L
03C25	01/30/90	pH	7.40000	S.U.
03C25	01/30/90	SPECIFIC CONDUCTANCE	960.00000	umho/cm
03C25	01/30/90	TOTAL ORGANIC CARBON	1.20000	mg/L
03C25	01/30/90	SODIUM	40.00000	mg/L
03C25	01/30/90	CALCIUM	67.00000	mg/L
03C25	01/30/90	MAGNESIUM	38.00000	mg/L
03C25	01/30/90	POTASSIUM	2.00000	mg/L
03C25	01/30/90	SULFATE	240.00000	mg/L
03C25	01/30/90	CHLORIDE	9.00000	mg/L
03C25	01/30/90	BICARBONATE	451.00000	mg/L
03C25	01/30/90	AMMONIA-N	0.30000	mg/L
03C25	04/18/90	pH	7.30000	S.U.
03C25	04/18/90	SPECIFIC CONDUCTANCE	895.00000	umho/cm
03C25	04/18/90	CALCIUM	118.00000	mg/L
03C25	04/18/90	MAGNESIUM	69.00000	mg/L
03C25	04/18/90	POTASSIUM	3.00000	mg/L
03C25	04/18/90	BICARBONATE	506.00000	mg/L
03C25	07/17/90	pH	7.40000	S.U.
03C25	07/17/90	SPECIFIC CONDUCTANCE	915.00000	umho/cm
03C25	07/17/90	TOTAL ORGANIC CARBON	1.90000	mg/L
03C25	07/17/90	IRON, TOTAL	0.08000	mg/L
03C25	07/17/90	SODIUM	68.00000	mg/L
03C25	07/17/90	CALCIUM	98.00000	mg/L
03C25	07/17/90	MAGNESIUM	55.00000	mg/L
03C25	07/17/90	POTASSIUM	3.00000	mg/L
03C25	07/17/90	BICARBONATE	436.00000	mg/L
03C25	07/17/90	AMMONIA-NITROGEN	0.11000	mg/L
03C25	10/21/90	pH	7.20000	S.U.
03C25	10/21/90	SPECIFIC CONDUCTANCE	1076.00000	umho/cm
03C25	10/21/90	SODIUM	89.00000	mg/L
03C25	10/21/90	CALCIUM	102.00000	mg/L
03C25	10/21/90	MAGNESIUM	56.00000	mg/L
03C25	10/21/90	POTASSIUM	3.00000	mg/L
03C25	10/21/90	AMMONIA-NITROGEN	0.14000	mg/L
03C25	01/17/91	pH	7.29000	S.U.
03C25	01/17/91	SPECIFIC CONDUCTANCE	989.00000	umho/cm
03C25	01/17/91	TOTAL ORGANIC CARBON	1.35000	mg/L
03C25	01/17/91	MANGANESE	0.03000	mg/L
03C25	01/17/91	SODIUM	61.00000	mg/L
03C25	01/17/91	CALCIUM	80.00000	mg/L
03C25	01/17/91	MAGNESIUM	66.00000	mg/L
03C25	01/17/91	POTASSIUM	4.00000	mg/L
03C25	01/17/91	SULFATE	250.00000	mg/L
03C25	01/17/91	CHLORIDE	12.00000	mg/L
03C25	01/17/91	BICARBONATE	488.00000	mg/L
03C25	01/17/91	AMMONIA-NITROGEN	0.14000	mg/L
03C25	04/02/91	pH	7.11000	S.U.
03C25	04/02/91	SPECIFIC CONDUCTANCE	880.00000	umho/cm
03C25	04/02/91	CALCIUM	94.10000	mg/L
03C25	04/02/91	MAGNESIUM	53.30000	mg/L

03C25	04/02/91	POTASSIUM	2.20000	mg/L
03C25	04/02/91	BICARBONATE	538.00000	mg/L
03C25	04/02/91	AMMONIA-NITROGEN	0.38000	mg/L
03C25	07/16/91	pH	7.04000	S.U.
03C25	07/16/91	SPECIFIC CONDUCTANCE	960.00000	umho/cm
03C25	07/16/91	TOTAL ORGANIC CARBON	0.62000	mg/L
03C25	07/16/91	MANGANESE	0.02000	mg/L
03C25	07/16/91	SODIUM	56.10000	mg/L
03C25	07/16/91	CALCIUM	91.90000	mg/L
03C25	07/16/91	MAGNESIUM	50.40000	mg/L
03C25	07/16/91	POTASSIUM	0.90000	mg/L
03C25	07/16/91	BICARBONATE	520.00000	mg/L
03C25	07/16/91	AMMONIA-NITROGEN	0.06000	mg/L
03C25	10/04/91	pH	6.96000	S.U.
03C25	10/04/91	SPECIFIC CONDUCTANCE	910.00000	umho/cm
03C25	10/04/91	SODIUM	51.50000	mg/L
03C25	10/04/91	AMMONIA-NITROGEN	0.13000	mg/L
03C25	10/04/91	BICARBONATE	494.00000	mg/L
03C25	10/04/91	CALCIUM	81.50000	mg/L
03C25	10/04/91	MAGNESIUM	51.70000	mg/L
03C25	10/04/91	POTASSIUM	3.00000	mg/L
03C25	01/09/92	pH	7.60000	S.U.
03C25	01/09/92	SPECIFIC CONDUCTANCE	900.00000	umho/cm
03C25	01/09/92	TOTAL ORGANIC CARBON	1.02000	mg/L
03C25	01/09/92	IRON, TOTAL	0.11600	mg/L
03C25	01/09/92	MANGANESE	0.02700	mg/L
03C25	01/09/92	SODIUM	58.70000	mg/L
03C25	01/09/92	CALCIUM	97.90000	mg/L
03C25	01/09/92	MAGNESIUM	53.30000	mg/L
03C25	01/09/92	POTASSIUM	4.00000	mg/L
03C25	01/09/92	SULFATE	240.00000	mg/L
03C25	01/09/92	CHLORIDE	11.00000	mg/L
03C25	01/09/92	BICARBONATE	436.00000	mg/L
03C25	01/09/92	AMMONIA-NITROGEN	0.12000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C26	10/01/87	pH	10.95000	S.U.
03C26	10/01/87	SPECIFIC CONDUCTANCE	1125.00000	umho/cm
03C26	10/01/87	TOTAL ORGANIC CARBON	14.00000	mg/L
03C26	10/01/87	SODIUM	30.00000	mg/L
03C26	10/01/87	SULFATE	47.00000	mg/L
03C26	10/01/87	CHLORIDE	10.00000	mg/L
03C26	10/01/87	FLUORIDE, TOTAL	0.17000	mg/L
03C26	10/01/87	NITRATE-N	0.15000	mg/L
03C26	10/01/87	RADIUM, TOTAL	1.20000	pCi/l
03C26	10/01/87	GROSS ALPHA	1.80000	pCi/l
03C26	10/01/87	GROSS BETA	22.10000	mlrem/y
03C26	10/01/87	METHYLENE CHLORIDE	0.00200	mg/L
03C26	10/01/87	CHLOROFORM	0.00400	mg/L
03C26	10/01/87	TOLUENE	0.00200	mg/L
03C26	02/04/88	pH	7.75000	S.U.
03C26	02/04/88	SPECIFIC CONDUCTANCE	579.00000	umho/cm
03C26	02/04/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C26	02/04/88	TOTAL ORGANIC HALOGENS	0.02500	mg/L
03C26	02/04/88	MANGANESE	0.01500	mg/L
03C26	02/04/88	SODIUM	18.00000	mg/L
03C26	02/04/88	SULFATE	54.00000	mg/L
03C26	02/04/88	CHLORIDE	5.00000	mg/L
03C26	02/04/88	BARIUM, TOTAL	0.08000	mg/L
03C26	02/04/88	FLUORIDE, TOTAL	0.28000	mg/L
03C26	02/04/88	RADIUM, TOTAL	0.20000	pCi/l
03C26	02/04/88	GROSS ALPHA	0.50000	pCi/l
03C26	02/04/88	GROSS BETA	9.30000	mlrem/y
03C26	02/04/88	COLIFORM	0.00000	#/100ml
03C26	04/24/88	pH	7.22000	S.U.
03C26	04/24/88	SPECIFIC CONDUCTANCE	686.00000	umho/cm
03C26	04/24/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C26	04/24/88	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C26	04/24/88	MANGANESE	0.00900	mg/L
03C26	04/24/88	SODIUM	31.50000	mg/L
03C26	04/24/88	SULFATE	64.00000	mg/L
03C26	04/24/88	CHLORIDE	2.00000	mg/L
03C26	04/24/88	BARIUM, TOTAL	0.05000	mg/L
03C26	04/24/88	FLUORIDE, TOTAL	0.47000	mg/L
03C26	04/24/88	NITRATE-N	0.14000	mg/L
03C26	04/24/88	RADIUM, TOTAL	0.30000	mg/L
03C26	04/24/88	GROSS ALPHA	6.30000	mg/L
03C26	04/24/88	GROSS BETA	6.40000	mg/L
03C26	04/24/88	COLIFORM	0.00000	#/100ml
03C26	04/24/88	TRICHLOROETHYLENE	0.00800	mg/L
03C26	07/30/88	pH	7.20000	S.U.
03C26	07/30/88	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C26	07/30/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C26	07/30/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C26	07/30/88	IRON, TOTAL	0.02000	mg/L
03C26	07/30/88	MANGANESE	0.04000	mg/L
03C26	07/30/88	SODIUM	23.00000	mg/L
03C26	07/30/88	SULFATE	70.00000	mg/L
03C26	07/30/88	CHLORIDE	11.00000	mg/L
03C26	07/30/88	FLUORIDE, TOTAL	0.45000	mg/L
03C26	07/30/88	RADIUM, TOTAL	0.20000	pcu/L
03C26	07/30/88	GROSS ALPHA	7.00000	pcu/L
03C26	07/30/88	GROSS BETA	7.00000	pcu/L
03C26	07/30/88	COLIFORM	1.00000	TC/.1L

03C26	07/30/88	TRICHLOROETHYLENE	0.01000	mg/L
03C26	07/30/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C26	10/25/88	pH	7.70000	S.U.
03C26	10/25/88	SPECIFIC CONDUCTANCE	583.00000	umho/cm
03C26	10/25/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C26	10/25/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C26	10/25/88	MANGANESE	0.07000	mg/L
03C26	10/25/88	SODIUM	15.00000	mg/L
03C26	10/25/88	SULFATE	95.00000	mg/L
03C26	10/25/88	CHLORIDE	5.00000	mg/L
03C26	10/25/88	BICARBONATE	695.00000	mg/L
03C26	10/25/88	CALCIUM	86.00000	mg/L
03C26	10/25/88	MAGNESIUM	42.00000	mg/L
03C26	10/25/88	POTASSIUM	4.00000	mg/L
03C26	10/25/88	FLUORIDE, TOTAL	0.14000	mg/L
03C26	10/25/88	GROSS BETA	26.00000	pcu/L
03C26	10/25/88	COLIFORM	0.00000	TC/.1L
03C26	10/25/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C26	01/11/89	pH	7.70000	S.U.
03C26	01/11/89	SPECIFIC CONDUCTANCE	718.00000	umho/cm
03C26	01/11/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C26	01/11/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C26	01/11/89	MANGANESE	0.11000	mg/L
03C26	01/11/89	SODIUM	27.00000	mg/L
03C26	01/11/89	SULFATE	125.00000	mg/L
03C26	01/11/89	CHLORIDE	6.00000	mg/L
03C26	01/11/89	BICARBONATE	848.00000	mg/L
03C26	01/11/89	CALCIUM	96.00000	mg/L
03C26	01/11/89	MAGNESIUM	45.00000	mg/L
03C26	01/11/89	POTASSIUM	2.80000	mg/L
03C26	01/11/89	BARIUM, TOTAL	0.07000	mg/L
03C26	01/11/89	FLUORIDE, TOTAL	0.72000	mg/L
03C26	01/11/89	COLIFORM	0.00000	TC/.1L
03C26	01/11/89	TRICHLOROETHYLENE	0.01000	mg/L
03C26	04/12/89	pH	7.20000	S.U.
03C26	04/12/89	SPECIFIC CONDUCTANCE	725.00000	umho/cm
03C26	04/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C26	04/12/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C26	04/12/89	IRON, TOTAL	0.10000	mg/L
03C26	04/12/89	MANGANESE	0.10300	mg/L
03C26	04/12/89	SODIUM	34.00000	mg/L
03C26	04/12/89	CALCIUM	79.50000	mg/L
03C26	04/12/89	MAGNESIUM	39.00000	mg/L
03C26	04/12/89	POTASSIUM	4.50000	mg/L
03C26	04/12/89	SULFATE	88.00000	mg/L
03C26	04/12/89	CHLORIDE	6.00000	mg/L
03C26	04/12/89	BICARBONATE	402.00000	mg/L
03C26	04/12/89	FLUORIDE, TOTAL	0.26000	mg/L
03C26	04/12/89	COLIFORM	0.00000	TC/.1L
03C26	04/12/89	TRICHLOROETHYLENE	0.04000	mg/L
03C26	07/14/89	pH	7.30000	S.U.
03C26	07/14/89	SPECIFIC CONDUCTANCE	802.00000	umho/cm
03C26	07/14/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C26	07/14/89	CALCIUM	78.00000	mg/L
03C26	07/14/89	MAGNESIUM	36.00000	mg/L
03C26	07/14/89	POTASSIUM	2.00000	mg/L
03C26	07/14/89	SULFATE	78.00000	mg/L
03C26	07/14/89	CHLORIDE	8.00000	mg/L
03C26	07/14/89	BICARBONATE	224.00000	mg/L
03C26	07/14/89	BARIUM, TOTAL	0.04000	mg/L

03C26	07/14/89	FLUORIDE, TOTAL	0.20000	mg/L
03C26	07/14/89	COLIFORM	0.00000	TC/.1L
03C26	07/14/89	TRICHLOROETHYLENE	0.00500	mg/L
03C26	07/14/89	SODIUM	14.00000	mg/L
03C26	10/22/89	pH	7.20000	S.U.
03C26	10/22/89	SPECIFIC CONDUCTANCE	715.00000	umho/cm
03C26	10/22/89	CALCIUM	69.00000	mg/L
03C26	10/22/89	MAGNESIUM	32.00000	mg/L
03C26	10/22/89	POTASSIUM	3.30000	mg/L
03C26	10/22/89	BICARBONATE	439.00000	mg/L
03C26	10/22/89	TNT	0.01700	mg/L
03C26	10/22/89	TRICHLOROETHYLENE	0.00700	mg/L
03C26	01/31/90	pH	7.60000	S.U.
03C26	01/31/90	SPECIFIC CONDUCTANCE	725.00000	umho/cm
03C26	01/31/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C26	01/31/90	SODIUM	15.00000	mg/L
03C26	01/31/90	CALCIUM	73.00000	mg/L
03C26	01/31/90	MAGNESIUM	34.00000	mg/L
03C26	01/31/90	POTASSIUM	2.00000	mg/L
03C26	01/31/90	SULFATE	56.00000	mg/L
03C26	01/31/90	CHLORIDE	12.00000	mg/L
03C26	01/31/90	BICARBONATE	439.00000	mg/L
03C26	04/25/90	pH	7.20000	S.U.
03C26	04/25/90	SPECIFIC CONDUCTANCE	700.00000	umho/cm
03C26	04/25/90	CALCIUM	96.00000	mg/L
03C26	04/25/90	MAGNESIUM	54.00000	mg/L
03C26	04/25/90	POTASSIUM	5.00000	mg/L
03C26	04/25/90	BICARBONATE	479.00000	mg/L
03C26	04/25/90	TRICHLOROETHYLENE	0.00400	mg/L
03C26	07/17/90	pH	7.30000	S.U.
03C26	07/17/90	SPECIFIC CONDUCTANCE	711.00000	umho/cm
03C26	07/17/90	TOTAL ORGANIC CARBON	1.30000	mg/L
03C26	07/17/90	SODIUM	27.00000	mg/L
03C26	07/17/90	CALCIUM	92.00000	mg/L
03C26	07/17/90	MAGNESIUM	46.00000	mg/L
03C26	07/17/90	POTASSIUM	2.00000	mg/L
03C26	07/17/90	BICARBONATE	448.00000	mg/L
03C26	07/17/90	AMMONIA-NITROGEN	0.07000	mg/L
03C26	07/17/90	TRICHLOROETHYLENE	0.00600	mg/L
03C26	10/18/90	pH	7.20000	S.U.
03C26	10/18/90	SPECIFIC CONDUCTANCE	698.00000	umho/cm
03C26	10/18/90	SODIUM	39.00000	mg/L
03C26	10/18/90	CALCIUM	96.00000	mg/L
03C26	10/18/90	MAGNESIUM	46.00000	mg/L
03C26	10/18/90	POTASSIUM	2.00000	mg/L
03C26	10/18/90	TRICHLOROETHYLENE	0.00300	mg/L
03C26	01/18/91	pH	7.10000	S.U.
03C26	01/18/91	SPECIFIC CONDUCTANCE	780.00000	umho/cm
03C26	01/18/91	TOTAL ORGANIC CARBON	1.52000	mg/L
03C26	01/18/91	MANGANESE	0.03000	mg/L
03C26	01/18/91	SODIUM	31.00000	mg/L
03C26	01/18/91	CALCIUM	72.00000	mg/L
03C26	01/18/91	MAGNESIUM	54.00000	mg/L
03C26	01/18/91	POTASSIUM	3.00000	mg/L
03C26	01/18/91	SULFATE	78.00000	mg/L
03C26	01/18/91	CHLORIDE	12.00000	mg/L
03C26	01/18/91	BICARBONATE	494.00000	mg/L
03C26	01/18/91	TRICHLOROETHYLENE	0.00200	mg/L
03C26	04/07/91	pH	7.02000	S.U.
03C26	04/07/91	SPECIFIC CONDUCTANCE	748.00000	umho/cm

03C26	04/07/91	CALCIUM	74.90000	mg/L
03C26	04/07/91	MAGNESIUM	36.90000	mg/L
03C26	04/07/91	POTASSIUM	4.90000	mg/L
03C26	04/07/91	BICARBONATE	490.00000	mg/L
03C26	04/07/91	AMMONIA-NITROGEN	0.06000	mg/L
03C26	04/07/91	TRICHLOROETHYLENE	0.00300	mg/L
03C26	07/15/91	pH	7.05000	S.U.
03C26	07/15/91	SPECIFIC CONDUCTANCE	718.00000	umho/cm
03C26	07/15/91	TOTAL ORGANIC CARBON	0.83000	mg/L
03C26	07/15/91	IRON, TOTAL	0.05000	mg/L
03C26	07/15/91	MANGANESE	0.01000	mg/L
03C26	07/15/91	SODIUM	12.90000	mg/L
03C26	07/15/91	CALCIUM	70.60000	mg/L
03C26	07/15/91	MAGNESIUM	36.40000	mg/L
03C26	07/15/91	POTASSIUM	1.10000	mg/L
03C26	07/15/91	BICARBONATE	472.00000	mg/L
03C26	10/07/91	pH	7.37000	S.U.
03C26	10/07/91	SPECIFIC CONDUCTANCE	699.00000	umho/cm
03C26	10/07/91	SODIUM	22.60000	mg/L
03C26	10/07/91	BICARBONATE	494.00000	mg/L
03C26	10/07/91	CALCIUM	61.80000	mg/L
03C26	10/07/91	MAGNESIUM	35.60000	mg/L
03C26	10/07/91	POTASSIUM	4.80000	mg/L
03C26	01/10/92	pH	7.80000	S.U.
03C26	01/10/92	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C26	01/10/92	TOTAL ORGANIC CARBON	1.05000	mg/L
03C26	01/10/92	IRON, TOTAL	0.11600	mg/L
03C26	01/10/92	MANGANESE	0.02700	mg/L
03C26	01/10/92	SODIUM	26.40000	mg/L
03C26	01/10/92	CALCIUM	101.30000	mg/L
03C26	01/10/92	MAGNESIUM	34.20000	mg/L
03C26	01/10/92	POTASSIUM	5.40000	mg/L
03C26	01/10/92	CHLORIDE	15.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C27	10/01/87	pH	6.91000	S.U.
03C27	10/01/87	SPECIFIC CONDUCTANCE	340.00000	umho/cm
03C27	10/01/87	TOTAL ORGANIC CARBON	5.00000	mg/L
03C27	10/01/87	SODIUM	11.00000	mg/L
03C27	10/01/87	SULFATE	16.00000	mg/L
03C27	10/01/87	CHLORIDE	12.00000	mg/L
03C27	10/01/87	FLUORIDE, TOTAL	0.10000	mg/L
03C27	10/01/87	RADIUM, TOTAL	0.50000	pCi/l
03C27	10/01/87	GROSS ALPHA	0.00000	pCi/l
03C27	10/01/87	GROSS BETA	1.90000	mlrem/y
03C27	10/01/87	METHYLENE CHLORIDE	0.00300	mg/L
03C27	10/01/87	CHLOROFORM	0.00400	mg/L
03C27	10/01/87	TRICHLOROETHENE	0.00200	mg/L
03C27	02/05/88	pH	7.72000	S.U.
03C27	02/05/88	SPECIFIC CONDUCTANCE	285.00000	umho/cm
03C27	02/05/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C27	02/05/88	MANGANESE	0.09000	mg/L
03C27	02/05/88	SODIUM	14.00000	mg/L
03C27	02/05/88	SULFATE	17.00000	mg/L
03C27	02/05/88	CHLORIDE	6.00000	mg/L
03C27	02/05/88	MERCURY, TOTAL	0.00100	mg/L
03C27	02/05/88	SELENIUM, TOTAL	0.01000	mg/L
03C27	02/05/88	FLUORIDE, TOTAL	0.14000	mg/L
03C27	02/05/88	NITRATE-N	0.26000	mg/L
03C27	02/05/88	RADIUM, TOTAL	0.20000	pCi/l
03C27	02/05/88	GROSS ALPHA	0.00000	pCi/l
03C27	02/05/88	GROSS BETA	0.60000	mlrem/y
03C27	02/05/88	COLIFORM	0.00000	#/100ml
03C27	04/22/88	pH	7.50000	S.U.
03C27	04/22/88	SPECIFIC CONDUCTANCE	292.00000	umho/cm
03C27	04/22/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C27	04/22/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C27	04/22/88	IRON, TOTAL	0.01000	mg/L
03C27	04/22/88	SODIUM	10.00000	mg/L
03C27	04/22/88	SULFATE	11.00000	mg/L
03C27	04/22/88	CHLORIDE	7.00000	mg/L
03C27	04/22/88	NITRATE-N	0.23000	mg/L
03C27	04/22/88	RADIUM, TOTAL	0.00000	mg/L
03C27	04/22/88	GROSS ALPHA	2.90000	mg/L
03C27	04/22/88	GROSS BETA	6.30000	mg/L
03C27	04/22/88	COLIFORM	0.00000	#/100ml
03C27	10/22/88	pH	8.00000	S.U.
03C27	10/22/88	SPECIFIC CONDUCTANCE	226.00000	umho/cm
03C27	10/22/88	TOTAL ORGANIC CARBON	9.00000	mg/L
03C27	10/22/88	MANGANESE	0.17000	mg/L
03C27	10/22/88	SODIUM	56.00000	mg/L
03C27	10/22/88	SULFATE	98.00000	mg/L
03C27	10/22/88	CHLORIDE	5.00000	mg/L
03C27	10/22/88	BICARBONATE	317.00000	mg/L
03C27	10/22/88	CALCIUM	27.00000	mg/L
03C27	10/22/88	MAGNESIUM	2.00000	mg/L
03C27	10/22/88	POTASSIUM	2.00000	mg/L
03C27	10/22/88	FLUORIDE, TOTAL	1.00000	mg/L
03C27	10/22/88	GROSS BETA	3.00000	pcu/L
03C27	10/22/88	COLIFORM	0.00000	TC/.1L
03C27	01/15/89	pH	7.70000	S.U.
03C27	01/15/89	SPECIFIC CONDUCTANCE	289.00000	umho/cm
03C27	01/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L

03C27	01/15/89	SODIUM	17.00000	mg/L
03C27	01/15/89	SULFATE	70.00000	mg/L
03C27	01/15/89	CHLORIDE	7.00000	mg/L
03C27	01/15/89	AMMONIA-NITROGEN	0.10000	mg/L
03C27	01/15/89	BICARBONATE	342.00000	mg/L
03C27	01/15/89	CALCIUM	62.00000	mg/L
03C27	01/15/89	MAGNESIUM	3.00000	mg/L
03C27	01/15/89	POTASSIUM	1.20000	mg/L
03C27	01/15/89	FLUORIDE, TOTAL	0.30000	mg/L
03C27	01/15/89	NITRATE-N	0.10000	mg/L
03C27	01/15/89	COLIFORM	0.00000	TC/.1L
03C27	04/13/89	pH	7.80000	S.U.
03C27	04/13/89	SPECIFIC CONDUCTANCE	266.00000	umho/cm
03C27	04/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C27	04/13/89	SODIUM	5.40000	mg/L
03C27	04/13/89	CALCIUM	49.40000	mg/L
03C27	04/13/89	MAGNESIUM	2.60000	mg/L
03C27	04/13/89	POTASSIUM	2.00000	mg/L
03C27	04/13/89	SULFATE	7.00000	mg/L
03C27	04/13/89	CHLORIDE	11.00000	mg/L
03C27	04/13/89	BICARBONATE	215.00000	mg/L
03C27	04/13/89	FLUORIDE, TOTAL	0.05000	mg/L
03C27	04/13/89	NITRATE-N	0.24000	mg/L
03C27	04/13/89	COLIFORM	0.00000	TC/.1L
03C27	04/13/89	TRICHLOROETHYLENE	0.00500	mg/L
03C27	07/15/89	pH	7.50000	S.U.
03C27	07/15/89	SPECIFIC CONDUCTANCE	299.00000	umho/cm
03C27	07/15/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C27	07/15/89	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C27	07/15/89	SODIUM	8.00000	mg/L
03C27	07/15/89	CALCIUM	50.00000	mg/L
03C27	07/15/89	MAGNESIUM	3.00000	mg/L
03C27	07/15/89	POTASSIUM	1.00000	mg/L
03C27	07/15/89	SULFATE	14.00000	mg/L
03C27	07/15/89	CHLORIDE	12.00000	mg/L
03C27	07/15/89	BICARBONATE	195.00000	mg/L
03C27	07/15/89	COLIFORM	0.00000	TC/.1L
03C27	07/15/89	TRICHLOROETHYLENE	0.01000	mg/L
03C27	10/24/89	pH	7.70000	S.U.
03C27	10/24/89	SPECIFIC CONDUCTANCE	282.00000	umho/cm
03C27	10/24/89	CALCIUM	42.00000	mg/L
03C27	10/24/89	MAGNESIUM	2.00000	mg/L
03C27	10/24/89	POTASSIUM	1.30000	mg/L
03C27	10/24/89	BICARBONATE	225.00000	mg/L
03C27	10/24/89	TRICHLOROETHYLENE	0.01100	mg/L
03C27	01/31/90	pH	7.70000	S.U.
03C27	01/31/90	SPECIFIC CONDUCTANCE	271.00000	umho/cm
03C27	01/31/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03C27	01/31/90	SODIUM	7.00000	mg/L
03C27	01/31/90	CALCIUM	50.00000	mg/L
03C27	01/31/90	MAGNESIUM	2.00000	mg/L
03C27	01/31/90	POTASSIUM	1.00000	mg/L
03C27	01/31/90	SULFATE	11.00000	mg/L
03C27	01/31/90	CHLORIDE	14.00000	mg/L
03C27	01/31/90	BICARBONATE	415.00000	mg/L
03C27	01/31/90	TRICHLOROETHYLENE	0.00200	mg/L
03C27	04/23/90	pH	7.30000	S.U.
03C27	04/23/90	SPECIFIC CONDUCTANCE	268.00000	umho/cm
03C27	04/23/90	CALCIUM	58.00000	mg/L
03C27	04/23/90	MAGNESIUM	8.00000	mg/L

03C27	04/23/90	POTASSIUM	2.00000	mg/L
03C27	04/23/90	BICARBONATE	227.00000	mg/L
03C27	07/10/90	pH	7.70000	S.U.
03C27	07/10/90	SPECIFIC CONDUCTANCE	294.00000	umho/cm
03C27	07/10/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C27	07/10/90	IRON, TOTAL	0.49000	mg/L
03C27	07/10/90	SODIUM	10.00000	mg/L
03C27	07/10/90	CALCIUM	51.00000	mg/L
03C27	07/10/90	MAGNESIUM	3.00000	mg/L
03C27	07/10/90	POTASSIUM	1.00000	mg/L
03C27	07/10/90	BICARBONATE	176.00000	mg/L
03C27	07/10/90	TRICHLOROETHYLENE	0.00200	mg/L
03C27	10/19/90	pH	8.17000	S.U.
03C27	10/19/90	SPECIFIC CONDUCTANCE	294.00000	umho/cm
03C27	10/19/90	SODIUM	7.00000	mg/L
03C27	10/19/90	CALCIUM	54.00000	mg/L
03C27	10/19/90	MAGNESIUM	3.00000	mg/L
03C27	01/13/91	pH	7.80000	S.U.
03C27	01/13/91	SPECIFIC CONDUCTANCE	287.00000	umho/cm
03C27	01/13/91	TOTAL ORGANIC CARBON	1.33000	mg/L
03C27	01/13/91	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C27	01/13/91	SODIUM	6.00000	mg/L
03C27	01/13/91	CALCIUM	39.00000	mg/L
03C27	01/13/91	MAGNESIUM	32.00000	mg/L
03C27	01/13/91	POTASSIUM	1.00000	mg/L
03C27	01/13/91	SULFATE	11.00000	mg/L
03C27	01/13/91	CHLORIDE	15.00000	mg/L
03C27	01/13/91	BICARBONATE	195.00000	mg/L
03C27	01/13/91	TRICHLOROETHYLENE	0.00200	mg/L
03C27	04/07/91	pH	7.10000	S.U.
03C27	04/07/91	SPECIFIC CONDUCTANCE	257.00000	umho/cm
03C27	04/07/91	CALCIUM	41.20000	mg/L
03C27	04/07/91	MAGNESIUM	2.00000	mg/L
03C27	04/07/91	POTASSIUM	1.20000	mg/L
03C27	04/07/91	BICARBONATE	155.00000	mg/L
03C27	04/07/91	TRICHLOROETHYLENE	0.00100	mg/L
03C27	06/29/91	pH	7.70000	S.U.
03C27	06/29/91	SPECIFIC CONDUCTANCE	266.00000	umho/cm
03C27	06/29/91	TOTAL ORGANIC CARBON	1.20000	mg/L
03C27	06/29/91	TOTAL ORGANIC HALOGENS	0.18000	mg/L
03C27	06/29/91	MANGANESE	0.01000	mg/L
03C27	06/29/91	SODIUM	5.00000	mg/L
03C27	06/29/91	CALCIUM	40.80000	mg/L
03C27	06/29/91	MAGNESIUM	2.20000	mg/L
03C27	06/29/91	POTASSIUM	1.40000	mg/L
03C27	06/29/91	BICARBONATE	227.00000	mg/L
03C27	06/29/91	TRICHLOROETHENE	0.00100	mg/L
03C27	10/02/91	pH	7.37000	S.U.
03C27	10/02/91	SPECIFIC CONDUCTANCE	273.00000	umho/cm
03C27	10/02/91	SODIUM	8.10000	mg/L
03C27	10/02/91	BICARBONATE	214.00000	mg/L
03C27	10/02/91	CALCIUM	48.20000	mg/L
03C27	10/02/91	MAGNESIUM	3.60000	mg/L
03C27	10/02/91	POTASSIUM	0.60000	mg/L
03C27	01/06/92	pH	8.60000	S.U.
03C27	01/06/92	SPECIFIC CONDUCTANCE	240.00000	umho/cm
03C27	01/06/92	TOTAL ORGANIC CARBON	0.89000	mg/L
03C27	01/06/92	SODIUM	4.20000	mg/L
03C27	01/06/92	CALCIUM	47.30000	mg/L
03C27	01/06/92	MAGNESIUM	2.60000	mg/L

03C27	01/06/92	POTASSIUM	1.10000 mg/L
03C27	01/06/92	SULFATE	4.00000 mg/L
03C27	01/06/92	CHLORIDE	9.00000 mg/L
03C27	01/06/92	BICARBONATE	167.00000 mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C28	10/02/87	pH	6.62000	S.U.
03C28	10/02/87	SPECIFIC CONDUCTANCE	855.00000	umho/cm
03C28	10/02/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C28	10/02/87	SODIUM	32.00000	mg/L
03C28	10/02/87	SULFATE	300.00000	mg/L
03C28	10/02/87	CHLORIDE	9.00000	mg/L
03C28	10/02/87	FLUORIDE, TOTAL	0.12000	mg/L
03C28	10/02/87	NITRATE-N	0.20000	mg/L
03C28	10/02/87	RADIUM, TOTAL	0.40000	pCi/l
03C28	10/02/87	GROSS ALPHA	0.00000	pCi/l
03C28	10/02/87	GROSS BETA	0.00000	mlrem/y
03C28	10/02/87	METHYLENE CHLORIDE	0.00300	mg/L
03C28	02/02/88	pH	6.70000	S.U.
03C28	02/02/88	SPECIFIC CONDUCTANCE	863.00000	umho/cm
03C28	02/02/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C28	02/02/88	MANGANESE	0.02000	mg/L
03C28	02/02/88	SODIUM	29.00000	mg/L
03C28	02/02/88	SULFATE	53.00000	mg/L
03C28	02/02/88	CHLORIDE	6.00000	mg/L
03C28	02/02/88	PHENOLS	0.03000	mg/L
03C28	02/02/88	MERCURY, TOTAL	0.01000	mg/L
03C28	02/02/88	FLUORIDE, TOTAL	0.24000	mg/L
03C28	02/02/88	NITRATE-N	0.20000	mg/L
03C28	02/02/88	RADIUM, TOTAL	0.40000	pCi/l
03C28	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C28	02/02/88	GROSS BETA	0.00000	mlrem/y
03C28	02/02/88	COLIFORM	0.00000	#/100ml
03C28	04/21/88	pH	7.42000	S.U.
03C28	04/21/88	SPECIFIC CONDUCTANCE	858.00000	umho/cm
03C28	04/21/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C28	04/21/88	IRON, TOTAL	0.09000	mg/L
03C28	04/21/88	SODIUM	22.00000	mg/L
03C28	04/21/88	SULFATE	170.00000	mg/L
03C28	04/21/88	CHLORIDE	2.00000	mg/L
03C28	04/21/88	FLUORIDE, TOTAL	0.47000	mg/L
03C28	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03C28	04/21/88	GROSS ALPHA	0.00000	mg/L
03C28	04/21/88	GROSS BETA	3.90000	mg/L
03C28	04/21/88	COLIFORM	0.00000	#/100ml
03C28	07/26/88	pH	7.40000	S.U.
03C28	07/26/88	SPECIFIC CONDUCTANCE	945.00000	umho/cm
03C28	07/26/88	TOTAL ORGANIC CARBON	8.00000	mg/L
03C28	07/26/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C28	07/26/88	SODIUM	36.00000	mg/L
03C28	07/26/88	SULFATE	265.00000	mg/L
03C28	07/26/88	CHLORIDE	10.00000	mg/L
03C28	07/26/88	BARIUM, TOTAL	0.05000	mg/L
03C28	07/26/88	FLUORIDE, TOTAL	0.28000	mg/L
03C28	07/26/88	NITRATE-N	0.24000	mg/L
03C28	07/26/88	RADIUM, TOTAL	0.00000	pcu/L
03C28	07/26/88	GROSS ALPHA	0.00000	pcu/L
03C28	07/26/88	GROSS BETA	4.30000	pcu/L
03C28	07/26/88	COLIFORM	8.00000	TC/.1L
03C28	10/22/88	pH	7.20000	S.U.
03C28	10/22/88	SPECIFIC CONDUCTANCE	6.90000	umho/cm
03C28	10/22/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C28	10/22/88	SODIUM	48.00000	mg/L
03C28	10/22/88	SULFATE	300.00000	mg/L

03C28	10/22/88	CHLORIDE	3.00000	mg/L
03C28	10/22/88	BICARBONATE	7.20000	mg/L
03C28	10/22/88	CALCIUM	84.00000	mg/L
03C28	10/22/88	MAGNESIUM	38.00000	mg/L
03C28	10/22/88	POTASSIUM	3.00000	mg/L
03C28	10/22/88	FLUORIDE, TOTAL	0.16000	mg/L
03C28	10/22/88	NITRATE-N	0.12000	mg/L
03C28	10/22/88	GROSS BETA	0.00000	pcu/L
03C28	10/22/88	COLIFORM	0.00000	TC/.1L
03C28	01/15/89	pH	7.50000	S.U.
03C28	01/15/89	SPECIFIC CONDUCTANCE	834.00000	umho/cm
03C28	01/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C28	01/15/89	SODIUM	40.00000	mg/L
03C28	01/15/89	SULFATE	290.00000	mg/L
03C28	01/15/89	CHLORIDE	6.00000	mg/L
03C28	01/15/89	BICARBONATE	427.00000	mg/L
03C28	01/15/89	CALCIUM	118.00000	mg/L
03C28	01/15/89	MAGNESIUM	41.00000	mg/L
03C28	01/15/89	POTASSIUM	1.60000	mg/L
03C28	01/15/89	FLUORIDE, TOTAL	0.30000	mg/L
03C28	01/15/89	NITRATE-N	0.10000	mg/L
03C28	01/15/89	COLIFORM	0.00000	TC/.1L
03C28	04/12/89	pH	7.50000	S.U.
03C28	04/12/89	SPECIFIC CONDUCTANCE	808.00000	umho/cm
03C28	04/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C28	04/12/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C28	04/12/89	SODIUM	35.00000	mg/L
03C28	04/12/89	CALCIUM	98.00000	mg/L
03C28	04/12/89	MAGNESIUM	40.00000	mg/L
03C28	04/12/89	POTASSIUM	2.50000	mg/L
03C28	04/12/89	SULFATE	250.00000	mg/L
03C28	04/12/89	CHLORIDE	10.00000	mg/L
03C28	04/12/89	BICARBONATE	235.00000	mg/L
03C28	04/12/89	FLUORIDE, TOTAL	0.17000	mg/L
03C28	04/12/89	NITRATE-N	0.25000	mg/L
03C28	04/12/89	COLIFORM	0.00000	TC/.1L
03C28	04/12/89	TRICHLOROETHYLENE	0.01400	mg/L
03C28	07/11/89	pH	7.70000	S.U.
03C28	07/11/89	SPECIFIC CONDUCTANCE	906.00000	umho/cm
03C28	07/11/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C28	07/11/89	SODIUM	22.00000	mg/L
03C28	07/11/89	CALCIUM	74.00000	mg/L
03C28	07/11/89	MAGNESIUM	29.00000	mg/L
03C28	07/11/89	POTASSIUM	2.00000	mg/L
03C28	07/11/89	SULFATE	310.00000	mg/L
03C28	07/11/89	CHLORIDE	11.00000	mg/L
03C28	07/11/89	BICARBONATE	244.00000	mg/L
03C28	07/11/89	BARIUM, TOTAL	0.03000	mg/L
03C28	07/11/89	FLUORIDE, TOTAL	0.14000	mg/L
03C28	07/11/89	NITRATE-N	0.10000	mg/L
03C28	07/11/89	COLIFORM	3.00000	TC/.1L
03C28	10/20/89	pH	7.50000	S.U.
03C28	10/20/89	SPECIFIC CONDUCTANCE	634.00000	umho/cm
03C28	10/20/89	CALCIUM	70.00000	mg/L
03C28	10/20/89	MAGNESIUM	21.00000	mg/L
03C28	10/20/89	POTASSIUM	1.30000	mg/L
03C28	10/20/89	BICARBONATE	254.00000	mg/L
03C28	10/20/89	TRICHLOROETHYLENE	0.00300	mg/L
03C28	01/31/90	pH	7.70000	S.U.
03C28	01/31/90	SPECIFIC CONDUCTANCE	617.00000	umho/cm

03C28	01/31/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C28	01/31/90	SODIUM	4.00000	mg/L
03C28	01/31/90	CALCIUM	51.00000	mg/L
03C28	01/31/90	MAGNESIUM	10.00000	mg/L
03C28	01/31/90	POTASSIUM	1.00000	mg/L
03C28	01/31/90	SULFATE	160.00000	mg/L
03C28	01/31/90	CHLORIDE	9.00000	mg/L
03C28	01/31/90	BICARBONATE	305.00000	mg/L
03C28	01/31/90	AMMONIA-NITROGEN	0.20000	mg/L
03C28	01/31/90	TRICHLOROETHYLENE	0.00500	mg/L
03C28	01/31/90	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C28	04/18/90	pH	7.70000	S.U.
03C28	04/18/90	SPECIFIC CONDUCTANCE	561.00000	umho/cm
03C28	04/18/90	CALCIUM	107.00000	mg/L
03C28	04/18/90	MAGNESIUM	33.00000	mg/L
03C28	04/18/90	POTASSIUM	1.00000	mg/L
03C28	04/18/90	BICARBONATE	293.00000	mg/L
03C28	07/11/90	pH	7.60000	S.U.
03C28	07/11/90	SPECIFIC CONDUCTANCE	776.00000	umho/cm
03C28	07/11/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C28	07/11/90	IRON, TOTAL	0.05000	mg/L
03C28	07/11/90	SODIUM	42.00000	mg/L
03C28	07/11/90	CALCIUM	108.00000	mg/L
03C28	07/11/90	MAGNESIUM	40.00000	mg/L
03C28	07/11/90	POTASSIUM	1.00000	mg/L
03C28	07/11/90	BICARBONATE	245.00000	mg/L
03C28	10/20/90	pH	7.50000	S.U.
03C28	10/20/90	SPECIFIC CONDUCTANCE	674.00000	umho/cm
03C28	10/20/90	SODIUM	23.00000	mg/L
03C28	10/20/90	CALCIUM	88.00000	mg/L
03C28	10/20/90	MAGNESIUM	20.00000	mg/L
03C28	10/20/90	POTASSIUM	1.00000	mg/L
03C28	01/13/91	pH	7.60000	S.U.
03C28	01/13/91	SPECIFIC CONDUCTANCE	711.00000	umho/cm
03C28	01/13/91	TOTAL ORGANIC CARBON	2.19000	mg/L
03C28	01/13/91	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C28	01/13/91	MANGANESE	0.01000	mg/L
03C28	01/13/91	SODIUM	35.00000	mg/L
03C28	01/13/91	CALCIUM	80.00000	mg/L
03C28	01/13/91	MAGNESIUM	48.00000	mg/L
03C28	01/13/91	POTASSIUM	2.00000	mg/L
03C28	01/13/91	SULFATE	320.00000	mg/L
03C28	01/13/91	CHLORIDE	17.00000	mg/L
03C28	01/13/91	BICARBONATE	250.00000	mg/L
03C28	04/03/91	pH	7.27000	S.U.
03C28	04/03/91	SPECIFIC CONDUCTANCE	564.00000	umho/cm
03C28	04/03/91	CALCIUM	75.20000	mg/L
03C28	04/03/91	MAGNESIUM	18.00000	mg/L
03C28	04/03/91	POTASSIUM	3.60000	mg/L
03C28	04/03/91	BICARBONATE	281.00000	mg/L
03C28	04/03/91	AMMONIA-NITROGEN	0.21000	mg/L
03C28	04/03/91	TRICHLOROETHYLENE	0.01100	mg/L
03C28	07/16/91	pH	7.37000	S.U.
03C28	07/16/91	SPECIFIC CONDUCTANCE	584.00000	umho/cm
03C28	07/16/91	TOTAL ORGANIC CARBON	1.08000	mg/L
03C28	07/16/91	IRON, TOTAL	0.33000	mg/L
03C28	07/16/91	MANGANESE	0.35000	mg/L
03C28	07/16/91	SODIUM	15.00000	mg/L
03C28	07/16/91	CALCIUM	73.30000	mg/L
03C28	07/16/91	MAGNESIUM	38.50000	mg/L

03C28	07/16/91	POTASSIUM	5.60000	mg/L
03C28	07/16/91	BICARBONATE	287.00000	mg/L
03C28	07/16/91	TRICHLOROETHENE	0.00800	mg/L
03C28	10/04/91	pH	7.21000	S.U.
03C28	10/04/91	SPECIFIC CONDUCTANCE	545.00000	umho/cm
03C28	10/04/91	SODIUM	25.30000	mg/L
03C28	10/04/91	TRICHLOROETHYLENE	0.00700	mg/L
03C28	10/04/91	BICARBONATE	268.00000	mg/L
03C28	10/04/91	CALCIUM	84.60000	mg/L
03C28	10/04/91	MAGNESIUM	26.80000	mg/L
03C28	10/04/91	POTASSIUM	0.90000	mg/L
03C28	01/02/92	pH	7.80000	S.U.
03C28	01/02/92	SPECIFIC CONDUCTANCE	555.00000	umho/cm
03C28	01/02/92	TOTAL ORGANIC CARBON	1.13000	mg/L
03C28	01/02/92	SODIUM	19.90000	mg/L
03C28	01/02/92	CALCIUM	87.10000	mg/L
03C28	01/02/92	MAGNESIUM	28.90000	mg/L
03C28	01/02/92	POTASSIUM	2.50000	mg/L
03C28	01/02/92	SULFATE	265.00000	mg/L
03C28	01/02/92	CHLORIDE	10.00000	mg/L
03C28	01/02/92	BICARBONATE	239.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C29	10/05/87	pH	7.58000	S.U.
03C29	10/05/87	SPECIFIC CONDUCTANCE	970.00000	umho/cm
03C29	10/05/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C29	10/05/87	TOTAL ORGANIC HALOGENS	0.01300	mg/L
03C29	10/05/87	MANGANESE	0.07000	mg/L
03C29	10/05/87	SODIUM	60.00000	mg/L
03C29	10/05/87	SULFATE	270.00000	mg/L
03C29	10/05/87	CHLORIDE	11.00000	mg/L
03C29	10/05/87	FLUORIDE, TOTAL	0.16000	mg/L
03C29	10/05/87	RADIUM, TOTAL	0.50000	pCi/l
03C29	10/05/87	GROSS ALPHA	0.00000	pCi/l
03C29	10/05/87	GROSS BETA	26.00000	mlrem/y
03C29	10/05/87	METHYLENE CHLORIDE	0.00300	mg/L
03C29	01/30/88	pH	7.50000	S.U.
03C29	01/30/88	SPECIFIC CONDUCTANCE	990.00000	umho/cm
03C29	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C29	01/30/88	TOTAL ORGANIC HALOGENS	0.01200	mg/L
03C29	01/30/88	MANGANESE	0.07000	mg/L
03C29	01/30/88	SODIUM	62.00000	mg/L
03C29	01/30/88	SULFATE	265.00000	mg/L
03C29	01/30/88	CHLORIDE	10.00000	mg/L
03C29	01/30/88	FLUORIDE, TOTAL	0.15000	mg/L
03C29	01/30/88	RADIUM, TOTAL	0.50000	pCi/l
03C29	01/30/88	GROSS ALPHA	0.00000	pCi/l
03C29	01/30/88	GROSS BETA	22.00000	mlrem/y
03C29	01/30/88	COLIFORM	0.00000	#/100ml
03C29	04/26/88	pH	10.11000	S.U.
03C29	04/26/88	SPECIFIC CONDUCTANCE	981.00000	umho/cm
03C29	04/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C29	04/26/88	SODIUM	160.00000	mg/L
03C29	04/26/88	SULFATE	305.00000	mg/L
03C29	04/26/88	CHLORIDE	9.00000	mg/L
03C29	04/26/88	BARIUM, TOTAL	0.07000	mg/L
03C29	04/26/88	FLUORIDE, TOTAL	0.47000	mg/L
03C29	04/26/88	RADIUM, TOTAL	0.30000	mg/L
03C29	04/26/88	GROSS ALPHA	0.00000	mg/L
03C29	04/26/88	GROSS BETA	26.00000	mg/L
03C29	04/26/88	COLIFORM	0.00000	#/100ml
03C29	08/01/88	pH	9.80000	S.U.
03C29	08/01/88	SPECIFIC CONDUCTANCE	846.00000	umho/cm
03C29	08/01/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C29	08/01/88	IRON, TOTAL	0.16000	mg/L
03C29	08/01/88	SODIUM	113.00000	mg/L
03C29	08/01/88	SULFATE	340.00000	mg/L
03C29	08/01/88	CHLORIDE	12.00000	mg/L
03C29	08/01/88	BARIUM, TOTAL	0.05000	mg/L
03C29	08/01/88	FLUORIDE, TOTAL	0.40000	mg/L
03C29	08/01/88	RADIUM, TOTAL	0.20000	pcu/L
03C29	08/01/88	GROSS ALPHA	0.00000	pcu/L
03C29	08/01/88	GROSS BETA	25.00000	pcu/L
03C29	08/01/88	COLIFORM	0.00000	TC/.1L
03C29	08/01/88	TRICHLOROETHYLENE	0.01000	mg/L
03C29	10/28/88	pH	7.83000	S.U.
03C29	10/28/88	SPECIFIC CONDUCTANCE	701.00000	umho/cm
03C29	10/28/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C29	10/28/88	MANGANESE	0.03000	mg/L
03C29	10/28/88	SODIUM	172.00000	mg/L
03C29	10/28/88	SULFATE	315.00000	mg/L

03C29	10/28/88	CHLORIDE	6.00000	mg/L
03C29	10/28/88	BICARBONATE	244.00000	mg/L
03C29	10/28/88	CALCIUM	59.00000	mg/L
03C29	10/28/88	MAGNESIUM	11.00000	mg/L
03C29	10/28/88	POTASSIUM	17.00000	mg/L
03C29	10/28/88	GROSS BETA	28.00000	pcu/L
03C29	10/28/88	COLIFORM	0.00000	TC/.1L
03C29	10/28/88	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C29	10/28/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C29	01/10/89	pH	7.60000	S.U.
03C29	01/10/89	SPECIFIC CONDUCTANCE	885.00000	umho/cm
03C29	01/10/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C29	01/10/89	MANGANESE	0.10300	mg/L
03C29	01/10/89	SODIUM	125.00000	mg/L
03C29	01/10/89	SULFATE	240.00000	mg/L
03C29	01/10/89	CHLORIDE	6.00000	mg/L
03C29	01/10/89	AMMONIA-NITROGEN	0.52000	mg/L
03C29	01/10/89	BICARBONATE	330.00000	mg/L
03C29	01/10/89	CALCIUM	80.00000	mg/L
03C29	01/10/89	MAGNESIUM	25.00000	mg/L
03C29	01/10/89	POTASSIUM	11.00000	mg/L
03C29	01/10/89	COLIFORM	0.00000	TC/.1L
03C29	04/17/89	pH	9.60000	S.U.
03C29	04/17/89	SPECIFIC CONDUCTANCE	846.00000	umho/cm
03C29	04/17/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C29	04/17/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C29	04/17/89	SODIUM	87.00000	mg/L
03C29	04/17/89	CALCIUM	26.00000	mg/L
03C29	04/17/89	MAGNESIUM	10.60000	mg/L
03C29	04/17/89	POTASSIUM	47.50000	mg/L
03C29	04/17/89	SULFATE	235.00000	mg/L
03C29	04/17/89	CHLORIDE	9.00000	mg/L
03C29	04/17/89	BICARBONATE	284.00000	mg/L
03C29	04/17/89	AMMONIA-NITROGEN	0.25000	mg/L
03C29	04/17/89	FLUORIDE, TOTAL	0.40000	mg/L
03C29	04/17/89	COLIFORM	0.00000	TC/.1L
03C29	04/17/89	1,1,1-TRICHLOROETHANE	0.00100	mg/L
03C29	04/17/89	TRICHLOROETHYLENE	0.00600	mg/L
03C29	07/12/89	pH	9.80000	S.U.
03C29	07/12/89	SPECIFIC CONDUCTANCE	887.00000	umho/cm
03C29	07/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C29	07/12/89	CALCIUM	14.00000	mg/L
03C29	07/12/89	MAGNESIUM	4.30000	mg/L
03C29	07/12/89	POTASSIUM	70.00000	mg/L
03C29	07/12/89	SULFATE	46.00000	mg/L
03C29	07/12/89	CHLORIDE	10.00000	mg/L
03C29	07/12/89	BICARBONATE	78.00000	mg/L
03C29	07/12/89	AMMONIA-NITROGEN	0.80000	mg/L
03C29	07/12/89	BARIUM, TOTAL	0.03000	mg/L
03C29	07/12/89	FLUORIDE, TOTAL	0.31000	mg/L
03C29	07/12/89	COLIFORM	0.00000	TC/.1L
03C29	07/12/89	SODIUM	79.00000	mg/L
03C29	10/23/89	pH	7.40000	S.U.
03C29	10/23/89	SPECIFIC CONDUCTANCE	853.00000	umho/cm
03C29	10/23/89	CALCIUM	60.00000	mg/L
03C29	10/23/89	MAGNESIUM	19.00000	mg/L
03C29	10/23/89	POTASSIUM	18.00000	mg/L
03C29	10/23/89	BICARBONATE	303.00000	mg/L
03C29	10/23/89	AMMONIA-NITROGEN	0.80000	mg/L
03C29	02/04/90	pH	8.40000	S.U.

03C29	02/04/90	SPECIFIC CONDUCTANCE	755.00000	umho/cm
03C29	02/04/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C29	02/04/90	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C29	02/04/90	SODIUM	55.00000	mg/L
03C29	02/04/90	CALCIUM	15.00000	mg/L
03C29	02/04/90	MAGNESIUM	2.00000	mg/L
03C29	02/04/90	POTASSIUM	2.00000	mg/L
03C29	02/04/90	SULFATE	280.00000	mg/L
03C29	02/04/90	CHLORIDE	10.00000	mg/L
03C29	02/04/90	BICARBONATE	183.00000	mg/L
03C29	02/04/90	AMMONIA-NITROGEN	4.50000	mg/L
03C29	04/26/90	pH	9.10000	S.U.
03C29	04/26/90	SPECIFIC CONDUCTANCE	827.00000	umho/cm
03C29	04/26/90	IRON, TOTAL	0.09000	mg/L
03C29	04/26/90	CALCIUM	36.00000	mg/L
03C29	04/26/90	MAGNESIUM	8.00000	mg/L
03C29	04/26/90	POTASSIUM	43.00000	mg/L
03C29	04/26/90	BICARBONATE	325.00000	mg/L
03C29	04/26/90	AMMONIA-NITROGEN	1.10000	mg/L
03C29	07/21/90	pH	7.10000	S.U.
03C29	07/21/90	SPECIFIC CONDUCTANCE	896.00000	umho/cm
03C29	07/21/90	TOTAL ORGANIC CARBON	2.20000	mg/L
03C29	07/21/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C29	07/21/90	IRON, TOTAL	0.28000	mg/L
03C29	07/21/90	SODIUM	71.00000	mg/L
03C29	07/21/90	CALCIUM	100.00000	mg/L
03C29	07/21/90	MAGNESIUM	37.00000	mg/L
03C29	07/21/90	POTASSIUM	11.00000	mg/L
03C29	07/21/90	BICARBONATE	344.00000	mg/L
03C29	07/21/90	AMMONIA-NITROGEN	0.79000	mg/L
03C29	10/22/90	pH	7.30000	S.U.
03C29	10/22/90	SPECIFIC CONDUCTANCE	983.00000	umho/cm
03C29	10/22/90	SODIUM	92.00000	mg/L
03C29	10/22/90	CALCIUM	102.00000	mg/L
03C29	10/22/90	MAGNESIUM	41.00000	mg/L
03C29	10/22/90	POTASSIUM	14.00000	mg/L
03C29	10/22/90	AMMONIA-NITROGEN	0.93000	mg/L
03C29	01/24/91	pH	7.60000	S.U.
03C29	01/24/91	SPECIFIC CONDUCTANCE	761.00000	umho/cm
03C29	01/24/91	TOTAL ORGANIC CARBON	0.56000	mg/L
03C29	01/24/91	IRON, TOTAL	0.55000	mg/L
03C29	01/24/91	MANGANESE	0.10000	mg/L
03C29	01/24/91	SODIUM	60.00000	mg/L
03C29	01/24/91	CALCIUM	69.00000	mg/L
03C29	01/24/91	MAGNESIUM	37.00000	mg/L
03C29	01/24/91	POTASSIUM	6.00000	mg/L
03C29	01/24/91	SULFATE	235.00000	mg/L
03C29	01/24/91	CHLORIDE	10.00000	mg/L
03C29	01/24/91	BICARBONATE	396.00000	mg/L
03C29	01/24/91	AMMONIA-NITROGEN	0.51000	mg/L
03C29	04/11/91	pH	7.11000	S.U.
03C29	04/11/91	SPECIFIC CONDUCTANCE	915.00000	umho/cm
03C29	04/11/91	CALCIUM	101.90000	mg/L
03C29	04/11/91	MAGNESIUM	44.90000	mg/L
03C29	04/11/91	POTASSIUM	6.20000	mg/L
03C29	04/11/91	BICARBONATE	436.00000	mg/L
03C29	04/11/91	AMMONIA-NITROGEN	0.75000	mg/L
03C29	07/14/91	pH	7.03000	S.U.
03C29	07/14/91	SPECIFIC CONDUCTANCE	856.00000	umho/cm
03C29	07/14/91	TOTAL ORGANIC CARBON	1.43000	mg/L

03C29	07/14/91	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03C29	07/14/91	IRON, TOTAL	0.14000	mg/L
03C29	07/14/91	MANGANESE	0.10000	mg/L
03C29	07/14/91	SODIUM	39.70000	mg/L
03C29	07/14/91	CALCIUM	78.40000	mg/L
03C29	07/14/91	MAGNESIUM	31.10000	mg/L
03C29	07/14/91	POTASSIUM	9.30000	mg/L
03C29	07/14/91	BICARBONATE	448.00000	mg/L
03C29	07/14/91	AMMONIA-NITROGEN	0.40000	mg/L
03C29	09/28/91	pH	6.94000	S.U.
03C29	09/28/91	SPECIFIC CONDUCTANCE	890.00000	umho/cm
03C29	09/28/91	SODIUM	45.20000	mg/L
03C29	09/28/91	AMMONIA-NITROGEN	0.26000	mg/L
03C29	09/28/91	BICARBONATE	451.00000	mg/L
03C29	09/28/91	CALCIUM	103.00000	mg/L
03C29	09/28/91	MAGNESIUM	39.10000	mg/L
03C29	09/28/91	POTASSIUM	4.10000	mg/L
03C29	01/15/92	pH	8.30000	S.U.
03C29	01/15/92	SPECIFIC CONDUCTANCE	697.00000	umho/cm
03C29	01/15/92	TOTAL ORGANIC CARBON	1.36000	mg/L
03C29	01/15/92	IRON, TOTAL	0.54000	mg/L
03C29	01/15/92	MANGANESE	0.09800	mg/L
03C29	01/15/92	SODIUM	54.00000	mg/L
03C29	01/15/92	CALCIUM	91.40000	mg/L
03C29	01/15/92	MAGNESIUM	34.30000	mg/L
03C29	01/15/92	POTASSIUM	7.50000	mg/L
03C29	01/15/92	SULFATE	280.00000	mg/L
03C29	01/15/92	CHLORIDE	10.00000	mg/L
03C29	01/15/92	BICARBONATE	281.00000	mg/L
03C29	01/15/92	AMMONIA-NITROGEN	0.36000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C30	10/05/87	pH	9.43000	S.U.
03C30	10/05/87	SPECIFIC CONDUCTANCE	410.00000	umho/cm
03C30	10/05/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C30	10/05/87	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C30	10/05/87	SODIUM	46.00000	mg/L
03C30	10/05/87	SULFATE	90.00000	mg/L
03C30	10/05/87	CHLORIDE	33.00000	mg/L
03C30	10/05/87	FLUORIDE, TOTAL	0.41000	mg/L
03C30	10/05/87	RADIUM, TOTAL	0.40000	pCi/l
03C30	10/05/87	GROSS ALPHA	0.00000	pCi/l
03C30	10/05/87	GROSS BETA	6.70000	mlrem/y
03C30	10/05/87	METHYLENE CHLORIDE	0.00600	mg/L
03C30	10/05/87	CHLOROFORM	0.01800	mg/L
03C30	10/05/87	TOLUENE	0.00200	mg/L
03C30	02/09/88	pH	9.40000	S.U.
03C30	02/09/88	SPECIFIC CONDUCTANCE	420.00000	umho/cm
03C30	02/09/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C30	02/09/88	TOTAL ORGANIC HALOGENS	0.08300	mg/L
03C30	02/09/88	SODIUM	49.00000	mg/L
03C30	02/09/88	SULFATE	92.00000	mg/L
03C30	02/09/88	CHLORIDE	30.00000	mg/L
03C30	02/09/88	FLUORIDE, TOTAL	0.33000	mg/L
03C30	02/09/88	NITRATE-N	0.23000	mg/L
03C30	02/09/88	LINDANE	0.00400	mg/L
03C30	02/09/88	RADIUM, TOTAL	0.40000	pCi/l
03C30	02/09/88	GROSS ALPHA	0.00000	pCi/l
03C30	02/09/88	GROSS BETA	5.90000	mlrem/y
03C30	02/09/88	COLIFORM	0.00000	#/100ml
03C30	04/26/88	pH	10.84000	S.U.
03C30	04/26/88	SPECIFIC CONDUCTANCE	918.00000	umho/cm
03C30	04/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C30	04/26/88	IRON, TOTAL	0.02000	mg/L
03C30	04/26/88	SODIUM	186.00000	mg/L
03C30	04/26/88	SULFATE	73.00000	mg/L
03C30	04/26/88	CHLORIDE	19.00000	mg/L
03C30	04/26/88	FLUORIDE, TOTAL	0.89000	mg/L
03C30	04/26/88	RADIUM, TOTAL	0.00000	mg/L
03C30	04/26/88	GROSS ALPHA	0.00000	mg/L
03C30	04/26/88	GROSS BETA	13.00000	mg/L
03C30	04/26/88	COLIFORM	0.00000	#/100ml
03C30	04/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.18000	mg/L
03C30	08/01/88	pH	11.30000	S.U.
03C30	08/01/88	SPECIFIC CONDUCTANCE	997.00000	umho/cm
03C30	08/01/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C30	08/01/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C30	08/01/88	IRON, TOTAL	0.42000	mg/L
03C30	08/01/88	SODIUM	123.00000	mg/L
03C30	08/01/88	SULFATE	90.00000	mg/L
03C30	08/01/88	CHLORIDE	60.00000	mg/L
03C30	08/01/88	BARIUM, TOTAL	0.11500	mg/L
03C30	08/01/88	FLUORIDE, TOTAL	0.70000	mg/L
03C30	08/01/88	RADIUM, TOTAL	0.00000	pcu/L
03C30	08/01/88	GROSS ALPHA	0.00000	pcu/L
03C30	08/01/88	GROSS BETA	12.00000	pcu/L
03C30	08/01/88	COLIFORM	0.00000	TC/.1L
03C30	08/01/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.18000	mg/L
03C30	10/28/88	pH	11.40000	S.U.
03C30	10/28/88	SPECIFIC CONDUCTANCE	719.00000	umho/cm

03C30	10/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C30	10/28/88	SODIUM	244.00000	mg/L
03C30	10/28/88	SULFATE	90.00000	mg/L
03C30	10/28/88	CHLORIDE	29.00000	mg/L
03C30	10/28/88	CALCIUM	4.65000	mg/L
03C30	10/28/88	MAGNESIUM	1.71000	mg/L
03C30	10/28/88	POTASSIUM	14.00000	mg/L
03C30	10/28/88	FLUORIDE, TOTAL	1.00000	mg/L
03C30	10/28/88	GROSS BETA	7.00000	pcu/L
03C30	10/28/88	COLIFORM	0.00000	TC/.1L
03C30	10/28/88	DI-N-BUTYL PHTHALATE	0.20000	mg/L
03C30	10/28/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C30	01/11/89	pH	11.50000	S.U.
03C30	01/11/89	SPECIFIC CONDUCTANCE	934.00000	umho/cm
03C30	01/11/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C30	01/11/89	MANGANESE	0.10300	mg/L
03C30	01/11/89	SODIUM	134.00000	mg/L
03C30	01/11/89	SULFATE	125.00000	mg/L
03C30	01/11/89	CHLORIDE	36.00000	mg/L
03C30	01/11/89	AMMONIA-NITROGEN	1.20000	mg/L
03C30	01/11/89	BICARBONATE	506.00000	mg/L
03C30	01/11/89	CALCIUM	8.00000	mg/L
03C30	01/11/89	MAGNESIUM	25.00000	mg/L
03C30	01/11/89	POTASSIUM	44.00000	mg/L
03C30	01/11/89	FLUORIDE, TOTAL	1.00000	mg/L
03C30	01/11/89	COLIFORM	0.00000	TC/.1L
03C30	04/17/89	pH	11.78000	S.U.
03C30	04/17/89	SPECIFIC CONDUCTANCE	1388.00000	umho/cm
03C30	04/17/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C30	04/17/89	SODIUM	122.00000	mg/L
03C30	04/17/89	CALCIUM	24.00000	mg/L
03C30	04/17/89	MAGNESIUM	9.00000	mg/L
03C30	04/17/89	POTASSIUM	15.00000	mg/L
03C30	04/17/89	SULFATE	86.00000	mg/L
03C30	04/17/89	CHLORIDE	9.00000	mg/L
03C30	04/17/89	BICARBONATE	225.00000	mg/L
03C30	04/17/89	AMMONIA-NITROGEN	2.00000	mg/L
03C30	04/17/89	BARIUM, TOTAL	0.10000	mg/L
03C30	04/17/89	FLUORIDE, TOTAL	0.40000	mg/L
03C30	04/17/89	COLIFORM	0.00000	TC/.1L
03C30	04/17/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C30	07/12/89	pH	11.50000	S.U.
03C30	07/12/89	SPECIFIC CONDUCTANCE	1395.00000	umho/cm
03C30	07/12/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C30	07/12/89	SODIUM	120.00000	mg/L
03C30	07/12/89	CALCIUM	7.00000	mg/L
03C30	07/12/89	MAGNESIUM	9.00000	mg/L
03C30	07/12/89	POTASSIUM	13.00000	mg/L
03C30	07/12/89	SULFATE	56.00000	mg/L
03C30	07/12/89	CHLORIDE	9.00000	mg/L
03C30	07/12/89	BICARBONATE	361.00000	mg/L
03C30	07/12/89	AMMONIA-NITROGEN	2.50000	mg/L
03C30	07/12/89	BARIUM, TOTAL	0.10000	mg/L
03C30	07/12/89	FLUORIDE, TOTAL	0.40000	mg/L
03C30	07/12/89	COLIFORM	0.00000	TC/.1L
03C30	10/23/89	pH	12.00000	S.U.
03C30	10/23/89	SPECIFIC CONDUCTANCE	1366.00000	umho/cm
03C30	10/23/89	CALCIUM	14.00000	mg/L
03C30	10/23/89	MAGNESIUM	1.00000	mg/L
03C30	10/23/89	POTASSIUM	68.00000	mg/L

03C30	10/23/89	BICARBONATE	410.00000	mg/L
03C30	10/23/89	AMMONIA-NITROGEN	1.40000	mg/L
03C30	02/04/90	pH	12.60000	S.U.
03C30	02/04/90	SPECIFIC CONDUCTANCE	1608.00000	umho/cm
03C30	02/04/90	TOTAL ORGANIC CARBON	2.60000	mg/L
03C30	02/04/90	SODIUM	121.00000	mg/L
03C30	02/04/90	CALCIUM	45.00000	mg/L
03C30	02/04/90	MAGNESIUM	1.00000	mg/L
03C30	02/04/90	POTASSIUM	8.00000	mg/L
03C30	02/04/90	SULFATE	49.00000	mg/L
03C30	02/04/90	CHLORIDE	83.00000	mg/L
03C30	02/04/90	BICARBONATE	476.00000	mg/L
03C30	02/04/90	AMMONIA-NITROGEN	0.20000	mg/L
03C30	04/26/90	pH	12.40000	S.U.
03C30	04/26/90	SPECIFIC CONDUCTANCE	1680.00000	umho/cm
03C30	04/26/90	CALCIUM	71.00000	mg/L
03C30	04/26/90	MAGNESIUM	2.00000	mg/L
03C30	04/26/90	POTASSIUM	8.00000	mg/L
03C30	04/26/90	BICARBONATE	495.00000	mg/L
03C30	04/26/90	AMMONIA-NITROGEN	3.10000	mg/L
03C30	07/21/90	pH	12.00000	S.U.
03C30	07/21/90	SPECIFIC CONDUCTANCE	479.00000	umho/cm
03C30	07/21/90	TOTAL ORGANIC CARBON	2.20000	mg/L
03C30	07/21/90	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C30	07/21/90	SODIUM	156.00000	mg/L
03C30	07/21/90	CALCIUM	36.00000	mg/L
03C30	07/21/90	MAGNESIUM	1.00000	mg/L
03C30	07/21/90	POTASSIUM	9.00000	mg/L
03C30	07/21/90	BICARBONATE	233.00000	mg/L
03C30	07/21/90	AMMONIA-NITROGEN	4.41000	mg/L
03C30	10/23/90	pH	9.50000	S.U.
03C30	10/23/90	SPECIFIC CONDUCTANCE	637.00000	umho/cm
03C30	10/23/90	SODIUM	148.00000	mg/L
03C30	10/23/90	CALCIUM	9.00000	mg/L
03C30	10/23/90	MAGNESIUM	15.00000	mg/L
03C30	10/23/90	POTASSIUM	12.00000	mg/L
03C30	10/23/90	AMMONIA-NITROGEN	4.09000	mg/L
03C30	01/23/91	pH	12.01000	S.U.
03C30	01/23/91	SPECIFIC CONDUCTANCE	1269.00000	umho/cm
03C30	01/23/91	TOTAL ORGANIC CARBON	10.10000	mg/L
03C30	01/23/91	TOTAL ORGANIC HALOGENS	0.07000	mg/L
03C30	01/23/91	SODIUM	124.00000	mg/L
03C30	01/23/91	CALCIUM	17.00000	mg/L
03C30	01/23/91	MAGNESIUM	1.00000	mg/L
03C30	01/23/91	POTASSIUM	9.00000	mg/L
03C30	01/23/91	SULFATE	47.00000	mg/L
03C30	01/23/91	CHLORIDE	12.00000	mg/L
03C30	01/23/91	BICARBONATE	73.00000	mg/L
03C30	01/23/91	AMMONIA-NITROGEN	9.77000	mg/L
03C30	04/10/91	pH	8.76000	S.U.
03C30	04/10/91	SPECIFIC CONDUCTANCE	582.00000	umho/cm
03C30	04/10/91	CALCIUM	48.20000	mg/L
03C30	04/10/91	MAGNESIUM	27.70000	mg/L
03C30	04/10/91	POTASSIUM	2.80000	mg/L
03C30	04/10/91	BICARBONATE	287.00000	mg/L
03C30	04/10/91	AMMONIA-NITROGEN	2.78000	mg/L
03C30	07/13/91	pH	8.17000	S.U.
03C30	07/13/91	SPECIFIC CONDUCTANCE	627.00000	umho/cm
03C30	07/13/91	TOTAL ORGANIC CARBON	1.10000	mg/L
03C30	07/13/91	TOTAL ORGANIC HALOGENS	0.02000	mg/L

03C30	07/13/91	MANGANESE	0.04000	mg/L
03C30	07/13/91	SODIUM	55.00000	mg/L
03C30	07/13/91	CALCIUM	39.30000	mg/L
03C30	07/13/91	MAGNESIUM	23.60000	mg/L
03C30	07/13/91	POTASSIUM	5.00000	mg/L
03C30	07/13/91	BICARBONATE	347.00000	mg/L
03C30	07/13/91	AMMONIA-NITROGEN	5.45000	mg/L
03C30	09/28/91	pH	7.41000	S.U.
03C30	09/28/91	SPECIFIC CONDUCTANCE	648.00000	umho/cm
03C30	09/28/91	SODIUM	49.50000	mg/L
03C30	09/28/91	AMMONIA-NITROGEN	1.09000	mg/L
03C30	09/28/91	BICARBONATE	338.00000	mg/L
03C30	09/28/91	CALCIUM	58.00000	mg/L
03C30	09/28/91	MAGNESIUM	30.20000	mg/L
03C30	09/28/91	POTASSIUM	4.00000	mg/L
03C30	01/15/92	pH	11.90000	S.U.
03C30	01/15/92	SPECIFIC CONDUCTANCE	1280.00000	umho/cm
03C30	01/15/92	TOTAL ORGANIC CARBON	2.32000	mg/L
03C30	01/15/92	SODIUM	139.20000	mg/L
03C30	01/15/92	CALCIUM	6.50000	mg/L
03C30	01/15/92	MAGNESIUM	0.20000	mg/L
03C30	01/15/92	POTASSIUM	9.20000	mg/L
03C30	01/15/92	SULFATE	72.00000	mg/L
03C30	01/15/92	CHLORIDE	10.00000	mg/L
03C30	01/15/92	BICARBONATE	383.00000	mg/L
03C30	01/15/92	AMMONIA-NITROGEN	6.53000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C31	10/20/87	pH	7.66000	S.U.
03C31	10/20/87	SPECIFIC CONDUCTANCE	1105.50000	umho/cm
03C31	10/20/87	TOTAL ORGANIC CARBON	10.00000	mg/L
03C31	10/20/87	MANGANESE	0.25000	mg/L
03C31	10/20/87	SODIUM	55.00000	mg/L
03C31	10/20/87	SULFATE	270.00000	mg/L
03C31	10/20/87	CHLORIDE	13.00000	mg/L
03C31	10/20/87	BARIUM, TOTAL	0.08000	mg/L
03C31	10/20/87	LEAD, TOTAL	0.05500	mg/L
03C31	10/20/87	FLUORIDE, TOTAL	0.35000	mg/L
03C31	10/20/87	NITRATE-N	0.13000	mg/L
03C31	10/20/87	RADIUM, TOTAL	0.60000	pCi/l
03C31	10/20/87	GROSS ALPHA	0.00000	pCi/l
03C31	10/20/87	GROSS BETA	58.00000	mlrem/y
03C31	10/20/87	1,1,1-TRICHLOROETHANE	0.01800	mg/L
03C31	02/09/88	pH	7.56000	S.U.
03C31	02/09/88	SPECIFIC CONDUCTANCE	1039.00000	umho/cm
03C31	02/09/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C31	02/09/88	MANGANESE	0.18000	mg/L
03C31	02/09/88	SODIUM	90.00000	mg/L
03C31	02/09/88	SULFATE	250.00000	mg/L
03C31	02/09/88	CHLORIDE	19.00000	mg/L
03C31	02/09/88	FLUORIDE, TOTAL	0.30000	mg/L
03C31	02/09/88	RADIUM, TOTAL	0.60000	pCi/l
03C31	02/09/88	GROSS ALPHA	5.80000	pCi/l
03C31	02/09/88	GROSS BETA	72.00000	mlrem/y
03C31	02/09/88	COLIFORM	0.00000	#/100ml
03C31	04/26/88	pH	7.76000	S.U.
03C31	04/26/88	SPECIFIC CONDUCTANCE	1626.00000	umho/cm
03C31	04/26/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C31	04/26/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C31	04/26/88	IRON, TOTAL	0.03000	mg/L
03C31	04/26/88	MANGANESE	0.09000	mg/L
03C31	04/26/88	SODIUM	178.00000	mg/L
03C31	04/26/88	SULFATE	205.00000	mg/L
03C31	04/26/88	CHLORIDE	32.00000	mg/L
03C31	04/26/88	BARIUM, TOTAL	0.11000	mg/L
03C31	04/26/88	FLUORIDE, TOTAL	0.87000	mg/L
03C31	04/26/88	RADIUM, TOTAL	1.30000	mg/L
03C31	04/26/88	GROSS ALPHA	0.00000	mg/L
03C31	04/26/88	GROSS BETA	134.00000	mg/L
03C31	04/26/88	COLIFORM	0.00000	#/100ml
03C31	08/01/88	pH	7.30000	S.U.
03C31	08/01/88	SPECIFIC CONDUCTANCE	1443.00000	umho/cm
03C31	08/01/88	TOTAL ORGANIC CARBON	12.00000	mg/L
03C31	08/01/88	IRON, TOTAL	0.11000	mg/L
03C31	08/01/88	MANGANESE	0.18400	mg/L
03C31	08/01/88	SODIUM	177.00000	mg/L
03C31	08/01/88	SULFATE	160.00000	mg/L
03C31	08/01/88	CHLORIDE	30.00000	mg/L
03C31	08/01/88	BARIUM, TOTAL	0.10400	mg/L
03C31	08/01/88	FLUORIDE, TOTAL	0.87000	mg/L
03C31	08/01/88	RADIUM, TOTAL	1.50000	pcu/L
03C31	08/01/88	GROSS ALPHA	0.00000	pcu/L
03C31	08/01/88	GROSS BETA	120.00000	pcu/L
03C31	08/01/88	COLIFORM	1.00000	TC/.1L
03C31	10/27/88	pH	8.30000	S.U.
03C31	10/27/88	SPECIFIC CONDUCTANCE	1005.00000	umho/cm

03C31	10/27/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C31	10/27/88	MANGANESE	0.11000	mg/L
03C31	10/27/88	SODIUM	54.00000	mg/L
03C31	10/27/88	SULFATE	250.00000	mg/L
03C31	10/27/88	CHLORIDE	16.00000	mg/L
03C31	10/27/88	AMMONIA-NITROGEN	1.20000	mg/L
03C31	10/27/88	BICARBONATE	958.00000	mg/L
03C31	10/27/88	CALCIUM	49.00000	mg/L
03C31	10/27/88	MAGNESIUM	55.00000	mg/L
03C31	10/27/88	POTASSIUM	42.00000	mg/L
03C31	10/27/88	GROSS BETA	125.00000	pcu/L
03C31	10/27/88	COLIFORM	0.00000	TC/.1L
03C31	01/10/89	pH	7.50000	S.U.
03C31	01/10/89	SPECIFIC CONDUCTANCE	1208.00000	umho/cm
03C31	01/10/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C31	01/10/89	IRON, TOTAL	0.45000	mg/L
03C31	01/10/89	MANGANESE	0.14000	mg/L
03C31	01/10/89	SODIUM	105.00000	mg/L
03C31	01/10/89	SULFATE	140.00000	mg/L
03C31	01/10/89	CHLORIDE	60.00000	mg/L
03C31	01/10/89	BICARBONATE	995.00000	mg/L
03C31	01/10/89	CALCIUM	62.00000	mg/L
03C31	01/10/89	MAGNESIUM	57.00000	mg/L
03C31	01/10/89	POTASSIUM	2.00000	mg/L
03C31	01/10/89	BARIUM, TOTAL	0.14000	mg/L
03C31	01/10/89	FLUORIDE, TOTAL	0.40000	mg/L
03C31	01/10/89	GROSS ALPHA	3.20000	pcu/L
03C31	01/10/89	GROSS BETA	24.00000	pcu/L
03C31	01/10/89	COLIFORM	0.00000	TC/.1L
03C31	04/17/89	pH	7.50000	S.U.
03C31	04/17/89	SPECIFIC CONDUCTANCE	1218.00000	umho/cm
03C31	04/17/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C31	04/17/89	IRON, TOTAL	0.24000	mg/L
03C31	04/17/89	MANGANESE	0.14400	mg/L
03C31	04/17/89	SODIUM	88.00000	mg/L
03C31	04/17/89	CALCIUM	72.00000	mg/L
03C31	04/17/89	MAGNESIUM	60.00000	mg/L
03C31	04/17/89	POTASSIUM	44.00000	mg/L
03C31	04/17/89	SULFATE	215.00000	mg/L
03C31	04/17/89	CHLORIDE	9.00000	mg/L
03C31	04/17/89	BICARBONATE	499.00000	mg/L
03C31	04/17/89	AMMONIA-NITROGEN	1.80000	mg/L
03C31	04/17/89	BARIUM, TOTAL	0.08000	mg/L
03C31	04/17/89	FLUORIDE, TOTAL	0.60000	mg/L
03C31	04/17/89	NITRATE-N	0.25000	mg/L
03C31	04/17/89	GROSS ALPHA	6.00000	pcu/L
03C31	04/17/89	GROSS BETA	32.00000	pcu/L
03C31	04/17/89	COLIFORM	0.00000	TC/.1L
03C31	07/12/89	pH	7.40000	S.U.
03C31	07/12/89	SPECIFIC CONDUCTANCE	1276.00000	umho/cm
03C31	07/12/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C31	07/12/89	MANGANESE	0.12300	mg/L
03C31	07/12/89	SODIUM	68.00000	mg/L
03C31	07/12/89	CALCIUM	64.00000	mg/L
03C31	07/12/89	MAGNESIUM	49.00000	mg/L
03C31	07/12/89	POTASSIUM	56.00000	mg/L
03C31	07/12/89	SULFATE	50.00000	mg/L
03C31	07/12/89	CHLORIDE	12.00000	mg/L
03C31	07/12/89	BICARBONATE	683.00000	mg/L
03C31	07/12/89	AMMONIA-NITROGEN	2.60000	mg/L

03C31	07/12/89	BARIUM, TOTAL	0.08000	mg/L
03C31	07/12/89	FLUORIDE, TOTAL	0.52000	mg/L
03C31	07/12/89	NITRATE-N	2.00000	mg/L
03C31	07/12/89	GROSS ALPHA	8.00000	pcu/L
03C31	07/12/89	COLIFORM	0.00000	TC/.1L
03C31	07/12/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03C31	10/23/89	pH	7.50000	S.U.
03C31	10/23/89	SPECIFIC CONDUCTANCE	1124.00000	umho/cm
03C31	10/23/89	CALCIUM	65.00000	mg/L
03C31	10/23/89	MAGNESIUM	49.00000	mg/L
03C31	10/23/89	POTASSIUM	40.00000	mg/L
03C31	10/23/89	BICARBONATE	293.00000	mg/L
03C31	10/23/89	AMMONIA-NITROGEN	1.10000	mg/L
03C31	02/04/90	pH	7.80000	S.U.
03C31	02/04/90	SPECIFIC CONDUCTANCE	1075.00000	umho/cm
03C31	02/04/90	TOTAL ORGANIC CARBON	3.60000	mg/L
03C31	02/04/90	MANGANESE	0.06200	mg/L
03C31	02/04/90	SODIUM	83.00000	mg/L
03C31	02/04/90	CALCIUM	90.00000	mg/L
03C31	02/04/90	MAGNESIUM	67.00000	mg/L
03C31	02/04/90	POTASSIUM	28.00000	mg/L
03C31	02/04/90	SULFATE	240.00000	mg/L
03C31	02/04/90	CHLORIDE	11.00000	mg/L
03C31	02/04/90	BICARBONATE	708.00000	mg/L
03C31	02/04/90	AMMONIA-NITROGEN	1.40000	mg/L
03C31	04/26/90	pH	7.70000	S.U.
03C31	04/26/90	SPECIFIC CONDUCTANCE	1136.00000	umho/cm
03C31	04/26/90	IRON, TOTAL	0.09000	mg/L
03C31	04/26/90	CALCIUM	86.00000	mg/L
03C31	04/26/90	MAGNESIUM	70.00000	mg/L
03C31	04/26/90	POTASSIUM	43.00000	mg/L
03C31	04/26/90	BICARBONATE	322.00000	mg/L
03C31	04/26/90	AMMONIA-NITROGEN	1.20000	mg/L
03C31	07/21/90	pH	7.50000	S.U.
03C31	07/21/90	SPECIFIC CONDUCTANCE	1148.00000	umho/cm
03C31	07/21/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03C31	07/21/90	TOTAL ORGANIC HALOGENS	0.04000	mg/L
03C31	07/21/90	IRON, TOTAL	0.27000	mg/L
03C31	07/21/90	SODIUM	108.00000	mg/L
03C31	07/21/90	CALCIUM	84.00000	mg/L
03C31	07/21/90	MAGNESIUM	65.00000	mg/L
03C31	07/21/90	POTASSIUM	30.00000	mg/L
03C31	07/21/90	BICARBONATE	616.00000	mg/L
03C31	07/21/90	AMMONIA-NITROGEN	1.25000	mg/L
03C31	10/23/90	pH	7.20000	S.U.
03C31	10/23/90	SPECIFIC CONDUCTANCE	1264.00000	umho/cm
03C31	10/23/90	SODIUM	101.00000	mg/L
03C31	10/23/90	CALCIUM	105.00000	mg/L
03C31	10/23/90	MAGNESIUM	63.00000	mg/L
03C31	10/23/90	POTASSIUM	17.00000	mg/L
03C31	10/23/90	AMMONIA-NITROGEN	8.89000	mg/L
03C31	01/22/91	pH	7.28000	S.U.
03C31	01/22/91	SPECIFIC CONDUCTANCE	1038.00000	umho/cm
03C31	01/22/91	TOTAL ORGANIC CARBON	1.07000	mg/L
03C31	01/22/91	IRON, TOTAL	0.07000	mg/L
03C31	01/22/91	MANGANESE	0.01000	mg/L
03C31	01/22/91	SODIUM	106.00000	mg/L
03C31	01/22/91	CALCIUM	48.00000	mg/L
03C31	01/22/91	MAGNESIUM	73.00000	mg/L
03C31	01/22/91	POTASSIUM	24.00000	mg/L

03C31	01/22/91	SULFATE	235.00000	mg/L
03C31	01/22/91	CHLORIDE	7.00000	mg/L
03C31	01/22/91	BICARBONATE	545.00000	mg/L
03C31	01/22/91	AMMONIA-NITROGEN	0.45000	mg/L
03C31	04/08/91	pH	7.34000	S.U.
03C31	04/08/91	SPECIFIC CONDUCTANCE	998.00000	umho/cm
03C31	04/08/91	CALCIUM	96.40000	mg/L
03C31	04/08/91	MAGNESIUM	59.10000	mg/L
03C31	04/08/91	POTASSIUM	17.90000	mg/L
03C31	04/08/91	BICARBONATE	580.00000	mg/L
03C31	04/08/91	AMMONIA-NITROGEN	0.30000	mg/L
03C31	07/13/91	pH	7.07000	S.U.
03C31	07/13/91	SPECIFIC CONDUCTANCE	1072.00000	umho/cm
03C31	07/13/91	TOTAL ORGANIC CARBON	1.32000	mg/L
03C31	07/13/91	IRON, TOTAL	0.41000	mg/L
03C31	07/13/91	MANGANESE	0.11000	mg/L
03C31	07/13/91	SODIUM	44.10000	mg/L
03C31	07/13/91	CALCIUM	96.40000	mg/L
03C31	07/13/91	MAGNESIUM	63.10000	mg/L
03C31	07/13/91	POTASSIUM	10.20000	mg/L
03C31	07/13/91	BICARBONATE	586.00000	mg/L
03C31	07/13/91	AMMONIA-NITROGEN	0.40000	mg/L
03C31	09/28/91	pH	7.04000	S.U.
03C31	09/28/91	SPECIFIC CONDUCTANCE	1032.00000	umho/cm
03C31	09/28/91	SODIUM	43.00000	mg/L
03C31	09/28/91	AMMONIA-NITROGEN	0.18000	mg/L
03C31	09/28/91	BICARBONATE	537.00000	mg/L
03C31	09/28/91	CALCIUM	97.80000	mg/L
03C31	09/28/91	MAGNESIUM	71.80000	mg/L
03C31	09/28/91	POTASSIUM	8.80000	mg/L
03C31	01/15/92	pH	8.00000	S.U.
03C31	01/15/92	SPECIFIC CONDUCTANCE	980.00000	umho/cm
03C31	01/15/92	TOTAL ORGANIC CARBON	1.39000	mg/L
03C31	01/15/92	IRON, TOTAL	1.37000	mg/L
03C31	01/15/92	MANGANESE	0.10000	mg/L
03C31	01/15/92	SODIUM	56.10000	mg/L
03C31	01/15/92	CALCIUM	93.10000	mg/L
03C31	01/15/92	MAGNESIUM	64.80000	mg/L
03C31	01/15/92	POTASSIUM	7.90000	mg/L
03C31	01/15/92	SULFATE	250.00000	mg/L
03C31	01/15/92	CHLORIDE	13.00000	mg/L
03C31	01/15/92	BICARBONATE	550.00000	mg/L
03C31	01/15/92	AMMONIA-NITROGEN	0.26000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C32	11/25/87	pH	8.03000	S.U.
03C32	11/25/87	SPECIFIC CONDUCTANCE	834.00000	umho/cm
03C32	11/25/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C32	11/25/87	TOTAL ORGANIC HALOGENS	0.02500	mg/L
03C32	11/25/87	MANGANESE	0.01600	mg/L
03C32	11/25/87	SODIUM	42.00000	mg/L
03C32	11/25/87	SULFATE	225.00000	mg/L
03C32	11/25/87	CHLORIDE	16.00000	mg/L
03C32	11/25/87	RDX	0.01000	mg/L
03C32	11/25/87	SELENIUM, TOTAL	0.06100	mg/L
03C32	11/25/87	FLUORIDE, TOTAL	0.21000	mg/L
03C32	11/25/87	NITRATE-N	0.20000	mg/L
03C32	11/25/87	RADIUM, TOTAL	0.20000	pCi/l
03C32	11/25/87	GROSS ALPHA	0.00000	pCi/l
03C32	11/25/87	GROSS BETA	22.00000	mlrem/y
03C32	11/25/87	CHLOROFORM	0.00800	mg/L
03C32	02/09/88	pH	7.95000	S.U.
03C32	02/09/88	SPECIFIC CONDUCTANCE	860.00000	umho/cm
03C32	02/09/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C32	02/09/88	TOTAL ORGANIC HALOGENS	0.03900	mg/L
03C32	02/09/88	MANGANESE	0.01000	mg/L
03C32	02/09/88	SODIUM	41.00000	mg/L
03C32	02/09/88	SULFATE	260.00000	mg/L
03C32	02/09/88	CHLORIDE	11.00000	mg/L
03C32	02/09/88	PHENOLS	0.01000	mg/L
03C32	02/09/88	FLUORIDE, TOTAL	0.20000	mg/L
03C32	02/09/88	NITRATE-N	0.11000	mg/L
03C32	02/09/88	RADIUM, TOTAL	0.20000	pCi/l
03C32	02/09/88	GROSS ALPHA	0.30000	pCi/l
03C32	02/09/88	GROSS BETA	60.00000	mlrem/y
03C32	02/09/88	COLIFORM	0.00000	#/100ml
03C32	08/01/88	pH	7.90000	S.U.
03C32	08/01/88	SPECIFIC CONDUCTANCE	845.00000	umho/cm
03C32	08/01/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C32	08/01/88	MANGANESE	0.01000	mg/L
03C32	08/01/88	SODIUM	46.00000	mg/L
03C32	08/01/88	SULFATE	250.00000	mg/L
03C32	08/01/88	CHLORIDE	12.00000	mg/L
03C32	08/01/88	FLUORIDE, TOTAL	0.40000	mg/L
03C32	08/01/88	NITRATE-N	0.86000	mg/L
03C32	08/01/88	RADIUM, TOTAL	0.00000	pcu/L
03C32	08/01/88	GROSS ALPHA	1.70000	pcu/L
03C32	08/01/88	GROSS BETA	3.20000	pcu/L
03C32	08/01/88	COLIFORM	0.00000	TC/.1L
03C32	10/28/88	pH	8.46000	S.U.
03C32	10/28/88	SPECIFIC CONDUCTANCE	1130.00000	umho/cm
03C32	10/28/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C32	10/28/88	IRON, TOTAL	0.24000	mg/L
03C32	10/28/88	SODIUM	45.00000	mg/L
03C32	10/28/88	SULFATE	340.00000	mg/L
03C32	10/28/88	CHLORIDE	6.00000	mg/L
03C32	10/28/88	BICARBONATE	830.00000	mg/L
03C32	10/28/88	CALCIUM	110.00000	mg/L
03C32	10/28/88	MAGNESIUM	107.00000	mg/L
03C32	10/28/88	POTASSIUM	22.00000	mg/L
03C32	10/28/88	FLUORIDE, TOTAL	0.14000	mg/L
03C32	10/28/88	GROSS BETA	1.50000	pcu/L
03C32	10/28/88	COLIFORM	0.00000	TC/.1L

03C32	10/28/88	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C32	10/28/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C32	01/14/89	pH	7.00000	S.U.
03C32	01/14/89	SPECIFIC CONDUCTANCE	1345.00000	umho/cm
03C32	01/14/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C32	01/14/89	SODIUM	4.00000	mg/L
03C32	01/14/89	SULFATE	350.00000	mg/L
03C32	01/14/89	CHLORIDE	8.00000	mg/L
03C32	01/14/89	BICARBONATE	1019.00000	mg/L
03C32	01/14/89	CALCIUM	23.00000	mg/L
03C32	01/14/89	MAGNESIUM	9.00000	mg/L
03C32	01/14/89	POTASSIUM	2.00000	mg/L
03C32	01/14/89	BARIUM, TOTAL	0.05000	mg/L
03C32	01/14/89	FLUORIDE, TOTAL	0.53000	mg/L
03C32	01/14/89	GROSS ALPHA	1.60000	pcu/L
03C32	01/14/89	GROSS BETA	8.90000	pcu/L
03C32	01/14/89	COLIFORM	0.00000	TC/.1L
03C32	01/14/89	pH	7.00000	S.U.
03C32	01/14/89	SPECIFIC CONDUCTANCE	1345.00000	umho/cm
03C32	01/14/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C32	01/14/89	SODIUM	4.00000	mg/L
03C32	01/14/89	SULFATE	350.00000	mg/L
03C32	01/14/89	CHLORIDE	8.00000	mg/L
03C32	01/14/89	BICARBONATE	1019.00000	mg/L
03C32	01/14/89	CALCIUM	23.00000	mg/L
03C32	01/14/89	MAGNESIUM	9.00000	mg/L
03C32	01/14/89	POTASSIUM	2.00000	mg/L
03C32	01/14/89	BARIUM, TOTAL	0.05000	mg/L
03C32	01/14/89	FLUORIDE, TOTAL	0.53000	mg/L
03C32	01/14/89	GROSS ALPHA	1.60000	pcu/L
03C32	01/14/89	GROSS BETA	8.90000	pcu/L
03C32	01/14/89	COLIFORM	0.00000	TC/.1L
03C32	04/13/89	pH	7.40000	S.U.
03C32	04/13/89	SPECIFIC CONDUCTANCE	1328.00000	umho/cm
03C32	04/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C32	04/13/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C32	04/13/89	CALCIUM	116.00000	mg/L
03C32	04/13/89	MAGNESIUM	86.00000	mg/L
03C32	04/13/89	POTASSIUM	47.50000	mg/L
03C32	04/13/89	SULFATE	17.00000	mg/L
03C32	04/13/89	CHLORIDE	8.00000	mg/L
03C32	04/13/89	BICARBONATE	519.00000	mg/L
03C32	04/13/89	FLUORIDE, TOTAL	0.26000	mg/L
03C32	04/13/89	NITRATE-N	0.24000	mg/L
03C32	04/13/89	GROSS ALPHA	2.20000	pcu/L
03C32	04/13/89	GROSS BETA	10.10000	pcu/L
03C32	04/13/89	COLIFORM	0.00000	TC/.1L
03C32	04/13/89	MANGANESE	0.00700	mg/L
03C32	04/13/89	SODIUM	60.00000	mg/L
03C32	07/14/89	pH	7.30000	S.U.
03C32	07/14/89	SPECIFIC CONDUCTANCE	1274.00000	umho/cm
03C32	07/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C32	07/14/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03C32	07/14/89	MANGANESE	0.03400	mg/L
03C32	07/14/89	SODIUM	41.00000	mg/L
03C32	07/14/89	CALCIUM	114.00000	mg/L
03C32	07/14/89	MAGNESIUM	82.00000	mg/L
03C32	07/14/89	POTASSIUM	20.00000	mg/L
03C32	07/14/89	SULFATE	50.00000	mg/L
03C32	07/14/89	CHLORIDE	10.00000	mg/L

03C32	07/14/89	BICARBONATE	273.00000	mg/L
03C32	07/14/89	FLUORIDE, TOTAL	0.20000	mg/L
03C32	07/14/89	GROSS BETA	8.00000	pcu/L
03C32	07/14/89	COLIFORM	0.00000	TC/.1L
03C32	07/14/89	TRICHLOROETHYLENE	0.00200	mg/L
03C32	07/14/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03C32	10/22/89	pH	7.40000	S.U.
03C32	10/22/89	SPECIFIC CONDUCTANCE	1270.00000	umho/cm
03C32	10/22/89	CALCIUM	106.00000	mg/L
03C32	10/22/89	MAGNESIUM	76.00000	mg/L
03C32	10/22/89	POTASSIUM	19.70000	mg/L
03C32	10/22/89	BICARBONATE	497.00000	mg/L
03C32	02/04/90	pH	7.60000	S.U.
03C32	02/04/90	SPECIFIC CONDUCTANCE	1262.00000	umho/cm
03C32	02/04/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C32	02/04/90	MANGANESE	0.01400	mg/L
03C32	02/04/90	SODIUM	26.00000	mg/L
03C32	02/04/90	CALCIUM	58.00000	mg/L
03C32	02/04/90	MAGNESIUM	44.00000	mg/L
03C32	02/04/90	POTASSIUM	38.00000	mg/L
03C32	02/04/90	SULFATE	300.00000	mg/L
03C32	02/04/90	CHLORIDE	11.00000	mg/L
03C32	02/04/90	BICARBONATE	732.00000	mg/L
03C32	04/22/90	pH	7.40000	S.U.
03C32	04/22/90	SPECIFIC CONDUCTANCE	1307.00000	umho/cm
03C32	04/22/90	CALCIUM	134.00000	mg/L
03C32	04/22/90	MAGNESIUM	116.00000	mg/L
03C32	04/22/90	POTASSIUM	50.00000	mg/L
03C32	04/22/90	BICARBONATE	354.00000	mg/L
03C32	07/18/90	pH	7.30000	S.U.
03C32	07/18/90	SPECIFIC CONDUCTANCE	1123.00000	umho/cm
03C32	07/18/90	TOTAL ORGANIC CARBON	1.90000	mg/L
03C32	07/18/90	IRON, TOTAL	0.08000	mg/L
03C32	07/18/90	SODIUM	45.00000	mg/L
03C32	07/18/90	CALCIUM	127.00000	mg/L
03C32	07/18/90	MAGNESIUM	92.00000	mg/L
03C32	07/18/90	POTASSIUM	12.00000	mg/L
03C32	07/18/90	BICARBONATE	502.00000	mg/L
03C32	10/21/90	pH	6.90000	S.U.
03C32	10/21/90	SPECIFIC CONDUCTANCE	1189.00000	umho/cm
03C32	10/21/90	SODIUM	49.00000	mg/L
03C32	10/21/90	CALCIUM	119.00000	mg/L
03C32	10/21/90	MAGNESIUM	63.00000	mg/L
03C32	10/21/90	POTASSIUM	5.00000	mg/L
03C32	01/23/91	pH	7.40000	S.U.
03C32	01/23/91	SPECIFIC CONDUCTANCE	1194.00000	umho/cm
03C32	01/23/91	TOTAL ORGANIC CARBON	0.79000	mg/L
03C32	01/23/91	MANGANESE	0.05000	mg/L
03C32	01/23/91	SODIUM	82.00000	mg/L
03C32	01/23/91	CALCIUM	101.00000	mg/L
03C32	01/23/91	MAGNESIUM	108.00000	mg/L
03C32	01/23/91	POTASSIUM	7.00000	mg/L
03C32	01/23/91	SULFATE	345.00000	mg/L
03C32	01/23/91	CHLORIDE	13.00000	mg/L
03C32	01/23/91	BICARBONATE	494.00000	mg/L
03C32	01/23/91	AMMONIA-NITROGEN	0.21000	mg/L
03C32	04/11/91	pH	7.70000	S.U.
03C32	04/11/91	SPECIFIC CONDUCTANCE	1072.00000	umho/cm
03C32	04/11/91	CALCIUM	118.90000	mg/L
03C32	04/11/91	MAGNESIUM	77.20000	mg/L

03C32	04/11/91	POTASSIUM	6.60000	mg/L
03C32	04/11/91	BICARBONATE	478.00000	mg/L
03C32	07/14/91	pH	7.03000	S.U.
03C32	07/14/91	SPECIFIC CONDUCTANCE	1080.00000	umho/cm
03C32	07/14/91	TOTAL ORGANIC CARBON	0.54000	mg/L
03C32	07/14/91	MANGANESE	0.01000	mg/L
03C32	07/14/91	SODIUM	30.60000	mg/L
03C32	07/14/91	CALCIUM	102.50000	mg/L
03C32	07/14/91	MAGNESIUM	72.90000	mg/L
03C32	07/14/91	POTASSIUM	2.00000	mg/L
03C32	07/14/91	BICARBONATE	592.00000	mg/L
03C32	07/14/91	AMMONIA-NITROGEN	0.20000	mg/L
03C32	09/28/91	pH	7.01000	S.U.
03C32	09/28/91	SPECIFIC CONDUCTANCE	1016.00000	umho/cm
03C32	09/28/91	SODIUM	32.20000	mg/L
03C32	09/28/91	BICARBONATE	588.00000	mg/L
03C32	09/28/91	CALCIUM	99.60000	mg/L
03C32	09/28/91	MAGNESIUM	81.60000	mg/L
03C32	09/28/91	POTASSIUM	19.40000	mg/L
03C32	01/14/92	pH	7.50000	S.U.
03C32	01/14/92	SPECIFIC CONDUCTANCE	1040.00000	umho/cm
03C32	01/14/92	TOTAL ORGANIC CARBON	1.20000	mg/L
03C32	01/14/92	IRON, TOTAL	0.12000	mg/L
03C32	01/14/92	MANGANESE	0.01300	mg/L
03C32	01/14/92	SODIUM	43.50000	mg/L
03C32	01/14/92	CALCIUM	118.80000	mg/L
03C32	01/14/92	MAGNESIUM	88.50000	mg/L
03C32	01/14/92	POTASSIUM	37.50000	mg/L
03C32	01/14/92	SULFATE	360.00000	mg/L
03C32	01/14/92	CHLORIDE	8.00000	mg/L
03C32	01/14/92	BICARBONATE	556.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C34	02/04/90	pH	8.50000	S.U.
03C34	02/04/90	SPECIFIC CONDUCTANCE	161.00000	umho/cm
03C34	02/04/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03C34	02/04/90	SODIUM	1.00000	mg/L
03C34	02/04/90	CALCIUM	20.00000	mg/L
03C34	02/04/90	MAGNESIUM	3.00000	mg/L
03C34	02/04/90	POTASSIUM	1.00000	mg/L
03C34	02/04/90	SULFATE	24.00000	mg/L
03C34	02/04/90	CHLORIDE	9.00000	mg/L
03C34	02/04/90	BICARBONATE	146.00000	mg/L
03C34	02/04/90	FLUORIDE, TOTAL	0.06000	mg/L
03C34	02/04/90	NITRATE-N	0.40000	mg/L
03C34	02/04/90	COLIFORM	40.00000	TC/.1L
03C34	02/04/90	TRICHLOROETHYLENE	0.00200	mg/L
03C34	07/21/90	pH	7.60000	S.U.
03C34	07/21/90	SPECIFIC CONDUCTANCE	235.00000	umho/cm
03C34	07/21/90	TOTAL ORGANIC CARBON	4.70000	mg/L
03C34	07/21/90	IRON, TOTAL	0.39000	mg/L
03C34	07/21/90	MANGANESE	0.00800	mg/L
03C34	07/21/90	SODIUM	2.00000	mg/L
03C34	07/21/90	CALCIUM	37.00000	mg/L
03C34	07/21/90	MAGNESIUM	6.00000	mg/L
03C34	07/21/90	POTASSIUM	1.00000	mg/L
03C34	07/21/90	SULFATE	22.00000	mg/L
03C34	07/21/90	CHLORIDE	11.00000	mg/L
03C34	07/21/90	BICARBONATE	146.00000	mg/L
03C34	10/23/90	pH	7.20000	S.U.
03C34	10/23/90	SPECIFIC CONDUCTANCE	304.00000	umho/cm
03C34	10/23/90	SODIUM	5.00000	mg/L
03C34	10/23/90	CALCIUM	48.00000	mg/L
03C34	10/23/90	MAGNESIUM	7.00000	mg/L
03C34	10/23/90	POTASSIUM	1.00000	mg/L
03C34	01/24/91	pH	8.00000	S.U.
03C34	01/24/91	SPECIFIC CONDUCTANCE	165.00000	umho/cm
03C34	01/24/91	TOTAL ORGANIC CARBON	2.34000	mg/L
03C34	01/24/91	SODIUM	3.00000	mg/L
03C34	01/24/91	CALCIUM	18.00000	mg/L
03C34	01/24/91	MAGNESIUM	6.00000	mg/L
03C34	01/24/91	POTASSIUM	1.00000	mg/L
03C34	01/24/91	SULFATE	28.00000	mg/L
03C34	01/24/91	CHLORIDE	8.00000	mg/L
03C34	01/24/91	BICARBONATE	98.00000	mg/L
03C34	04/01/91	pH	7.61000	S.U.
03C34	04/01/91	SPECIFIC CONDUCTANCE	163.00000	umho/cm
03C34	04/01/91	TOTAL ORGANIC CARBON	1.72000	mg/L
03C34	04/01/91	IRON, TOTAL	0.06500	mg/L
03C34	04/01/91	MANGANESE	0.00800	mg/L
03C34	04/01/91	SODIUM	2.00000	mg/L
03C34	04/01/91	CALCIUM	19.00000	mg/L
03C34	04/01/91	MAGNESIUM	6.00000	mg/L
03C34	04/01/91	POTASSIUM	1.00000	mg/L
03C34	04/01/91	BICARBONATE	90.00000	mg/L
03C34	04/01/91	COLIFORM	0.10000	TC/.1L
03C34	07/14/91	pH	7.61000	S.U.
03C34	07/14/91	SPECIFIC CONDUCTANCE	272.00000	umho/cm
03C34	07/14/91	TOTAL ORGANIC CARBON	2.11000	mg/L
03C34	07/14/91	IRON, TOTAL	17.67000	mg/L
03C34	07/14/91	MANGANESE	3.09000	mg/L

03C34	07/14/91	SODIUM	5.30000	mg/L
03C34	07/14/91	CALCIUM	99.00000	mg/L
03C34	07/14/91	MAGNESIUM	11.80000	mg/L
03C34	07/14/91	POTASSIUM	2.00000	mg/L
03C34	07/14/91	BICARBONATE	221.00000	mg/L
03C34	07/14/91	SULFATE	30.00000	mg/L
03C34	07/14/91	CHLORIDE	9.00000	mg/L
03C34	07/14/91	COLIFORM	0.55000	TC/.1L
03C34	09/30/91	pH	7.46000	S.U.
03C34	09/30/91	SPECIFIC CONDUCTANCE	277.00000	umho/cm
03C34	09/30/91	TOTAL ORGANIC CARBON	1.90000	mg/L
03C34	09/30/91	TOTAL ORGANIC HALOGENS	0.14000	mg/L
03C34	09/30/91	CHLORIDE	6.00000	mg/L
03C34	09/30/91	IRON, TOTAL	7.68000	mg/L
03C34	09/30/91	MANGANESE	0.82000	mg/L
03C34	09/30/91	SODIUM	3.40000	mg/L
03C34	09/30/91	SULFATE	30.00000	mg/L
03C34	09/30/91	BARIUM, TOTAL	0.11000	mg/L
03C34	09/30/91	NITRATE-N	0.29000	mg/L
03C34	09/30/91	GROSS ALPHA	1.00000	pcu/L
03C34	09/30/91	GROSS BETA	7.70000	pcu/L
03C34	09/30/91	COLIFORM	16.00000	TC/.1L
03C34	09/30/91	BICARBONATE	201.00000	mg/L
03C34	09/30/91	CALCIUM	51.50000	mg/L
03C34	09/30/91	MAGNESIUM	8.10000	mg/L
03C34	09/30/91	POTASSIUM	7.50000	mg/L
03C34	01/14/92	pH	8.60000	S.U.
03C34	01/14/92	SPECIFIC CONDUCTANCE	138.00000	umho/cm
03C34	01/14/92	TOTAL ORGANIC CARBON	3.94000	mg/L
03C34	01/14/92	IRON, TOTAL	9.41000	mg/L
03C34	01/14/92	MANGANESE	4.82500	mg/L
03C34	01/14/92	SODIUM	2.60000	mg/L
03C34	01/14/92	CALCIUM	95.30000	mg/L
03C34	01/14/92	MAGNESIUM	7.80000	mg/L
03C34	01/14/92	POTASSIUM	6.50000	mg/L
03C34	01/14/92	SULFATE	22.00000	mg/L
03C34	01/14/92	CHLORIDE	8.00000	mg/L
03C34	01/14/92	BICARBONATE	114.00000	mg/L
03C34	01/14/92	NITRATE-N	0.42000	mg/L
03C34	01/14/92	GROSS BETA	11.80000	pcu/L
03C34	01/14/92	COLIFORM	32.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C37	02/04/90	pH	7.90000	S.U.
03C37	02/04/90	SPECIFIC CONDUCTANCE	870.00000	umho/cm
03C37	02/04/90	TOTAL ORGANIC CARBON	3.30000	mg/L
03C37	02/04/90	MANGANESE	0.01200	mg/L
03C37	02/04/90	SODIUM	16.00000	mg/L
03C37	02/04/90	CALCIUM	47.00000	mg/L
03C37	02/04/90	MAGNESIUM	59.00000	mg/L
03C37	02/04/90	POTASSIUM	3.00000	mg/L
03C37	02/04/90	SULFATE	330.00000	mg/L
03C37	02/04/90	CHLORIDE	11.00000	mg/L
03C37	02/04/90	BICARBONATE	183.00000	mg/L
03C37	02/04/90	FLUORIDE, TOTAL	0.34000	mg/L
03C37	02/04/90	COLIFORM	0.00000	TC/.1L
03C37	07/21/90	pH	8.00000	S.U.
03C37	07/21/90	SPECIFIC CONDUCTANCE	965.00000	umho/cm
03C37	07/21/90	TOTAL ORGANIC CARBON	3.20000	mg/L
03C37	07/21/90	SODIUM	81.00000	mg/L
03C37	07/21/90	CALCIUM	34.00000	mg/L
03C37	07/21/90	MAGNESIUM	73.00000	mg/L
03C37	07/21/90	POTASSIUM	3.00000	mg/L
03C37	07/21/90	SULFATE	500.00000	mg/L
03C37	07/21/90	CHLORIDE	14.00000	mg/L
03C37	07/21/90	BICARBONATE	146.00000	mg/L
03C37	10/23/90	pH	7.40000	S.U.
03C37	10/23/90	SPECIFIC CONDUCTANCE	1127.00000	umho/cm
03C37	10/23/90	SODIUM	58.00000	mg/L
03C37	10/23/90	CALCIUM	76.00000	mg/L
03C37	10/23/90	MAGNESIUM	63.00000	mg/L
03C37	10/23/90	POTASSIUM	7.00000	mg/L
03C37	01/20/91	pH	7.85000	S.U.
03C37	01/20/91	SPECIFIC CONDUCTANCE	958.00000	umho/cm
03C37	01/20/91	TOTAL ORGANIC CARBON	0.83000	mg/L
03C37	01/20/91	MANGANESE	0.11600	mg/L
03C37	01/20/91	SODIUM	25.00000	mg/L
03C37	01/20/91	CALCIUM	61.00000	mg/L
03C37	01/20/91	MAGNESIUM	105.00000	mg/L
03C37	01/20/91	POTASSIUM	4.00000	mg/L
03C37	01/20/91	SULFATE	500.00000	mg/L
03C37	01/20/91	CHLORIDE	12.00000	mg/L
03C37	01/20/91	BICARBONATE	195.00000	mg/L
03C37	04/09/91	pH	7.52000	S.U.
03C37	04/09/91	SPECIFIC CONDUCTANCE	900.00000	umho/cm
03C37	04/09/91	TOTAL ORGANIC CARBON	2.33000	mg/L
03C37	04/09/91	IRON, TOTAL	0.01400	mg/L
03C37	04/09/91	MANGANESE	0.01500	mg/L
03C37	04/09/91	SODIUM	32.00000	mg/L
03C37	04/09/91	CALCIUM	73.00000	mg/L
03C37	04/09/91	MAGNESIUM	127.00000	mg/L
03C37	04/09/91	POTASSIUM	4.20000	mg/L
03C37	04/09/91	BICARBONATE	191.00000	mg/L
03C37	04/09/91	COLIFORM	0.00100	TC/.1L
03C37	07/14/91	pH	7.85000	S.U.
03C37	07/14/91	SPECIFIC CONDUCTANCE	1035.00000	umho/cm
03C37	07/14/91	TOTAL ORGANIC CARBON	3.13000	mg/L
03C37	07/14/91	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C37	07/14/91	IRON, TOTAL	1.49000	mg/L
03C37	07/14/91	MANGANESE	0.26000	mg/L
03C37	07/14/91	SODIUM	29.10000	mg/L

03C37	07/14/91	CALCIUM	82.10000	mg/L
03C37	07/14/91	MAGNESIUM	96.10000	mg/L
03C37	07/14/91	BICARBONATE	333.00000	mg/L
03C37	07/14/91	TRICHLOROETHENE	0.02500	mg/L
03C37	07/14/91	SULFATE	520.00000	mg/L
03C37	07/14/91	CHLORIDE	13.00000	mg/L
03C37	07/14/91	COLIFORM	0.01000	TC/.1L
03C37	10/07/91	pH	7.41000	S.U.
03C37	10/07/91	SPECIFIC CONDUCTANCE	932.00000	umho/cm
03C37	10/07/91	TOTAL ORGANIC CARBON	3.80000	mg/L
03C37	10/07/91	TOTAL ORGANIC HALOGENS	0.11800	mg/L
03C37	10/07/91	CHLORIDE	5.00000	mg/L
03C37	10/07/91	IRON, TOTAL	12.10000	mg/L
03C37	10/07/91	MANGANESE	1.60000	mg/L
03C37	10/07/91	SODIUM	31.20000	mg/L
03C37	10/07/91	SULFATE	475.00000	mg/L
03C37	10/07/91	BARIUM, TOTAL	0.09000	mg/L
03C37	10/07/91	GROSS ALPHA	7.90000	pcu/L
03C37	10/07/91	GROSS BETA	1.70000	pcu/L
03C37	10/07/91	COLIFORM	0.00100	TC/.1L
03C37	10/07/91	BICARBONATE	268.00000	mg/L
03C37	10/07/91	CALCIUM	76.20000	mg/L
03C37	10/07/91	MAGNESIUM	84.60000	mg/L
03C37	10/07/91	POTASSIUM	82.50000	mg/L
03C37	01/14/92	pH	8.40000	S.U.
03C37	01/14/92	SPECIFIC CONDUCTANCE	910.00000	umho/cm
03C37	01/14/92	TOTAL ORGANIC CARBON	1.40000	mg/L
03C37	01/14/92	MANGANESE	0.07900	mg/L
03C37	01/14/92	SODIUM	31.70000	mg/L
03C37	01/14/92	CALCIUM	83.40000	mg/L
03C37	01/14/92	MAGNESIUM	91.90000	mg/L
03C37	01/14/92	POTASSIUM	8.70000	mg/L
03C37	01/14/92	SULFATE	395.00000	mg/L
03C37	01/14/92	CHLORIDE	10.00000	mg/L
03C37	01/14/92	BICARBONATE	209.00000	mg/L
03C37	01/14/92	COLIFORM	0.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B01	09/28/87	pH	6.93000	S.U.
03B01	09/28/87	SPECIFIC CONDUCTANCE	700.00000	umho/cm
03B01	09/28/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03B01	09/28/87	IRON, TOTAL	0.50000	mg/L
03B01	09/28/87	MANGANESE	0.21000	mg/L
03B01	09/28/87	SODIUM	9.00000	mg/L
03B01	09/28/87	SULFATE	85.00000	mg/L
03B01	09/28/87	CHLORIDE	7.00000	mg/L
03B01	09/28/87	BARIUM, TOTAL	0.05000	mg/L
03B01	09/28/87	RADIUM, TOTAL	0.40000	pCi/l
03B01	09/28/87	GROSS ALPHA	4.00000	pCi/l
03B01	09/28/87	GROSS BETA	3.40000	mlrem/y
03B01	09/28/87	METHYLENE CHLORIDE	0.00200	mg/L
03B01	01/29/88	pH	7.04000	S.U.
03B01	01/29/88	SPECIFIC CONDUCTANCE	463.00000	umho/cm
03B01	01/29/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B01	01/29/88	MANGANESE	0.02000	mg/L
03B01	01/29/88	SODIUM	6.00000	mg/L
03B01	01/29/88	SULFATE	54.00000	mg/L
03B01	01/29/88	BARIUM, TOTAL	0.05000	mg/L
03B01	01/29/88	FLUORIDE, TOTAL	0.14000	mg/L
03B01	01/29/88	NITRATE-N	0.19000	mg/L
03B01	01/29/88	LINDANE	0.00400	mg/L
03B01	01/29/88	RADIUM, TOTAL	0.00000	pCi/l
03B01	01/29/88	GROSS ALPHA	0.00000	pCi/l
03B01	01/29/88	GROSS BETA	0.80000	mlrem/y
03B01	01/29/88	COLIFORM	0.00000	#/100ml
03B01	01/30/88	pH	8.01000	S.U.
03B01	01/30/88	SPECIFIC CONDUCTANCE	256.00000	umho/cm
03B01	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B01	01/30/88	SODIUM	8.00000	mg/L
03B01	01/30/88	SULFATE	7.00000	mg/L
03B01	01/30/88	CHLORIDE	3.00000	mg/L
03B01	01/30/88	CADMIUM, TOTAL	0.03000	mg/L
03B01	01/30/88	ENDRIN	0.00020	mg/L
03B01	01/30/88	LINDANE	0.00400	mg/L
03B01	01/30/88	RADIUM, TOTAL	0.20000	pCi/l
03B01	01/30/88	GROSS ALPHA	6.00000	pCi/l
03B01	01/30/88	GROSS BETA	2.50000	mlrem/y
03B01	01/30/88	COLIFORM	0.00000	#/100ml
03B01	04/21/88	pH	7.08000	S.U.
03B01	04/21/88	SPECIFIC CONDUCTANCE	497.00000	umho/cm
03B01	04/21/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B01	04/21/88	IRON, TOTAL	0.01000	mg/L
03B01	04/21/88	SODIUM	7.20000	mg/L
03B01	04/21/88	SULFATE	58.00000	mg/L
03B01	04/21/88	CHLORIDE	2.00000	mg/L
03B01	04/21/88	BARIUM, TOTAL	0.06000	mg/L
03B01	04/21/88	FLUORIDE, TOTAL	0.20000	mg/L
03B01	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B01	04/21/88	GROSS ALPHA	0.00000	mg/L
03B01	04/21/88	GROSS BETA	2.50000	mg/L
03B01	04/21/88	COLIFORM	0.00000	#/100ml
03B01	07/26/88	pH	6.90000	S.U.
03B01	07/26/88	SPECIFIC CONDUCTANCE	716.00000	umho/cm
03B01	07/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B01	07/26/88	SODIUM	8.80000	mg/L
03B01	07/26/88	SULFATE	80.00000	mg/L

03B01	07/26/88	CHLORIDE	9.00000	mg/L
03B01	07/26/88	BARIUM, TOTAL	0.08800	mg/L
03B01	07/26/88	FLUORIDE, TOTAL	0.20000	mg/L
03B01	07/26/88	RADIUM, TOTAL	0.00000	pcu/L
03B01	07/26/88	GROSS ALPHA	0.00000	pcu/L
03B01	07/26/88	GROSS BETA	3.00000	pcu/L
03B01	07/26/88	COLIFORM	0.00000	TC/.1L
03B01	10/20/88	pH	6.80000	S.U.
03B01	10/20/88	SPECIFIC CONDUCTANCE	448.00000	umho/cm
03B01	10/20/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B01	10/20/88	SODIUM	5.00000	mg/L
03B01	10/20/88	SULFATE	65.00000	mg/L
03B01	10/20/88	CHLORIDE	5.00000	mg/L
03B01	10/20/88	BICARBONATE	469.00000	mg/L
03B01	10/20/88	CALCIUM	98.00000	mg/L
03B01	10/20/88	MAGNESIUM	12.00000	mg/L
03B01	10/20/88	POTASSIUM	2.00000	mg/L
03B01	10/20/88	FLUORIDE, TOTAL	0.12000	mg/L
03B01	10/20/88	GROSS BETA	1.50000	pcu/L
03B01	10/20/88	COLIFORM	0.00000	TC/.1L
03B01	10/20/88	DI-N-BUTYL PHTHALATE	0.04000	mg/L
03B01	10/20/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.03000	mg/L
03B01	01/17/89	pH	7.30000	S.U.
03B01	01/17/89	SPECIFIC CONDUCTANCE	458.00000	umho/cm
03B01	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B01	01/17/89	SODIUM	3.00000	mg/L
03B01	01/17/89	SULFATE	54.00000	mg/L
03B01	01/17/89	CHLORIDE	5.00000	mg/L
03B01	01/17/89	BICARBONATE	366.00000	mg/L
03B01	01/17/89	CALCIUM	107.00000	mg/L
03B01	01/17/89	MAGNESIUM	8.00000	mg/L
03B01	01/17/89	POTASSIUM	1.00000	mg/L
03B01	01/17/89	BARIUM, TOTAL	0.06000	mg/L
03B01	01/17/89	FLUORIDE, TOTAL	0.16000	mg/L
03B01	01/17/89	COLIFORM	2.00000	TC/.1L
03B01	04/13/89	pH	7.30000	S.U.
03B01	04/13/89	SPECIFIC CONDUCTANCE	430.00000	umho/cm
03B01	04/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B01	04/13/89	SODIUM	2.50000	mg/L
03B01	04/13/89	CALCIUM	88.00000	mg/L
03B01	04/13/89	MAGNESIUM	7.00000	mg/L
03B01	04/13/89	POTASSIUM	1.00000	mg/L
03B01	04/13/89	SULFATE	45.00000	mg/L
03B01	04/13/89	CHLORIDE	13.00000	mg/L
03B01	04/13/89	BICARBONATE	225.00000	mg/L
03B01	04/13/89	FLUORIDE, TOTAL	0.07000	mg/L
03B01	04/13/89	NITRATE-N	0.17000	mg/L
03B01	04/13/89	COLIFORM	0.00000	TC/.1L
03B01	04/13/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03B01	07/14/89	pH	6.90000	S.U.
03B01	07/14/89	SPECIFIC CONDUCTANCE	567.00000	umho/cm
03B01	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B01	07/14/89	SODIUM	2.80000	mg/L
03B01	07/14/89	CALCIUM	105.00000	mg/L
03B01	07/14/89	MAGNESIUM	9.00000	mg/L
03B01	07/14/89	POTASSIUM	1.00000	mg/L
03B01	07/14/89	SULFATE	48.00000	mg/L
03B01	07/14/89	CHLORIDE	10.00000	mg/L
03B01	07/14/89	BICARBONATE	390.00000	mg/L
03B01	07/14/89	BARIUM, TOTAL	0.06000	mg/L

03B01	07/14/89	COLIFORM	0.00000	TC/.1L
03B01	10/25/89	pH	6.90000	S.U.
03B01	10/25/89	SPECIFIC CONDUCTANCE	606.00000	umho/cm
03B01	10/25/89	CALCIUM	95.00000	mg/L
03B01	10/25/89	MAGNESIUM	10.00000	mg/L
03B01	10/25/89	POTASSIUM	0.70000	mg/L
03B01	10/25/89	BICARBONATE	293.00000	mg/L
03B01	10/25/89	TRICHLOROETHYLENE	0.01900	mg/L
03B01	01/30/90	pH	7.10000	S.U.
03B01	01/30/90	SPECIFIC CONDUCTANCE	499.00000	umho/cm
03B01	01/30/90	TOTAL ORGANIC CARBON	1.30000	mg/L
03B01	01/30/90	SODIUM	2.00000	mg/L
03B01	01/30/90	CALCIUM	78.00000	mg/L
03B01	01/30/90	MAGNESIUM	7.00000	mg/L
03B01	01/30/90	POTASSIUM	1.00000	mg/L
03B01	01/30/90	SULFATE	50.00000	mg/L
03B01	01/30/90	CHLORIDE	10.00000	mg/L
03B01	01/30/90	BICARBONATE	378.00000	mg/L
03B01	04/17/90	pH	7.50000	S.U.
03B01	04/17/90	SPECIFIC CONDUCTANCE	438.00000	umho/cm
03B01	04/17/90	CALCIUM	96.00000	mg/L
03B01	04/17/90	MAGNESIUM	8.00000	mg/L
03B01	04/17/90	POTASSIUM	1.00000	mg/L
03B01	04/17/90	BICARBONATE	394.00000	mg/L
03B01	07/17/90	pH	6.90000	S.U.
03B01	07/17/90	SPECIFIC CONDUCTANCE	563.00000	umho/cm
03B01	07/17/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03B01	07/17/90	SODIUM	4.00000	mg/L
03B01	07/17/90	CALCIUM	114.00000	mg/L
03B01	07/17/90	MAGNESIUM	10.00000	mg/L
03B01	07/17/90	POTASSIUM	1.00000	mg/L
03B01	07/17/90	BICARBONATE	347.00000	mg/L
03B01	10/23/90	pH	6.50000	S.U.
03B01	10/23/90	SPECIFIC CONDUCTANCE	640.00000	umho/cm
03B01	10/23/90	SODIUM	11.00000	mg/L
03B01	10/23/90	CALCIUM	120.00000	mg/L
03B01	10/23/90	MAGNESIUM	18.00000	mg/L
03B01	01/17/91	pH	6.79000	S.U.
03B01	01/17/91	SPECIFIC CONDUCTANCE	510.00000	umho/cm
03B01	01/17/91	TOTAL ORGANIC CARBON	1.59000	mg/L
03B01	01/17/91	SODIUM	2.00000	mg/L
03B01	01/17/91	CALCIUM	66.00000	mg/L
03B01	01/17/91	MAGNESIUM	8.00000	mg/L
03B01	01/17/91	SULFATE	52.00000	mg/L
03B01	01/17/91	CHLORIDE	9.00000	mg/L
03B01	01/17/91	BICARBONATE	336.00000	mg/L
03B01	04/02/91	pH	6.92000	S.U.
03B01	04/02/91	SPECIFIC CONDUCTANCE	411.00000	umho/cm
03B01	04/02/91	CALCIUM	92.50000	mg/L
03B01	04/02/91	MAGNESIUM	7.00000	mg/L
03B01	04/02/91	POTASSIUM	0.30000	mg/L
03B01	04/02/91	BICARBONATE	299.00000	mg/L
03B01	07/16/91	pH	6.94000	S.U.
03B01	07/16/91	SPECIFIC CONDUCTANCE	642.00000	umho/cm
03B01	07/16/91	TOTAL ORGANIC CARBON	2.39000	mg/L
03B01	07/16/91	IRON, TOTAL	0.55000	mg/L
03B01	07/16/91	MANGANESE	0.02000	mg/L
03B01	07/16/91	SODIUM	5.10000	mg/L
03B01	07/16/91	CALCIUM	95.90000	mg/L
03B01	07/16/91	MAGNESIUM	11.90000	mg/L

03B01	07/16/91	POTASSIUM	1.50000	mg/L
03B01	07/16/91	BICARBONATE	412.00000	mg/L
03B01	07/16/91	BIS(2-ETHYLHEXYL)PHTHALATE	0.00100	mg/L
03B01	10/04/91	pH	7.02000	S.U.
03B01	10/04/91	SPECIFIC CONDUCTANCE	569.00000	umho/cm
03B01	10/04/91	SODIUM	3.70000	mg/L
03B01	10/04/91	BICARBONATE	311.00000	mg/L
03B01	10/04/91	CALCIUM	84.40000	mg/L
03B01	10/04/91	MAGNESIUM	13.20000	mg/L
03B01	10/04/91	POTASSIUM	1.80000	mg/L
03B01	01/09/92	pH	8.00000	S.U.
03B01	01/09/92	SPECIFIC CONDUCTANCE	465.00000	umho/cm
03B01	01/09/92	TOTAL ORGANIC CARBON	3.07000	mg/L
03B01	01/09/92	SODIUM	3.50000	mg/L
03B01	01/09/92	CALCIUM	103.50000	mg/L
03B01	01/09/92	MAGNESIUM	9.10000	mg/L
03B01	01/09/92	POTASSIUM	1.00000	mg/L
03B01	01/09/92	SULFATE	69.00000	mg/L
03B01	01/09/92	CHLORIDE	14.00000	mg/L
03B01	01/09/92	BICARBONATE	293.00000	mg/L
03B01	01/09/92	AMMONIA-NITROGEN	0.07000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B02	09/28/87	pH	6.90000	S.U.
03B02	09/28/87	SPECIFIC CONDUCTANCE	361.00000	umho/cm
03B02	09/28/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03B02	09/28/87	IRON, TOTAL	0.10000	mg/L
03B02	09/28/87	MANGANESE	2.10000	mg/L
03B02	09/28/87	SODIUM	11.00000	mg/L
03B02	09/28/87	SULFATE	19.00000	mg/L
03B02	09/28/87	CHLORIDE	12.00000	mg/L
03B02	09/28/87	RADIUM, TOTAL	0.00000	pCi/l
03B02	09/28/87	GROSS ALPHA	0.00000	pCi/l
03B02	09/28/87	GROSS BETA	3.70000	mlrem/y
03B02	09/28/87	METHYLENE CHLORIDE	0.00900	mg/L
03B02	01/29/88	pH	7.40000	S.U.
03B02	01/29/88	SPECIFIC CONDUCTANCE	288.00000	umho/cm
03B02	01/29/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B02	01/29/88	MANGANESE	1.15000	mg/L
03B02	01/29/88	SODIUM	14.00000	mg/L
03B02	01/29/88	SULFATE	16.00000	mg/L
03B02	01/29/88	BARIUM, TOTAL	0.11000	mg/L
03B02	01/29/88	FLUORIDE, TOTAL	0.18000	mg/L
03B02	01/29/88	RADIUM, TOTAL	0.00000	pCi/l
03B02	01/29/88	GROSS ALPHA	0.00000	pCi/l
03B02	01/29/88	GROSS BETA	0.00000	mlrem/y
03B02	01/29/88	COLIFORM	0.00000	#/100ml
03B02	04/21/88	pH	7.25000	S.U.
03B02	04/21/88	SPECIFIC CONDUCTANCE	286.00000	umho/cm
03B02	04/21/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B02	04/21/88	IRON, TOTAL	0.92000	mg/L
03B02	04/21/88	MANGANESE	1.56000	mg/L
03B02	04/21/88	SODIUM	12.00000	mg/L
03B02	04/21/88	SULFATE	19.00000	mg/L
03B02	04/21/88	CHLORIDE	2.00000	mg/L
03B02	04/21/88	BARIUM, TOTAL	0.12000	mg/L
03B02	04/21/88	FLUORIDE, TOTAL	0.33000	mg/L
03B02	04/21/88	RADIUM, TOTAL	0.10000	mg/L
03B02	04/21/88	GROSS ALPHA	5.80000	mg/L
03B02	04/21/88	GROSS BETA	5.60000	mg/L
03B02	04/21/88	COLIFORM	0.00000	#/100ml
03B02	07/26/88	pH	6.80000	S.U.
03B02	07/26/88	SPECIFIC CONDUCTANCE	614.00000	umho/cm
03B02	07/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B02	07/26/88	IRON, TOTAL	27.00000	mg/L
03B02	07/26/88	MANGANESE	1.46000	mg/L
03B02	07/26/88	SODIUM	11.00000	mg/L
03B02	07/26/88	SULFATE	21.00000	mg/L
03B02	07/26/88	CHLORIDE	47.00000	mg/L
03B02	07/26/88	BARIUM, TOTAL	0.34800	mg/L
03B02	07/26/88	FLUORIDE, TOTAL	0.20000	mg/L
03B02	07/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03B02	07/26/88	2,4,5-TP	0.10000	mg/L
03B02	07/26/88	RADIUM, TOTAL	5.50000	pcu/L
03B02	07/26/88	GROSS ALPHA	5.50000	pcu/L
03B02	07/26/88	GROSS BETA	0.00000	pcu/L
03B02	10/20/88	pH	6.60000	S.U.
03B02	10/20/88	SPECIFIC CONDUCTANCE	286.00000	umho/cm
03B02	10/20/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B02	10/20/88	IRON, TOTAL	10.00000	mg/L
03B02	10/20/88	MANGANESE	0.91000	mg/L

03B02	10/20/88	SODIUM	16.00000	mg/L
03B02	10/20/88	SULFATE	25.00000	mg/L
03B02	10/20/88	CHLORIDE	14.00000	mg/L
03B02	10/20/88	AMMONIA-NITROGEN	1.00000	mg/L
03B02	10/20/88	BICARBONATE	439.00000	mg/L
03B02	10/20/88	CALCIUM	40.00000	mg/L
03B02	10/20/88	MAGNESIUM	4.00000	mg/L
03B02	10/20/88	POTASSIUM	3.00000	mg/L
03B02	10/20/88	FLUORIDE, TOTAL	0.10000	mg/L
03B02	10/20/88	GROSS BETA	3.50000	pcu/L
03B02	10/20/88	COLIFORM	0.00000	TC/.1L
03B02	10/20/88	DI-N-BUTYL PHTHALATE	0.03000	mg/L
03B02	10/20/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.03000	mg/L
03B02	01/17/89	pH	7.10000	S.U.
03B02	01/17/89	SPECIFIC CONDUCTANCE	270.00000	umho/cm
03B02	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B02	01/17/89	IRON, TOTAL	3.70000	mg/L
03B02	01/17/89	MANGANESE	0.64500	mg/L
03B02	01/17/89	SODIUM	14.00000	mg/L
03B02	01/17/89	SULFATE	19.00000	mg/L
03B02	01/17/89	CHLORIDE	7.00000	mg/L
03B02	01/17/89	AMMONIA-NITROGEN	0.34000	mg/L
03B02	01/17/89	BICARBONATE	275.00000	mg/L
03B02	01/17/89	CALCIUM	44.00000	mg/L
03B02	01/17/89	MAGNESIUM	4.00000	mg/L
03B02	01/17/89	POTASSIUM	1.00000	mg/L
03B02	01/17/89	BARIUM, TOTAL	0.13000	mg/L
03B02	01/17/89	FLUORIDE, TOTAL	0.30000	mg/L
03B02	01/17/89	COLIFORM	0.00000	TC/.1L
03B02	04/14/89	pH	7.20000	S.U.
03B02	04/14/89	SPECIFIC CONDUCTANCE	257.00000	umho/cm
03B02	04/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B02	04/14/89	IRON, TOTAL	4.10000	mg/L
03B02	04/14/89	MANGANESE	1.30000	mg/L
03B02	04/14/89	SODIUM	7.40000	mg/L
03B02	04/14/89	CALCIUM	35.00000	mg/L
03B02	04/14/89	MAGNESIUM	4.60000	mg/L
03B02	04/14/89	POTASSIUM	1.50000	mg/L
03B02	04/14/89	SULFATE	22.00000	mg/L
03B02	04/14/89	CHLORIDE	11.00000	mg/L
03B02	04/14/89	BICARBONATE	206.00000	mg/L
03B02	04/14/89	BARIUM, TOTAL	0.11000	mg/L
03B02	04/14/89	FLUORIDE, TOTAL	0.12000	mg/L
03B02	04/14/89	COLIFORM	0.00000	TC/.1L
03B02	07/14/89	pH	7.10000	S.U.
03B02	07/14/89	SPECIFIC CONDUCTANCE	302.00000	umho/cm
03B02	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B02	07/14/89	IRON, TOTAL	5.70000	mg/L
03B02	07/14/89	MANGANESE	1.20000	mg/L
03B02	07/14/89	SODIUM	6.00000	mg/L
03B02	07/14/89	CALCIUM	41.00000	mg/L
03B02	07/14/89	MAGNESIUM	5.00000	mg/L
03B02	07/14/89	POTASSIUM	1.80000	mg/L
03B02	07/14/89	SULFATE	23.00000	mg/L
03B02	07/14/89	CHLORIDE	10.00000	mg/L
03B02	07/14/89	BICARBONATE	156.00000	mg/L
03B02	07/14/89	AMMONIA-NITROGEN	0.35000	mg/L
03B02	07/14/89	BARIUM, TOTAL	0.11000	mg/L
03B02	07/14/89	FLUORIDE, TOTAL	0.10000	mg/L
03B02	07/14/89	COLIFORM	0.00000	TC/.1L

03B02	10/25/89	pH	7.30000	S.U.
03B02	10/25/89	SPECIFIC CONDUCTANCE	303.00000	umho/cm
03B02	10/25/89	IRON, TOTAL	5.80000	mg/L
03B02	10/25/89	CALCIUM	32.00000	mg/L
03B02	10/25/89	MAGNESIUM	3.00000	mg/L
03B02	10/25/89	POTASSIUM	1.30000	mg/L
03B02	10/25/89	BICARBONATE	176.00000	mg/L
03B02	10/25/89	TRICHLOROETHYLENE	0.00700	mg/L
03B02	01/30/90	pH	7.40000	S.U.
03B02	01/30/90	SPECIFIC CONDUCTANCE	261.00000	umho/cm
03B02	01/30/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03B02	01/30/90	IRON, TOTAL	4.03000	mg/L
03B02	01/30/90	MANGANESE	0.80000	mg/L
03B02	01/30/90	SODIUM	5.00000	mg/L
03B02	01/30/90	CALCIUM	23.00000	mg/L
03B02	01/30/90	MAGNESIUM	3.00000	mg/L
03B02	01/30/90	POTASSIUM	1.00000	mg/L
03B02	01/30/90	SULFATE	24.00000	mg/L
03B02	01/30/90	CHLORIDE	12.00000	mg/L
03B02	01/30/90	BICARBONATE	170.00000	mg/L
03B02	01/30/90	AMMONIA-NITROGEN	1.00000	mg/L
03B02	04/17/90	pH	7.40000	S.U.
03B02	04/17/90	SPECIFIC CONDUCTANCE	260.00000	umho/cm
03B02	04/17/90	IRON, TOTAL	0.78000	mg/L
03B02	04/17/90	CALCIUM	36.00000	mg/L
03B02	04/17/90	MAGNESIUM	6.00000	mg/L
03B02	04/17/90	POTASSIUM	1.00000	mg/L
03B02	04/17/90	BICARBONATE	119.00000	mg/L
03B02	07/17/90	pH	6.90000	S.U.
03B02	07/17/90	SPECIFIC CONDUCTANCE	290.00000	umho/cm
03B02	07/17/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03B02	07/17/90	IRON, TOTAL	9.93000	mg/L
03B02	07/17/90	SODIUM	8.00000	mg/L
03B02	07/17/90	CALCIUM	36.00000	mg/L
03B02	07/17/90	MAGNESIUM	5.00000	mg/L
03B02	07/17/90	POTASSIUM	1.00000	mg/L
03B02	07/17/90	BICARBONATE	126.00000	mg/L
03B02	07/17/90	AMMONIA-NITROGEN	0.41000	mg/L
03B02	10/23/90	pH	6.50000	S.U.
03B02	10/23/90	SPECIFIC CONDUCTANCE	327.00000	umho/cm
03B02	10/23/90	SODIUM	8.00000	mg/L
03B02	10/23/90	CALCIUM	41.00000	mg/L
03B02	10/23/90	MAGNESIUM	5.00000	mg/L
03B02	10/23/90	AMMONIA-NITROGEN	0.51000	mg/L
03B02	01/17/91	pH	6.96000	S.U.
03B02	01/17/91	SPECIFIC CONDUCTANCE	302.00000	umho/cm
03B02	01/17/91	TOTAL ORGANIC CARBON	1.39000	mg/L
03B02	01/17/91	IRON, TOTAL	3.37000	mg/L
03B02	01/17/91	MANGANESE	1.27000	mg/L
03B02	01/17/91	SODIUM	7.00000	mg/L
03B02	01/17/91	CALCIUM	31.00000	mg/L
03B02	01/17/91	MAGNESIUM	6.00000	mg/L
03B02	01/17/91	POTASSIUM	1.00000	mg/L
03B02	01/17/91	SULFATE	28.00000	mg/L
03B02	01/17/91	CHLORIDE	16.00000	mg/L
03B02	01/17/91	BICARBONATE	171.00000	mg/L
03B02	01/17/91	AMMONIA-NITROGEN	0.33000	mg/L
03B02	04/02/91	pH	7.11000	S.U.
03B02	04/02/91	SPECIFIC CONDUCTANCE	272.00000	umho/cm
03B02	04/02/91	CALCIUM	34.30000	mg/L

03B02	04/02/91	MAGNESIUM	4.70000	mg/L
03B02	04/02/91	POTASSIUM	1.00000	mg/L
03B02	04/02/91	BICARBONATE	132.00000	mg/L
03B02	04/02/91	AMMONIA-NITROGEN	0.36000	mg/L
03B02	07/16/91	pH	6.95000	S.U.
03B02	07/16/91	SPECIFIC CONDUCTANCE	421.00000	umho/cm
03B02	07/16/91	TOTAL ORGANIC CARBON	2.09000	mg/L
03B02	07/16/91	IRON, TOTAL	2.97000	mg/L
03B02	07/16/91	MANGANESE	1.12000	mg/L
03B02	07/16/91	SODIUM	14.00000	mg/L
03B02	07/16/91	CALCIUM	44.70000	mg/L
03B02	07/16/91	MAGNESIUM	4.80000	mg/L
03B02	07/16/91	POTASSIUM	0.30000	mg/L
03B02	07/16/91	BICARBONATE	215.00000	mg/L
03B02	07/16/91	AMMONIA-NITROGEN	0.35000	mg/L
03B02	10/04/91	pH	6.90000	S.U.
03B02	10/04/91	SPECIFIC CONDUCTANCE	405.00000	umho/cm
03B02	10/04/91	SODIUM	10.90000	mg/L
03B02	10/04/91	AMMONIA-NITROGEN	0.43000	mg/L
03B02	10/04/91	BICARBONATE	220.00000	mg/L
03B02	10/04/91	CALCIUM	39.50000	mg/L
03B02	10/04/91	MAGNESIUM	3.80000	mg/L
03B02	10/04/91	POTASSIUM	6.00000	mg/L
03B02	01/09/92	pH	7.90000	S.U.
03B02	01/09/92	SPECIFIC CONDUCTANCE	275.00000	umho/cm
03B02	01/09/92	TOTAL ORGANIC CARBON	1.27000	mg/L
03B02	01/09/92	IRON, TOTAL	5.13000	mg/L
03B02	01/09/92	MANGANESE	0.97000	mg/L
03B02	01/09/92	SODIUM	6.80000	mg/L
03B02	01/09/92	CALCIUM	35.90000	mg/L
03B02	01/09/92	MAGNESIUM	4.50000	mg/L
03B02	01/09/92	POTASSIUM	1.00000	mg/L
03B02	01/09/92	SULFATE	18.00000	mg/L
03B02	01/09/92	CHLORIDE	16.00000	mg/L
03B02	01/09/92	BICARBONATE	102.00000	mg/L
03B02	01/09/92	AMMONIA-NITROGEN	0.27000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B03	09/28/87	pH	6.80000	S.U.
03B03	09/28/87	SPECIFIC CONDUCTANCE	356.00000	umho/cm
03B03	09/28/87	TOTAL ORGANIC CARBON	7.00000	mg/L
03B03	09/28/87	TOTAL ORGANIC HALOGENS	0.03100	mg/L
03B03	09/28/87	IRON, TOTAL	2.45000	mg/L
03B03	09/28/87	MANGANESE	3.70000	mg/L
03B03	09/28/87	SODIUM	15.00000	mg/L
03B03	09/28/87	SULFATE	10.00000	mg/L
03B03	09/28/87	CHLORIDE	20.00000	mg/L
03B03	09/28/87	BARIUM, TOTAL	0.05000	mg/L
03B03	09/28/87	RADIUM, TOTAL	0.20000	pCi/l
03B03	09/28/87	GROSS ALPHA	1.90000	pCi/l
03B03	09/28/87	GROSS BETA	3.60000	mlrem/y
03B03	09/28/87	TRICHLOROETHYLENE	0.01000	mg/L
03B03	09/28/87	BIS(2-ETHYLHEXYL)PHTHALATE	0.00000	mg/L
03B03	09/28/87	METHYLENE CHLORIDE	0.00300	mg/L
03B03	01/29/88	pH	6.74000	S.U.
03B03	01/29/88	SPECIFIC CONDUCTANCE	277.00000	umho/cm
03B03	01/29/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B03	01/29/88	IRON, TOTAL	9.60000	mg/L
03B03	01/29/88	MANGANESE	3.00000	mg/L
03B03	01/29/88	SODIUM	6.00000	mg/L
03B03	01/29/88	SULFATE	7.00000	mg/L
03B03	01/29/88	BARIUM, TOTAL	0.16000	mg/L
03B03	01/29/88	MERCURY, TOTAL	0.01200	mg/L
03B03	01/29/88	FLUORIDE, TOTAL	0.08000	mg/L
03B03	01/29/88	RADIUM, TOTAL	0.10000	pCi/l
03B03	01/29/88	GROSS ALPHA	0.40000	pCi/l
03B03	01/29/88	GROSS BETA	1.30000	mlrem/y
03B03	01/29/88	COLIFORM	0.00000	#/100ml
03B03	04/21/88	pH	6.82000	S.U.
03B03	04/21/88	SPECIFIC CONDUCTANCE	286.00000	umho/cm
03B03	04/21/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B03	04/21/88	IRON, TOTAL	10.00000	mg/L
03B03	04/21/88	MANGANESE	2.60000	mg/L
03B03	04/21/88	SODIUM	8.00000	mg/L
03B03	04/21/88	SULFATE	17.00000	mg/L
03B03	04/21/88	CHLORIDE	2.00000	mg/L
03B03	04/21/88	BARIUM, TOTAL	0.14000	mg/L
03B03	04/21/88	FLUORIDE, TOTAL	0.07000	mg/L
03B03	04/21/88	RADIUM, TOTAL	0.10000	mg/L
03B03	04/21/88	GROSS ALPHA	4.00000	mg/L
03B03	04/21/88	GROSS BETA	7.20000	mg/L
03B03	04/21/88	COLIFORM	0.00000	#/100ml
03B03	04/21/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.10000	mg/L
03B03	07/26/88	SPECIFIC CONDUCTANCE	326.00000	umho/cm
03B03	07/26/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B03	07/26/88	IRON, TOTAL	10.00000	mg/L
03B03	07/26/88	MANGANESE	2.00000	mg/L
03B03	07/26/88	SODIUM	9.00000	mg/L
03B03	07/26/88	SULFATE	6.00000	mg/L
03B03	07/26/88	CHLORIDE	9.00000	mg/L
03B03	07/26/88	BARIUM, TOTAL	0.16400	mg/L
03B03	07/26/88	FLUORIDE, TOTAL	0.20000	mg/L
03B03	07/26/88	RADIUM, TOTAL	0.10000	pcu/L
03B03	07/26/88	GROSS ALPHA	3.60000	pcu/L
03B03	07/26/88	GROSS BETA	7.10000	pcu/L
03B03	07/26/88	COLIFORM	0.00000	TC/.1L

03B03	10/20/88	pH	6.40000	S.U.
03B03	10/20/88	SPECIFIC CONDUCTANCE	298.00000	umho/cm
03B03	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B03	10/20/88	IRON, TOTAL	6.20000	mg/L
03B03	10/20/88	MANGANESE	2.75000	mg/L
03B03	10/20/88	SODIUM	5.00000	mg/L
03B03	10/20/88	SULFATE	18.00000	mg/L
03B03	10/20/88	CHLORIDE	6.00000	mg/L
03B03	10/20/88	AMMONIA-NITROGEN	0.50000	mg/L
03B03	10/20/88	BICARBONATE	347.00000	mg/L
03B03	10/20/88	CALCIUM	63.00000	mg/L
03B03	10/20/88	MAGNESIUM	7.00000	mg/L
03B03	10/20/88	POTASSIUM	2.00000	mg/L
03B03	10/20/88	FLUORIDE, TOTAL	0.12000	mg/L
03B03	10/20/88	GROSS BETA	3.50000	pcu/L
03B03	10/20/88	COLIFORM	0.00000	TC/.1L
03B03	01/17/89	pH	6.70000	S.U.
03B03	01/17/89	SPECIFIC CONDUCTANCE	284.00000	umho/cm
03B03	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B03	01/17/89	IRON, TOTAL	18.00000	mg/L
03B03	01/17/89	MANGANESE	2.80000	mg/L
03B03	01/17/89	SODIUM	9.00000	mg/L
03B03	01/17/89	SULFATE	20.00000	mg/L
03B03	01/17/89	CHLORIDE	8.00000	mg/L
03B03	01/17/89	AMMONIA-NITROGEN	0.50000	mg/L
03B03	01/17/89	BICARBONATE	275.00000	mg/L
03B03	01/17/89	CALCIUM	40.00000	mg/L
03B03	01/17/89	MAGNESIUM	7.00000	mg/L
03B03	01/17/89	POTASSIUM	1.00000	mg/L
03B03	01/17/89	BARIUM, TOTAL	0.21000	mg/L
03B03	01/17/89	FLUORIDE, TOTAL	0.21000	mg/L
03B03	01/17/89	COLIFORM	0.00000	TC/.1L
03B03	04/14/89	pH	7.00000	S.U.
03B03	04/14/89	SPECIFIC CONDUCTANCE	272.00000	umho/cm
03B03	04/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B03	04/14/89	IRON, TOTAL	13.60000	mg/L
03B03	04/14/89	MANGANESE	2.30000	mg/L
03B03	04/14/89	SODIUM	4.00000	mg/L
03B03	04/14/89	CALCIUM	25.00000	mg/L
03B03	04/14/89	MAGNESIUM	4.60000	mg/L
03B03	04/14/89	POTASSIUM	1.50000	mg/L
03B03	04/14/89	SULFATE	27.00000	mg/L
03B03	04/14/89	CHLORIDE	8.00000	mg/L
03B03	04/14/89	BICARBONATE	176.00000	mg/L
03B03	04/14/89	BARIUM, TOTAL	0.15000	mg/L
03B03	04/14/89	FLUORIDE, TOTAL	0.05000	mg/L
03B03	04/14/89	NITRATE-N	0.25000	mg/L
03B03	04/14/89	COLIFORM	0.00000	TC/.1L
03B03	07/14/89	pH	6.80000	S.U.
03B03	07/14/89	SPECIFIC CONDUCTANCE	288.00000	umho/cm
03B03	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B03	07/14/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03B03	07/14/89	IRON, TOTAL	15.10000	mg/L
03B03	07/14/89	MANGANESE	2.30000	mg/L
03B03	07/14/89	SODIUM	2.80000	mg/L
03B03	07/14/89	CALCIUM	26.00000	mg/L
03B03	07/14/89	MAGNESIUM	4.50000	mg/L
03B03	07/14/89	POTASSIUM	1.00000	mg/L
03B03	07/14/89	SULFATE	56.00000	mg/L
03B03	07/14/89	CHLORIDE	5.00000	mg/L

03B03	07/14/89	BICARBONATE	146.00000	mg/L
03B03	07/14/89	AMMONIA-NITROGEN	0.15000	mg/L
03B03	07/14/89	BARIUM, TOTAL	0.15000	mg/L
03B03	07/14/89	COLIFORM	0.00000	TC/.1L
03B03	10/25/89	pH	6.80000	S.U.
03B03	10/25/89	SPECIFIC CONDUCTANCE	273.00000	umho/cm
03B03	10/25/89	IRON, TOTAL	15.60000	mg/L
03B03	10/25/89	CALCIUM	28.00000	mg/L
03B03	10/25/89	MAGNESIUM	4.00000	mg/L
03B03	10/25/89	POTASSIUM	1.30000	mg/L
03B03	10/25/89	BICARBONATE	156.00000	mg/L
03B03	10/25/89	AMMONIA-NITROGEN	0.23000	mg/L
03B03	10/25/89	TRICHLOROETHYLENE	0.03000	mg/L
03B03	01/30/90	pH	7.10000	S.U.
03B03	01/30/90	SPECIFIC CONDUCTANCE	274.00000	umho/cm
03B03	01/30/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03B03	01/30/90	IRON, TOTAL	14.40000	mg/L
03B03	01/30/90	MANGANESE	2.00000	mg/L
03B03	01/30/90	SODIUM	3.00000	mg/L
03B03	01/30/90	CALCIUM	26.00000	mg/L
03B03	01/30/90	MAGNESIUM	4.00000	mg/L
03B03	01/30/90	POTASSIUM	1.00000	mg/L
03B03	01/30/90	SULFATE	28.00000	mg/L
03B03	01/30/90	CHLORIDE	8.00000	mg/L
03B03	01/30/90	BICARBONATE	159.00000	mg/L
03B03	01/30/90	AMMONIA-NITROGEN	2.30000	mg/L
03B03	04/17/90	pH	6.80000	S.U.
03B03	04/17/90	SPECIFIC CONDUCTANCE	255.00000	umho/cm
03B03	04/17/90	IRON, TOTAL	2.96000	mg/L
03B03	04/17/90	CALCIUM	39.00000	mg/L
03B03	04/17/90	MAGNESIUM	7.00000	mg/L
03B03	04/17/90	POTASSIUM	1.00000	mg/L
03B03	04/17/90	BICARBONATE	197.00000	mg/L
03B03	07/17/90	pH	6.70000	S.U.
03B03	07/17/90	SPECIFIC CONDUCTANCE	290.00000	umho/cm
03B03	07/17/90	TOTAL ORGANIC CARBON	2.60000	mg/L
03B03	07/17/90	IRON, TOTAL	17.10000	mg/L
03B03	07/17/90	SODIUM	5.00000	mg/L
03B03	07/17/90	CALCIUM	34.00000	mg/L
03B03	07/17/90	MAGNESIUM	6.00000	mg/L
03B03	07/17/90	POTASSIUM	1.00000	mg/L
03B03	07/17/90	BICARBONATE	135.00000	mg/L
03B03	07/17/90	AMMONIA-NITROGEN	0.15000	mg/L
03B03	10/23/90	pH	6.10000	S.U.
03B03	10/23/90	SPECIFIC CONDUCTANCE	308.00000	umho/cm
03B03	10/23/90	SODIUM	5.00000	mg/L
03B03	10/23/90	CALCIUM	34.00000	mg/L
03B03	10/23/90	MAGNESIUM	6.00000	mg/L
03B03	10/23/90	AMMONIA-NITROGEN	0.18000	mg/L
03B03	01/17/91	pH	6.59000	S.U.
03B03	01/17/91	SPECIFIC CONDUCTANCE	258.00000	umho/cm
03B03	01/17/91	TOTAL ORGANIC CARBON	1.26000	mg/L
03B03	01/17/91	IRON, TOTAL	14.49000	mg/L
03B03	01/17/91	MANGANESE	2.39000	mg/L
03B03	01/17/91	SODIUM	4.00000	mg/L
03B03	01/17/91	CALCIUM	23.00000	mg/L
03B03	01/17/91	MAGNESIUM	6.00000	mg/L
03B03	01/17/91	SULFATE	22.00000	mg/L
03B03	01/17/91	CHLORIDE	11.00000	mg/L
03B03	01/17/91	BICARBONATE	134.00000	mg/L

03B03	01/17/91	AMMONIA-NITROGEN	0.23000	mg/L
03B03	04/02/91	pH	6.73000	S.U.
03B03	04/02/91	SPECIFIC CONDUCTANCE	231.00000	umho/cm
03B03	04/02/91	CALCIUM	25.50000	mg/L
03B03	04/02/91	MAGNESIUM	4.70000	mg/L
03B03	04/02/91	POTASSIUM	0.90000	mg/L
03B03	04/02/91	BICARBONATE	120.00000	mg/L
03B03	04/02/91	AMMONIA-NITROGEN	0.30000	mg/L
03B03	07/16/91	pH	6.67000	S.U.
03B03	07/16/91	SPECIFIC CONDUCTANCE	271.00000	umho/cm
03B03	07/16/91	TOTAL ORGANIC CARBON	1.31000	mg/L
03B03	07/16/91	IRON, TOTAL	4.85000	mg/L
03B03	07/16/91	MANGANESE	2.08000	mg/L
03B03	07/16/91	SODIUM	4.30000	mg/L
03B03	07/16/91	CALCIUM	27.20000	mg/L
03B03	07/16/91	MAGNESIUM	4.90000	mg/L
03B03	07/16/91	BICARBONATE	161.00000	mg/L
03B03	10/04/91	pH	6.59000	S.U.
03B03	10/04/91	SPECIFIC CONDUCTANCE	290.00000	umho/cm
03B03	10/04/91	SODIUM	2.20000	mg/L
03B03	10/04/91	AMMONIA-NITROGEN	0.26000	mg/L
03B03	10/04/91	BICARBONATE	153.00000	mg/L
03B03	10/04/91	CALCIUM	24.10000	mg/L
03B03	10/04/91	MAGNESIUM	4.80000	mg/L
03B03	10/04/91	POTASSIUM	4.30000	mg/L
03B03	01/09/92	pH	7.10000	S.U.
03B03	01/09/92	SPECIFIC CONDUCTANCE	254.00000	umho/cm
03B03	01/09/92	TOTAL ORGANIC CARBON	1.46000	mg/L
03B03	01/09/92	IRON, TOTAL	17.20000	mg/L
03B03	01/09/92	MANGANESE	3.26000	mg/L
03B03	01/09/92	SODIUM	5.00000	mg/L
03B03	01/09/92	CALCIUM	39.00000	mg/L
03B03	01/09/92	MAGNESIUM	5.90000	mg/L
03B03	01/09/92	POTASSIUM	1.00000	mg/L
03B03	01/09/92	SULFATE	18.00000	mg/L
03B03	01/09/92	CHLORIDE	7.00000	mg/L
03B03	01/09/92	BICARBONATE	137.00000	mg/L
03B03	01/09/92	AMMONIA-NITROGEN	0.13000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B04	09/28/87	pH	7.29000	S.U.
03B04	09/28/87	SPECIFIC CONDUCTANCE	342.00000	umho/cm
03B04	09/28/87	TOTAL ORGANIC CARBON	8.00000	mg/L
03B04	09/28/87	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03B04	09/28/87	MANGANESE	1.72000	mg/L
03B04	09/28/87	SODIUM	19.00000	mg/L
03B04	09/28/87	SULFATE	18.00000	mg/L
03B04	09/28/87	CHLORIDE	6.00000	mg/L
03B04	09/28/87	BARIUM, TOTAL	0.05000	mg/L
03B04	09/28/87	FLUORIDE, TOTAL	0.10000	mg/L
03B04	09/28/87	RADIUM, TOTAL	0.30000	pCi/l
03B04	09/28/87	GROSS ALPHA	3.60000	pCi/l
03B04	09/28/87	GROSS BETA	3.10000	mlrem/y
03B04	09/28/87	METHYLENE CHLORIDE	0.00700	mg/L
03B04	01/29/88	pH	7.15000	S.U.
03B04	01/29/88	SPECIFIC CONDUCTANCE	175.00000	umho/cm
03B04	01/29/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B04	01/29/88	IRON, TOTAL	1.46000	mg/L
03B04	01/29/88	MANGANESE	1.15000	mg/L
03B04	01/29/88	SODIUM	9.00000	mg/L
03B04	01/29/88	SULFATE	15.00000	mg/L
03B04	01/29/88	PHENOLS	0.00000	mg/L
03B04	01/29/88	BARIUM, TOTAL	0.06000	mg/L
03B04	01/29/88	FLUORIDE, TOTAL	0.14000	mg/L
03B04	01/29/88	NITRATE-N	0.10000	mg/L
03B04	01/29/88	RADIUM, TOTAL	0.10000	pCi/l
03B04	01/29/88	GROSS ALPHA	0.70000	pCi/l
03B04	01/29/88	GROSS BETA	0.50000	mlrem/y
03B04	01/29/88	COLIFORM	0.00000	#/100ml
03B04	04/21/88	pH	7.07000	S.U.
03B04	04/21/88	SPECIFIC CONDUCTANCE	204.00000	umho/cm
03B04	04/21/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B04	04/21/88	IRON, TOTAL	0.46000	mg/L
03B04	04/21/88	MANGANESE	1.79000	mg/L
03B04	04/21/88	SODIUM	10.00000	mg/L
03B04	04/21/88	SULFATE	14.00000	mg/L
03B04	04/21/88	CHLORIDE	1.00000	mg/L
03B04	04/21/88	BARIUM, TOTAL	0.08000	mg/L
03B04	04/21/88	FLUORIDE, TOTAL	0.20000	mg/L
03B04	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B04	04/21/88	GROSS ALPHA	0.00000	mg/L
03B04	04/21/88	GROSS BETA	0.50000	mg/L
03B04	04/21/88	COLIFORM	0.00000	#/100ml
03B04	04/21/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.14000	mg/L
03B04	07/29/88	pH	7.00000	S.U.
03B04	07/29/88	SPECIFIC CONDUCTANCE	207.00000	umho/cm
03B04	07/29/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B04	07/29/88	IRON, TOTAL	0.38000	mg/L
03B04	07/29/88	MANGANESE	1.84000	mg/L
03B04	07/29/88	SODIUM	9.00000	mg/L
03B04	07/29/88	SULFATE	7.00000	mg/L
03B04	07/29/88	CHLORIDE	7.00000	mg/L
03B04	07/29/88	BARIUM, TOTAL	0.07000	mg/L
03B04	07/29/88	FLUORIDE, TOTAL	0.28000	mg/L
03B04	07/29/88	RADIUM, TOTAL	0.00000	pcu/L
03B04	07/29/88	GROSS ALPHA	0.00000	pcu/L
03B04	07/29/88	GROSS BETA	0.10000	pcu/L
03B04	07/29/88	COLIFORM	0.00000	TC/.1L

03B04	10/20/88	pH	6.60000	S.U.
03B04	10/20/88	SPECIFIC CONDUCTANCE	200.00000	umho/cm
03B04	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B04	10/20/88	IRON, TOTAL	0.27000	mg/L
03B04	10/20/88	MANGANESE	1.19000	mg/L
03B04	10/20/88	SODIUM	5.60000	mg/L
03B04	10/20/88	SULFATE	24.00000	mg/L
03B04	10/20/88	CHLORIDE	1.00000	mg/L
03B04	10/20/88	AMMONIA-NITROGEN	0.50000	mg/L
03B04	10/20/88	BICARBONATE	262.00000	mg/L
03B04	10/20/88	CALCIUM	32.00000	mg/L
03B04	10/20/88	MAGNESIUM	6.00000	mg/L
03B04	10/20/88	POTASSIUM	3.00000	mg/L
03B04	10/20/88	FLUORIDE, TOTAL	0.18000	mg/L
03B04	10/20/88	GROSS BETA	3.00000	pcu/L
03B04	10/20/88	COLIFORM	0.00000	TC/.1L
03B04	01/17/89	pH	6.90000	S.U.
03B04	01/17/89	SPECIFIC CONDUCTANCE	190.00000	umho/cm
03B04	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B04	01/17/89	IRON, TOTAL	0.34000	mg/L
03B04	01/17/89	MANGANESE	0.86000	mg/L
03B04	01/17/89	SODIUM	6.00000	mg/L
03B04	01/17/89	SULFATE	18.00000	mg/L
03B04	01/17/89	CHLORIDE	4.00000	mg/L
03B04	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03B04	01/17/89	BICARBONATE	183.00000	mg/L
03B04	01/17/89	CALCIUM	26.00000	mg/L
03B04	01/17/89	MAGNESIUM	5.00000	mg/L
03B04	01/17/89	POTASSIUM	0.60000	mg/L
03B04	01/17/89	BARIUM, TOTAL	0.06000	mg/L
03B04	01/17/89	FLUORIDE, TOTAL	0.20000	mg/L
03B04	01/17/89	COLIFORM	0.00000	TC/.1L
03B04	07/14/89	pH	6.80000	S.U.
03B04	07/14/89	SPECIFIC CONDUCTANCE	199.00000	umho/cm
03B04	07/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B04	07/14/89	IRON, TOTAL	2.77000	mg/L
03B04	07/14/89	MANGANESE	1.75000	mg/L
03B04	07/14/89	SODIUM	6.00000	mg/L
03B04	07/14/89	CALCIUM	28.00000	mg/L
03B04	07/14/89	MAGNESIUM	4.00000	mg/L
03B04	07/14/89	POTASSIUM	1.00000	mg/L
03B04	07/14/89	SULFATE	23.00000	mg/L
03B04	07/14/89	CHLORIDE	12.00000	mg/L
03B04	07/14/89	BICARBONATE	107.00000	mg/L
03B04	07/14/89	AMMONIA-NITROGEN	0.15000	mg/L
03B04	07/14/89	BARIUM, TOTAL	0.08000	mg/L
03B04	07/14/89	FLUORIDE, TOTAL	0.14000	mg/L
03B04	07/14/89	COLIFORM	0.00000	TC/.1L
03B04	10/25/89	pH	7.20000	S.U.
03B04	10/25/89	SPECIFIC CONDUCTANCE	178.00000	umho/cm
03B04	10/25/89	IRON, TOTAL	3.10000	mg/L
03B04	10/25/89	CALCIUM	21.00000	mg/L
03B04	10/25/89	MAGNESIUM	3.00000	mg/L
03B04	10/25/89	POTASSIUM	1.00000	mg/L
03B04	10/25/89	BICARBONATE	126.00000	mg/L
03B04	10/25/89	AMMONIA-NITROGEN	1.10000	mg/L
03B04	10/25/89	TRICHLOROETHYLENE	0.00500	mg/L
03B04	01/30/90	pH	7.40000	S.U.
03B04	01/30/90	SPECIFIC CONDUCTANCE	184.00000	umho/cm
03B04	01/30/90	TOTAL ORGANIC CARBON	1.70000	mg/L

03B04	01/30/90	IRON, TOTAL	1.60000	mg/L
03B04	01/30/90	MANGANESE	1.47000	mg/L
03B04	01/30/90	SODIUM	5.00000	mg/L
03B04	01/30/90	CALCIUM	20.00000	mg/L
03B04	01/30/90	MAGNESIUM	3.00000	mg/L
03B04	01/30/90	POTASSIUM	1.00000	mg/L
03B04	01/30/90	SULFATE	22.00000	mg/L
03B04	01/30/90	CHLORIDE	3.00000	mg/L
03B04	01/30/90	BICARBONATE	146.00000	mg/L
03B04	01/30/90	AMMONIA-NITROGEN	0.20000	mg/L
03B04	04/17/90	pH	7.30000	S.U.
03B04	04/17/90	SPECIFIC CONDUCTANCE	171.00000	umho/cm
03B04	04/17/90	IRON, TOTAL	0.15000	mg/L
03B04	04/17/90	CALCIUM	29.00000	mg/L
03B04	04/17/90	MAGNESIUM	4.00000	mg/L
03B04	04/17/90	POTASSIUM	1.00000	mg/L
03B04	04/17/90	BICARBONATE	131.00000	mg/L
03B04	07/17/90	pH	7.10000	S.U.
03B04	07/17/90	SPECIFIC CONDUCTANCE	198.00000	umho/cm
03B04	07/17/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03B04	07/17/90	IRON, TOTAL	5.79000	mg/L
03B04	07/17/90	SODIUM	7.00000	mg/L
03B04	07/17/90	CALCIUM	23.00000	mg/L
03B04	07/17/90	MAGNESIUM	4.00000	mg/L
03B04	07/17/90	POTASSIUM	1.00000	mg/L
03B04	07/17/90	BICARBONATE	167.00000	mg/L
03B04	07/17/90	AMMONIA-NITROGEN	0.15000	mg/L
03B04	10/23/90	pH	6.60000	S.U.
03B04	10/23/90	SPECIFIC CONDUCTANCE	212.00000	umho/cm
03B04	10/23/90	SODIUM	7.00000	mg/L
03B04	10/23/90	CALCIUM	23.00000	mg/L
03B04	10/23/90	MAGNESIUM	4.00000	mg/L
03B04	10/23/90	AMMONIA-NITROGEN	0.37000	mg/L
03B04	01/17/91	pH	6.96000	S.U.
03B04	01/17/91	SPECIFIC CONDUCTANCE	198.00000	umho/cm
03B04	01/17/91	TOTAL ORGANIC CARBON	0.81000	mg/L
03B04	01/17/91	IRON, TOTAL	1.49000	mg/L
03B04	01/17/91	MANGANESE	1.80000	mg/L
03B04	01/17/91	SODIUM	6.00000	mg/L
03B04	01/17/91	CALCIUM	20.00000	mg/L
03B04	01/17/91	MAGNESIUM	5.00000	mg/L
03B04	01/17/91	SULFATE	16.00000	mg/L
03B04	01/17/91	CHLORIDE	9.00000	mg/L
03B04	01/17/91	BICARBONATE	98.00000	mg/L
03B04	01/17/91	AMMONIA-NITROGEN	0.12000	mg/L
03B04	04/02/91	pH	6.93000	S.U.
03B04	04/02/91	SPECIFIC CONDUCTANCE	128.00000	umho/cm
03B04	04/02/91	CALCIUM	16.70000	mg/L
03B04	04/02/91	MAGNESIUM	3.50000	mg/L
03B04	04/02/91	POTASSIUM	0.70000	mg/L
03B04	04/02/91	BICARBONATE	102.00000	mg/L
03B04	04/02/91	AMMONIA-NITROGEN	0.41000	mg/L
03B04	07/16/91	pH	7.16000	S.U.
03B04	07/16/91	SPECIFIC CONDUCTANCE	257.00000	umho/cm
03B04	07/16/91	TOTAL ORGANIC CARBON	1.30000	mg/L
03B04	07/16/91	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03B04	07/16/91	IRON, TOTAL	0.31000	mg/L
03B04	07/16/91	MANGANESE	0.68000	mg/L
03B04	07/16/91	SODIUM	3.00000	mg/L
03B04	07/16/91	CALCIUM	33.80000	mg/L

03B04	07/16/91	MAGNESIUM	5.70000	mg/L
03B04	07/16/91	POTASSIUM	3.30000	mg/L
03B04	07/16/91	BICARBONATE	179.00000	mg/L
03B04	07/16/91	AMMONIA-NITROGEN	0.07000	mg/L
03B04	10/04/91	pH	6.93000	S.U.
03B04	10/04/91	SPECIFIC CONDUCTANCE	305.00000	umho/cm
03B04	10/04/91	SODIUM	1.90000	mg/L
03B04	10/04/91	AMMONIA-NITROGEN	0.14000	mg/L
03B04	10/04/91	BICARBONATE	201.00000	mg/L
03B04	10/04/91	CALCIUM	29.60000	mg/L
03B04	10/04/91	MAGNESIUM	5.30000	mg/L
03B04	10/04/91	POTASSIUM	1.70000	mg/L
03B04	01/09/92	pH	7.10000	S.U.
03B04	01/09/92	SPECIFIC CONDUCTANCE	136.00000	umho/cm
03B04	01/09/92	TOTAL ORGANIC CARBON	1.75000	mg/L
03B04	01/09/92	MANGANESE	0.32000	mg/L
03B04	01/09/92	SODIUM	2.20000	mg/L
03B04	01/09/92	CALCIUM	28.70000	mg/L
03B04	01/09/92	MAGNESIUM	5.70000	mg/L
03B04	01/09/92	POTASSIUM	1.00000	mg/L
03B04	01/09/92	SULFATE	22.00000	mg/L
03B04	01/09/92	CHLORIDE	5.00000	mg/L
03B04	01/09/92	BICARBONATE	120.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B05	09/28/87	pH	6.65000	S.U.
03B05	09/28/87	SPECIFIC CONDUCTANCE	268.00000	umho/cm
03B05	09/28/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03B05	09/28/87	IRON, TOTAL	0.50000	mg/L
03B05	09/28/87	MANGANESE	0.70000	mg/L
03B05	09/28/87	SODIUM	16.00000	mg/L
03B05	09/28/87	SULFATE	13.00000	mg/L
03B05	09/28/87	CHLORIDE	6.00000	mg/L
03B05	09/28/87	RADIUM, TOTAL	0.50000	pCi/l
03B05	09/28/87	GROSS ALPHA	14.00000	pCi/l
03B05	09/28/87	GROSS BETA	4.30000	mlrem/y
03B05	09/28/87	METHYLENE CHLORIDE	0.00200	mg/L
03B05	01/29/88	pH	7.57000	S.U.
03B05	01/29/88	SPECIFIC CONDUCTANCE	203.00000	umho/cm
03B05	01/29/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B05	01/29/88	MANGANESE	0.19000	mg/L
03B05	01/29/88	SODIUM	8.00000	mg/L
03B05	01/29/88	SULFATE	9.00000	mg/L
03B05	01/29/88	CHLORIDE	2.00000	mg/L
03B05	01/29/88	FLUORIDE, TOTAL	0.28000	mg/L
03B05	01/29/88	NITRATE-N	0.18000	mg/L
03B05	01/29/88	RADIUM, TOTAL	0.10000	pCi/l
03B05	01/29/88	GROSS ALPHA	0.00000	pCi/l
03B05	01/29/88	GROSS BETA	0.00000	mlrem/y
03B05	01/29/88	COLIFORM	0.00000	#/100ml
03B05	04/21/88	pH	7.35000	S.U.
03B05	04/21/88	SPECIFIC CONDUCTANCE	224.00000	umho/cm
03B05	04/21/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B05	04/21/88	IRON, TOTAL	0.05000	mg/L
03B05	04/21/88	MANGANESE	0.51000	mg/L
03B05	04/21/88	SODIUM	14.50000	mg/L
03B05	04/21/88	SULFATE	2.00000	mg/L
03B05	04/21/88	CHLORIDE	2.00000	mg/L
03B05	04/21/88	FLUORIDE, TOTAL	0.33000	mg/L
03B05	04/21/88	RADIUM, TOTAL	0.10000	mg/L
03B05	04/21/88	GROSS ALPHA	0.00000	mg/L
03B05	04/21/88	GROSS BETA	1.50000	mg/L
03B05	04/21/88	COLIFORM	0.00000	#/100ml
03B05	04/21/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.05000	mg/L
03B05	07/29/88	pH	7.10000	S.U.
03B05	07/29/88	SPECIFIC CONDUCTANCE	254.00000	umho/cm
03B05	07/29/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B05	07/29/88	IRON, TOTAL	0.01000	mg/L
03B05	07/29/88	MANGANESE	0.61000	mg/L
03B05	07/29/88	SODIUM	17.00000	mg/L
03B05	07/29/88	SULFATE	2.00000	mg/L
03B05	07/29/88	CHLORIDE	7.00000	mg/L
03B05	07/29/88	FLUORIDE, TOTAL	0.33000	mg/L
03B05	07/29/88	RADIUM, TOTAL	0.10000	pcu/L
03B05	07/29/88	GROSS ALPHA	0.00000	pcu/L
03B05	07/29/88	GROSS BETA	0.50000	pcu/L
03B05	07/29/88	COLIFORM	0.00000	TC/.1L
03B05	07/29/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03B05	10/20/88	pH	6.80000	S.U.
03B05	10/20/88	SPECIFIC CONDUCTANCE	263.00000	umho/cm
03B05	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B05	10/20/88	MANGANESE	0.52000	mg/L
03B05	10/20/88	SODIUM	9.00000	mg/L

03B05	10/20/88	SULFATE	11.00000	mg/L
03B05	10/20/88	CHLORIDE	1.00000	mg/L
03B05	10/20/88	BICARBONATE	341.00000	mg/L
03B05	10/20/88	CALCIUM	27.00000	mg/L
03B05	10/20/88	MAGNESIUM	5.00000	mg/L
03B05	10/20/88	POTASSIUM	2.00000	mg/L
03B05	10/20/88	FLUORIDE, TOTAL	0.14000	mg/L
03B05	10/20/88	NITRATE-N	0.22000	mg/L
03B05	10/20/88	GROSS BETA	5.00000	pcu/L
03B05	10/20/88	COLIFORM	0.00000	TC/.1L
03B05	01/17/89	pH	6.90000	S.U.
03B05	01/17/89	SPECIFIC CONDUCTANCE	194.00000	umho/cm
03B05	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B05	01/17/89	MANGANESE	0.44000	mg/L
03B05	01/17/89	SODIUM	11.00000	mg/L
03B05	01/17/89	SULFATE	8.00000	mg/L
03B05	01/17/89	CHLORIDE	3.00000	mg/L
03B05	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03B05	01/17/89	BICARBONATE	238.00000	mg/L
03B05	01/17/89	CALCIUM	32.00000	mg/L
03B05	01/17/89	MAGNESIUM	4.00000	mg/L
03B05	01/17/89	POTASSIUM	0.90000	mg/L
03B05	01/17/89	FLUORIDE, TOTAL	0.40000	mg/L
03B05	01/17/89	COLIFORM	0.00000	TC/.1L
03B05	04/14/89	pH	7.20000	S.U.
03B05	04/14/89	SPECIFIC CONDUCTANCE	193.00000	umho/cm
03B05	04/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B05	04/14/89	MANGANESE	0.49000	mg/L
03B05	04/14/89	SODIUM	10.50000	mg/L
03B05	04/14/89	CALCIUM	26.00000	mg/L
03B05	04/14/89	MAGNESIUM	4.00000	mg/L
03B05	04/14/89	POTASSIUM	1.50000	mg/L
03B05	04/14/89	SULFATE	8.00000	mg/L
03B05	04/14/89	CHLORIDE	5.00000	mg/L
03B05	04/14/89	BICARBONATE	137.00000	mg/L
03B05	04/14/89	AMMONIA-NITROGEN	0.10000	mg/L
03B05	04/14/89	LEAD, TOTAL	0.10000	mg/L
03B05	04/14/89	FLUORIDE, TOTAL	0.17000	mg/L
03B05	04/14/89	COLIFORM	0.00000	TC/.1L
03B05	04/14/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.04000	mg/L
03B05	07/14/89	pH	7.30000	S.U.
03B05	07/14/89	SPECIFIC CONDUCTANCE	231.00000	umho/cm
03B05	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B05	07/14/89	MANGANESE	0.71000	mg/L
03B05	07/14/89	SODIUM	12.00000	mg/L
03B05	07/14/89	CALCIUM	28.00000	mg/L
03B05	07/14/89	MAGNESIUM	4.70000	mg/L
03B05	07/14/89	POTASSIUM	1.50000	mg/L
03B05	07/14/89	SULFATE	4.00000	mg/L
03B05	07/14/89	CHLORIDE	12.00000	mg/L
03B05	07/14/89	BICARBONATE	176.00000	mg/L
03B05	07/14/89	AMMONIA-NITROGEN	0.10000	mg/L
03B05	07/14/89	BARIUM, TOTAL	0.03000	mg/L
03B05	07/14/89	FLUORIDE, TOTAL	0.14000	mg/L
03B05	07/14/89	COLIFORM	0.00000	TC/.1L
03B05	10/25/89	pH	7.40000	S.U.
03B05	10/25/89	SPECIFIC CONDUCTANCE	218.00000	umho/cm
03B05	10/25/89	IRON, TOTAL	0.17000	mg/L
03B05	10/25/89	CALCIUM	25.00000	mg/L
03B05	10/25/89	MAGNESIUM	4.00000	mg/L

03B05	10/25/89	POTASSIUM	1.10000	mg/L
03B05	10/25/89	BICARBONATE	244.00000	mg/L
03B05	10/25/89	AMMONIA-NITROGEN	0.10000	mg/L
03B05	10/25/89	TRICHLOROETHYLENE	0.01000	mg/L
03B05	01/30/90	pH	7.70000	S.U.
03B05	01/30/90	SPECIFIC CONDUCTANCE	196.00000	umho/cm
03B05	01/30/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03B05	01/30/90	MANGANESE	0.47000	mg/L
03B05	01/30/90	SODIUM	10.00000	mg/L
03B05	01/30/90	CALCIUM	28.00000	mg/L
03B05	01/30/90	MAGNESIUM	4.00000	mg/L
03B05	01/30/90	POTASSIUM	1.00000	mg/L
03B05	01/30/90	SULFATE	5.00000	mg/L
03B05	01/30/90	CHLORIDE	10.00000	mg/L
03B05	01/30/90	BICARBONATE	207.00000	mg/L
03B05	01/30/90	AMMONIA-NITROGEN	0.30000	mg/L
03B05	04/18/90	pH	7.80000	S.U.
03B05	04/18/90	SPECIFIC CONDUCTANCE	195.00000	umho/cm
03B05	04/18/90	IRON, TOTAL	0.11000	mg/L
03B05	04/18/90	CALCIUM	30.00000	mg/L
03B05	04/18/90	MAGNESIUM	5.00000	mg/L
03B05	04/18/90	POTASSIUM	1.00000	mg/L
03B05	04/18/90	BICARBONATE	209.00000	mg/L
03B05	07/17/90	pH	6.90000	S.U.
03B05	07/17/90	SPECIFIC CONDUCTANCE	234.00000	umho/cm
03B05	07/17/90	TOTAL ORGANIC CARBON	1.00000	mg/L
03B05	07/17/90	IRON, TOTAL	0.32000	mg/L
03B05	07/17/90	SODIUM	16.00000	mg/L
03B05	07/17/90	CALCIUM	28.00000	mg/L
03B05	07/17/90	MAGNESIUM	5.00000	mg/L
03B05	07/17/90	POTASSIUM	1.00000	mg/L
03B05	07/17/90	BICARBONATE	164.00000	mg/L
03B05	10/23/90	pH	7.00000	S.U.
03B05	10/23/90	SPECIFIC CONDUCTANCE	248.00000	umho/cm
03B05	10/23/90	SODIUM	13.00000	mg/L
03B05	10/23/90	CALCIUM	30.00000	mg/L
03B05	10/23/90	MAGNESIUM	5.00000	mg/L
03B05	10/23/90	AMMONIA-NITROGEN	0.20000	mg/L
03B05	01/17/91	pH	7.19000	S.U.
03B05	01/17/91	SPECIFIC CONDUCTANCE	202.00000	umho/cm
03B05	01/17/91	TOTAL ORGANIC CARBON	0.49000	mg/L
03B05	01/17/91	MANGANESE	0.28000	mg/L
03B05	01/17/91	SODIUM	9.00000	mg/L
03B05	01/17/91	CALCIUM	22.00000	mg/L
03B05	01/17/91	MAGNESIUM	5.00000	mg/L
03B05	01/17/91	SULFATE	4.00000	mg/L
03B05	01/17/91	CHLORIDE	5.00000	mg/L
03B05	01/17/91	BICARBONATE	145.00000	mg/L
03B05	04/02/91	pH	7.22000	S.U.
03B05	04/02/91	SPECIFIC CONDUCTANCE	176.00000	umho/cm
03B05	04/02/91	CALCIUM	24.30000	mg/L
03B05	04/02/91	MAGNESIUM	3.90000	mg/L
03B05	04/02/91	POTASSIUM	0.80000	mg/L
03B05	04/02/91	BICARBONATE	137.00000	mg/L
03B05	04/02/91	AMMONIA-NITROGEN	0.30000	mg/L
03B05	07/16/91	pH	7.33000	S.U.
03B05	07/16/91	SPECIFIC CONDUCTANCE	253.00000	umho/cm
03B05	07/16/91	TOTAL ORGANIC CARBON	1.22000	mg/L
03B05	07/16/91	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03B05	07/16/91	IRON, TOTAL	1.36000	mg/L

03B05	07/16/91	MANGANESE	2.40000	mg/L
03B05	07/16/91	SODIUM	11.70000	mg/L
03B05	07/16/91	CALCIUM	24.40000	mg/L
03B05	07/16/91	MAGNESIUM	4.60000	mg/L
03B05	07/16/91	POTASSIUM	0.40000	mg/L
03B05	07/16/91	BICARBONATE	221.00000	mg/L
03B05	07/16/91	AMMONIA-NITROGEN	0.12000	mg/L
03B05	10/04/91	pH	7.24000	S.U.
03B05	10/04/91	SPECIFIC CONDUCTANCE	236.00000	umho/cm
03B05	10/04/91	SODIUM	9.80000	mg/L
03B05	10/04/91	AMMONIA-NITROGEN	0.20000	mg/L
03B05	10/04/91	BICARBONATE	171.00000	mg/L
03B05	10/04/91	CALCIUM	27.00000	mg/L
03B05	10/04/91	MAGNESIUM	4.70000	mg/L
03B05	10/04/91	POTASSIUM	2.00000	mg/L
03B05	01/09/92	pH	7.20000	S.U.
03B05	01/09/92	SPECIFIC CONDUCTANCE	139.00000	umho/cm
03B05	01/09/92	TOTAL ORGANIC CARBON	1.38000	mg/L
03B05	01/09/92	MANGANESE	0.03000	mg/L
03B05	01/09/92	SODIUM	7.50000	mg/L
03B05	01/09/92	CALCIUM	28.20000	mg/L
03B05	01/09/92	MAGNESIUM	4.20000	mg/L
03B05	01/09/92	POTASSIUM	1.00000	mg/L
03B05	01/09/92	SULFATE	5.00000	mg/L
03B05	01/09/92	CHLORIDE	9.00000	mg/L
03B05	01/09/92	BICARBONATE	167.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B06	09/28/87	pH	6.75000	S.U.
03B06	09/28/87	SPECIFIC CONDUCTANCE	528.00000	umho/cm
03B06	09/28/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03B06	09/28/87	TOTAL ORGANIC HALOGENS	0.01300	mg/L
03B06	09/28/87	IRON, TOTAL	0.31000	mg/L
03B06	09/28/87	MANGANESE	0.09000	mg/L
03B06	09/28/87	SODIUM	55.00000	mg/L
03B06	09/28/87	SULFATE	43.00000	mg/L
03B06	09/28/87	CHLORIDE	26.00000	mg/L
03B06	09/28/87	TNT	0.02000	mg/L
03B06	09/28/87	FLUORIDE, TOTAL	0.18000	mg/L
03B06	09/28/87	RADIUM, TOTAL	0.10000	pCi/l
03B06	09/28/87	GROSS ALPHA	4.00000	pCi/l
03B06	09/28/87	GROSS BETA	4.40000	mlrem/y
03B06	09/28/87	METHYLENE CHLORIDE	0.00200	mg/L
03B06	01/30/88	pH	7.52000	S.U.
03B06	01/30/88	SPECIFIC CONDUCTANCE	273.00000	umho/cm
03B06	01/30/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03B06	01/30/88	MANGANESE	0.07000	mg/L
03B06	01/30/88	SODIUM	16.00000	mg/L
03B06	01/30/88	SULFATE	20.00000	mg/L
03B06	01/30/88	CHLORIDE	20.00000	mg/L
03B06	01/30/88	MERCURY, TOTAL	0.00400	mg/L
03B06	01/30/88	FLUORIDE, TOTAL	0.18000	mg/L
03B06	01/30/88	NITRATE-N	0.30000	mg/L
03B06	01/30/88	RADIUM, TOTAL	0.00000	pCi/l
03B06	01/30/88	GROSS ALPHA	0.00000	pCi/l
03B06	01/30/88	GROSS BETA	0.00000	mlrem/y
03B06	01/30/88	COLIFORM	0.00000	#/100ml
03B06	04/21/88	pH	7.47000	S.U.
03B06	04/21/88	SPECIFIC CONDUCTANCE	290.00000	umho/cm
03B06	04/21/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B06	04/21/88	IRON, TOTAL	0.02000	mg/L
03B06	04/21/88	MANGANESE	0.09000	mg/L
03B06	04/21/88	SODIUM	17.00000	mg/L
03B06	04/21/88	SULFATE	13.00000	mg/L
03B06	04/21/88	CHLORIDE	1.00000	mg/L
03B06	04/21/88	BARIUM, TOTAL	0.06000	mg/L
03B06	04/21/88	FLUORIDE, TOTAL	0.40000	mg/L
03B06	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B06	04/21/88	GROSS ALPHA	2.60000	mg/L
03B06	04/21/88	GROSS BETA	6.30000	mg/L
03B06	04/21/88	COLIFORM	0.00000	#/100ml
03B06	07/29/88	pH	7.20000	S.U.
03B06	07/29/88	SPECIFIC CONDUCTANCE	328.00000	umho/cm
03B06	07/29/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B06	07/29/88	IRON, TOTAL	0.37000	mg/L
03B06	07/29/88	MANGANESE	0.08000	mg/L
03B06	07/29/88	SODIUM	20.00000	mg/L
03B06	07/29/88	SULFATE	6.00000	mg/L
03B06	07/29/88	CHLORIDE	6.00000	mg/L
03B06	07/29/88	FLUORIDE, TOTAL	0.45000	mg/L
03B06	07/29/88	RADIUM, TOTAL	0.00000	pcu/L
03B06	07/29/88	GROSS ALPHA	2.00000	pcu/L
03B06	07/29/88	GROSS BETA	6.20000	pcu/L
03B06	07/29/88	COLIFORM	7.00000	TC/.1L
03B06	10/20/88	pH	7.00000	S.U.
03B06	10/20/88	SPECIFIC CONDUCTANCE	298.00000	umho/cm

03B06	10/20/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B06	10/20/88	MANGANESE	0.13000	mg/L
03B06	10/20/88	SODIUM	12.00000	mg/L
03B06	10/20/88	SULFATE	11.00000	mg/L
03B06	10/20/88	BICARBONATE	335.00000	mg/L
03B06	10/20/88	CALCIUM	37.00000	mg/L
03B06	10/20/88	MAGNESIUM	6.00000	mg/L
03B06	10/20/88	POTASSIUM	3.00000	mg/L
03B06	10/20/88	FLUORIDE, TOTAL	0.40000	mg/L
03B06	10/20/88	GROSS BETA	5.00000	pcu/L
03B06	10/20/88	COLIFORM	0.00000	TC/.1L
03B06	01/17/89	pH	7.00000	S.U.
03B06	01/17/89	SPECIFIC CONDUCTANCE	236.00000	umho/cm
03B06	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B06	01/17/89	MANGANESE	0.17000	mg/L
03B06	01/17/89	SODIUM	16.00000	mg/L
03B06	01/17/89	SULFATE	16.00000	mg/L
03B06	01/17/89	CHLORIDE	5.00000	mg/L
03B06	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03B06	01/17/89	BICARBONATE	274.00000	mg/L
03B06	01/17/89	CALCIUM	41.00000	mg/L
03B06	01/17/89	MAGNESIUM	5.00000	mg/L
03B06	01/17/89	POTASSIUM	1.20000	mg/L
03B06	01/17/89	BARIUM, TOTAL	0.06000	mg/L
03B06	01/17/89	FLUORIDE, TOTAL	0.40000	mg/L
03B06	01/17/89	NITRATE-N	0.30000	mg/L
03B06	01/17/89	COLIFORM	0.00000	TC/.1L
03B06	04/14/89	pH	7.60000	S.U.
03B06	04/14/89	SPECIFIC CONDUCTANCE	249.00000	umho/cm
03B06	04/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B06	04/14/89	SODIUM	10.00000	mg/L
03B06	04/14/89	CALCIUM	27.00000	mg/L
03B06	04/14/89	MAGNESIUM	2.50000	mg/L
03B06	04/14/89	POTASSIUM	2.00000	mg/L
03B06	04/14/89	SULFATE	15.00000	mg/L
03B06	04/14/89	CHLORIDE	8.00000	mg/L
03B06	04/14/89	BICARBONATE	156.00000	mg/L
03B06	04/14/89	FLUORIDE, TOTAL	0.17000	mg/L
03B06	04/14/89	COLIFORM	0.00000	TC/.1L
03B06	07/14/89	IRON, TOTAL	0.09000	mg/L
03B06	07/14/89	MANGANESE	0.04000	mg/L
03B06	07/14/89	SODIUM	20.00000	mg/L
03B06	07/14/89	CALCIUM	32.00000	mg/L
03B06	07/14/89	MAGNESIUM	4.00000	mg/L
03B06	07/14/89	POTASSIUM	2.00000	mg/L
03B06	07/14/89	SULFATE	14.00000	mg/L
03B06	07/14/89	CHLORIDE	6.00000	mg/L
03B06	07/14/89	BICARBONATE	244.00000	mg/L
03B06	07/14/89	BARIUM, TOTAL	0.03000	mg/L
03B06	07/14/89	FLUORIDE, TOTAL	0.20000	mg/L
03B06	07/14/89	COLIFORM	0.00000	TC/.1L
03B06	07/14/89	pH	7.90000	S.U.
03B06	07/14/89	SPECIFIC CONDUCTANCE	280.00000	umho/cm
03B06	07/14/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03B06	10/25/89	pH	7.90000	S.U.
03B06	10/25/89	SPECIFIC CONDUCTANCE	275.00000	umho/cm
03B06	10/25/89	CALCIUM	27.00000	mg/L
03B06	10/25/89	MAGNESIUM	3.00000	mg/L
03B06	10/25/89	POTASSIUM	1.80000	mg/L
03B06	10/25/89	BICARBONATE	332.00000	mg/L

03B06	10/25/89	AMMONIA-NITROGEN	0.10000	mg/L
03B06	10/25/89	TRICHLOROETHYLENE	0.00500	mg/L
03B06	01/30/90	pH	8.20000	S.U.
03B06	01/30/90	SPECIFIC CONDUCTANCE	227.00000	umho/cm
03B06	01/30/90	TOTAL ORGANIC CARBON	1.00000	mg/L
03B06	01/30/90	MANGANESE	0.04000	mg/L
03B06	01/30/90	SODIUM	6.00000	mg/L
03B06	01/30/90	CALCIUM	27.00000	mg/L
03B06	01/30/90	MAGNESIUM	4.00000	mg/L
03B06	01/30/90	POTASSIUM	1.00000	mg/L
03B06	01/30/90	SULFATE	11.00000	mg/L
03B06	01/30/90	CHLORIDE	7.00000	mg/L
03B06	01/30/90	BICARBONATE	305.00000	mg/L
03B06	01/30/90	AMMONIA-NITROGEN	0.10000	mg/L
03B06	04/18/90	pH	7.80000	S.U.
03B06	04/18/90	SPECIFIC CONDUCTANCE	187.00000	umho/cm
03B06	04/18/90	CALCIUM	31.00000	mg/L
03B06	04/18/90	MAGNESIUM	5.00000	mg/L
03B06	04/18/90	POTASSIUM	1.00000	mg/L
03B06	04/18/90	BICARBONATE	293.00000	mg/L
03B06	07/17/90	pH	7.60000	S.U.
03B06	07/17/90	SPECIFIC CONDUCTANCE	261.00000	umho/cm
03B06	07/17/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03B06	07/17/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03B06	07/17/90	IRON, TOTAL	0.07000	mg/L
03B06	07/17/90	SODIUM	13.00000	mg/L
03B06	07/17/90	CALCIUM	35.00000	mg/L
03B06	07/17/90	MAGNESIUM	6.00000	mg/L
03B06	07/17/90	POTASSIUM	1.00000	mg/L
03B06	07/17/90	BICARBONATE	182.00000	mg/L
03B06	10/23/90	pH	6.80000	S.U.
03B06	10/23/90	SPECIFIC CONDUCTANCE	308.00000	umho/cm
03B06	10/23/90	SODIUM	14.00000	mg/L
03B06	10/23/90	CALCIUM	40.00000	mg/L
03B06	10/23/90	MAGNESIUM	7.00000	mg/L
03B06	10/23/90	POTASSIUM	1.00000	mg/L
03B06	01/17/91	pH	7.46000	S.U.
03B06	01/17/91	SPECIFIC CONDUCTANCE	233.00000	umho/cm
03B06	01/17/91	TOTAL ORGANIC CARBON	0.57000	mg/L
03B06	01/17/91	MANGANESE	0.04000	mg/L
03B06	01/17/91	SODIUM	7.00000	mg/L
03B06	01/17/91	CALCIUM	28.00000	mg/L
03B06	01/17/91	MAGNESIUM	7.00000	mg/L
03B06	01/17/91	POTASSIUM	1.00000	mg/L
03B06	01/17/91	SULFATE	70.00000	mg/L
03B06	01/17/91	CHLORIDE	7.00000	mg/L
03B06	01/17/91	BICARBONATE	152.00000	mg/L
03B06	04/02/91	pH	7.50000	S.U.
03B06	04/02/91	SPECIFIC CONDUCTANCE	195.00000	umho/cm
03B06	04/02/91	CALCIUM	28.50000	mg/L
03B06	04/02/91	MAGNESIUM	5.10000	mg/L
03B06	04/02/91	POTASSIUM	1.00000	mg/L
03B06	04/02/91	BICARBONATE	143.00000	mg/L
03B06	04/02/91	AMMONIA-NITROGEN	0.23000	mg/L
03B06	07/16/91	pH	7.88000	S.U.
03B06	07/16/91	SPECIFIC CONDUCTANCE	274.00000	umho/cm
03B06	07/16/91	TOTAL ORGANIC CARBON	1.02000	mg/L
03B06	07/16/91	TOTAL ORGANIC HALOGENS	0.43000	mg/L
03B06	07/16/91	IRON, TOTAL	0.29000	mg/L
03B06	07/16/91	MANGANESE	0.05000	mg/L

03B06	07/16/91	SODIUM	8.00000	mg/L
03B06	07/16/91	CALCIUM	33.30000	mg/L
03B06	07/16/91	MAGNESIUM	6.30000	mg/L
03B06	07/16/91	POTASSIUM	1.80000	mg/L
03B06	07/16/91	BICARBONATE	203.00000	mg/L
03B06	10/04/91	pH	7.44000	S.U.
03B06	10/04/91	SPECIFIC CONDUCTANCE	278.00000	umho/cm
03B06	10/04/91	SODIUM	5.80000	mg/L
03B06	10/04/91	BICARBONATE	201.00000	mg/L
03B06	10/04/91	CALCIUM	37.00000	mg/L
03B06	10/04/91	MAGNESIUM	6.80000	mg/L
03B06	10/04/91	POTASSIUM	2.70000	mg/L
03B06	01/09/92	pH	7.60000	S.U.
03B06	01/09/92	SPECIFIC CONDUCTANCE	217.00000	umho/cm
03B06	01/09/92	TOTAL ORGANIC CARBON	1.08000	mg/L
03B06	01/09/92	IRON, TOTAL	0.11000	mg/L
03B06	01/09/92	MANGANESE	0.12000	mg/L
03B06	01/09/92	SODIUM	7.20000	mg/L
03B06	01/09/92	CALCIUM	31.60000	mg/L
03B06	01/09/92	MAGNESIUM	5.50000	mg/L
03B06	01/09/92	SULFATE	5.00000	mg/L
03B06	01/09/92	CHLORIDE	13.00000	mg/L
03B06	01/09/92	BICARBONATE	155.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B07	09/30/87	pH	7.23000	S.U.
03B07	09/30/87	SPECIFIC CONDUCTANCE	402.00000	umho/cm
03B07	09/30/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03B07	09/30/87	IRON, TOTAL	0.30000	mg/L
03B07	09/30/87	MANGANESE	0.10000	mg/L
03B07	09/30/87	SODIUM	5.00000	mg/L
03B07	09/30/87	SULFATE	19.00000	mg/L
03B07	09/30/87	CHLORIDE	13.00000	mg/L
03B07	09/30/87	FLUORIDE, TOTAL	0.10000	mg/L
03B07	09/30/87	RADIUM, TOTAL	0.40000	pCi/l
03B07	09/30/87	GROSS ALPHA	2.90000	pCi/l
03B07	09/30/87	GROSS BETA	0.10000	mlrem/y
03B07	09/30/87	METHYLENE CHLORIDE	0.00200	mg/L
03B07	01/30/88	pH	7.55000	S.U.
03B07	01/30/88	SPECIFIC CONDUCTANCE	197.00000	umho/cm
03B07	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B07	01/30/88	SODIUM	3.00000	mg/L
03B07	01/30/88	SULFATE	15.00000	mg/L
03B07	01/30/88	CHLORIDE	11.00000	mg/L
03B07	01/30/88	FLUORIDE, TOTAL	0.08000	mg/L
03B07	01/30/88	NITRATE-N	0.35000	mg/L
03B07	01/30/88	RADIUM, TOTAL	0.00000	pCi/l
03B07	01/30/88	GROSS ALPHA	0.20000	pCi/l
03B07	01/30/88	GROSS BETA	0.40000	mlrem/y
03B07	01/30/88	COLIFORM	0.00000	#/100ml
03B07	04/21/88	pH	7.43000	S.U.
03B07	04/21/88	SPECIFIC CONDUCTANCE	188.00000	umho/cm
03B07	04/21/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B07	04/21/88	IRON, TOTAL	0.02000	mg/L
03B07	04/21/88	SODIUM	4.40000	mg/L
03B07	04/21/88	SULFATE	17.00000	mg/L
03B07	04/21/88	CHLORIDE	2.00000	mg/L
03B07	04/21/88	FLUORIDE, TOTAL	0.07000	mg/L
03B07	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B07	04/21/88	GROSS ALPHA	1.80000	mg/L
03B07	04/21/88	GROSS BETA	3.80000	mg/L
03B07	04/21/88	COLIFORM	2.00000	#/100ml
03B07	07/29/88	pH	7.10000	S.U.
03B07	07/29/88	SPECIFIC CONDUCTANCE	457.00000	umho/cm
03B07	07/29/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B07	07/29/88	IRON, TOTAL	0.04000	mg/L
03B07	07/29/88	SODIUM	3.00000	mg/L
03B07	07/29/88	SULFATE	13.00000	mg/L
03B07	07/29/88	CHLORIDE	7.00000	mg/L
03B07	07/29/88	BARIUM, TOTAL	0.06000	mg/L
03B07	07/29/88	FLUORIDE, TOTAL	0.18000	mg/L
03B07	07/29/88	NITRATE-N	0.47000	mg/L
03B07	07/29/88	RADIUM, TOTAL	0.00000	pcu/L
03B07	07/29/88	GROSS ALPHA	1.50000	pcu/L
03B07	07/29/88	GROSS BETA	3.40000	pcu/L
03B07	07/29/88	COLIFORM	0.00000	TC/.1L
03B07	10/20/88	pH	7.10000	S.U.
03B07	10/20/88	SPECIFIC CONDUCTANCE	181.00000	umho/cm
03B07	10/20/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B07	10/20/88	SODIUM	1.00000	mg/L
03B07	10/20/88	SULFATE	18.00000	mg/L
03B07	10/20/88	BICARBONATE	312.00000	mg/L
03B07	10/20/88	CALCIUM	58.00000	mg/L

03B07	10/20/88	MAGNESIUM	11.00000	mg/L
03B07	10/20/88	POTASSIUM	2.00000	mg/L
03B07	10/20/88	FLUORIDE, TOTAL	0.12000	mg/L
03B07	10/20/88	NITRATE-N	0.20000	mg/L
03B07	10/20/88	GROSS BETA	0.00000	pcu/L
03B07	10/20/88	COLIFORM	50.00000	TC/.1L
03B07	01/17/89	pH	7.40000	S.U.
03B07	01/17/89	SPECIFIC CONDUCTANCE	165.00000	umho/cm
03B07	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B07	01/17/89	SODIUM	3.00000	mg/L
03B07	01/17/89	SULFATE	14.00000	mg/L
03B07	01/17/89	CHLORIDE	7.00000	mg/L
03B07	01/17/89	AMMONIA-NITROGEN	0.20000	mg/L
03B07	01/17/89	BICARBONATE	134.00000	mg/L
03B07	01/17/89	CALCIUM	27.00000	mg/L
03B07	01/17/89	MAGNESIUM	5.00000	mg/L
03B07	01/17/89	POTASSIUM	0.50000	mg/L
03B07	01/17/89	FLUORIDE, TOTAL	0.16000	mg/L
03B07	01/17/89	NITRATE-N	0.82200	mg/L
03B07	01/17/89	COLIFORM	8.00000	TC/.1L
03B07	04/01/89	pH	7.30000	S.U.
03B07	04/01/89	SPECIFIC CONDUCTANCE	133.00000	umho/cm
03B07	04/01/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B07	04/01/89	SODIUM	0.20000	mg/L
03B07	04/01/89	CALCIUM	13.40000	mg/L
03B07	04/01/89	MAGNESIUM	2.90000	mg/L
03B07	04/01/89	POTASSIUM	1.00000	mg/L
03B07	04/01/89	SULFATE	11.00000	mg/L
03B07	04/01/89	CHLORIDE	5.00000	mg/L
03B07	04/01/89	BICARBONATE	69.00000	mg/L
03B07	04/01/89	FLUORIDE, TOTAL	0.03500	mg/L
03B07	04/01/89	NITRATE-N	1.43000	mg/L
03B07	04/01/89	COLIFORM	5.00000	TC/.1L
03B07	07/14/89	pH	7.10000	S.U.
03B07	07/14/89	SPECIFIC CONDUCTANCE	238.00000	umho/cm
03B07	07/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B07	07/14/89	SODIUM	1.00000	mg/L
03B07	07/14/89	CALCIUM	31.00000	mg/L
03B07	07/14/89	MAGNESIUM	7.00000	mg/L
03B07	07/14/89	POTASSIUM	1.00000	mg/L
03B07	07/14/89	SULFATE	21.00000	mg/L
03B07	07/14/89	CHLORIDE	9.00000	mg/L
03B07	07/14/89	BICARBONATE	176.00000	mg/L
03B07	07/14/89	BARIUM, TOTAL	0.04000	mg/L
03B07	07/14/89	COLIFORM	22.00000	TC/.1L
03B07	10/25/89	pH	7.10000	S.U.
03B07	10/25/89	SPECIFIC CONDUCTANCE	329.00000	umho/cm
03B07	10/25/89	CALCIUM	57.00000	mg/L
03B07	10/25/89	MAGNESIUM	10.00000	mg/L
03B07	10/25/89	POTASSIUM	0.90000	mg/L
03B07	10/25/89	BICARBONATE	244.00000	mg/L
03B07	10/25/89	TRICHLOROETHYLENE	0.00700	mg/L
03B07	01/30/90	pH	7.40000	S.U.
03B07	01/30/90	SPECIFIC CONDUCTANCE	144.00000	umho/cm
03B07	01/30/90	TOTAL ORGANIC CARBON	1.40000	mg/L
03B07	01/30/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03B07	01/30/90	SODIUM	1.00000	mg/L
03B07	01/30/90	CALCIUM	21.00000	mg/L
03B07	01/30/90	MAGNESIUM	4.00000	mg/L
03B07	01/30/90	POTASSIUM	1.00000	mg/L

03B07	01/30/90	SULFATE	64.00000	mg/L
03B07	01/30/90	CHLORIDE	8.00000	mg/L
03B07	01/30/90	BICARBONATE	110.00000	mg/L
03B07	04/18/90	pH	7.70000	S.U.
03B07	04/18/90	SPECIFIC CONDUCTANCE	156.00000	umho/cm
03B07	04/18/90	CALCIUM	33.00000	mg/L
03B07	04/18/90	MAGNESIUM	17.00000	mg/L
03B07	04/18/90	POTASSIUM	1.00000	mg/L
03B07	04/18/90	BICARBONATE	125.00000	mg/L
03B07	07/17/90	pH	7.30000	S.U.
03B07	07/17/90	SPECIFIC CONDUCTANCE	268.00000	umho/cm
03B07	07/17/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03B07	07/17/90	IRON, TOTAL	0.06000	mg/L
03B07	07/17/90	SODIUM	1.00000	mg/L
03B07	07/17/90	CALCIUM	39.00000	mg/L
03B07	07/17/90	MAGNESIUM	8.00000	mg/L
03B07	07/17/90	POTASSIUM	1.00000	mg/L
03B07	07/17/90	BICARBONATE	152.00000	mg/L
03B07	10/23/90	pH	6.80000	S.U.
03B07	10/23/90	SPECIFIC CONDUCTANCE	163.00000	umho/cm
03B07	10/23/90	SODIUM	3.00000	mg/L
03B07	10/23/90	CALCIUM	47.00000	mg/L
03B07	10/23/90	MAGNESIUM	10.00000	mg/L
03B07	01/18/91	pH	6.99000	S.U.
03B07	01/18/91	SPECIFIC CONDUCTANCE	139.00000	umho/cm
03B07	01/18/91	TOTAL ORGANIC CARBON	1.68000	mg/L
03B07	01/18/91	MANGANESE	0.01000	mg/L
03B07	01/18/91	SODIUM	1.00000	mg/L
03B07	01/18/91	CALCIUM	17.00000	mg/L
03B07	01/18/91	MAGNESIUM	6.00000	mg/L
03B07	01/18/91	SULFATE	19.00000	mg/L
03B07	01/18/91	CHLORIDE	10.00000	mg/L
03B07	01/18/91	BICARBONATE	110.00000	mg/L
03B07	04/02/91	pH	6.73000	S.U.
03B07	04/02/91	SPECIFIC CONDUCTANCE	95.00000	umho/cm
03B07	04/02/91	CALCIUM	18.70000	mg/L
03B07	04/02/91	MAGNESIUM	4.20000	mg/L
03B07	04/02/91	POTASSIUM	0.50000	mg/L
03B07	04/02/91	BICARBONATE	84.00000	mg/L
03B07	07/16/91	pH	6.68000	S.U.
03B07	07/16/91	SPECIFIC CONDUCTANCE	260.00000	umho/cm
03B07	07/16/91	TOTAL ORGANIC CARBON	0.92000	mg/L
03B07	07/16/91	IRON, TOTAL	0.52000	mg/L
03B07	07/16/91	MANGANESE	0.02000	mg/L
03B07	07/16/91	SODIUM	1.80000	mg/L
03B07	07/16/91	CALCIUM	28.90000	mg/L
03B07	07/16/91	MAGNESIUM	6.10000	mg/L
03B07	07/16/91	POTASSIUM	1.20000	mg/L
03B07	07/16/91	BICARBONATE	263.00000	mg/L
03B07	07/16/91	TRICHLOROETHENE	0.01300	mg/L
03B07	10/04/91	pH	6.85000	S.U.
03B07	10/04/91	SPECIFIC CONDUCTANCE	442.00000	umho/cm
03B07	10/04/91	SODIUM	1.40000	mg/L
03B07	10/04/91	BICARBONATE	252.00000	mg/L
03B07	10/04/91	CALCIUM	102.30000	mg/L
03B07	10/04/91	MAGNESIUM	46.10000	mg/L
03B07	10/04/91	POTASSIUM	4.50000	mg/L
03B07	01/09/92	pH	7.90000	S.U.
03B07	01/09/92	SPECIFIC CONDUCTANCE	108.00000	umho/cm
03B07	01/09/92	TOTAL ORGANIC CARBON	1.91000	mg/L

03B07	01/09/92	SODIUM	1.20000 mg/L
03B07	01/09/92	CALCIUM	23.00000 mg/L
03B07	01/09/92	MAGNESIUM	4.60000 mg/L
03B07	01/09/92	SULFATE	14.00000 mg/L
03B07	01/09/92	CHLORIDE	13.00000 mg/L
03B07	01/09/92	BICARBONATE	108.00000 mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B08	09/30/87	pH	6.81000	S.U.
03B08	09/30/87	SPECIFIC CONDUCTANCE	339.00000	umho/cm
03B08	09/30/87	TOTAL ORGANIC CARBON	8.00000	mg/L
03B08	09/30/87	IRON, TOTAL	0.70000	mg/L
03B08	09/30/87	MANGANESE	0.17000	mg/L
03B08	09/30/87	SODIUM	11.00000	mg/L
03B08	09/30/87	SULFATE	19.00000	mg/L
03B08	09/30/87	CHLORIDE	9.00000	mg/L
03B08	09/30/87	FLUORIDE, TOTAL	0.10000	mg/L
03B08	09/30/87	NITRATE-N	0.25000	mg/L
03B08	09/30/87	RADIUM, TOTAL	0.20000	pCi/l
03B08	09/30/87	GROSS ALPHA	0.00000	pCi/l
03B08	09/30/87	GROSS BETA	1.50000	mlrem/y
03B08	01/30/88	pH	7.53000	S.U.
03B08	01/30/88	SPECIFIC CONDUCTANCE	152.00000	umho/cm
03B08	01/30/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03B08	01/30/88	SODIUM	3.00000	mg/L
03B08	01/30/88	SULFATE	10.00000	mg/L
03B08	01/30/88	MERCURY, TOTAL	0.00600	mg/L
03B08	01/30/88	SELENIUM, TOTAL	0.05000	mg/L
03B08	01/30/88	FLUORIDE, TOTAL	0.05000	mg/L
03B08	01/30/88	NITRATE-N	0.31000	mg/L
03B08	01/30/88	RADIUM, TOTAL	0.00000	pCi/l
03B08	01/30/88	GROSS ALPHA	0.00000	pCi/l
03B08	01/30/88	GROSS BETA	0.80000	mlrem/y
03B08	01/30/88	COLIFORM	0.00000	#/100ml
03B08	04/21/88	pH	7.04000	S.U.
03B08	04/21/88	SPECIFIC CONDUCTANCE	150.00000	umho/cm
03B08	04/21/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B08	04/21/88	SODIUM	4.40000	mg/L
03B08	04/21/88	SULFATE	12.00000	mg/L
03B08	04/21/88	CHLORIDE	2.00000	mg/L
03B08	04/21/88	NITRATE-N	0.10000	mg/L
03B08	04/21/88	RADIUM, TOTAL	0.10000	mg/L
03B08	04/21/88	GROSS ALPHA	3.90000	mg/L
03B08	04/21/88	GROSS BETA	5.80000	mg/L
03B08	04/21/88	COLIFORM	0.00000	#/100ml
03B08	04/21/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.81000	mg/L
03B08	07/29/88	pH	7.40000	S.U.
03B08	07/29/88	SPECIFIC CONDUCTANCE	322.00000	umho/cm
03B08	07/29/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03B08	07/29/88	IRON, TOTAL	0.08000	mg/L
03B08	07/29/88	MANGANESE	0.57000	mg/L
03B08	07/29/88	SODIUM	5.90000	mg/L
03B08	07/29/88	SULFATE	7.00000	mg/L
03B08	07/29/88	CHLORIDE	8.00000	mg/L
03B08	07/29/88	BARIUM, TOTAL	0.05700	mg/L
03B08	07/29/88	CHROMIUM, TOTAL	7.49000	mg/L
03B08	07/29/88	FLUORIDE, TOTAL	0.20000	mg/L
03B08	07/29/88	NITRATE-N	0.19000	mg/L
03B08	07/29/88	RADIUM, TOTAL	0.10000	pcu/L
03B08	07/29/88	GROSS ALPHA	3.50000	pcu/L
03B08	07/29/88	GROSS BETA	4.20000	pcu/L
03B08	07/29/88	COLIFORM	80.00000	TC/.1L
03B08	10/20/88	pH	7.40000	S.U.
03B08	10/20/88	SPECIFIC CONDUCTANCE	196.00000	umho/cm
03B08	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B08	10/20/88	MANGANESE	0.28000	mg/L

03B08	10/20/88	SODIUM	3.00000	mg/L
03B08	10/20/88	SULFATE	10.00000	mg/L
03B08	10/20/88	CHLORIDE	4.00000	mg/L
03B08	10/20/88	BICARBONATE	274.00000	mg/L
03B08	10/20/88	CALCIUM	39.00000	mg/L
03B08	10/20/88	MAGNESIUM	5.00000	mg/L
03B08	10/20/88	POTASSIUM	2.00000	mg/L
03B08	10/20/88	FLUORIDE, TOTAL	0.18000	mg/L
03B08	10/20/88	NITRATE-N	0.10000	mg/L
03B08	10/20/88	GROSS BETA	2.00000	pcu/L
03B08	10/20/88	COLIFORM	0.00000	TC/.1L
03B08	01/17/89	pH	7.60000	S.U.
03B08	01/17/89	SPECIFIC CONDUCTANCE	129.00000	umho/cm
03B08	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B08	01/17/89	SODIUM	1.00000	mg/L
03B08	01/17/89	SULFATE	14.00000	mg/L
03B08	01/17/89	CHLORIDE	5.00000	mg/L
03B08	01/17/89	BICARBONATE	98.00000	mg/L
03B08	01/17/89	CALCIUM	20.00000	mg/L
03B08	01/17/89	MAGNESIUM	3.00000	mg/L
03B08	01/17/89	POTASSIUM	0.40000	mg/L
03B08	01/17/89	FLUORIDE, TOTAL	0.12000	mg/L
03B08	01/17/89	NITRATE-N	0.52000	mg/L
03B08	01/17/89	COLIFORM	0.00000	TC/.1L
03B08	04/14/89	pH	7.10000	S.U.
03B08	04/14/89	SPECIFIC CONDUCTANCE	121.00000	umho/cm
03B08	04/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B08	04/14/89	SODIUM	1.00000	mg/L
03B08	04/14/89	CALCIUM	13.10000	mg/L
03B08	04/14/89	MAGNESIUM	1.60000	mg/L
03B08	04/14/89	POTASSIUM	0.70000	mg/L
03B08	04/14/89	SULFATE	7.00000	mg/L
03B08	04/14/89	CHLORIDE	5.00000	mg/L
03B08	04/14/89	BICARBONATE	59.00000	mg/L
03B08	04/14/89	FLUORIDE, TOTAL	0.03500	mg/L
03B08	04/14/89	NITRATE-N	0.10000	mg/L
03B08	04/14/89	COLIFORM	0.00000	TC/.1L
03B08	07/14/89	pH	7.10000	S.U.
03B08	07/14/89	SPECIFIC CONDUCTANCE	167.00000	umho/cm
03B08	07/14/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03B08	07/14/89	SODIUM	1.00000	mg/L
03B08	07/14/89	CALCIUM	26.00000	mg/L
03B08	07/14/89	MAGNESIUM	3.30000	mg/L
03B08	07/14/89	POTASSIUM	0.50000	mg/L
03B08	07/14/89	SULFATE	9.00000	mg/L
03B08	07/14/89	CHLORIDE	7.00000	mg/L
03B08	07/14/89	BICARBONATE	78.00000	mg/L
03B08	07/14/89	COLIFORM	4.00000	TC/.1L
03B08	07/14/89	DI-N-BUTYL PHTHALATE	0.04000	mg/L
03B08	10/25/89	pH	7.30000	S.U.
03B08	10/25/89	SPECIFIC CONDUCTANCE	244.00000	umho/cm
03B08	10/25/89	CALCIUM	37.00000	mg/L
03B08	10/25/89	MAGNESIUM	5.00000	mg/L
03B08	10/25/89	POTASSIUM	0.80000	mg/L
03B08	10/25/89	BICARBONATE	147.00000	mg/L
03B08	01/30/90	pH	7.50000	S.U.
03B08	01/30/90	SPECIFIC CONDUCTANCE	141.00000	umho/cm
03B08	01/30/90	TOTAL ORGANIC CARBON	1.30000	mg/L
03B08	01/30/90	SODIUM	1.00000	mg/L
03B08	01/30/90	CALCIUM	16.00000	mg/L

03B08	01/30/90	MAGNESIUM	2.00000	mg/L
03B08	01/30/90	POTASSIUM	1.00000	mg/L
03B08	01/30/90	SULFATE	18.00000	mg/L
03B08	01/30/90	CHLORIDE	6.00000	mg/L
03B08	01/30/90	BICARBONATE	98.00000	mg/L
03B08	04/18/90	pH	7.50000	S.U.
03B08	04/18/90	SPECIFIC CONDUCTANCE	117.00000	umho/cm
03B08	04/18/90	CALCIUM	22.00000	mg/L
03B08	04/18/90	MAGNESIUM	3.00000	mg/L
03B08	04/18/90	POTASSIUM	1.00000	mg/L
03B08	04/18/90	BICARBONATE	108.00000	mg/L
03B08	07/17/90	pH	6.70000	S.U.
03B08	07/17/90	SPECIFIC CONDUCTANCE	163.00000	umho/cm
03B08	07/17/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03B08	07/17/90	SODIUM	2.00000	mg/L
03B08	07/17/90	CALCIUM	28.00000	mg/L
03B08	07/17/90	MAGNESIUM	4.00000	mg/L
03B08	07/17/90	POTASSIUM	1.00000	mg/L
03B08	07/17/90	BICARBONATE	126.00000	mg/L
03B08	10/23/90	pH	6.60000	S.U.
03B08	10/23/90	SPECIFIC CONDUCTANCE	261.00000	umho/cm
03B08	10/23/90	SODIUM	3.00000	mg/L
03B08	10/23/90	CALCIUM	37.00000	mg/L
03B08	10/23/90	MAGNESIUM	4.00000	mg/L
03B08	10/23/90	AMMONIA-NITROGEN	0.06000	mg/L
03B08	01/17/91	pH	6.83000	S.U.
03B08	01/17/91	SPECIFIC CONDUCTANCE	121.00000	umho/cm
03B08	01/17/91	TOTAL ORGANIC CARBON	0.62000	mg/L
03B08	01/17/91	IRON, TOTAL	0.16000	mg/L
03B08	01/17/91	CALCIUM	13.00000	mg/L
03B08	01/17/91	MAGNESIUM	3.00000	mg/L
03B08	01/17/91	SULFATE	18.00000	mg/L
03B08	01/17/91	CHLORIDE	9.00000	mg/L
03B08	01/17/91	BICARBONATE	79.00000	mg/L
03B08	04/02/91	pH	6.81000	S.U.
03B08	04/02/91	SPECIFIC CONDUCTANCE	101.00000	umho/cm
03B08	04/02/91	CALCIUM	16.10000	mg/L
03B08	04/02/91	MAGNESIUM	2.30000	mg/L
03B08	04/02/91	POTASSIUM	0.30000	mg/L
03B08	04/02/91	BICARBONATE	66.00000	mg/L
03B08	04/02/91	AMMONIA-NITROGEN	0.14000	mg/L
03B08	07/16/91	pH	7.49000	S.U.
03B08	07/16/91	SPECIFIC CONDUCTANCE	273.00000	umho/cm
03B08	07/16/91	TOTAL ORGANIC CARBON	0.92000	mg/L
03B08	07/16/91	TOTAL ORGANIC HALOGENS	0.21000	mg/L
03B08	07/16/91	IRON, TOTAL	0.70000	mg/L
03B08	07/16/91	MANGANESE	0.12000	mg/L
03B08	07/16/91	SODIUM	2.70000	mg/L
03B08	07/16/91	CALCIUM	31.90000	mg/L
03B08	07/16/91	MAGNESIUM	4.30000	mg/L
03B08	07/16/91	POTASSIUM	1.30000	mg/L
03B08	07/16/91	BICARBONATE	191.00000	mg/L
03B08	07/16/91	TRICHLOROETHENE	0.18600	mg/L
03B08	10/04/91	pH	7.42000	S.U.
03B08	10/04/91	SPECIFIC CONDUCTANCE	305.00000	umho/cm
03B08	10/04/91	SODIUM	1.80000	mg/L
03B08	10/04/91	AMMONIA-NITROGEN	0.06000	mg/L
03B08	10/04/91	BICARBONATE	220.00000	mg/L
03B08	10/04/91	CALCIUM	55.20000	mg/L
03B08	10/04/91	MAGNESIUM	18.20000	mg/L

03B08	10/04/91	POTASSIUM	14.40000	mg/L
03B08	01/09/92	pH	7.80000	S.U.
03B08	01/09/92	SPECIFIC CONDUCTANCE	841.00000	umho/cm
03B08	01/09/92	TOTAL ORGANIC CARBON	0.88000	mg/L
03B08	01/09/92	IRON, TOTAL	0.51000	mg/L
03B08	01/09/92	CALCIUM	25.50000	mg/L
03B08	01/09/92	MAGNESIUM	4.40000	mg/L
03B08	01/09/92	SULFATE	20.00000	mg/L
03B08	01/09/92	CHLORIDE	10.00000	mg/L
03B08	01/09/92	BICARBONATE	84.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B09	09/30/87	pH	7.67000	S.U.
03B09	09/30/87	SPECIFIC CONDUCTANCE	898.00000	umho/cm
03B09	09/30/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03B09	09/30/87	TOTAL ORGANIC HALOGENS	0.02700	mg/L
03B09	09/30/87	MANGANESE	0.16000	mg/L
03B09	09/30/87	SODIUM	93.00000	mg/L
03B09	09/30/87	SULFATE	37.00000	mg/L
03B09	09/30/87	CHLORIDE	88.00000	mg/L
03B09	09/30/87	FLUORIDE, TOTAL	0.24000	mg/L
03B09	09/30/87	RADIUM, TOTAL	0.30000	pCi/l
03B09	09/30/87	GROSS ALPHA	1.70000	pCi/l
03B09	09/30/87	GROSS BETA	3.40000	mlrem/y
03B09	09/30/87	METHYLENE CHLORIDE	0.00400	mg/L
03B09	09/30/87	CHLOROFORM	0.00800	mg/L
03B09	01/30/88	pH	8.07000	S.U.
03B09	01/30/88	SPECIFIC CONDUCTANCE	509.00000	umho/cm
03B09	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B09	01/30/88	TOTAL ORGANIC HALOGENS	0.01500	mg/L
03B09	01/30/88	MANGANESE	0.02000	mg/L
03B09	01/30/88	SODIUM	50.00000	mg/L
03B09	01/30/88	SULFATE	46.00000	mg/L
03B09	01/30/88	CHLORIDE	48.00000	mg/L
03B09	01/30/88	BARIUM, TOTAL	0.06000	mg/L
03B09	01/30/88	FLUORIDE, TOTAL	0.24000	mg/L
03B09	01/30/88	NITRATE-N	0.86000	mg/L
03B09	01/30/88	RADIUM, TOTAL	0.10000	pCi/l
03B09	01/30/88	GROSS ALPHA	1.60000	pCi/l
03B09	01/30/88	GROSS BETA	4.00000	mlrem/y
03B09	01/30/88	COLIFORM	0.00000	#/100ml
03B09	04/21/88	pH	7.36000	S.U.
03B09	04/21/88	SPECIFIC CONDUCTANCE	605.00000	umho/cm
03B09	04/21/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03B09	04/21/88	IRON, TOTAL	0.60000	mg/L
03B09	04/21/88	MANGANESE	0.06000	mg/L
03B09	04/21/88	SODIUM	21.00000	mg/L
03B09	04/21/88	SULFATE	34.00000	mg/L
03B09	04/21/88	CHLORIDE	9.00000	mg/L
03B09	04/21/88	BARIUM, TOTAL	0.09000	mg/L
03B09	04/21/88	FLUORIDE, TOTAL	0.20000	mg/L
03B09	04/21/88	NITRATE-N	0.60000	mg/L
03B09	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B09	04/21/88	GROSS ALPHA	0.00000	mg/L
03B09	04/21/88	GROSS BETA	5.10000	mg/L
03B09	04/21/88	COLIFORM	5.00000	#/100ml
03B09	07/29/88	pH	7.00000	S.U.
03B09	07/29/88	SPECIFIC CONDUCTANCE	646.00000	umho/cm
03B09	07/29/88	TOTAL ORGANIC CARBON	10.00000	mg/L
03B09	07/29/88	IRON, TOTAL	0.60000	mg/L
03B09	07/29/88	MANGANESE	0.07000	mg/L
03B09	07/29/88	SODIUM	23.00000	mg/L
03B09	07/29/88	SULFATE	23.00000	mg/L
03B09	07/29/88	CHLORIDE	10.00000	mg/L
03B09	07/29/88	BARIUM, TOTAL	0.05000	mg/L
03B09	07/29/88	FLUORIDE, TOTAL	0.25000	mg/L
03B09	07/29/88	NITRATE-N	0.60000	mg/L
03B09	07/29/88	RADIUM, TOTAL	0.00000	pcu/L
03B09	07/29/88	GROSS ALPHA	0.00000	pcu/L
03B09	07/29/88	GROSS BETA	4.20000	pcu/L

03B09	07/29/88	COLIFORM	0.00000	TC/.1L
03B09	10/20/88	pH	7.50000	S.U.
03B09	10/20/88	SPECIFIC CONDUCTANCE	612.00000	umho/cm
03B09	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B09	10/20/88	MANGANESE	0.21000	mg/L
03B09	10/20/88	SODIUM	18.00000	mg/L
03B09	10/20/88	SULFATE	24.00000	mg/L
03B09	10/20/88	CHLORIDE	6.00000	mg/L
03B09	10/20/88	BICARBONATE	469.00000	mg/L
03B09	10/20/88	CALCIUM	70.00000	mg/L
03B09	10/20/88	MAGNESIUM	6.00000	mg/L
03B09	10/20/88	POTASSIUM	2.00000	mg/L
03B09	10/20/88	FLUORIDE, TOTAL	0.14000	mg/L
03B09	10/20/88	NITRATE-N	0.15000	mg/L
03B09	10/20/88	GROSS BETA	4.00000	pcu/L
03B09	10/20/88	COLIFORM	0.00000	TC/.1L
03B09	01/17/89	pH	7.50000	S.U.
03B09	01/17/89	SPECIFIC CONDUCTANCE	460.00000	umho/cm
03B09	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B09	01/17/89	SODIUM	17.00000	mg/L
03B09	01/17/89	SULFATE	22.00000	mg/L
03B09	01/17/89	CHLORIDE	9.00000	mg/L
03B09	01/17/89	BICARBONATE	397.00000	mg/L
03B09	01/17/89	CALCIUM	102.00000	mg/L
03B09	01/17/89	MAGNESIUM	10.00000	mg/L
03B09	01/17/89	POTASSIUM	1.80000	mg/L
03B09	01/17/89	BARIUM, TOTAL	0.08000	mg/L
03B09	01/17/89	FLUORIDE, TOTAL	0.40000	mg/L
03B09	01/17/89	NITRATE-N	10.20000	mg/L
03B09	01/17/89	COLIFORM	0.00000	TC/.1L
03B09	04/14/89	pH	7.40000	S.U.
03B09	04/14/89	SPECIFIC CONDUCTANCE	370.00000	umho/cm
03B09	04/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B09	04/14/89	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03B09	04/14/89	MANGANESE	0.05000	mg/L
03B09	04/14/89	SODIUM	5.10000	mg/L
03B09	04/14/89	CALCIUM	60.00000	mg/L
03B09	04/14/89	MAGNESIUM	4.20000	mg/L
03B09	04/14/89	POTASSIUM	1.20000	mg/L
03B09	04/14/89	SULFATE	17.00000	mg/L
03B09	04/14/89	CHLORIDE	6.00000	mg/L
03B09	04/14/89	BICARBONATE	215.00000	mg/L
03B09	04/14/89	FLUORIDE, TOTAL	0.17000	mg/L
03B09	04/14/89	NITRATE-N	0.71000	mg/L
03B09	04/14/89	COLIFORM	0.00000	TC/.1L
03B09	07/14/89	pH	7.50000	S.U.
03B09	07/14/89	SPECIFIC CONDUCTANCE	422.00000	umho/cm
03B09	07/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B09	07/14/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03B09	07/14/89	MANGANESE	0.03000	mg/L
03B09	07/14/89	SODIUM	5.00000	mg/L
03B09	07/14/89	CALCIUM	65.00000	mg/L
03B09	07/14/89	MAGNESIUM	5.00000	mg/L
03B09	07/14/89	POTASSIUM	1.00000	mg/L
03B09	07/14/89	SULFATE	11.00000	mg/L
03B09	07/14/89	CHLORIDE	12.00000	mg/L
03B09	07/14/89	BICARBONATE	244.00000	mg/L
03B09	07/14/89	FLUORIDE, TOTAL	0.14000	mg/L
03B09	07/14/89	NITRATE-N	0.71000	mg/L
03B09	07/14/89	COLIFORM	0.00000	TC/.1L

03B09	07/14/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03B09	10/25/89	pH	7.10000	S.U.
03B09	10/25/89	SPECIFIC CONDUCTANCE	516.00000	umho/cm
03B09	10/25/89	CALCIUM	61.00000	mg/L
03B09	10/25/89	MAGNESIUM	5.00000	mg/L
03B09	10/25/89	POTASSIUM	0.70000	mg/L
03B09	10/25/89	BICARBONATE	293.00000	mg/L
03B09	10/25/89	TRICHLOROETHYLENE	0.00600	mg/L
03B09	01/30/90	pH	7.80000	S.U.
03B09	01/30/90	SPECIFIC CONDUCTANCE	360.00000	umho/cm
03B09	01/30/90	TOTAL ORGANIC CARBON	1.10000	mg/L
03B09	01/30/90	MANGANESE	0.02700	mg/L
03B09	01/30/90	SODIUM	3.00000	mg/L
03B09	01/30/90	CALCIUM	44.00000	mg/L
03B09	01/30/90	MAGNESIUM	3.00000	mg/L
03B09	01/30/90	POTASSIUM	1.00000	mg/L
03B09	01/30/90	SULFATE	20.00000	mg/L
03B09	01/30/90	CHLORIDE	8.00000	mg/L
03B09	01/30/90	BICARBONATE	353.00000	mg/L
03B09	01/30/90	TRICHLOROETHYLENE	0.03300	mg/L
03B09	04/18/90	pH	7.90000	S.U.
03B09	04/18/90	SPECIFIC CONDUCTANCE	338.00000	umho/cm
03B09	04/18/90	CALCIUM	79.00000	mg/L
03B09	04/18/90	MAGNESIUM	7.00000	mg/L
03B09	04/18/90	POTASSIUM	1.00000	mg/L
03B09	04/18/90	BICARBONATE	323.00000	mg/L
03B09	10/23/90	pH	6.40000	S.U.
03B09	10/23/90	SPECIFIC CONDUCTANCE	556.00000	umho/cm
03B09	10/23/90	SODIUM	5.00000	mg/L
03B09	10/23/90	CALCIUM	83.00000	mg/L
03B09	10/23/90	MAGNESIUM	8.00000	mg/L
03B09	01/18/91	pH	7.43000	S.U.
03B09	01/18/91	SPECIFIC CONDUCTANCE	386.00000	umho/cm
03B09	01/18/91	TOTAL ORGANIC CARBON	1.98000	mg/L
03B09	01/18/91	SODIUM	4.00000	mg/L
03B09	01/18/91	CALCIUM	58.00000	mg/L
03B09	01/18/91	MAGNESIUM	6.00000	mg/L
03B09	01/18/91	SULFATE	90.00000	mg/L
03B09	01/18/91	CHLORIDE	10.00000	mg/L
03B09	01/18/91	BICARBONATE	238.00000	mg/L
03B09	04/02/91	pH	6.91000	S.U.
03B09	04/02/91	SPECIFIC CONDUCTANCE	302.00000	umho/cm
03B09	04/02/91	CALCIUM	61.70000	mg/L
03B09	04/02/91	MAGNESIUM	4.90000	mg/L
03B09	04/02/91	POTASSIUM	7.70000	mg/L
03B09	04/02/91	BICARBONATE	251.00000	mg/L
03B09	07/16/91	pH	7.12000	S.U.
03B09	07/16/91	SPECIFIC CONDUCTANCE	497.00000	umho/cm
03B09	07/16/91	TOTAL ORGANIC CARBON	1.21000	mg/L
03B09	07/16/91	TOTAL ORGANIC HALOGENS	0.51000	mg/L
03B09	07/16/91	MANGANESE	0.01000	mg/L
03B09	07/16/91	SODIUM	4.10000	mg/L
03B09	07/16/91	CALCIUM	57.20000	mg/L
03B09	07/16/91	MAGNESIUM	6.60000	mg/L
03B09	07/16/91	POTASSIUM	0.80000	mg/L
03B09	07/16/91	BICARBONATE	401.00000	mg/L
03B09	07/16/91	1,1,1-TRICHLOROETHANE	0.00200	mg/L
03B09	07/16/91	TRICHLOROETHENE	0.40000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03B10	11/03/87	pH	7.93000	S.U.
03B10	11/03/87	SPECIFIC CONDUCTANCE	259.00000	umho/cm
03B10	11/03/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03B10	11/03/87	SODIUM	8.00000	mg/L
03B10	11/03/87	SULFATE	7.00000	mg/L
03B10	11/03/87	CHLORIDE	4.00000	mg/L
03B10	11/03/87	CADMIUM, TOTAL	0.05000	mg/L
03B10	11/03/87	RADIUM, TOTAL	0.20000	pCi/l
03B10	11/03/87	GROSS ALPHA	8.60000	pCi/l
03B10	11/03/87	GROSS BETA	2.30000	mlrem/y
03B10	11/03/87	METHYLENE CHLORIDE	0.00300	mg/L
03B10	11/03/87	CARBON TETRACHLORIDE	0.00300	mg/L
03B10	04/21/88	pH	7.41000	S.U.
03B10	04/21/88	SPECIFIC CONDUCTANCE	218.00000	umho/cm
03B10	04/21/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B10	04/21/88	MANGANESE	0.10000	mg/L
03B10	04/21/88	SODIUM	6.60000	mg/L
03B10	04/21/88	SULFATE	7.00000	mg/L
03B10	04/21/88	CHLORIDE	1.00000	mg/L
03B10	04/21/88	BARIUM, TOTAL	0.03000	mg/L
03B10	04/21/88	FLUORIDE, TOTAL	0.07000	mg/L
03B10	04/21/88	RADIUM, TOTAL	0.00000	mg/L
03B10	04/21/88	GROSS ALPHA	0.10000	mg/L
03B10	04/21/88	GROSS BETA	1.50000	mg/L
03B10	04/21/88	COLIFORM	5.00000	#/100ml
03B10	07/29/88	pH	7.60000	S.U.
03B10	07/29/88	SPECIFIC CONDUCTANCE	280.00000	umho/cm
03B10	07/29/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03B10	07/29/88	IRON, TOTAL	0.14000	mg/L
03B10	07/29/88	SODIUM	3.00000	mg/L
03B10	07/29/88	SULFATE	3.00000	mg/L
03B10	07/29/88	CHLORIDE	6.00000	mg/L
03B10	07/29/88	FLUORIDE, TOTAL	0.18000	mg/L
03B10	07/29/88	RADIUM, TOTAL	0.00000	pcu/L
03B10	07/29/88	GROSS ALPHA	0.10000	pcu/L
03B10	07/29/88	GROSS BETA	1.20000	pcu/L
03B10	07/29/88	COLIFORM	0.00000	TC/.1L
03B10	10/20/88	pH	7.70000	S.U.
03B10	10/20/88	SPECIFIC CONDUCTANCE	164.00000	umho/cm
03B10	10/20/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03B10	10/20/88	TOTAL ORGANIC HALOGENS	0.00100	mg/L
03B10	10/20/88	SODIUM	1.00000	mg/L
03B10	10/20/88	SULFATE	8.00000	mg/L
03B10	10/20/88	CHLORIDE	2.00000	mg/L
03B10	10/20/88	BICARBONATE	256.00000	mg/L
03B10	10/20/88	CALCIUM	48.00000	mg/L
03B10	10/20/88	MAGNESIUM	2.00000	mg/L
03B10	10/20/88	POTASSIUM	0.80000	mg/L
03B10	10/20/88	GROSS BETA	2.00000	pcu/L
03B10	10/20/88	COLIFORM	0.00000	TC/.1L
03B10	10/20/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.07000	mg/L
03B10	01/17/89	pH	7.50000	S.U.
03B10	01/17/89	SPECIFIC CONDUCTANCE	159.00000	umho/cm
03B10	01/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B10	01/17/89	SODIUM	5.00000	mg/L
03B10	01/17/89	SULFATE	22.00000	mg/L
03B10	01/17/89	CHLORIDE	7.00000	mg/L
03B10	01/17/89	BICARBONATE	390.00000	mg/L

03B10	01/17/89	CALCIUM	34.00000	mg/L
03B10	01/17/89	MAGNESIUM	2.00000	mg/L
03B10	01/17/89	POTASSIUM	0.20000	mg/L
03B10	01/17/89	NITRATE-N	0.32000	mg/L
03B10	01/17/89	COLIFORM	10.00000	TC/.1L
03B10	01/17/89	FLUORIDE, TOTAL	0.12000	mg/L
03B10	04/14/89	pH	7.20000	S.U.
03B10	04/14/89	SPECIFIC CONDUCTANCE	152.00000	umho/cm
03B10	04/14/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03B10	04/14/89	SODIUM	1.60000	mg/L
03B10	04/14/89	CALCIUM	25.40000	mg/L
03B10	04/14/89	MAGNESIUM	1.20000	mg/L
03B10	04/14/89	POTASSIUM	0.40000	mg/L
03B10	04/14/89	SULFATE	12.00000	mg/L
03B10	04/14/89	CHLORIDE	6.00000	mg/L
03B10	04/14/89	BICARBONATE	108.00000	mg/L
03B10	04/14/89	FLUORIDE, TOTAL	0.05000	mg/L
03B10	04/14/89	COLIFORM	0.00000	TC/.1L
03B10	07/14/89	pH	7.50000	S.U.
03B10	07/14/89	SPECIFIC CONDUCTANCE	163.00000	umho/cm
03B10	07/14/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03B10	07/14/89	SODIUM	1.90000	mg/L
03B10	07/14/89	CALCIUM	27.00000	mg/L
03B10	07/14/89	MAGNESIUM	1.50000	mg/L
03B10	07/14/89	POTASSIUM	0.20000	mg/L
03B10	07/14/89	SULFATE	10.00000	mg/L
03B10	07/14/89	CHLORIDE	6.00000	mg/L
03B10	07/14/89	BICARBONATE	107.00000	mg/L
03B10	07/14/89	BARIUM, TOTAL	0.03000	mg/L
03B10	07/14/89	COLIFORM	0.00000	TC/.1L
03B10	10/25/89	pH	7.70000	S.U.
03B10	10/25/89	SPECIFIC CONDUCTANCE	220.00000	umho/cm
03B10	10/25/89	CALCIUM	45.00000	mg/L
03B10	10/25/89	MAGNESIUM	1.00000	mg/L
03B10	10/25/89	POTASSIUM	0.40000	mg/L
03B10	10/25/89	BICARBONATE	156.00000	mg/L
03B10	10/25/89	TRICHLOROETHYLENE	0.00400	mg/L
03B10	01/30/90	pH	7.80000	S.U.
03B10	01/30/90	SPECIFIC CONDUCTANCE	140.00000	umho/cm
03B10	01/30/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03B10	01/30/90	MANGANESE	0.01800	mg/L
03B10	01/30/90	SODIUM	2.00000	mg/L
03B10	01/30/90	CALCIUM	20.00000	mg/L
03B10	01/30/90	MAGNESIUM	1.00000	mg/L
03B10	01/30/90	POTASSIUM	1.00000	mg/L
03B10	01/30/90	SULFATE	14.00000	mg/L
03B10	01/30/90	CHLORIDE	7.00000	mg/L
03B10	01/30/90	BICARBONATE	98.00000	mg/L
03B10	01/30/90	TRICHLOROETHYLENE	0.00200	mg/L
03B10	04/18/90	pH	7.50000	S.U.
03B10	04/18/90	SPECIFIC CONDUCTANCE	139.00000	umho/cm
03B10	04/18/90	CALCIUM	29.00000	mg/L
03B10	04/18/90	MAGNESIUM	1.00000	mg/L
03B10	04/18/90	POTASSIUM	1.00000	mg/L
03B10	04/18/90	BICARBONATE	131.00000	mg/L
03B10	07/17/90	pH	7.40000	S.U.
03B10	07/17/90	SPECIFIC CONDUCTANCE	193.00000	umho/cm
03B10	07/17/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03B10	07/17/90	SODIUM	3.00000	mg/L
03B10	07/17/90	CALCIUM	36.00000	mg/L

03B10	07/17/90	MAGNESIUM	2.00000	mg/L
03B10	07/17/90	POTASSIUM	1.00000	mg/L
03B10	07/17/90	BICARBONATE	135.00000	mg/L
03B10	10/23/90	pH	6.90000	S.U.
03B10	10/23/90	SPECIFIC CONDUCTANCE	250.00000	umho/cm
03B10	10/23/90	SODIUM	3.00000	mg/L
03B10	10/23/90	CALCIUM	46.00000	mg/L
03B10	10/23/90	MAGNESIUM	2.00000	mg/L
03B10	10/23/90	AMMONIA-NITROGEN	0.07000	mg/L
03B10	01/17/91	pH	7.48000	S.U.
03B10	01/17/91	SPECIFIC CONDUCTANCE	184.00000	umho/cm
03B10	01/17/91	TOTAL ORGANIC CARBON	0.93000	mg/L
03B10	01/17/91	MANGANESE	0.01000	mg/L
03B10	01/17/91	SODIUM	2.00000	mg/L
03B10	01/17/91	CALCIUM	19.00000	mg/L
03B10	01/17/91	MAGNESIUM	2.00000	mg/L
03B10	01/17/91	SULFATE	10.00000	mg/L
03B10	01/17/91	CHLORIDE	8.00000	mg/L
03B10	01/17/91	BICARBONATE	85.00000	mg/L
03B10	04/02/91	pH	7.02000	S.U.
03B10	04/02/91	SPECIFIC CONDUCTANCE	139.00000	umho/cm
03B10	04/02/91	CALCIUM	25.60000	mg/L
03B10	04/02/91	MAGNESIUM	1.20000	mg/L
03B10	04/02/91	POTASSIUM	0.20000	mg/L
03B10	04/02/91	BICARBONATE	96.00000	mg/L
03B10	06/29/91	pH	7.57000	S.U.
03B10	06/29/91	SPECIFIC CONDUCTANCE	168.00000	umho/cm
03B10	06/29/91	TOTAL ORGANIC CARBON	1.50000	mg/L
03B10	06/29/91	MANGANESE	0.01000	mg/L
03B10	06/29/91	SODIUM	2.60000	mg/L
03B10	06/29/91	CALCIUM	143.70000	mg/L
03B10	06/29/91	MAGNESIUM	2.00000	mg/L
03B10	06/29/91	POTASSIUM	1.30000	mg/L
03B10	06/29/91	BICARBONATE	179.00000	mg/L
03B10	06/29/91	1,1,1-TRICHLOROETHANE	0.00600	mg/L
03B10	06/29/91	TRICHLOROETHENE	0.00200	mg/L
03B10	10/04/91	pH	7.18000	S.U.
03B10	10/04/91	SPECIFIC CONDUCTANCE	226.00000	umho/cm
03B10	10/04/91	SODIUM	1.50000	mg/L
03B10	10/04/91	BICARBONATE	188.00000	mg/L
03B10	10/04/91	CALCIUM	42.40000	mg/L
03B10	10/04/91	MAGNESIUM	1.80000	mg/L
03B10	10/04/91	POTASSIUM	1.40000	mg/L

Appendix H
Compounds Detected in the Beaver Bend Aquifer

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C01	02/02/88	pH	9.40000	S.U.
03C01	02/02/88	SPECIFIC CONDUCTANCE	1092.00000	umho/cm
03C01	02/02/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C01	02/02/88	SODIUM	253.00000	mg/L
03C01	02/02/88	SULFATE	130.00000	mg/L
03C01	02/02/88	CHLORIDE	4.00000	mg/L
03C01	02/02/88	FLUORIDE, TOTAL	1.00000	mg/L
03C01	02/02/88	NITRATE-N	0.15000	mg/L
03C01	02/02/88	RADIUM, TOTAL	0.20000	pCi/l
03C01	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C01	02/02/88	GROSS BETA	18.00000	mlrem/y
03C01	02/02/88	COLIFORM	0.00000	#/100ml
03C01	04/24/88	pH	8.88000	S.U.
03C01	04/24/88	SPECIFIC CONDUCTANCE	1042.00000	umho/cm
03C01	04/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C01	04/24/88	IRON, TOTAL	0.02000	mg/L
03C01	04/24/88	SODIUM	268.00000	mg/L
03C01	04/24/88	SULFATE	125.00000	mg/L
03C01	04/24/88	CHLORIDE	2.00000	mg/L
03C01	04/24/88	FLUORIDE, TOTAL	0.74000	mg/L
03C01	04/24/88	RADIUM, TOTAL	0.00000	mg/L
03C01	04/24/88	GROSS ALPHA	0.00000	mg/L
03C01	04/24/88	GROSS BETA	3.60000	mg/L
03C01	04/24/88	COLIFORM	0.00000	#/100ml
03C01	11/04/87	pH	9.49000	S.U.
03C01	11/04/87	SPECIFIC CONDUCTANCE	1117.00000	umho/cm
03C01	11/04/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01	11/04/87	SODIUM	205.00000	mg/L
03C01	11/04/87	SULFATE	140.00000	mg/L
03C01	11/04/87	CHLORIDE	10.00000	mg/L
03C01	11/04/87	FLUORIDE, TOTAL	0.35000	mg/L
03C01	11/04/87	RADIUM, TOTAL	0.10000	pCi/l
03C01	11/04/87	GROSS ALPHA	1.20000	pCi/l
03C01	11/04/87	GROSS BETA	29.00000	mlrem/y
03C01	11/04/87	1,1-DICHLOROETHENE	0.00300	mg/L
03C01	11/04/87	BENZENE	0.00500	mg/L
03C01	10/24/88	pH	8.40000	S.U.
03C01	10/24/88	SPECIFIC CONDUCTANCE	750.00000	umho/cm
03C01	10/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01	10/24/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C01	10/24/88	SODIUM	485.00000	mg/L
03C01	10/24/88	SULFATE	135.00000	mg/L
03C01	10/24/88	CHLORIDE	3.00000	mg/L
03C01	10/24/88	AMMONIA-NITROGEN	0.50000	mg/L
03C01	10/24/88	BICARBONATE	842.00000	mg/L
03C01	10/24/88	CALCIUM	7.00000	mg/L
03C01	10/24/88	MAGNESIUM	6.00000	mg/L
03C01	10/24/88	POTASSIUM	3.00000	mg/L
03C01	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C01	10/24/88	NITRATE-N	0.20000	mg/L
03C01	10/24/88	GROSS BETA	17.00000	pcu/L
03C01	07/26/88	pH	8.30000	S.U.
03C01	07/26/88	SPECIFIC CONDUCTANCE	1076.00000	umho/cm
03C01	07/26/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C01	07/26/88	IRON, TOTAL	0.08000	mg/L
03C01	07/26/88	SODIUM	178.00000	mg/L
03C01	07/26/88	SULFATE	125.00000	mg/L
03C01	07/26/88	CHLORIDE	7.00000	mg/L

03C01	07/26/88	FLUORIDE, TOTAL	0.20000	mg/L
03C01	07/26/88	NITRATE-N	0.10000	mg/L
03C01	07/26/88	RADIUM, TOTAL	0.00000	pcu/L
03C01	07/26/88	GROSS ALPHA	0.00000	pcu/L
03C01	07/26/88	GROSS BETA	3.50000	pcu/L
03C01	07/26/88	COLIFORM	0.00000	TC/.1L
03C01	01/12/89	pH	8.40000	S.U.
03C01	01/12/89	SPECIFIC CONDUCTANCE	853.00000	umho/cm
03C01	01/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01	01/12/89	SODIUM	239.00000	mg/L
03C01	01/12/89	SULFATE	140.00000	mg/L
03C01	01/12/89	CHLORIDE	2.00000	mg/L
03C01	01/12/89	AMMONIA-NITROGEN	0.34000	mg/L
03C01	01/12/89	BICARBONATE	842.00000	mg/L
03C01	01/12/89	CALCIUM	5.40000	mg/L
03C01	01/12/89	MAGNESIUM	3.00000	mg/L
03C01	01/12/89	POTASSIUM	5.00000	mg/L
03C01	01/12/89	COLIFORM	10.00000	TC/.1L
03C01	04/13/89	pH	8.50000	S.U.
03C01	04/13/89	SPECIFIC CONDUCTANCE	865.00000	umho/cm
03C01	04/13/89	TOTAL ORGANIC CARBON	6.00000	mg/L
03C01	04/13/89	SODIUM	189.00000	mg/L
03C01	04/13/89	CALCIUM	4.00000	mg/L
03C01	04/13/89	MAGNESIUM	2.00000	mg/L
03C01	04/13/89	POTASSIUM	5.00000	mg/L
03C01	04/13/89	SULFATE	50.00000	mg/L
03C01	04/13/89	CHLORIDE	7.00000	mg/L
03C01	04/13/89	BICARBONATE	432.00000	mg/L
03C01	04/13/89	AMMONIA-NITROGEN	0.15000	mg/L
03C01	04/13/89	FLUORIDE, TOTAL	0.42000	mg/L
03C01	04/13/89	NITRATE-N	2.70000	mg/L
03C01	04/13/89	COLIFORM	0.00000	TC/.1L
03C01	04/13/89	TRICHLOROETHYLENE	0.00200	mg/L
03C01	07/13/89	pH	8.50000	S.U.
03C01	07/13/89	SPECIFIC CONDUCTANCE	909.00000	umho/cm
03C01	07/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C01	07/13/89	SODIUM	182.00000	mg/L
03C01	07/13/89	CALCIUM	4.00000	mg/L
03C01	07/13/89	MAGNESIUM	2.00000	mg/L
03C01	07/13/89	POTASSIUM	3.00000	mg/L
03C01	07/13/89	SULFATE	50.00000	mg/L
03C01	07/13/89	CHLORIDE	10.00000	mg/L
03C01	07/13/89	BICARBONATE	468.00000	mg/L
03C01	07/13/89	AMMONIA-NITROGEN	0.19000	mg/L
03C01	07/13/89	FLUORIDE, TOTAL	1.00000	mg/L
03C01	07/13/89	COLIFORM	0.00000	TC/.1L
03C01	07/13/89	TRICHLOROETHYLENE	0.00200	mg/L
03C01	10/21/89	pH	8.80000	S.U.
03C01	10/21/89	SPECIFIC CONDUCTANCE	809.00000	umho/cm
03C01	10/21/89	CALCIUM	3.70000	mg/L
03C01	10/21/89	MAGNESIUM	1.00000	mg/L
03C01	10/21/89	POTASSIUM	2.70000	mg/L
03C01	10/21/89	BICARBONATE	455.00000	mg/L
03C01	01/28/90	pH	9.90000	S.U.
03C01	01/28/90	SPECIFIC CONDUCTANCE	876.00000	umho/cm
03C01	01/28/90	TOTAL ORGANIC CARBON	2.50000	mg/L
03C01	01/28/90	SODIUM	138.00000	mg/L
03C01	01/28/90	CALCIUM	4.00000	mg/L
03C01	01/28/90	MAGNESIUM	2.00000	mg/L
03C01	01/28/90	POTASSIUM	3.00000	mg/L

03C01	01/28/90	SULFATE	50.00000	mg/L
03C01	01/28/90	CHLORIDE	9.00000	mg/L
03C01	01/28/90	BICARBONATE	500.00000	mg/L
03C01	01/28/90	AMMONIA-NITROGEN	0.10000	mg/L
03C01	04/19/90	pH	9.10000	S.U.
03C01	04/19/90	SPECIFIC CONDUCTANCE	774.00000	umho/cm
03C01	04/19/90	IRON, TOTAL	0.09000	mg/L
03C01	04/19/90	CALCIUM	3.00000	mg/L
03C01	04/19/90	MAGNESIUM	1.00000	mg/L
03C01	04/19/90	POTASSIUM	3.00000	mg/L
03C01	04/19/90	BICARBONATE	533.00000	mg/L
03C01	07/13/90	pH	9.30000	S.U.
03C01	07/13/90	SPECIFIC CONDUCTANCE	876.00000	umho/cm
03C01	07/13/90	TOTAL ORGANIC CARBON	2.60000	mg/L
03C01	07/13/90	SODIUM	150.00000	mg/L
03C01	07/13/90	CALCIUM	2.00000	mg/L
03C01	07/13/90	MAGNESIUM	1.00000	mg/L
03C01	07/13/90	POTASSIUM	1.00000	mg/L
03C01	07/13/90	BICARBONATE	466.00000	mg/L
03C01	07/13/90	AMMONIA-NITROGEN	0.15000	mg/L
03C01	10/17/90	pH	8.80000	S.U.
03C01	10/17/90	SPECIFIC CONDUCTANCE	776.00000	umho/cm
03C01	10/17/90	SODIUM	330.00000	mg/L
03C01	10/17/90	CALCIUM	3.00000	mg/L
03C01	10/17/90	MAGNESIUM	2.00000	mg/L
03C01	10/17/90	POTASSIUM	2.00000	mg/L
03C01	10/17/90	AMMONIA-NITROGEN	0.24000	mg/L
03C01	10/17/90	TRICHLOROETHYLENE	0.00150	mg/L
03C01	01/15/91	pH	9.03000	S.U.
03C01	01/15/91	SPECIFIC CONDUCTANCE	812.00000	umho/cm
03C01	01/15/91	TOTAL ORGANIC CARBON	0.75000	mg/L
03C01	01/15/91	SODIUM	210.00000	mg/L
03C01	01/15/91	CALCIUM	3.00000	mg/L
03C01	01/15/91	MAGNESIUM	2.00000	mg/L
03C01	01/15/91	POTASSIUM	6.00000	mg/L
03C01	01/15/91	SULFATE	78.00000	mg/L
03C01	01/15/91	CHLORIDE	8.00000	mg/L
03C01	01/15/91	BICARBONATE	470.00000	mg/L
03C01	01/15/91	AMMONIA-NITROGEN	0.30000	mg/L
03C01	01/15/91	RDX	0.02000	mg/L
03C01	04/05/91	pH	8.60000	S.U.
03C01	04/05/91	SPECIFIC CONDUCTANCE	764.00000	umho/cm
03C01	04/05/91	CALCIUM	2.70000	mg/L
03C01	04/05/91	MAGNESIUM	1.50000	mg/L
03C01	04/05/91	POTASSIUM	2.00000	mg/L
03C01	04/05/91	BICARBONATE	478.00000	mg/L
03C01	07/10/91	pH	8.79000	S.U.
03C01	07/10/91	SPECIFIC CONDUCTANCE	820.00000	umho/cm
03C01	07/10/91	TOTAL ORGANIC CARBON	1.55000	mg/L
03C01	07/10/91	IRON, TOTAL	0.13500	mg/L
03C01	07/10/91	MANGANESE	0.00300	mg/L
03C01	07/10/91	SODIUM	192.00000	mg/L
03C01	07/10/91	CALCIUM	2.20000	mg/L
03C01	07/10/91	MAGNESIUM	1.60000	mg/L
03C01	07/10/91	POTASSIUM	4.80000	mg/L
03C01	07/10/91	BICARBONATE	562.00000	mg/L
03C01	10/01/91	pH	8.70000	S.U.
03C01	10/01/91	SPECIFIC CONDUCTANCE	751.00000	umho/cm
03C01	10/01/91	SODIUM	217.90000	mg/L
03C01	10/01/91	AMMONIA-NITROGEN	0.31000	mg/L

03C01	10/01/91	BICARBONATE	580.00000	mg/L
03C01	10/01/91	CALCIUM	0.70000	mg/L
03C01	10/01/91	MAGNESIUM	1.30000	mg/L
03C01	10/01/91	POTASSIUM	0.70000	mg/L
03C01	12/31/91	pH	8.90000	S.U.
03C01	12/31/91	SPECIFIC CONDUCTANCE	942.00000	umho/cm
03C01	12/31/91	TOTAL ORGANIC CARBON	1.80000	mg/L
03C01	12/31/91	SODIUM	212.00000	mg/L
03C01	12/31/91	CALCIUM	2.00000	mg/L
03C01	12/31/91	MAGNESIUM	1.40000	mg/L
03C01	12/31/91	POTASSIUM	1.00000	mg/L
03C01	12/31/91	SULFATE	80.00000	mg/L
03C01	12/31/91	CHLORIDE	16.00000	mg/L
03C01	12/31/91	BICARBONATE	508.00000	mg/L
03C01	12/31/91	RDX	0.03000	mg/L
03C02	01/28/88	pH	8.44000	S.U.
03C02	01/28/88	SPECIFIC CONDUCTANCE	773.00000	umho/cm
03C02	01/28/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C02	01/28/88	TOTAL ORGANIC HALOGENS	0.03500	mg/L
03C02	01/28/88	MANGANESE	0.00700	mg/L
03C02	01/28/88	SODIUM	190.00000	mg/L
03C02	01/28/88	SULFATE	80.00000	mg/L
03C02	01/28/88	MERCURY, TOTAL	0.01000	mg/L
03C02	01/28/88	FLUORIDE, TOTAL	0.40000	mg/L
03C02	01/28/88	NITRATE-N	0.07000	mg/L
03C02	01/28/88	RADIUM, TOTAL	0.20000	pCi/l
03C02	01/28/88	GROSS ALPHA	0.00000	pCi/l
03C02	01/28/88	GROSS BETA	0.00000	mlrem/y
03C02	01/28/88	COLIFORM	0.00000	#/100ml
03C02	01/28/88	TRICHLOROETHYLENE	0.01300	mg/L
03C02	04/25/88	pH	8.33000	S.U.
03C02	04/25/88	SPECIFIC CONDUCTANCE	772.00000	umho/cm
03C02	04/25/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C02	04/25/88	SODIUM	214.00000	mg/L
03C02	04/25/88	SULFATE	80.00000	mg/L
03C02	04/25/88	CHLORIDE	2.00000	mg/L
03C02	04/25/88	FLUORIDE, TOTAL	0.72000	mg/L
03C02	04/25/88	NITRATE-N	0.10000	mg/L
03C02	04/25/88	RADIUM, TOTAL	0.20000	mg/L
03C02	04/25/88	GROSS ALPHA	13.00000	mg/L
03C02	04/25/88	GROSS BETA	9.00000	mg/L
03C02	04/25/88	COLIFORM	0.00000	#/100ml
03C02	04/25/88	TRICHLOROETHYLENE	0.00200	mg/L
03C02	11/03/87	pH	7.75000	S.U.
03C02	11/03/87	SPECIFIC CONDUCTANCE	710.00000	umho/cm
03C02	11/03/87	TOTAL ORGANIC CARBON	12.00000	mg/L
03C02	11/03/87	SODIUM	145.00000	mg/L
03C02	11/03/87	SULFATE	80.00000	mg/L
03C02	11/03/87	CHLORIDE	5.00000	mg/L
03C02	11/03/87	CADMIUM, TOTAL	0.03000	mg/L
03C02	11/03/87	FLUORIDE, TOTAL	0.41000	mg/L
03C02	11/03/87	NITRATE-N	0.15000	mg/L
03C02	11/03/87	RADIUM, TOTAL	0.50000	pCi/l
03C02	11/03/87	GROSS ALPHA	9.10000	pCi/l
03C02	11/03/87	GROSS BETA	6.80000	mlrem/y
03C02	10/22/88	pH	7.90000	S.U.
03C02	10/22/88	SPECIFIC CONDUCTANCE	569.00000	umho/cm
03C02	10/22/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02	10/22/88	SODIUM	152.00000	mg/L
03C02	10/22/88	SULFATE	90.00000	mg/L

03C02	10/22/88	CHLORIDE	3.00000	mg/L
03C02	10/22/88	AMMONIA-NITROGEN	1.00000	mg/L
03C02	10/22/88	BICARBONATE	427.00000	mg/L
03C02	10/22/88	CALCIUM	8.00000	mg/L
03C02	10/22/88	MAGNESIUM	3.00000	mg/L
03C02	10/22/88	POTASSIUM	2.00000	mg/L
03C02	10/22/88	FLUORIDE, TOTAL	1.00000	mg/L
03C02	10/22/88	NITRATE-N	0.32000	mg/L
03C02	10/22/88	GROSS BETA	7.00000	pcu/L
03C02	10/22/88	COLIFORM	1.00000	TC/.1L
03C02	07/02/88	pH	8.00000	S.U.
03C02	07/02/88	SPECIFIC CONDUCTANCE	817.00000	umho/cm
03C02	07/02/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C02	07/02/88	SODIUM	124.00000	mg/L
03C02	07/02/88	SULFATE	72.00000	mg/L
03C02	07/02/88	CHLORIDE	6.00000	mg/L
03C02	07/02/88	FLUORIDE, TOTAL	0.72000	mg/L
03C02	07/02/88	RADIUM, TOTAL	0.00000	pcu/L
03C02	07/02/88	GROSS ALPHA	10.00000	pcu/L
03C02	07/02/88	GROSS BETA	7.00000	pcu/L
03C02	07/02/88	COLIFORM	0.00000	TC/.1L
03C02	01/13/89	pH	8.30000	S.U.
03C02	01/13/89	SPECIFIC CONDUCTANCE	654.00000	umho/cm
03C02	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C02	01/13/89	SODIUM	266.00000	mg/L
03C02	01/13/89	SULFATE	125.00000	mg/L
03C02	01/13/89	CHLORIDE	3.00000	mg/L
03C02	01/13/89	AMMONIA-NITROGEN	0.48000	mg/L
03C02	01/13/89	BICARBONATE	580.00000	mg/L
03C02	01/13/89	CALCIUM	8.00000	mg/L
03C02	01/13/89	MAGNESIUM	4.00000	mg/L
03C02	01/13/89	POTASSIUM	1.80000	mg/L
03C02	01/13/89	FLUORIDE, TOTAL	1.00000	mg/L
03C02	01/13/89	COLIFORM	0.00000	TC/.1L
03C02	04/15/89	pH	8.20000	S.U.
03C02	04/15/89	SPECIFIC CONDUCTANCE	680.00000	umho/cm
03C02	04/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02	04/15/89	SODIUM	150.00000	mg/L
03C02	04/15/89	CALCIUM	7.30000	mg/L
03C02	04/15/89	MAGNESIUM	3.00000	mg/L
03C02	04/15/89	POTASSIUM	2.00000	mg/L
03C02	04/15/89	SULFATE	86.00000	mg/L
03C02	04/15/89	CHLORIDE	5.00000	mg/L
03C02	04/15/89	BICARBONATE	333.00000	mg/L
03C02	04/15/89	FLUORIDE, TOTAL	0.60000	mg/L
03C02	04/15/89	NITRATE-N	0.50000	mg/L
03C02	04/15/89	COLIFORM	0.00000	TC/.1L
03C02	07/12/89	pH	8.00000	S.U.
03C02	07/12/89	SPECIFIC CONDUCTANCE	728.00000	umho/cm
03C02	07/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02	07/12/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C02	07/12/89	IRON, TOTAL	0.07000	mg/L
03C02	07/12/89	SODIUM	119.00000	mg/L
03C02	07/12/89	CALCIUM	7.00000	mg/L
03C02	07/12/89	MAGNESIUM	3.00000	mg/L
03C02	07/12/89	POTASSIUM	2.00000	mg/L
03C02	07/12/89	SULFATE	110.00000	mg/L
03C02	07/12/89	CHLORIDE	8.00000	mg/L
03C02	07/12/89	BICARBONATE	400.00000	mg/L
03C02	07/12/89	AMMONIA-NITROGEN	0.23000	mg/L

03C02	07/12/89	FLUORIDE, TOTAL	0.52000	mg/L
03C02	07/12/89	NITRATE-N	0.40000	mg/L
03C02	07/12/89	COLIFORM	0.00000	TC/.1L
03C02	10/22/89	pH	8.70000	S.U.
03C02	10/22/89	SPECIFIC CONDUCTANCE	630.00000	umho/cm
03C02	10/22/89	CALCIUM	7.10000	mg/L
03C02	10/22/89	MAGNESIUM	3.00000	mg/L
03C02	10/22/89	POTASSIUM	1.30000	mg/L
03C02	10/22/89	BICARBONATE	361.00000	mg/L
03C02	10/22/89	AMMONIA-NITROGEN	0.21000	mg/L
03C02	10/22/89	TRICHLOROETHYLENE	0.00200	mg/L
03C02	01/28/90	pH	8.60000	S.U.
03C02	01/28/90	SPECIFIC CONDUCTANCE	614.00000	umho/cm
03C02	01/28/90	TOTAL ORGANIC CARBON	1.40000	mg/L
03C02	01/28/90	SODIUM	147.00000	mg/L
03C02	01/28/90	CALCIUM	9.00000	mg/L
03C02	01/28/90	MAGNESIUM	3.00000	mg/L
03C02	01/28/90	POTASSIUM	1.00000	mg/L
03C02	01/28/90	SULFATE	75.00000	mg/L
03C02	01/28/90	CHLORIDE	7.00000	mg/L
03C02	01/28/90	BICARBONATE	366.00000	mg/L
03C02	01/28/90	AMMONIA-NITROGEN	0.50000	mg/L
03C02	04/18/90	pH	8.30000	S.U.
03C02	04/18/90	SPECIFIC CONDUCTANCE	611.00000	umho/cm
03C02	04/18/90	IRON, TOTAL	0.27000	mg/L
03C02	04/18/90	CALCIUM	17.00000	mg/L
03C02	04/18/90	MAGNESIUM	3.00000	mg/L
03C02	04/18/90	POTASSIUM	1.00000	mg/L
03C02	04/18/90	BICARBONATE	376.00000	mg/L
03C02	07/10/90	pH	8.40000	S.U.
03C02	07/10/90	SPECIFIC CONDUCTANCE	683.00000	umho/cm
03C02	07/10/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C02	07/10/90	IRON, TOTAL	0.11000	mg/L
03C02	07/10/90	SODIUM	161.00000	mg/L
03C02	07/10/90	CALCIUM	8.00000	mg/L
03C02	07/10/90	MAGNESIUM	3.00000	mg/L
03C02	07/10/90	POTASSIUM	1.00000	mg/L
03C02	07/10/90	BICARBONATE	344.00000	mg/L
03C02	07/10/90	AMMONIA-NITROGEN	0.30000	mg/L
03C02	10/19/90	pH	8.20000	S.U.
03C02	10/19/90	SPECIFIC CONDUCTANCE	687.00000	umho/cm
03C02	10/19/90	SODIUM	225.00000	mg/L
03C02	10/19/90	CALCIUM	10.00000	mg/L
03C02	10/19/90	MAGNESIUM	3.00000	mg/L
03C02	10/19/90	AMMONIA-NITROGEN	0.41000	mg/L
03C02	01/12/91	pH	8.62000	S.U.
03C02	01/12/91	SPECIFIC CONDUCTANCE	602.00000	umho/cm
03C02	01/12/91	TOTAL ORGANIC CARBON	0.97000	mg/L
03C02	01/12/91	SODIUM	130.00000	mg/L
03C02	01/12/91	CALCIUM	5.00000	mg/L
03C02	01/12/91	MAGNESIUM	4.00000	mg/L
03C02	01/12/91	POTASSIUM	2.00000	mg/L
03C02	01/12/91	SULFATE	76.00000	mg/L
03C02	01/12/91	CHLORIDE	5.00000	mg/L
03C02	01/12/91	BICARBONATE	360.00000	mg/L
03C02	01/12/91	AMMONIA-NITROGEN	0.30000	mg/L
03C02	04/06/91	pH	8.19000	S.U.
03C02	04/06/91	SPECIFIC CONDUCTANCE	604.00000	umho/cm
03C02	04/06/91	CALCIUM	7.00000	mg/L
03C02	04/06/91	MAGNESIUM	3.10000	mg/L

03C02	04/06/91	POTASSIUM	1.20000	mg/L
03C02	04/06/91	BICARBONATE	353.00000	mg/L
03C02	04/06/91	AMMONIA-NITROGEN	0.32000	mg/L
03C02	07/18/91	pH	8.31000	S.U.
03C02	07/18/91	SPECIFIC CONDUCTANCE	603.00000	umho/cm
03C02	07/18/91	TOTAL ORGANIC CARBON	1.16000	mg/L
03C02	07/18/91	MANGANESE	0.01600	mg/L
03C02	07/18/91	SODIUM	136.10000	mg/L
03C02	07/18/91	CALCIUM	5.90000	mg/L
03C02	07/18/91	MAGNESIUM	2.70000	mg/L
03C02	07/18/91	POTASSIUM	1.30000	mg/L
03C02	07/18/91	BICARBONATE	454.00000	mg/L
03C02	07/18/91	AMMONIA-NITROGEN	0.25000	mg/L
03C02	10/03/91	pH	8.20000	S.U.
03C02	10/03/91	SPECIFIC CONDUCTANCE	584.00000	umho/cm
03C02	10/03/91	SODIUM	130.20000	mg/L
03C02	10/03/91	AMMONIA-NITROGEN	0.22000	mg/L
03C02	10/03/91	BICARBONATE	354.00000	mg/L
03C02	10/03/91	CALCIUM	6.50000	mg/L
03C02	10/03/91	MAGNESIUM	3.00000	mg/L
03C02	10/03/91	POTASSIUM	2.60000	mg/L
03C02	01/07/92	pH	8.70000	S.U.
03C02	01/07/92	SPECIFIC CONDUCTANCE	587.00000	umho/cm
03C02	01/07/92	TOTAL ORGANIC CARBON	1.45000	mg/L
03C02	01/07/92	SODIUM	139.00000	mg/L
03C02	01/07/92	CALCIUM	7.10000	mg/L
03C02	01/07/92	MAGNESIUM	3.00000	mg/L
03C02	01/07/92	POTASSIUM	1.30000	mg/L
03C02	01/07/92	SULFATE	70.00000	mg/L
03C02	01/07/92	CHLORIDE	7.00000	mg/L
03C02	01/07/92	BICARBONATE	329.00000	mg/L
03C02	01/07/92	AMMONIA-NITROGEN	0.30000	mg/L
03C03	02/04/88	pH	9.60000	S.U.
03C03	02/04/88	SPECIFIC CONDUCTANCE	1017.00000	umho/cm
03C03	02/04/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C03	02/04/88	SODIUM	250.00000	mg/L
03C03	02/04/88	SULFATE	126.00000	mg/L
03C03	02/04/88	CHLORIDE	8.00000	mg/L
03C03	02/04/88	CADMIUM, TOTAL	0.03000	mg/L
03C03	02/04/88	FLUORIDE, TOTAL	0.90000	mg/L
03C03	02/04/88	NITRATE-N	0.11000	mg/L
03C03	02/04/88	RADIUM, TOTAL	0.10000	pCi/l
03C03	02/04/88	GROSS ALPHA	3.50000	pCi/l
03C03	02/04/88	GROSS BETA	16.00000	mlrem/y
03C03	02/04/88	COLIFORM	0.00000	#/100ml
03C03	04/25/88	pH	9.40000	S.U.
03C03	04/25/88	SPECIFIC CONDUCTANCE	1083.00000	umho/cm
03C03	04/25/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C03	04/25/88	IRON, TOTAL	0.05000	mg/L
03C03	04/25/88	SODIUM	274.00000	mg/L
03C03	04/25/88	SULFATE	61.00000	mg/L
03C03	04/25/88	CHLORIDE	2.00000	mg/L
03C03	04/25/88	FLUORIDE, TOTAL	1.00000	mg/L
03C03	04/25/88	RADIUM, TOTAL	0.00000	mg/L
03C03	04/25/88	GROSS ALPHA	5.60000	mg/L
03C03	04/25/88	GROSS BETA	10.00000	mg/L
03C03	04/25/88	COLIFORM	0.00000	#/100ml
03C03	10/27/87	pH	9.74000	S.U.
03C03	10/27/87	SPECIFIC CONDUCTANCE	1015.00000	umho/cm
03C03	10/27/87	TOTAL ORGANIC CARBON	6.00000	mg/L

03C03	10/27/87	SODIUM	168.00000	mg/L
03C03	10/27/87	SULFATE	115.00000	mg/L
03C03	10/27/87	CHLORIDE	8.00000	mg/L
03C03	10/27/87	CADMIUM, TOTAL	0.09000	mg/L
03C03	10/27/87	FLUORIDE, TOTAL	1.10000	mg/L
03C03	10/27/87	RADIUM, TOTAL	0.10000	pCi/l
03C03	10/27/87	GROSS ALPHA	6.00000	pCi/l
03C03	10/27/87	GROSS BETA	17.00000	mlrem/y
03C03	10/27/87	CHLOROFORM	0.00200	mg/L
03C03	10/27/87	1,1,1-TRICHLOROETHANE	0.00600	mg/L
03C03	10/27/87	BENZENE	0.00500	mg/L
03C03	10/24/88	pH	8.90000	S.U.
03C03	10/24/88	SPECIFIC CONDUCTANCE	750.00000	umho/cm
03C03	10/24/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C03	10/24/88	MANGANESE	0.07000	mg/L
03C03	10/24/88	SODIUM	12.00000	mg/L
03C03	10/24/88	SULFATE	80.00000	mg/L
03C03	10/24/88	CHLORIDE	2.00000	mg/L
03C03	10/24/88	AMMONIA-NITROGEN	0.52000	mg/L
03C03	10/24/88	BICARBONATE	653.00000	mg/L
03C03	10/24/88	CALCIUM	1.00000	mg/L
03C03	10/24/88	MAGNESIUM	0.70000	mg/L
03C03	10/24/88	POTASSIUM	4.00000	mg/L
03C03	10/24/88	FLUORIDE, TOTAL	1.10000	mg/L
03C03	10/24/88	NITRATE-N	0.67000	mg/L
03C03	10/24/88	GROSS BETA	16.00000	pcu/L
03C03	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.08000	mg/L
03C03	08/01/88	pH	9.30000	S.U.
03C03	08/01/88	SPECIFIC CONDUCTANCE	941.00000	umho/cm
03C03	08/01/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C03	08/01/88	SODIUM	292.00000	mg/L
03C03	08/01/88	SULFATE	63.00000	mg/L
03C03	08/01/88	CHLORIDE	6.00000	mg/L
03C03	08/01/88	FLUORIDE, TOTAL	1.20000	mg/L
03C03	08/01/88	NITRATE-N	1.10000	mg/L
03C03	08/01/88	RADIUM, TOTAL	0.00000	pcu/L
03C03	08/01/88	GROSS ALPHA	5.50000	pcu/L
03C03	08/01/88	GROSS BETA	10.00000	pcu/L
03C03	08/01/88	COLIFORM	0.00000	TC/.1L
03C03	01/15/89	pH	9.20000	S.U.
03C03	01/15/89	SPECIFIC CONDUCTANCE	916.00000	umho/cm
03C03	01/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C03	01/15/89	SODIUM	280.00000	mg/L
03C03	01/15/89	SULFATE	110.00000	mg/L
03C03	01/15/89	CHLORIDE	4.00000	mg/L
03C03	01/15/89	AMMONIA-NITROGEN	0.50000	mg/L
03C03	01/15/89	BICARBONATE	866.00000	mg/L
03C03	01/15/89	CALCIUM	1.60000	mg/L
03C03	01/15/89	MAGNESIUM	0.50000	mg/L
03C03	01/15/89	POTASSIUM	3.60000	mg/L
03C03	01/15/89	FLUORIDE, TOTAL	1.20000	mg/L
03C03	01/15/89	COLIFORM	0.00000	TC/.1L
03C03	04/17/89	pH	9.30000	S.U.
03C03	04/17/89	SPECIFIC CONDUCTANCE	896.00000	umho/cm
03C03	04/17/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C03	04/17/89	SODIUM	230.00000	mg/L
03C03	04/17/89	CALCIUM	1.23000	mg/L
03C03	04/17/89	MAGNESIUM	0.51000	mg/L
03C03	04/17/89	POTASSIUM	4.00000	mg/L
03C03	04/17/89	SULFATE	84.00000	mg/L

03C03	04/17/89	CHLORIDE	6.00000	mg/L
03C03	04/17/89	BICARBONATE	490.00000	mg/L
03C03	04/17/89	AMMONIA-NITROGEN	0.25000	mg/L
03C03	04/17/89	FLUORIDE, TOTAL	1.05000	mg/L
03C03	04/17/89	COLIFORM	0.00000	TC/.1L
03C03	07/11/89	pH	9.20000	S.U.
03C03	07/11/89	SPECIFIC CONDUCTANCE	909.00000	umho/cm
03C03	07/11/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C03	07/11/89	IRON, TOTAL	0.06000	mg/L
03C03	07/11/89	SODIUM	219.00000	mg/L
03C03	07/11/89	CALCIUM	1.20000	mg/L
03C03	07/11/89	MAGNESIUM	0.50000	mg/L
03C03	07/11/89	POTASSIUM	2.00000	mg/L
03C03	07/11/89	SULFATE	64.00000	mg/L
03C03	07/11/89	CHLORIDE	16.00000	mg/L
03C03	07/11/89	BICARBONATE	508.00000	mg/L
03C03	07/11/89	AMMONIA-NITROGEN	0.23000	mg/L
03C03	07/11/89	FLUORIDE, TOTAL	2.20000	mg/L
03C03	07/11/89	COLIFORM	0.00000	TC/.1L
03C03	10/23/89	pH	9.60000	S.U.
03C03	10/23/89	SPECIFIC CONDUCTANCE	832.00000	umho/cm
03C03	10/23/89	CALCIUM	1.30000	mg/L
03C03	10/23/89	MAGNESIUM	1.00000	mg/L
03C03	10/23/89	POTASSIUM	2.00000	mg/L
03C03	10/23/89	BICARBONATE	488.00000	mg/L
03C03	10/23/89	AMMONIA-NITROGEN	0.31000	mg/L
03C03	01/28/90	pH	9.90000	S.U.
03C03	01/28/90	SPECIFIC CONDUCTANCE	806.00000	umho/cm
03C03	01/28/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C03	01/28/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C03	01/28/90	SODIUM	209.00000	mg/L
03C03	01/28/90	CALCIUM	2.00000	mg/L
03C03	01/28/90	MAGNESIUM	1.00000	mg/L
03C03	01/28/90	POTASSIUM	3.00000	mg/L
03C03	01/28/90	SULFATE	42.00000	mg/L
03C03	01/28/90	CHLORIDE	12.00000	mg/L
03C03	01/28/90	BICARBONATE	427.00000	mg/L
03C03	01/28/90	AMMONIA-NITROGEN	0.70000	mg/L
03C03	04/19/90	pH	9.50000	S.U.
03C03	04/19/90	SPECIFIC CONDUCTANCE	801.00000	umho/cm
03C03	04/19/90	CALCIUM	1.00000	mg/L
03C03	04/19/90	MAGNESIUM	1.00000	mg/L
03C03	04/19/90	POTASSIUM	2.00000	mg/L
03C03	04/19/90	BICARBONATE	441.00000	mg/L
03C03	07/10/90	pH	9.10000	S.U.
03C03	07/10/90	SPECIFIC CONDUCTANCE	889.00000	umho/cm
03C03	07/10/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C03	07/10/90	SODIUM	160.00000	mg/L
03C03	07/10/90	CALCIUM	1.00000	mg/L
03C03	07/10/90	MAGNESIUM	1.00000	mg/L
03C03	07/10/90	POTASSIUM	2.00000	mg/L
03C03	07/10/90	BICARBONATE	484.00000	mg/L
03C03	07/10/90	AMMONIA-NITROGEN	0.20000	mg/L
03C03	10/18/90	pH	9.20000	S.U.
03C03	10/18/90	SPECIFIC CONDUCTANCE	840.00000	umho/cm
03C03	10/18/90	SODIUM	357.00000	mg/L
03C03	10/18/90	CALCIUM	1.00000	mg/L
03C03	10/18/90	POTASSIUM	1.00000	mg/L
03C03	10/18/90	AMMONIA-NITROGEN	0.33000	mg/L
03C03	01/18/91	pH	9.44000	S.U.

03C03	01/18/91	SPECIFIC CONDUCTANCE	820.00000	umho/cm
03C03	01/18/91	TOTAL ORGANIC CARBON	1.14000	mg/L
03C03	01/18/91	TOTAL ORGANIC HALOGENS	0.01200	mg/L
03C03	01/18/91	IRON, TOTAL	0.10000	mg/L
03C03	01/18/91	MANGANESE	0.01000	mg/L
03C03	01/18/91	SODIUM	181.00000	mg/L
03C03	01/18/91	CALCIUM	1.00000	mg/L
03C03	01/18/91	POTASSIUM	2.00000	mg/L
03C03	01/18/91	SULFATE	78.00000	mg/L
03C03	01/18/91	CHLORIDE	8.00000	mg/L
03C03	01/18/91	BICARBONATE	481.00000	mg/L
03C03	01/18/91	AMMONIA-NITROGEN	0.10000	mg/L
03C03	04/09/91	pH	9.18000	S.U.
03C03	04/09/91	SPECIFIC CONDUCTANCE	810.00000	umho/cm
03C03	04/09/91	CALCIUM	1.10000	mg/L
03C03	04/09/91	MAGNESIUM	0.50000	mg/L
03C03	04/09/91	POTASSIUM	1.30000	mg/L
03C03	04/09/91	BICARBONATE	502.00000	mg/L
03C03	04/09/91	AMMONIA-NITROGEN	0.30000	mg/L
03C03	07/17/91	pH	9.22000	S.U.
03C03	07/17/91	SPECIFIC CONDUCTANCE	824.00000	umho/cm
03C03	07/17/91	TOTAL ORGANIC CARBON	1.37000	mg/L
03C03	07/17/91	MANGANESE	0.00300	mg/L
03C03	07/17/91	SODIUM	186.60000	mg/L
03C03	07/17/91	CALCIUM	1.50000	mg/L
03C03	07/17/91	MAGNESIUM	0.70000	mg/L
03C03	07/17/91	POTASSIUM	2.10000	mg/L
03C03	07/17/91	BICARBONATE	538.00000	mg/L
03C03	07/17/91	AMMONIA-NITROGEN	0.22000	mg/L
03C03	10/05/91	pH	9.20000	S.U.
03C03	10/05/91	SPECIFIC CONDUCTANCE	767.00000	umho/cm
03C03	10/05/91	SODIUM	208.00000	mg/L
03C03	10/05/91	AMMONIA-NITROGEN	0.41000	mg/L
03C03	10/05/91	BICARBONATE	531.00000	mg/L
03C03	10/05/91	CALCIUM	0.25000	mg/L
03C03	10/05/91	MAGNESIUM	0.40000	mg/L
03C03	10/05/91	POTASSIUM	0.60000	mg/L
03C03	01/09/92	pH	8.90000	S.U.
03C03	01/09/92	SPECIFIC CONDUCTANCE	830.00000	umho/cm
03C03	01/09/92	TOTAL ORGANIC CARBON	1.62000	mg/L
03C03	01/09/92	SODIUM	206.60000	mg/L
03C03	01/09/92	CALCIUM	1.10000	mg/L
03C03	01/09/92	MAGNESIUM	0.50000	mg/L
03C03	01/09/92	POTASSIUM	3.00000	mg/L
03C03	01/09/92	SULFATE	60.00000	mg/L
03C03	01/09/92	CHLORIDE	4.00000	mg/L
03C03	01/09/92	BICARBONATE	478.00000	mg/L
03C03	01/09/92	AMMONIA-NITROGEN	0.21000	mg/L
03C03	01/09/92	TRICHLOROETHYLENE	0.00400	mg/L
03C08A	02/07/88	pH	9.52000	S.U.
03C08A	02/07/88	SPECIFIC CONDUCTANCE	1022.00000	umho/cm
03C08A	02/07/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C08A	02/07/88	SODIUM	250.00000	mg/L
03C08A	02/07/88	SULFATE	56.00000	mg/L
03C08A	02/07/88	CHLORIDE	3.00000	mg/L
03C08A	02/07/88	FLUORIDE, TOTAL	1.50000	mg/L
03C08A	02/07/88	NITRATE-N	0.17000	mg/L
03C08A	02/07/88	RADIUM, TOTAL	0.00000	pCi/l
03C08A	02/07/88	GROSS ALPHA	9.00000	pCi/l
03C08A	02/07/88	GROSS BETA	0.00000	mlrem/y

03C08A	02/07/88	COLIFORM	0.00000	#/100ml
03C08A	02/07/88	TRICHLOROETHYLENE	0.00400	mg/L
03C08A	04/26/88	pH	9.35000	S.U.
03C08A	04/26/88	SPECIFIC CONDUCTANCE	981.00000	umho/cm
03C08A	04/26/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C08A	04/26/88	IRON, TOTAL	0.02000	mg/L
03C08A	04/26/88	SODIUM	270.00000	mg/L
03C08A	04/26/88	SULFATE	61.00000	mg/L
03C08A	04/26/88	CHLORIDE	2.00000	mg/L
03C08A	04/26/88	FLUORIDE, TOTAL	1.00000	mg/L
03C08A	04/26/88	RADIUM, TOTAL	0.10000	mg/L
03C08A	04/26/88	GROSS ALPHA	7.80000	mg/L
03C08A	04/26/88	GROSS BETA	6.40000	mg/L
03C08A	04/26/88	COLIFORM	0.00000	#/100ml
03C08A	04/26/88	TRICHLOROETHYLENE	0.00300	mg/L
03C08A	11/10/87	pH	9.39000	S.U.
03C08A	11/10/87	SPECIFIC CONDUCTANCE	929.00000	umho/cm
03C08A	11/10/87	TOTAL ORGANIC CARBON	21.00000	mg/L
03C08A	11/10/87	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C08A	11/10/87	IRON, TOTAL	0.36000	mg/L
03C08A	11/10/87	SODIUM	240.00000	mg/L
03C08A	11/10/87	SULFATE	90.00000	mg/L
03C08A	11/10/87	CHLORIDE	8.00000	mg/L
03C08A	11/10/87	FLUORIDE, TOTAL	1.20000	mg/L
03C08A	11/10/87	NITRATE-N	0.16000	mg/L
03C08A	11/10/87	RADIUM, TOTAL	0.40000	pCi/l
03C08A	11/10/87	GROSS ALPHA	0.00000	pCi/l
03C08A	11/10/87	GROSS BETA	1.50000	mlrem/y
03C08A	11/10/87	BENZENE	0.02500	mg/L
03C08A	10/26/88	pH	9.00000	S.U.
03C08A	10/26/88	SPECIFIC CONDUCTANCE	736.00000	umho/cm
03C08A	10/26/88	TOTAL ORGANIC CARBON	9.00000	mg/L
03C08A	10/26/88	SODIUM	41.00000	mg/L
03C08A	10/26/88	SULFATE	76.00000	mg/L
03C08A	10/26/88	CHLORIDE	2.00000	mg/L
03C08A	10/26/88	BICARBONATE	152.00000	mg/L
03C08A	10/26/88	CALCIUM	1.02000	mg/L
03C08A	10/26/88	MAGNESIUM	0.49000	mg/L
03C08A	10/26/88	POTASSIUM	2.00000	mg/L
03C08A	10/26/88	FLUORIDE, TOTAL	1.20000	mg/L
03C08A	10/26/88	GROSS BETA	2.00000	pcu/L
03C08A	10/26/88	COLIFORM	0.00000	TC/.1L
03C08A	07/26/88	pH	8.90000	S.U.
03C08A	07/26/88	SPECIFIC CONDUCTANCE	1010.00000	umho/cm
03C08A	07/26/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C08A	07/26/88	SODIUM	202.00000	mg/L
03C08A	07/26/88	SULFATE	66.00000	mg/L
03C08A	07/26/88	CHLORIDE	8.00000	mg/L
03C08A	07/26/88	FLUORIDE, TOTAL	1.10000	mg/L
03C08A	07/26/88	RADIUM, TOTAL	0.00000	pcu/L
03C08A	07/26/88	GROSS ALPHA	5.10000	pcu/L
03C08A	07/26/88	GROSS BETA	6.20000	pcu/L
03C08A	07/26/88	COLIFORM	0.00000	TC/.1L
03C08A	07/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.05000	mg/L
03C08A	01/12/89	pH	9.20000	S.U.
03C08A	01/12/89	SPECIFIC CONDUCTANCE	872.00000	umho/cm
03C08A	01/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C08A	01/12/89	SODIUM	309.00000	mg/L
03C08A	01/12/89	SULFATE	115.00000	mg/L
03C08A	01/12/89	CHLORIDE	2.00000	mg/L

03C08A	01/12/89	AMMONIA-NITROGEN	0.36000	mg/L
03C08A	01/12/89	BICARBONATE	982.00000	mg/L
03C08A	01/12/89	CALCIUM	1.06000	mg/L
03C08A	01/12/89	MAGNESIUM	0.72000	mg/L
03C08A	01/12/89	POTASSIUM	1.20000	mg/L
03C08A	01/12/89	FLUORIDE, TOTAL	1.20000	mg/L
03C08A	01/12/89	COLIFORM	0.00000	TC/.1L
03C08A	01/12/89	TRICHLOROETHYLENE	0.01000	mg/L
03C08A	04/16/89	pH	9.00000	S.U.
03C08A	04/16/89	SPECIFIC CONDUCTANCE	892.00000	umho/cm
03C08A	04/16/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C08A	04/16/89	SODIUM	200.00000	mg/L
03C08A	04/16/89	CALCIUM	0.96000	mg/L
03C08A	04/16/89	MAGNESIUM	0.43000	mg/L
03C08A	04/16/89	POTASSIUM	1.00000	mg/L
03C08A	04/16/89	SULFATE	225.00000	mg/L
03C08A	04/16/89	CHLORIDE	9.00000	mg/L
03C08A	04/16/89	BICARBONATE	441.00000	mg/L
03C08A	04/16/89	AMMONIA-NITROGEN	0.20000	mg/L
03C08A	04/16/89	FLUORIDE, TOTAL	1.05000	mg/L
03C08A	04/16/89	NITRATE-N	0.24000	mg/L
03C08A	04/16/89	COLIFORM	0.00000	TC/.1L
03C08A	04/16/89	TRICHLOROETHYLENE	0.00300	mg/L
03C08A	07/16/89	pH	9.20000	S.U.
03C08A	07/16/89	SPECIFIC CONDUCTANCE	912.00000	umho/cm
03C08A	07/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C08A	07/16/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C08A	07/16/89	SODIUM	156.00000	mg/L
03C08A	07/16/89	CALCIUM	0.90000	mg/L
03C08A	07/16/89	MAGNESIUM	0.40000	mg/L
03C08A	07/16/89	POTASSIUM	1.00000	mg/L
03C08A	07/16/89	SULFATE	74.00000	mg/L
03C08A	07/16/89	CHLORIDE	9.00000	mg/L
03C08A	07/16/89	BICARBONATE	449.00000	mg/L
03C08A	07/16/89	AMMONIA-NITROGEN	0.23000	mg/L
03C08A	07/16/89	FLUORIDE, TOTAL	1.00000	mg/L
03C08A	07/16/89	COLIFORM	0.00000	TC/.1L
03C08A	10/21/89	pH	9.70000	S.U.
03C08A	10/21/89	SPECIFIC CONDUCTANCE	815.00000	umho/cm
03C08A	10/21/89	CALCIUM	1.30000	mg/L
03C08A	10/21/89	MAGNESIUM	1.00000	mg/L
03C08A	10/21/89	POTASSIUM	0.80000	mg/L
03C08A	10/21/89	BICARBONATE	439.00000	mg/L
03C08A	10/21/89	AMMONIA-NITROGEN	0.22000	mg/L
03C08A	10/21/89	TRICHLOROETHYLENE	0.00300	mg/L
03C08A	01/31/90	pH	9.80000	S.U.
03C08A	01/31/90	SPECIFIC CONDUCTANCE	845.00000	umho/cm
03C08A	01/31/90	TOTAL ORGANIC CARBON	1.40000	mg/L
03C08A	01/31/90	SODIUM	152.00000	mg/L
03C08A	01/31/90	CALCIUM	1.00000	mg/L
03C08A	01/31/90	MAGNESIUM	1.00000	mg/L
03C08A	01/31/90	POTASSIUM	1.00000	mg/L
03C08A	01/31/90	SULFATE	44.00000	mg/L
03C08A	01/31/90	CHLORIDE	8.00000	mg/L
03C08A	01/31/90	BICARBONATE	488.00000	mg/L
03C08A	01/31/90	AMMONIA-NITROGEN	0.10000	mg/L
03C08A	04/20/90	pH	9.40000	S.U.
03C08A	04/20/90	SPECIFIC CONDUCTANCE	791.00000	umho/cm
03C08A	04/20/90	CALCIUM	1.00000	mg/L
03C08A	04/20/90	MAGNESIUM	1.00000	mg/L

03C08A	04/20/90	POTASSIUM	1.00000	mg/L
03C08A	04/20/90	BICARBONATE	565.00000	mg/L
03C08A	07/13/90	pH	9.70000	S.U.
03C08A	07/13/90	SPECIFIC CONDUCTANCE	863.00000	umho/cm
03C08A	07/13/90	TOTAL ORGANIC CARBON	2.30000	mg/L
03C08A	07/13/90	SODIUM	195.00000	mg/L
03C08A	07/13/90	CALCIUM	1.00000	mg/L
03C08A	07/13/90	MAGNESIUM	1.00000	mg/L
03C08A	07/13/90	POTASSIUM	1.00000	mg/L
03C08A	07/13/90	BICARBONATE	454.00000	mg/L
03C08A	07/13/90	AMMONIA-NITROGEN	0.36000	mg/L
03C08A	10/20/90	pH	9.10000	S.U.
03C08A	10/20/90	SPECIFIC CONDUCTANCE	881.00000	umho/cm
03C08A	10/20/90	SODIUM	330.00000	mg/L
03C08A	10/20/90	CALCIUM	1.00000	mg/L
03C08A	10/20/90	AMMONIA-NITROGEN	0.35000	mg/L
03C08A	01/12/91	pH	9.59000	S.U.
03C08A	01/12/91	SPECIFIC CONDUCTANCE	772.00000	umho/cm
03C08A	01/12/91	TOTAL ORGANIC CARBON	4.60000	mg/L
03C08A	01/12/91	SODIUM	21.00000	mg/L
03C08A	01/12/91	POTASSIUM	1.00000	mg/L
03C08A	01/12/91	SULFATE	74.00000	mg/L
03C08A	01/12/91	CHLORIDE	8.00000	mg/L
03C08A	01/12/91	BICARBONATE	500.00000	mg/L
03C08A	01/12/91	AMMONIA-NITROGEN	0.54000	mg/L
03C08A	04/06/91	pH	9.15000	S.U.
03C08A	04/06/91	SPECIFIC CONDUCTANCE	795.00000	umho/cm
03C08A	04/06/91	CALCIUM	2.40000	mg/L
03C08A	04/06/91	MAGNESIUM	1.30000	mg/L
03C08A	04/06/91	POTASSIUM	0.70000	mg/L
03C08A	04/06/91	BICARBONATE	496.00000	mg/L
03C08A	04/06/91	AMMONIA-NITROGEN	1.02000	mg/L
03C08A	07/17/91	pH	9.24000	S.U.
03C08A	07/17/91	SPECIFIC CONDUCTANCE	775.00000	umho/cm
03C08A	07/17/91	TOTAL ORGANIC CARBON	2.32000	mg/L
03C08A	07/17/91	MANGANESE	0.00400	mg/L
03C08A	07/17/91	SODIUM	215.00000	mg/L
03C08A	07/17/91	CALCIUM	1.20000	mg/L
03C08A	07/17/91	MAGNESIUM	1.10000	mg/L
03C08A	07/17/91	POTASSIUM	2.10000	mg/L
03C08A	07/17/91	BICARBONATE	526.00000	mg/L
03C08A	07/17/91	AMMONIA-NITROGEN	0.20000	mg/L
03C08A	10/01/91	pH	9.20000	S.U.
03C08A	10/01/91	SPECIFIC CONDUCTANCE	747.00000	umho/cm
03C08A	10/01/91	SODIUM	177.50000	mg/L
03C08A	10/01/91	AMMONIA-NITROGEN	0.31000	mg/L
03C08A	10/01/91	BICARBONATE	530.00000	mg/L
03C08A	10/01/91	CALCIUM	0.40000	mg/L
03C08A	10/01/91	MAGNESIUM	0.30000	mg/L
03C08A	10/01/91	POTASSIUM	2.10000	mg/L
03C08A	01/04/92	pH	8.50000	S.U.
03C08A	01/04/92	SPECIFIC CONDUCTANCE	744.00000	umho/cm
03C08A	01/04/92	TOTAL ORGANIC CARBON	1.19000	mg/L
03C08A	01/04/92	SODIUM	200.70000	mg/L
03C08A	01/04/92	CALCIUM	1.55000	mg/L
03C08A	01/04/92	MAGNESIUM	0.50000	mg/L
03C08A	01/04/92	SULFATE	77.00000	mg/L
03C08A	01/04/92	CHLORIDE	7.00000	mg/L
03C08A	01/04/92	BICARBONATE	478.00000	mg/L
03C08A	01/04/92	AMMONIA-NITROGEN	0.28000	mg/L

03C09	02/03/88	pH	9.49000	S.U.
03C09	02/03/88	SPECIFIC CONDUCTANCE	1056.00000	umho/cm
03C09	02/03/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C09	02/03/88	SODIUM	270.00000	mg/L
03C09	02/03/88	SULFATE	66.00000	mg/L
03C09	02/03/88	CHLORIDE	3.00000	mg/L
03C09	02/03/88	MERCURY, TOTAL	0.01400	mg/L
03C09	02/03/88	FLUORIDE, TOTAL	1.50000	mg/L
03C09	02/03/88	NITRATE-N	0.07000	mg/L
03C09	02/03/88	RADIUM, TOTAL	0.10000	pCi/l
03C09	02/03/88	GROSS ALPHA	0.00000	pCi/l
03C09	02/03/88	GROSS BETA	2.10000	mlrem/y
03C09	02/03/88	COLIFORM	0.00000	#/100ml
03C09	02/03/88	TRICHLOROETHYLENE	0.02000	mg/L
03C09	04/24/88	pH	9.26000	S.U.
03C09	04/24/88	SPECIFIC CONDUCTANCE	1063.00000	umho/cm
03C09	04/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C09	04/24/88	SODIUM	2600.00000	mg/L
03C09	04/24/88	SULFATE	55.00000	mg/L
03C09	04/24/88	CHLORIDE	2.00000	mg/L
03C09	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C09	04/24/88	GROSS ALPHA	3.50000	mg/L
03C09	04/24/88	GROSS BETA	4.30000	mg/L
03C09	04/24/88	COLIFORM	0.00000	#/100ml
03C09	10/30/87	pH	9.34000	S.U.
03C09	10/30/87	SPECIFIC CONDUCTANCE	1007.00000	umho/cm
03C09	10/30/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03C09	10/30/87	IRON, TOTAL	0.60000	mg/L
03C09	10/30/87	SODIUM	260.00000	mg/L
03C09	10/30/87	SULFATE	100.00000	mg/L
03C09	10/30/87	CHLORIDE	12.00000	mg/L
03C09	10/30/87	FLUORIDE, TOTAL	1.20000	mg/L
03C09	10/30/87	NITRATE-N	0.20000	mg/L
03C09	10/30/87	RADIUM, TOTAL	0.40000	pCi/l
03C09	10/30/87	GROSS ALPHA	0.00000	pCi/l
03C09	10/30/87	GROSS BETA	5.60000	mlrem/y
03C09	10/26/88	pH	9.20000	S.U.
03C09	10/26/88	SPECIFIC CONDUCTANCE	821.00000	umho/cm
03C09	10/26/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C09	10/26/88	SODIUM	227.00000	mg/L
03C09	10/26/88	SULFATE	80.00000	mg/L
03C09	10/26/88	CHLORIDE	3.00000	mg/L
03C09	10/26/88	AMMONIA-NITROGEN	0.52000	mg/L
03C09	10/26/88	BICARBONATE	408.00000	mg/L
03C09	10/26/88	CALCIUM	0.72000	mg/L
03C09	10/26/88	MAGNESIUM	0.40000	mg/L
03C09	10/26/88	POTASSIUM	2.00000	mg/L
03C09	10/26/88	FLUORIDE, TOTAL	0.14000	mg/L
03C09	10/26/88	GROSS BETA	26.00000	pcu/L
03C09	10/26/88	COLIFORM	0.00000	TC/.1L
03C09	10/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C09	10/20/88	FLUORIDE, TOTAL	0.14000	mg/L
03C09	10/20/88	GROSS BETA	26.00000	pcu/L
03C09	10/20/88	COLIFORM	0.00000	TC/.1L
03C09	10/20/88	CHLORIDE	3.00000	mg/L
03C09	10/20/88	SODIUM	227.00000	mg/L
03C09	10/20/88	SULFATE	80.00000	mg/L
03C09	10/20/88	pH	9.20000	S.U.
03C09	10/20/88	SPECIFIC CONDUCTANCE	821.00000	umho/cm
03C09	10/20/88	TOTAL ORGANIC CARBON	3.00000	mg/L

03C09	08/01/88	pH	9.30000	S.U.
03C09	08/01/88	SPECIFIC CONDUCTANCE	1090.00000	umho/cm
03C09	08/01/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C09	08/01/88	IRON, TOTAL	0.09000	mg/L
03C09	08/01/88	SODIUM	356.00000	mg/L
03C09	08/01/88	SULFATE	49.00000	mg/L
03C09	08/01/88	CHLORIDE	6.00000	mg/L
03C09	08/01/88	BARIUM, TOTAL	0.05600	mg/L
03C09	08/01/88	FLUORIDE, TOTAL	1.20000	mg/L
03C09	08/01/88	RADIUM, TOTAL	0.10000	pcu/L
03C09	08/01/88	GROSS ALPHA	3.60000	pcu/L
03C09	08/01/88	GROSS BETA	47.00000	pcu/L
03C09	08/01/88	COLIFORM	0.00000	TC/.1L
03C09	08/01/88	TRICHLOROETHYLENE	0.01000	mg/L
03C09	01/13/89	pH	9.40000	S.U.
03C09	01/13/89	SPECIFIC CONDUCTANCE	932.00000	umho/cm
03C09	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C09	01/13/89	SODIUM	319.00000	mg/L
03C09	01/13/89	SULFATE	90.00000	mg/L
03C09	01/13/89	CHLORIDE	4.00000	mg/L
03C09	01/13/89	AMMONIA-NITROGEN	0.34000	mg/L
03C09	01/13/89	BICARBONATE	884.00000	mg/L
03C09	01/13/89	CALCIUM	1.20000	mg/L
03C09	01/13/89	MAGNESIUM	0.50000	mg/L
03C09	01/13/89	POTASSIUM	1.90000	mg/L
03C09	01/13/89	BARIUM, TOTAL	0.05000	mg/L
03C09	01/13/89	FLUORIDE, TOTAL	0.50000	mg/L
03C09	01/13/89	COLIFORM	0.00000	TC/.1L
03C09	01/13/89	TRICHLOROETHYLENE	0.01000	mg/L
03C09	04/16/89	pH	9.30000	S.U.
03C09	04/16/89	SPECIFIC CONDUCTANCE	967.00000	umho/cm
03C09	04/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C09	04/16/89	SODIUM	272.00000	mg/L
03C09	04/16/89	CALCIUM	1.00000	mg/L
03C09	04/16/89	MAGNESIUM	0.47000	mg/L
03C09	04/16/89	POTASSIUM	2.00000	mg/L
03C09	04/16/89	SULFATE	82.00000	mg/L
03C09	04/16/89	CHLORIDE	6.00000	mg/L
03C09	04/16/89	BICARBONATE	608.00000	mg/L
03C09	04/16/89	AMMONIA-NITROGEN	0.25000	mg/L
03C09	04/16/89	BARIUM, TOTAL	0.05000	mg/L
03C09	04/16/89	FLUORIDE, TOTAL	1.05000	mg/L
03C09	04/16/89	NITRATE-N	0.24000	mg/L
03C09	04/16/89	COLIFORM	0.00000	TC/.1L
03C09	04/16/89	TRICHLOROETHYLENE	0.00200	mg/L
03C09	04/16/89	BIS(2-ETHYLHEXYL)PHTHALATE	0.01100	mg/L
03C09	07/12/89	pH	9.60000	S.U.
03C09	07/12/89	SPECIFIC CONDUCTANCE	1038.00000	umho/cm
03C09	07/12/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C09	07/12/89	SODIUM	227.00000	mg/L
03C09	07/12/89	CALCIUM	0.80000	mg/L
03C09	07/12/89	MAGNESIUM	0.40000	mg/L
03C09	07/12/89	POTASSIUM	1.50000	mg/L
03C09	07/12/89	SULFATE	60.00000	mg/L
03C09	07/12/89	CHLORIDE	8.00000	mg/L
03C09	07/12/89	BICARBONATE	507.00000	mg/L
03C09	07/12/89	AMMONIA-NITROGEN	0.35000	mg/L
03C09	07/12/89	BARIUM, TOTAL	0.05000	mg/L
03C09	07/12/89	FLUORIDE, TOTAL	1.50000	mg/L
03C09	07/12/89	COLIFORM	0.00000	TC/.1L

03C09	07/12/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C09	10/21/89	pH	9.70000	S.U.
03C09	10/21/89	SPECIFIC CONDUCTANCE	896.00000	umho/cm
03C09	10/21/89	CALCIUM	1.00000	mg/L
03C09	10/21/89	MAGNESIUM	1.00000	mg/L
03C09	10/21/89	POTASSIUM	1.20000	mg/L
03C09	10/21/89	BICARBONATE	781.00000	mg/L
03C09	10/21/89	AMMONIA-NITROGEN	0.50000	mg/L
03C09	10/21/89	RDX	0.23000	mg/L
03C09	10/21/89	TRICHLOROETHYLENE	0.00100	mg/L
03C09	01/31/90	pH	9.70000	S.U.
03C09	01/31/90	SPECIFIC CONDUCTANCE	896.00000	umho/cm
03C09	01/31/90	TOTAL ORGANIC CARBON	1.60000	mg/L
03C09	01/31/90	SODIUM	164.00000	mg/L
03C09	01/31/90	CALCIUM	1.00000	mg/L
03C09	01/31/90	MAGNESIUM	1.00000	mg/L
03C09	01/31/90	POTASSIUM	1.00000	mg/L
03C09	01/31/90	SULFATE	60.00000	mg/L
03C09	01/31/90	CHLORIDE	7.00000	mg/L
03C09	01/31/90	BICARBONATE	646.00000	mg/L
03C09	01/31/90	AMMONIA-NITROGEN	0.30000	mg/L
03C09	04/19/90	pH	9.60000	S.U.
03C09	04/19/90	SPECIFIC CONDUCTANCE	887.00000	umho/cm
03C09	04/19/90	IRON, TOTAL	0.08000	mg/L
03C09	04/19/90	CALCIUM	2.00000	mg/L
03C09	04/19/90	MAGNESIUM	1.00000	mg/L
03C09	04/19/90	POTASSIUM	5.00000	mg/L
03C09	04/19/90	BICARBONATE	675.00000	mg/L
03C09	07/11/90	pH	9.40000	S.U.
03C09	07/11/90	SPECIFIC CONDUCTANCE	1020.00000	umho/cm
03C09	07/11/90	TOTAL ORGANIC CARBON	1.40000	mg/L
03C09	07/11/90	IRON, TOTAL	0.11000	mg/L
03C09	07/11/90	SODIUM	269.00000	mg/L
03C09	07/11/90	CALCIUM	1.00000	mg/L
03C09	07/11/90	MAGNESIUM	1.00000	mg/L
03C09	07/11/90	POTASSIUM	1.00000	mg/L
03C09	07/11/90	BICARBONATE	553.00000	mg/L
03C09	07/11/90	AMMONIA-NITROGEN	0.50000	mg/L
03C09	10/18/90	pH	9.20000	S.U.
03C09	10/18/90	SPECIFIC CONDUCTANCE	900.00000	umho/cm
03C09	10/18/90	SODIUM	381.00000	mg/L
03C09	10/18/90	CALCIUM	1.00000	mg/L
03C09	10/18/90	AMMONIA-NITROGEN	0.36000	mg/L
03C09	01/15/91	pH	9.83000	S.U.
03C09	01/15/91	SPECIFIC CONDUCTANCE	842.00000	umho/cm
03C09	01/15/91	TOTAL ORGANIC CARBON	0.67000	mg/L
03C09	01/15/91	SODIUM	206.00000	mg/L
03C09	01/15/91	POTASSIUM	2.00000	mg/L
03C09	01/15/91	SULFATE	70.00000	mg/L
03C09	01/15/91	CHLORIDE	10.00000	mg/L
03C09	01/15/91	BICARBONATE	598.00000	mg/L
03C09	01/15/91	AMMONIA-NITROGEN	0.44000	mg/L
03C09	04/06/91	pH	9.36000	S.U.
03C09	04/06/91	SPECIFIC CONDUCTANCE	899.00000	umho/cm
03C09	04/06/91	CALCIUM	0.90000	mg/L
03C09	04/06/91	MAGNESIUM	0.50000	mg/L
03C09	04/06/91	POTASSIUM	1.10000	mg/L
03C09	04/06/91	BICARBONATE	568.00000	mg/L
03C09	04/06/91	TRICHLOROETHYLENE	0.00700	mg/L
03C09	07/12/91	pH	9.47000	S.U.

03C09	07/12/91	SPECIFIC CONDUCTANCE	920.00000	umho/cm
03C09	07/12/91	TOTAL ORGANIC CARBON	1.41000	mg/L
03C09	07/12/91	IRON, TOTAL	0.07000	mg/L
03C09	07/12/91	MANGANESE	0.00100	mg/L
03C09	07/12/91	SODIUM	242.00000	mg/L
03C09	07/12/91	CALCIUM	0.91000	mg/L
03C09	07/12/91	MAGNESIUM	0.70000	mg/L
03C09	07/12/91	POTASSIUM	1.30000	mg/L
03C09	07/12/91	BICARBONATE	634.00000	mg/L
03C09	07/12/91	AMMONIA-NITROGEN	0.19000	mg/L
03C09	07/12/91	TRICHLOROETHENE	0.00300	mg/L
03C09	10/07/91	pH	9.30000	S.U.
03C09	10/07/91	SPECIFIC CONDUCTANCE	839.00000	umho/cm
03C09	10/07/91	SODIUM	237.00000	mg/L
03C09	10/07/91	AMMONIA-NITROGEN	0.43000	mg/L
03C09	10/07/91	BICARBONATE	592.00000	mg/L
03C09	10/07/91	CALCIUM	0.30000	mg/L
03C09	10/07/91	MAGNESIUM	0.40000	mg/L
03C09	10/07/91	POTASSIUM	2.70000	mg/L
03C09	01/06/92	pH	9.40000	S.U.
03C09	01/06/92	SPECIFIC CONDUCTANCE	900.00000	umho/cm
03C09	01/06/92	TOTAL ORGANIC CARBON	1.08000	mg/L
03C09	01/06/92	SODIUM	233.00000	mg/L
03C09	01/06/92	CALCIUM	1.34000	mg/L
03C09	01/06/92	MAGNESIUM	0.80000	mg/L
03C09	01/06/92	POTASSIUM	2.50000	mg/L
03C09	01/06/92	SULFATE	76.00000	mg/L
03C09	01/06/92	CHLORIDE	8.00000	mg/L
03C09	01/06/92	BICARBONATE	568.00000	mg/L
03C09	01/06/92	AMMONIA-NITROGEN	0.22000	mg/L

Appendix J
Compounds Detected in the Golconda/Haney Aquifer

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C01P3	11/04/87	pH	7.48000	S.U.
03C01P3	11/04/87	SPECIFIC CONDUCTANCE	668.00000	umho/cm
03C01P3	11/04/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01P3	11/04/87	MANGANESE	0.13000	mg/L
03C01P3	11/04/87	SODIUM	28.00000	mg/L
03C01P3	11/04/87	SULFATE	110.00000	mg/L
03C01P3	11/04/87	CHLORIDE	12.00000	mg/L
03C01P3	11/04/87	FLUORIDE, TOTAL	0.12000	mg/L
03C01P3	11/04/87	NITRATE-N	0.84000	mg/L
03C01P3	11/04/87	2,4,5-TP	0.01000	mg/L
03C01P3	11/04/87	RADIUM, TOTAL	0.20000	pCi/l
03C01P3	11/04/87	GROSS ALPHA	5.40000	pCi/l
03C01P3	11/04/87	GROSS BETA	5.90000	mlrem/y
03C01P3	11/04/87	BENZENE	0.04400	mg/L
03C01P3	02/02/88	pH	7.71000	S.U.
03C01P3	02/02/88	SPECIFIC CONDUCTANCE	607.00000	umho/cm
03C01P3	02/02/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C01P3	02/02/88	MANGANESE	0.01900	mg/L
03C01P3	02/02/88	SODIUM	29.00000	mg/L
03C01P3	02/02/88	SULFATE	125.00000	mg/L
03C01P3	02/02/88	CHLORIDE	2.00000	mg/L
03C01P3	02/02/88	PHENOLS	0.00000	mg/L
03C01P3	02/02/88	FLUORIDE, TOTAL	0.28000	mg/L
03C01P3	02/02/88	NITRATE-N	0.46000	mg/L
03C01P3	02/02/88	RADIUM, TOTAL	0.50000	pCi/l
03C01P3	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C01P3	02/02/88	GROSS BETA	8.90000	mlrem/y
03C01P3	02/02/88	COLIFORM	5.00000	#/100ml
03C01P3	04/24/88	pH	8.34000	S.U.
03C01P3	04/24/88	SPECIFIC CONDUCTANCE	385.00000	umho/cm
03C01P3	04/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01P3	04/24/88	IRON, TOTAL	0.01000	mg/L
03C01P3	04/24/88	MANGANESE	0.01100	mg/L
03C01P3	04/24/88	SODIUM	21.00000	mg/L
03C01P3	04/24/88	SULFATE	61.00000	mg/L
03C01P3	04/24/88	CHLORIDE	2.00000	mg/L
03C01P3	04/24/88	FLUORIDE, TOTAL	0.47000	mg/L
03C01P3	04/24/88	NITRATE-N	0.79000	mg/L
03C01P3	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C01P3	04/24/88	GROSS ALPHA	5.00000	mg/L
03C01P3	04/24/88	GROSS BETA	7.10000	mg/L
03C01P3	04/24/88	COLIFORM	0.00000	#/100ml
03C01P3	04/24/88	TRICHLOROETHYLENE	0.00300	mg/L
03C01P3	07/28/88	pH	7.50000	S.U.
03C01P3	07/28/88	SPECIFIC CONDUCTANCE	593.00000	umho/cm
03C01P3	07/28/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C01P3	07/28/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03C01P3	10/24/88	pH	7.70000	S.U.
03C01P3	10/24/88	SPECIFIC CONDUCTANCE	562.00000	umho/cm
03C01P3	10/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01P3	10/24/88	MANGANESE	0.07000	mg/L
03C01P3	10/24/88	SODIUM	23.00000	mg/L
03C01P3	10/24/88	SULFATE	155.00000	mg/L
03C01P3	10/24/88	CHLORIDE	2.00000	mg/L
03C01P3	10/24/88	AMMONIA-NITROGEN	0.50000	mg/L
03C01P3	10/24/88	BICARBONATE	537.00000	mg/L
03C01P3	10/24/88	CALCIUM	10.00000	mg/L
03C01P3	10/24/88	MAGNESIUM	11.00000	mg/L

03C01P3	10/24/88	POTASSIUM	3.00000	mg/L
03C01P3	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C01P3	10/24/88	GROSS BETA	7.00000	pcu/L
03C01P3	10/24/88	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C01P3	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C01P3	01/12/89	pH	7.70000	S.U.
03C01P3	01/12/89	SPECIFIC CONDUCTANCE	701.00000	umho/cm
03C01P3	01/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C01P3	01/12/89	IRON, TOTAL	0.10000	mg/L
03C01P3	01/12/89	MANGANESE	0.07000	mg/L
03C01P3	01/12/89	SODIUM	28.00000	mg/L
03C01P3	01/12/89	SULFATE	160.00000	mg/L
03C01P3	01/12/89	CHLORIDE	4.00000	mg/L
03C01P3	01/12/89	AMMONIA-NITROGEN	0.62000	mg/L
03C01P3	01/12/89	BICARBONATE	488.00000	mg/L
03C01P3	01/12/89	CALCIUM	107.00000	mg/L
03C01P3	01/12/89	MAGNESIUM	49.00000	mg/L
03C01P3	01/12/89	POTASSIUM	7.20000	mg/L
03C01P3	01/12/89	FLUORIDE, TOTAL	0.53000	mg/L
03C01P3	01/12/89	COLIFORM	0.00000	TC/.1L
03C01P3	04/13/89	pH	7.60000	S.U.
03C01P3	04/13/89	SPECIFIC CONDUCTANCE	517.00000	umho/cm
03C01P3	04/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01P3	04/13/89	SODIUM	20.00000	mg/L
03C01P3	04/13/89	CALCIUM	70.00000	mg/L
03C01P3	04/13/89	MAGNESIUM	31.00000	mg/L
03C01P3	04/13/89	POTASSIUM	7.50000	mg/L
03C01P3	04/13/89	SULFATE	66.00000	mg/L
03C01P3	04/13/89	CHLORIDE	6.00000	mg/L
03C01P3	04/13/89	BICARBONATE	284.00000	mg/L
03C01P3	04/13/89	FLUORIDE, TOTAL	0.17000	mg/L
03C01P3	04/13/89	NITRATE-N	1.41000	mg/L
03C01P3	04/13/89	COLIFORM	0.00000	TC/.1L
03C01P3	07/13/89	pH	7.90000	S.U.
03C01P3	07/13/89	SPECIFIC CONDUCTANCE	651.00000	umho/cm
03C01P3	07/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C01P3	07/13/89	MANGANESE	0.02000	mg/L
03C01P3	07/13/89	SODIUM	13.00000	mg/L
03C01P3	07/13/89	CALCIUM	76.00000	mg/L
03C01P3	07/13/89	MAGNESIUM	36.00000	mg/L
03C01P3	07/13/89	POTASSIUM	6.00000	mg/L
03C01P3	07/13/89	SULFATE	82.00000	mg/L
03C01P3	07/13/89	CHLORIDE	18.00000	mg/L
03C01P3	07/13/89	BICARBONATE	332.00000	mg/L
03C01P3	07/13/89	BARIUM, TOTAL	0.04000	mg/L
03C01P3	07/13/89	FLUORIDE, TOTAL	0.20000	mg/L
03C01P3	07/13/89	NITRATE-N	0.98000	mg/L
03C01P3	07/13/89	COLIFORM	0.00000	TC/.1L
03C01P3	07/13/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C01P3	10/21/89	pH	7.90000	S.U.
03C01P3	10/21/89	SPECIFIC CONDUCTANCE	684.00000	umho/cm
03C01P3	10/21/89	CALCIUM	71.00000	mg/L
03C01P3	10/21/89	MAGNESIUM	33.00000	mg/L
03C01P3	10/21/89	POTASSIUM	6.60000	mg/L
03C01P3	10/21/89	BICARBONATE	147.00000	mg/L
03C01P3	10/21/89	TRICHLOROETHYLENE	0.00200	mg/L
03C01P3	01/28/90	pH	8.20000	S.U.
03C01P3	01/28/90	SPECIFIC CONDUCTANCE	623.00000	umho/cm
03C01P3	01/28/90	TOTAL ORGANIC CARBON	2.00000	mg/L
03C01P3	01/28/90	SODIUM	14.00000	mg/L

03C01P3	01/28/90	CALCIUM	51.00000	mg/L
03C01P3	01/28/90	MAGNESIUM	21.00000	mg/L
03C01P3	01/28/90	POTASSIUM	6.00000	mg/L
03C01P3	01/28/90	SULFATE	140.00000	mg/L
03C01P3	01/28/90	CHLORIDE	7.00000	mg/L
03C01P3	01/28/90	BICARBONATE	342.00000	mg/L
03C01P3	04/20/90	pH	8.00000	S.U.
03C01P3	04/20/90	SPECIFIC CONDUCTANCE	541.00000	umho/cm
03C01P3	04/20/90	IRON, TOTAL	0.53000	mg/L
03C01P3	04/20/90	CALCIUM	81.00000	mg/L
03C01P3	04/20/90	MAGNESIUM	35.00000	mg/L
03C01P3	04/20/90	POTASSIUM	7.00000	mg/L
03C01P3	04/20/90	BICARBONATE	335.00000	mg/L
03C01P3	04/20/90	TRICHLOROETHYLENE	0.00300	mg/L
03C01P3	07/13/90	pH	7.50000	S.U.
03C01P3	07/13/90	SPECIFIC CONDUCTANCE	633.00000	umho/cm
03C01P3	07/13/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03C01P3	07/13/90	SODIUM	7.00000	mg/L
03C01P3	07/13/90	CALCIUM	68.00000	mg/L
03C01P3	07/13/90	MAGNESIUM	28.00000	mg/L
03C01P3	07/13/90	POTASSIUM	5.00000	mg/L
03C01P3	07/13/90	BICARBONATE	338.00000	mg/L
03C01P3	07/13/90	AMMONIA-NITROGEN	0.10000	mg/L
03C01P3	10/17/90	pH	7.80000	S.U.
03C01P3	10/17/90	SPECIFIC CONDUCTANCE	545.00000	umho/cm
03C01P3	10/17/90	SODIUM	33.00000	mg/L
03C01P3	10/17/90	CALCIUM	90.00000	mg/L
03C01P3	10/17/90	MAGNESIUM	40.00000	mg/L
03C01P3	10/17/90	POTASSIUM	6.00000	mg/L
03C01P3	10/17/90	AMMONIA-NITROGEN	0.76000	mg/L
03C01P3	01/15/91	pH	7.59000	S.U.
03C01P3	01/15/91	SPECIFIC CONDUCTANCE	669.00000	umho/cm
03C01P3	01/15/91	TOTAL ORGANIC HALOGENS	0.11000	mg/L
03C01P3	01/15/91	MANGANESE	0.02000	mg/L
03C01P3	01/15/91	SODIUM	30.00000	mg/L
03C01P3	01/15/91	CALCIUM	53.00000	mg/L
03C01P3	01/15/91	MAGNESIUM	37.00000	mg/L
03C01P3	01/15/91	POTASSIUM	7.00000	mg/L
03C01P3	01/15/91	SULFATE	150.00000	mg/L
03C01P3	01/15/91	CHLORIDE	12.00000	mg/L
03C01P3	01/15/91	BICARBONATE	317.00000	mg/L
03C01P3	01/15/91	AMMONIA-NITROGEN	0.57000	mg/L
03C01P3	04/05/91	pH	7.39000	S.U.
03C01P3	04/05/91	SPECIFIC CONDUCTANCE	559.00000	umho/cm
03C01P3	04/05/91	CALCIUM	2.30000	mg/L
03C01P3	04/05/91	MAGNESIUM	1.20000	mg/L
03C01P3	04/05/91	POTASSIUM	2.30000	mg/L
03C01P3	04/05/91	BICARBONATE	365.00000	mg/L
03C01P3	04/05/91	AMMONIA-NITROGEN	0.07000	mg/L
03C01P3	07/10/91	pH	7.44000	S.U.
03C01P3	07/10/91	SPECIFIC CONDUCTANCE	679.00000	umho/cm
03C01P3	07/10/91	TOTAL ORGANIC CARBON	0.89000	mg/L
03C01P3	07/10/91	MANGANESE	0.01900	mg/L
03C01P3	07/10/91	SODIUM	20.50000	mg/L
03C01P3	07/10/91	CALCIUM	68.00000	mg/L
03C01P3	07/10/91	MAGNESIUM	34.40000	mg/L
03C01P3	07/10/91	POTASSIUM	2.70000	mg/L
03C01P3	07/10/91	BICARBONATE	430.00000	mg/L
03C01P3	07/10/91	AMMONIA-NITROGEN	0.18100	mg/L
03C01P3	10/05/91	pH	7.70000	S.U.

03C01P3	10/05/91	SPECIFIC CONDUCTANCE	592.00000	umho/cm
03C01P3	10/05/91	SODIUM	25.10000	mg/L
03C01P3	10/05/91	AMMONIA-NITROGEN	0.18000	mg/L
03C01P3	10/05/91	BICARBONATE	360.00000	mg/L
03C01P3	10/05/91	CALCIUM	90.50000	mg/L
03C01P3	10/05/91	MAGNESIUM	41.20000	mg/L
03C01P3	10/05/91	POTASSIUM	15.80000	mg/L
03C01P3	12/31/91	pH	7.60000	S.U.
03C01P3	12/31/91	SPECIFIC CONDUCTANCE	581.00000	umho/cm
03C01P3	12/31/91	TOTAL ORGANIC CARBON	1.63000	mg/L
03C01P3	12/31/91	SODIUM	13.00000	mg/L
03C01P3	12/31/91	CALCIUM	64.10000	mg/L
03C01P3	12/31/91	MAGNESIUM	36.10000	mg/L
03C01P3	12/31/91	POTASSIUM	5.60000	mg/L
03C01P3	12/31/91	SULFATE	80.00000	mg/L
03C01P3	12/31/91	CHLORIDE	12.00000	mg/L
03C01P3	12/31/91	BICARBONATE	329.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C08AP3	11/10/87	pH	6.91000	S.U.
03C08AP3	11/10/87	SPECIFIC CONDUCTANCE	772.00000	umho/cm
03C08AP3	11/10/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03C08AP3	11/10/87	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C08AP3	11/10/87	MANGANESE	0.01200	mg/L
03C08AP3	11/10/87	SODIUM	10.00000	mg/L
03C08AP3	11/10/87	SULFATE	90.00000	mg/L
03C08AP3	11/10/87	CHLORIDE	8.00000	mg/L
03C08AP3	11/10/87	BARIUM, TOTAL	0.09000	mg/L
03C08AP3	11/10/87	NITRATE-N	1.10000	mg/L
03C08AP3	11/10/87	RADIUM, TOTAL	0.40000	pCi/l
03C08AP3	11/10/87	GROSS ALPHA	0.00000	pCi/l
03C08AP3	11/10/87	GROSS BETA	1.30000	mlrem/y
03C08AP3	02/07/88	pH	7.21000	S.U.
03C08AP3	02/07/88	SPECIFIC CONDUCTANCE	773.00000	umho/cm
03C08AP3	02/07/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C08AP3	02/07/88	MANGANESE	0.01000	mg/L
03C08AP3	02/07/88	SODIUM	10.00000	mg/L
03C08AP3	02/07/88	SULFATE	30.00000	mg/L
03C08AP3	02/07/88	CHLORIDE	5.00000	mg/L
03C08AP3	02/07/88	BARIUM, TOTAL	0.14000	mg/L
03C08AP3	02/07/88	FLUORIDE, TOTAL	0.14000	mg/L
03C08AP3	02/07/88	NITRATE-N	2.10000	mg/L
03C08AP3	02/07/88	RADIUM, TOTAL	0.10000	pCi/l
03C08AP3	02/07/88	GROSS ALPHA	1.50000	pCi/l
03C08AP3	02/07/88	GROSS BETA	4.50000	mlrem/y
03C08AP3	02/07/88	COLIFORM	0.00000	#/100ml
03C08AP3	04/24/88	pH	6.82000	S.U.
03C08AP3	04/24/88	SPECIFIC CONDUCTANCE	782.00000	umho/cm
03C08AP3	04/24/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C08AP3	04/24/88	IRON, TOTAL	0.02000	mg/L
03C08AP3	04/24/88	MANGANESE	0.01100	mg/L
03C08AP3	04/24/88	SODIUM	10.00000	mg/L
03C08AP3	04/24/88	SULFATE	24.00000	mg/L
03C08AP3	04/24/88	CHLORIDE	4.00000	mg/L
03C08AP3	04/24/88	RDX	0.03000	mg/L
03C08AP3	04/24/88	FLUORIDE, TOTAL	0.20000	mg/L
03C08AP3	04/24/88	NITRATE-N	1.20000	mg/L
03C08AP3	04/24/88	RADIUM, TOTAL	0.10000	mg/L
03C08AP3	04/24/88	GROSS ALPHA	8.10000	mg/L
03C08AP3	04/24/88	GROSS BETA	8.70000	mg/L
03C08AP3	04/24/88	COLIFORM	0.00000	#/100ml
03C08AP3	07/26/88	pH	6.50000	S.U.
03C08AP3	07/26/88	SPECIFIC CONDUCTANCE	860.00000	umho/cm
03C08AP3	07/26/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C08AP3	07/26/88	RDX	0.02000	mg/L
03C08AP3	10/26/88	pH	7.50000	S.U.
03C08AP3	10/26/88	SPECIFIC CONDUCTANCE	612.00000	umho/cm
03C08AP3	10/26/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C08AP3	10/26/88	MANGANESE	0.02000	mg/L
03C08AP3	10/26/88	SODIUM	5.00000	mg/L
03C08AP3	10/26/88	SULFATE	29.00000	mg/L
03C08AP3	10/26/88	CHLORIDE	3.00000	mg/L
03C08AP3	10/26/88	BICARBONATE	549.00000	mg/L
03C08AP3	10/26/88	CALCIUM	146.00000	mg/L
03C08AP3	10/26/88	MAGNESIUM	15.00000	mg/L
03C08AP3	10/26/88	POTASSIUM	2.00000	mg/L
03C08AP3	10/26/88	FLUORIDE, TOTAL	0.12000	mg/L

03C08AP3	10/26/88	NITRATE-N	2.75000	mg/L
03C08AP3	10/26/88	GROSS BETA	1.00000	pcu/L
03C08AP3	10/26/88	COLIFORM	0.00000	TC/.1L
03C08AP3	01/12/89	pH	7.40000	S.U.
03C08AP3	01/12/89	SPECIFIC CONDUCTANCE	696.00000	umho/cm
03C08AP3	01/12/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C08AP3	01/12/89	SODIUM	5.00000	mg/L
03C08AP3	01/12/89	SULFATE	42.00000	mg/L
03C08AP3	01/12/89	CHLORIDE	6.00000	mg/L
03C08AP3	01/12/89	AMMONIA-NITROGEN	0.18000	mg/L
03C08AP3	01/12/89	BICARBONATE	866.00000	mg/L
03C08AP3	01/12/89	CALCIUM	171.00000	mg/L
03C08AP3	01/12/89	MAGNESIUM	17.00000	mg/L
03C08AP3	01/12/89	POTASSIUM	1.20000	mg/L
03C08AP3	01/12/89	BARIUM, TOTAL	0.10000	mg/L
03C08AP3	01/12/89	FLUORIDE, TOTAL	0.30000	mg/L
03C08AP3	01/12/89	NITRATE-N	1.60000	mg/L
03C08AP3	01/12/89	COLIFORM	0.00000	TC/.1L
03C08AP3	04/16/89	pH	6.80000	S.U.
03C08AP3	04/16/89	SPECIFIC CONDUCTANCE	660.00000	umho/cm
03C08AP3	04/16/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C08AP3	04/16/89	SODIUM	1.40000	mg/L
03C08AP3	04/16/89	CALCIUM	80.60000	mg/L
03C08AP3	04/16/89	MAGNESIUM	8.20000	mg/L
03C08AP3	04/16/89	POTASSIUM	2.50000	mg/L
03C08AP3	04/16/89	SULFATE	27.00000	mg/L
03C08AP3	04/16/89	CHLORIDE	14.00000	mg/L
03C08AP3	04/16/89	BICARBONATE	519.00000	mg/L
03C08AP3	04/16/89	BARIUM, TOTAL	0.07000	mg/L
03C08AP3	04/16/89	FLUORIDE, TOTAL	0.07000	mg/L
03C08AP3	04/16/89	NITRATE-N	2.00000	mg/L
03C08AP3	04/16/89	COLIFORM	4.00000	TC/.1L
03C08AP3	04/16/89	TRICHLOROETHYLENE	0.00300	mg/L
03C08AP3	07/16/89	pH	6.80000	S.U.
03C08AP3	07/16/89	SPECIFIC CONDUCTANCE	748.00000	umho/cm
03C08AP3	07/16/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C08AP3	07/16/89	SODIUM	5.60000	mg/L
03C08AP3	07/16/89	CALCIUM	97.00000	mg/L
03C08AP3	07/16/89	MAGNESIUM	9.00000	mg/L
03C08AP3	07/16/89	POTASSIUM	3.00000	mg/L
03C08AP3	07/16/89	SULFATE	39.00000	mg/L
03C08AP3	07/16/89	CHLORIDE	13.00000	mg/L
03C08AP3	07/16/89	BICARBONATE	527.00000	mg/L
03C08AP3	07/16/89	BARIUM, TOTAL	0.06000	mg/L
03C08AP3	07/16/89	FLUORIDE, TOTAL	0.07000	mg/L
03C08AP3	07/16/89	NITRATE-N	0.94000	mg/L
03C08AP3	07/16/89	COLIFORM	0.00000	TC/.1L
03C08AP3	07/16/89	TRICHLOROETHYLENE	0.00200	mg/L
03C08AP3	07/16/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C08AP3	10/21/89	pH	7.10000	S.U.
03C08AP3	10/21/89	SPECIFIC CONDUCTANCE	732.00000	umho/cm
03C08AP3	10/21/89	CALCIUM	134.00000	mg/L
03C08AP3	10/21/89	MAGNESIUM	14.00000	mg/L
03C08AP3	10/21/89	POTASSIUM	1.70000	mg/L
03C08AP3	10/21/89	BICARBONATE	293.00000	mg/L
03C08AP3	01/31/90	pH	7.10000	S.U.
03C08AP3	01/31/90	SPECIFIC CONDUCTANCE	655.00000	umho/cm
03C08AP3	01/31/90	TOTAL ORGANIC CARBON	1.50000	mg/L
03C08AP3	01/31/90	SODIUM	3.00000	mg/L
03C08AP3	01/31/90	CALCIUM	105.00000	mg/L

03C08AP3	01/31/90	MAGNESIUM	13.00000	mg/L
03C08AP3	01/31/90	POTASSIUM	1.00000	mg/L
03C08AP3	01/31/90	SULFATE	26.00000	mg/L
03C08AP3	01/31/90	CHLORIDE	10.00000	mg/L
03C08AP3	01/31/90	BICARBONATE	500.00000	mg/L
03C08AP3	04/20/90	pH	6.90000	S.U.
03C08AP3	04/20/90	SPECIFIC CONDUCTANCE	615.00000	umho/cm
03C08AP3	04/20/90	CALCIUM	129.00000	mg/L
03C08AP3	04/20/90	MAGNESIUM	13.00000	mg/L
03C08AP3	04/20/90	POTASSIUM	1.00000	mg/L
03C08AP3	04/20/90	BICARBONATE	302.00000	mg/L
03C08AP3	07/13/90	pH	5.70000	S.U.
03C08AP3	07/13/90	SPECIFIC CONDUCTANCE	420.00000	umho/cm
03C08AP3	07/13/90	TOTAL ORGANIC CARBON	2.10000	mg/L
03C08AP3	07/13/90	SODIUM	1.00000	mg/L
03C08AP3	07/13/90	CALCIUM	6.00000	mg/L
03C08AP3	07/13/90	MAGNESIUM	1.00000	mg/L
03C08AP3	07/13/90	POTASSIUM	1.00000	mg/L
03C08AP3	07/13/90	BICARBONATE	484.00000	mg/L
03C08AP3	10/20/90	pH	7.10000	S.U.
03C08AP3	10/20/90	SPECIFIC CONDUCTANCE	578.00000	umho/cm
03C08AP3	10/20/90	SODIUM	7.00000	mg/L
03C08AP3	10/20/90	CALCIUM	125.00000	mg/L
03C08AP3	10/20/90	MAGNESIUM	16.00000	mg/L
03C08AP3	10/20/90	POTASSIUM	2.00000	mg/L
03C08AP3	10/20/90	TRICHLOROETHYLENE	0.01600	mg/L
03C08AP3	01/12/91	pH	6.97000	S.U.
03C08AP3	01/12/91	SPECIFIC CONDUCTANCE	584.00000	umho/cm
03C08AP3	01/12/91	TOTAL ORGANIC CARBON	2.10000	mg/L
03C08AP3	01/12/91	MANGANESE	0.02000	mg/L
03C08AP3	01/12/91	SODIUM	6.00000	mg/L
03C08AP3	01/12/91	CALCIUM	98.00000	mg/L
03C08AP3	01/12/91	MAGNESIUM	16.00000	mg/L
03C08AP3	01/12/91	POTASSIUM	2.00000	mg/L
03C08AP3	01/12/91	SULFATE	30.00000	mg/L
03C08AP3	01/12/91	CHLORIDE	15.00000	mg/L
03C08AP3	01/12/91	BICARBONATE	360.00000	mg/L
03C08AP3	04/06/91	pH	6.88000	S.U.
03C08AP3	04/06/91	SPECIFIC CONDUCTANCE	526.00000	umho/cm
03C08AP3	04/06/91	CALCIUM	83.80000	mg/L
03C08AP3	04/06/91	MAGNESIUM	8.30000	mg/L
03C08AP3	04/06/91	POTASSIUM	1.10000	mg/L
03C08AP3	04/06/91	BICARBONATE	317.00000	mg/L
03C08AP3	04/06/91	AMMONIA-NITROGEN	0.54000	mg/L
03C08AP3	07/17/91	pH	6.93000	S.U.
03C08AP3	07/17/91	SPECIFIC CONDUCTANCE	712.00000	umho/cm
03C08AP3	07/17/91	TOTAL ORGANIC CARBON	2.11000	mg/L
03C08AP3	07/17/91	IRON, TOTAL	0.17000	mg/L
03C08AP3	07/17/91	MANGANESE	0.02000	mg/L
03C08AP3	07/17/91	SODIUM	5.10000	mg/L
03C08AP3	07/17/91	CALCIUM	103.90000	mg/L
03C08AP3	07/17/91	MAGNESIUM	11.90000	mg/L
03C08AP3	07/17/91	POTASSIUM	4.70000	mg/L
03C08AP3	07/17/91	BICARBONATE	632.00000	mg/L
03C08AP3	07/17/91	RDX	0.02000	mg/L
03C08AP3	10/05/91	pH	6.70000	S.U.
03C08AP3	10/05/91	SPECIFIC CONDUCTANCE	625.00000	umho/cm
03C08AP3	10/05/91	SODIUM	3.20000	mg/L
03C08AP3	10/05/91	BICARBONATE	500.00000	mg/L
03C08AP3	10/05/91	CALCIUM	108.00000	mg/L

03C08AP3	10/05/91	MAGNESIUM	13.10000	mg/L
03C08AP3	10/05/91	POTASSIUM	0.30000	mg/L
03C08AP3	01/04/92	pH	7.50000	S.U.
03C08AP3	01/04/92	SPECIFIC CONDUCTANCE	560.00000	umho/cm
03C08AP3	01/04/92	TOTAL ORGANIC CARBON	2.08000	mg/L
03C08AP3	01/04/92	SODIUM	4.40000	mg/L
03C08AP3	01/04/92	CALCIUM	123.50000	mg/L
03C08AP3	01/04/92	MAGNESIUM	14.00000	mg/L
03C08AP3	01/04/92	POTASSIUM	1.20000	mg/L
03C08AP3	01/04/92	SULFATE	22.00000	mg/L
03C08AP3	01/04/92	CHLORIDE	14.00000	mg/L
03C08AP3	01/04/92	BICARBONATE	430.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C15P3	10/30/87	pH	7.80000	S.U.
03C15P3	10/30/87	SPECIFIC CONDUCTANCE	419.00000	umho/cm
03C15P3	10/30/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C15P3	10/30/87	MANGANESE	0.02000	mg/L
03C15P3	10/30/87	SODIUM	7.00000	mg/L
03C15P3	10/30/87	SULFATE	35.00000	mg/L
03C15P3	10/30/87	CHLORIDE	7.00000	mg/L
03C15P3	10/30/87	FLUORIDE, TOTAL	0.10000	mg/L
03C15P3	10/30/87	NITRATE-N	0.21000	mg/L
03C15P3	10/30/87	RADIUM, TOTAL	0.10000	pCi/l
03C15P3	10/30/87	GROSS ALPHA	0.40000	pCi/l
03C15P3	10/30/87	GROSS BETA	2.60000	mlrem/y
03C15P3	10/30/87	CARBON TETRACHLORIDE	0.01300	mg/L
03C15P3	10/30/87	BENZENE	0.00800	mg/L
03C15P3	02/02/88	pH	8.69000	S.U.
03C15P3	02/02/88	SPECIFIC CONDUCTANCE	311.00000	umho/cm
03C15P3	02/02/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C15P3	02/02/88	TOTAL ORGANIC HALOGENS	0.02300	mg/L
03C15P3	02/02/88	SODIUM	9.00000	mg/L
03C15P3	02/02/88	SULFATE	39.00000	mg/L
03C15P3	02/02/88	CHLORIDE	2.00000	mg/L
03C15P3	02/02/88	PHENOLS	0.00000	mg/L
03C15P3	02/02/88	FLUORIDE, TOTAL	0.18000	mg/L
03C15P3	02/02/88	NITRATE-N	0.29000	mg/L
03C15P3	02/02/88	RADIUM, TOTAL	0.10000	pCi/l
03C15P3	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C15P3	02/02/88	GROSS BETA	2.40000	mlrem/y
03C15P3	02/02/88	COLIFORM	0.00000	#/100ml
03C15P3	04/23/88	pH	8.11000	S.U.
03C15P3	04/23/88	SPECIFIC CONDUCTANCE	361.00000	umho/cm
03C15P3	04/23/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C15P3	04/23/88	IRON, TOTAL	0.01000	mg/L
03C15P3	04/23/88	MANGANESE	0.01600	mg/L
03C15P3	04/23/88	SODIUM	10.00000	mg/L
03C15P3	04/23/88	SULFATE	64.00000	mg/L
03C15P3	04/23/88	CHLORIDE	3.00000	mg/L
03C15P3	04/23/88	FLUORIDE, TOTAL	0.33000	mg/L
03C15P3	04/23/88	NITRATE-N	0.30000	mg/L
03C15P3	04/23/88	RADIUM, TOTAL	0.00000	mg/L
03C15P3	04/23/88	GROSS ALPHA	3.50000	mg/L
03C15P3	04/23/88	GROSS BETA	4.50000	mg/L
03C15P3	04/23/88	COLIFORM	0.00000	#/100ml
03C15P3	07/22/88	pH	8.20000	S.U.
03C15P3	07/22/88	SPECIFIC CONDUCTANCE	873.00000	umho/cm
03C15P3	07/22/88	TOTAL ORGANIC CARBON	8.00000	mg/L
03C15P3	07/22/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03C15P3	10/24/88	pH	7.70000	S.U.
03C15P3	10/24/88	SPECIFIC CONDUCTANCE	340.00000	umho/cm
03C15P3	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C15P3	10/24/88	MANGANESE	0.01600	mg/L
03C15P3	10/24/88	SODIUM	11.00000	mg/L
03C15P3	10/24/88	SULFATE	51.00000	mg/L
03C15P3	10/24/88	CHLORIDE	3.00000	mg/L
03C15P3	10/24/88	BICARBONATE	329.00000	mg/L
03C15P3	10/24/88	CALCIUM	72.00000	mg/L
03C15P3	10/24/88	MAGNESIUM	23.00000	mg/L
03C15P3	10/24/88	POTASSIUM	5.00000	mg/L
03C15P3	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L

03C15P3	10/24/88	NITRATE-N	0.20000	mg/L
03C15P3	10/24/88	GROSS BETA	3.00000	pcu/L
03C15P3	10/24/88	COLIFORM	0.00000	TC/.1L
03C15P3	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.03000	mg/L
03C15P3	01/13/89	pH	7.70000	S.U.
03C15P3	01/13/89	SPECIFIC CONDUCTANCE	402.00000	umho/cm
03C15P3	01/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C15P3	01/13/89	SODIUM	5.00000	mg/L
03C15P3	01/13/89	SULFATE	50.00000	mg/L
03C15P3	01/13/89	CHLORIDE	4.00000	mg/L
03C15P3	01/13/89	BICARBONATE	299.00000	mg/L
03C15P3	01/13/89	CALCIUM	51.00000	mg/L
03C15P3	01/13/89	MAGNESIUM	24.00000	mg/L
03C15P3	01/13/89	POTASSIUM	2.00000	mg/L
03C15P3	01/13/89	FLUORIDE, TOTAL	0.40000	mg/L
03C15P3	01/13/89	NITRATE-N	0.46000	mg/L
03C15P3	01/13/89	COLIFORM	0.00000	TC/.1L
03C15P3	04/13/89	pH	8.40000	S.U.
03C15P3	04/13/89	SPECIFIC CONDUCTANCE	449.00000	umho/cm
03C15P3	04/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C15P3	04/13/89	MANGANESE	0.02000	mg/L
03C15P3	04/13/89	SODIUM	4.30000	mg/L
03C15P3	04/13/89	CALCIUM	49.00000	mg/L
03C15P3	04/13/89	MAGNESIUM	23.00000	mg/L
03C15P3	04/13/89	POTASSIUM	3.00000	mg/L
03C15P3	04/13/89	SULFATE	56.00000	mg/L
03C15P3	04/13/89	CHLORIDE	13.00000	mg/L
03C15P3	04/13/89	BICARBONATE	245.00000	mg/L
03C15P3	04/13/89	FLUORIDE, TOTAL	0.11000	mg/L
03C15P3	04/13/89	NITRATE-N	0.50000	mg/L
03C15P3	04/13/89	COLIFORM	0.00000	TC/.1L
03C15P3	07/13/89	pH	8.90000	S.U.
03C15P3	07/13/89	SPECIFIC CONDUCTANCE	380.00000	umho/cm
03C15P3	07/13/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C15P3	07/13/89	SODIUM	15.00000	mg/L
03C15P3	07/13/89	CALCIUM	97.00000	mg/L
03C15P3	07/13/89	MAGNESIUM	16.00000	mg/L
03C15P3	07/13/89	POTASSIUM	2.00000	mg/L
03C15P3	07/13/89	SULFATE	72.00000	mg/L
03C15P3	07/13/89	CHLORIDE	8.00000	mg/L
03C15P3	07/13/89	BICARBONATE	215.00000	mg/L
03C15P3	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L
03C15P3	07/13/89	NITRATE-N	0.12000	mg/L
03C15P3	07/13/89	COLIFORM	0.00000	TC/.1L
03C15P3	10/20/89	pH	9.10000	S.U.
03C15P3	10/20/89	SPECIFIC CONDUCTANCE	356.00000	umho/cm
03C15P3	10/20/89	CALCIUM	26.00000	mg/L
03C15P3	10/20/89	MAGNESIUM	13.00000	mg/L
03C15P3	10/20/89	POTASSIUM	3.80000	mg/L
03C15P3	10/20/89	BICARBONATE	205.00000	mg/L
03C15P3	01/27/90	pH	8.10000	S.U.
03C15P3	01/27/90	SPECIFIC CONDUCTANCE	343.00000	umho/cm
03C15P3	01/27/90	TOTAL ORGANIC CARBON	2.40000	mg/L
03C15P3	01/27/90	SODIUM	3.00000	mg/L
03C15P3	01/27/90	CALCIUM	37.00000	mg/L
03C15P3	01/27/90	MAGNESIUM	18.00000	mg/L
03C15P3	01/27/90	POTASSIUM	1.00000	mg/L
03C15P3	01/27/90	SULFATE	42.00000	mg/L
03C15P3	01/27/90	CHLORIDE	10.00000	mg/L
03C15P3	01/27/90	BICARBONATE	290.00000	mg/L

03C15P3	01/27/90	AMMONIA-NITROGEN	0.06000	mg/L
03C15P3	04/20/90	pH	7.90000	S.U.
03C15P3	04/20/90	SPECIFIC CONDUCTANCE	345.00000	umho/cm
03C15P3	04/20/90	IRON, TOTAL	0.83000	mg/L
03C15P3	04/20/90	CALCIUM	52.00000	mg/L
03C15P3	04/20/90	MAGNESIUM	21.00000	mg/L
03C15P3	04/20/90	POTASSIUM	2.00000	mg/L
03C15P3	04/20/90	BICARBONATE	225.00000	mg/L
03C15P3	04/20/90	TRICHLOROETHYLENE	0.01800	mg/L
03C15P3	07/13/90	pH	7.90000	S.U.
03C15P3	07/13/90	SPECIFIC CONDUCTANCE	373.00000	umho/cm
03C15P3	07/13/90	TOTAL ORGANIC CARBON	1.70000	mg/L
03C15P3	07/13/90	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C15P3	07/13/90	SODIUM	4.00000	mg/L
03C15P3	07/13/90	CALCIUM	46.00000	mg/L
03C15P3	07/13/90	MAGNESIUM	21.00000	mg/L
03C15P3	07/13/90	POTASSIUM	1.00000	mg/L
03C15P3	07/13/90	BICARBONATE	245.00000	mg/L
03C15P3	07/13/90	1,1,1-TRICHLOROETHANE	0.00600	mg/L
03C15P3	10/17/90	pH	7.70000	S.U.
03C15P3	10/17/90	SPECIFIC CONDUCTANCE	339.00000	umho/cm
03C15P3	10/17/90	SODIUM	5.40000	mg/L
03C15P3	10/17/90	CALCIUM	54.00000	mg/L
03C15P3	10/17/90	MAGNESIUM	24.00000	mg/L
03C15P3	10/17/90	POTASSIUM	1.00000	mg/L
03C15P3	01/15/91	pH	7.83000	S.U.
03C15P3	01/15/91	SPECIFIC CONDUCTANCE	382.00000	umho/cm
03C15P3	01/15/91	TOTAL ORGANIC CARBON	0.86000	mg/L
03C15P3	01/15/91	SODIUM	4.00000	mg/L
03C15P3	01/15/91	CALCIUM	38.00000	mg/L
03C15P3	01/15/91	MAGNESIUM	27.00000	mg/L
03C15P3	01/15/91	POTASSIUM	2.00000	mg/L
03C15P3	01/15/91	SULFATE	58.00000	mg/L
03C15P3	01/15/91	CHLORIDE	8.00000	mg/L
03C15P3	01/15/91	BICARBONATE	250.00000	mg/L
03C15P3	04/05/91	pH	7.31000	S.U.
03C15P3	04/05/91	SPECIFIC CONDUCTANCE	358.00000	umho/cm
03C15P3	04/05/91	CALCIUM	50.40000	mg/L
03C15P3	04/05/91	MAGNESIUM	23.00000	mg/L
03C15P3	04/05/91	POTASSIUM	1.80000	mg/L
03C15P3	04/05/91	BICARBONATE	233.00000	mg/L
03C15P3	04/05/91	AMMONIA-NITROGEN	0.07000	mg/L
03C15P3	07/10/91	pH	7.79000	S.U.
03C15P3	07/10/91	SPECIFIC CONDUCTANCE	357.00000	umho/cm
03C15P3	07/10/91	TOTAL ORGANIC CARBON	1.06000	mg/L
03C15P3	07/10/91	MANGANESE	0.01000	mg/L
03C15P3	07/10/91	SODIUM	3.90000	mg/L
03C15P3	07/10/91	CALCIUM	43.70000	mg/L
03C15P3	07/10/91	MAGNESIUM	20.40000	mg/L
03C15P3	07/10/91	POTASSIUM	1.90000	mg/L
03C15P3	07/10/91	BICARBONATE	265.00000	mg/L
03C15P3	10/05/91	pH	7.43000	S.U.
03C15P3	10/05/91	SPECIFIC CONDUCTANCE	380.00000	umho/cm
03C15P3	10/05/91	SODIUM	3.60000	mg/L
03C15P3	10/05/91	BICARBONATE	238.00000	mg/L
03C15P3	10/05/91	CALCIUM	50.10000	mg/L
03C15P3	10/05/91	MAGNESIUM	22.20000	mg/L
03C15P3	10/05/91	POTASSIUM	1.50000	mg/L
03C15P3	01/06/92	pH	8.30000	S.U.
03C15P3	01/06/92	SPECIFIC CONDUCTANCE	349.00000	umho/cm

03C15P3	01/06/92	TOTAL ORGANIC CARBON	1.33000	mg/L
03C15P3	01/06/92	MANGANESE	0.00500	mg/L
03C15P3	01/06/92	SODIUM	4.30000	mg/L
03C15P3	01/06/92	CALCIUM	52.10000	mg/L
03C15P3	01/06/92	MAGNESIUM	24.70000	mg/L
03C15P3	01/06/92	POTASSIUM	2.90000	mg/L
03C15P3	01/06/92	SULFATE	68.00000	mg/L
03C15P3	01/06/92	CHLORIDE	7.00000	mg/L
03C15P3	01/06/92	BICARBONATE	221.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C18	11/03/87	pH	7.37000	S.U.
03C18	11/03/87	SPECIFIC CONDUCTANCE	1209.00000	umho/cm
03C18	11/03/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C18	11/03/87	MANGANESE	0.22000	mg/L
03C18	11/03/87	SODIUM	69.00000	mg/L
03C18	11/03/87	SULFATE	335.00000	mg/L
03C18	11/03/87	CHLORIDE	9.00000	mg/L
03C18	11/03/87	CADMIUM, TOTAL	0.05000	mg/L
03C18	11/03/87	RADIUM, TOTAL	0.00000	pCi/l
03C18	11/03/87	GROSS ALPHA	0.50000	pCi/l
03C18	11/03/87	GROSS BETA	7.80000	mlrem/y
03C18	11/03/87	1,1-DICHLOROETHENE	0.05000	mg/L
03C18	11/03/87	BENZENE	0.00900	mg/L
03C18	02/02/88	pH	7.34000	S.U.
03C18	02/02/88	SPECIFIC CONDUCTANCE	1086.00000	umho/cm
03C18	02/02/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C18	02/02/88	MANGANESE	0.01000	mg/L
03C18	02/02/88	SODIUM	99.00000	mg/L
03C18	02/02/88	SULFATE	300.00000	mg/L
03C18	02/02/88	CHLORIDE	4.00000	mg/L
03C18	02/02/88	BARIUM, TOTAL	0.06000	mg/L
03C18	02/02/88	FLUORIDE, TOTAL	0.18000	mg/L
03C18	02/02/88	NITRATE-N	0.68000	mg/L
03C18	02/02/88	RADIUM, TOTAL	0.00000	pCi/l
03C18	02/02/88	GROSS ALPHA	2.10000	pCi/l
03C18	02/02/88	GROSS BETA	9.60000	mlrem/y
03C18	02/02/88	COLIFORM	0.00000	#/100ml
03C18	04/23/88	pH	7.07000	S.U.
03C18	04/23/88	SPECIFIC CONDUCTANCE	1210.00000	umho/cm
03C18	04/23/88	TOTAL ORGANIC CARBON	5.00000	mg/L
03C18	04/23/88	MANGANESE	0.07000	mg/L
03C18	04/23/88	SODIUM	112.00000	mg/L
03C18	04/23/88	SULFATE	295.00000	mg/L
03C18	04/23/88	CHLORIDE	4.00000	mg/L
03C18	04/23/88	BARIUM, TOTAL	0.06000	mg/L
03C18	04/23/88	FLUORIDE, TOTAL	0.20000	mg/L
03C18	04/23/88	NITRATE-N	0.39000	mg/L
03C18	04/23/88	RADIUM, TOTAL	0.10000	mg/L
03C18	04/23/88	GROSS ALPHA	0.00000	mg/L
03C18	04/23/88	GROSS BETA	6.20000	mg/L
03C18	04/23/88	COLIFORM	0.00000	#/100ml
03C18	04/23/88	TRICHLOROETHYLENE	0.00800	mg/L
03C18	07/22/88	pH	7.20000	S.U.
03C18	07/22/88	SPECIFIC CONDUCTANCE	1227.00000	umho/cm
03C18	07/22/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C18	07/22/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.15000	mg/L
03C18	10/24/88	pH	6.80000	S.U.
03C18	10/24/88	SPECIFIC CONDUCTANCE	921.00000	umho/cm
03C18	10/24/88	TOTAL ORGANIC CARBON	2.00000	mg/L
03C18	10/24/88	MANGANESE	0.12000	mg/L
03C18	10/24/88	SODIUM	65.00000	mg/L
03C18	10/24/88	SULFATE	305.00000	mg/L
03C18	10/24/88	CHLORIDE	5.00000	mg/L
03C18	10/24/88	BICARBONATE	762.00000	mg/L
03C18	10/24/88	CALCIUM	130.00000	mg/L
03C18	10/24/88	MAGNESIUM	63.00000	mg/L
03C18	10/24/88	POTASSIUM	2.00000	mg/L
03C18	10/24/88	FLUORIDE, TOTAL	0.12000	mg/L

03C18	10/24/88	GROSS BETA	4.00000	pcu/L
03C18	10/24/88	COLIFORM	0.00000	TC/.1L
03C18	01/13/89	pH	7.60000	S.U.
03C18	01/13/89	SPECIFIC CONDUCTANCE	1097.00000	umho/cm
03C18	01/13/89	TOTAL ORGANIC CARBON	1.00000	mg/L
03C18	01/13/89	MANGANESE	0.06000	mg/L
03C18	01/13/89	SODIUM	105.00000	mg/L
03C18	01/13/89	SULFATE	300.00000	mg/L
03C18	01/13/89	CHLORIDE	5.00000	mg/L
03C18	01/13/89	BICARBONATE	728.00000	mg/L
03C18	01/13/89	CALCIUM	160.00000	mg/L
03C18	01/13/89	MAGNESIUM	65.00000	mg/L
03C18	01/13/89	POTASSIUM	7.50000	mg/L
03C18	01/13/89	FLUORIDE, TOTAL	0.40000	mg/L
03C18	01/13/89	NITRATE-N	2.00000	mg/L
03C18	01/13/89	COLIFORM	0.00000	TC/.1L
03C18	04/13/89	pH	7.70000	S.U.
03C18	04/13/89	SPECIFIC CONDUCTANCE	1130.00000	umho/cm
03C18	04/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C18	04/13/89	SODIUM	52.00000	mg/L
03C18	04/13/89	CALCIUM	112.00000	mg/L
03C18	04/13/89	MAGNESIUM	49.00000	mg/L
03C18	04/13/89	POTASSIUM	8.00000	mg/L
03C18	04/13/89	SULFATE	300.00000	mg/L
03C18	04/13/89	CHLORIDE	15.00000	mg/L
03C18	04/13/89	BICARBONATE	432.00000	mg/L
03C18	04/13/89	AMMONIA-NITROGEN	0.35000	mg/L
03C18	04/13/89	FLUORIDE, TOTAL	0.11000	mg/L
03C18	04/13/89	NITRATE-N	4.90000	mg/L
03C18	04/13/89	COLIFORM	0.00000	TC/.1L
03C18	04/13/89	TRICHLOROETHYLENE	0.00300	mg/L
03C18	07/13/89	pH	7.00000	S.U.
03C18	07/13/89	SPECIFIC CONDUCTANCE	1201.00000	umho/cm
03C18	07/13/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C18	07/13/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C18	07/13/89	MANGANESE	0.07000	mg/L
03C18	07/13/89	SODIUM	83.00000	mg/L
03C18	07/13/89	CALCIUM	136.00000	mg/L
03C18	07/13/89	MAGNESIUM	63.00000	mg/L
03C18	07/13/89	POTASSIUM	6.00000	mg/L
03C18	07/13/89	SULFATE	250.00000	mg/L
03C18	07/13/89	CHLORIDE	12.00000	mg/L
03C18	07/13/89	BICARBONATE	439.00000	mg/L
03C18	07/13/89	AMMONIA-NITROGEN	0.50000	mg/L
03C18	07/13/89	FLUORIDE, TOTAL	0.14000	mg/L
03C18	07/13/89	NITRATE-N	0.90000	mg/L
03C18	07/13/89	COLIFORM	0.00000	TC/.1L
03C18	10/20/89	pH	7.70000	S.U.
03C18	10/20/89	SPECIFIC CONDUCTANCE	1101.00000	umho/cm
03C18	10/20/89	CALCIUM	97.00000	mg/L
03C18	10/20/89	MAGNESIUM	41.00000	mg/L
03C18	10/20/89	POTASSIUM	5.10000	mg/L
03C18	10/20/89	BICARBONATE	341.00000	mg/L
03C18	01/27/90	pH	7.30000	S.U.
03C18	01/27/90	SPECIFIC CONDUCTANCE	1038.00000	umho/cm
03C18	01/27/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C18	01/27/90	MANGANESE	0.02300	mg/L
03C18	01/27/90	SODIUM	49.00000	mg/L
03C18	01/27/90	CALCIUM	112.00000	mg/L
03C18	01/27/90	MAGNESIUM	49.00000	mg/L

03C18	01/27/90	POTASSIUM	6.00000	mg/L
03C18	01/27/90	SULFATE	300.00000	mg/L
03C18	01/27/90	CHLORIDE	10.00000	mg/L
03C18	01/27/90	BICARBONATE	439.00000	mg/L
03C18	01/27/90	AMMONIA-NITROGEN	0.20000	mg/L
03C18	01/27/90	TRICHLOROETHYLENE	0.00200	mg/L
03C18	04/20/90	pH	7.90000	S.U.
03C18	04/20/90	SPECIFIC CONDUCTANCE	990.00000	umho/cm
03C18	04/20/90	CALCIUM	147.00000	mg/L
03C18	04/20/90	MAGNESIUM	65.00000	mg/L
03C18	04/20/90	POTASSIUM	6.00000	mg/L
03C18	04/20/90	BICARBONATE	468.00000	mg/L
03C18	07/13/90	pH	7.30000	S.U.
03C18	07/13/90	SPECIFIC CONDUCTANCE	1056.00000	umho/cm
03C18	07/13/90	TOTAL ORGANIC CARBON	3.10000	mg/L
03C18	07/13/90	SODIUM	59.00000	mg/L
03C18	07/13/90	CALCIUM	123.00000	mg/L
03C18	07/13/90	MAGNESIUM	54.00000	mg/L
03C18	07/13/90	POTASSIUM	5.00000	mg/L
03C18	07/13/90	BICARBONATE	424.00000	mg/L
03C18	07/13/90	AMMONIA-NITROGEN	1.40000	mg/L
03C18	10/17/90	pH	7.10000	S.U.
03C18	10/17/90	SPECIFIC CONDUCTANCE	990.00000	umho/cm
03C18	10/17/90	SODIUM	80.00000	mg/L
03C18	10/17/90	CALCIUM	122.00000	mg/L
03C18	10/17/90	MAGNESIUM	56.00000	mg/L
03C18	10/17/90	POTASSIUM	5.00000	mg/L
03C18	10/17/90	AMMONIA-NITROGEN	0.61000	mg/L
03C18	01/15/91	pH	7.25000	S.U.
03C18	01/15/91	SPECIFIC CONDUCTANCE	1065.00000	umho/cm
03C18	01/15/91	TOTAL ORGANIC CARBON	1.50000	mg/L
03C18	01/15/91	SODIUM	55.00000	mg/L
03C18	01/15/91	CALCIUM	93.00000	mg/L
03C18	01/15/91	MAGNESIUM	61.00000	mg/L
03C18	01/15/91	POTASSIUM	7.00000	mg/L
03C18	01/15/91	SULFATE	300.00000	mg/L
03C18	01/15/91	CHLORIDE	12.00000	mg/L
03C18	01/15/91	BICARBONATE	451.00000	mg/L
03C18	01/15/91	AMMONIA-NITROGEN	0.60000	mg/L
03C18	04/05/91	pH	7.24000	S.U.
03C18	04/05/91	SPECIFIC CONDUCTANCE	960.00000	umho/cm
03C18	04/05/91	CALCIUM	116.10000	mg/L
03C18	04/05/91	MAGNESIUM	52.60000	mg/L
03C18	04/05/91	POTASSIUM	4.90000	mg/L
03C18	04/05/91	BICARBONATE	442.00000	mg/L
03C18	04/05/91	AMMONIA-NITROGEN	0.68000	mg/L
03C18	07/09/91	pH	7.03000	S.U.
03C18	07/09/91	SPECIFIC CONDUCTANCE	1050.00000	umho/cm
03C18	07/09/91	TOTAL ORGANIC CARBON	1.03000	mg/L
03C18	07/09/91	MANGANESE	0.00900	mg/L
03C18	07/09/91	SODIUM	51.40000	mg/L
03C18	07/09/91	CALCIUM	106.30000	mg/L
03C18	07/09/91	MAGNESIUM	48.80000	mg/L
03C18	07/09/91	POTASSIUM	5.60000	mg/L
03C18	07/09/91	BICARBONATE	484.00000	mg/L
03C18	10/05/91	pH	7.32000	S.U.
03C18	10/05/91	SPECIFIC CONDUCTANCE	955.00000	umho/cm
03C18	10/05/91	SODIUM	44.30000	mg/L
03C18	10/05/91	TRICHLOROETHYLENE	0.00800	mg/L
03C18	10/05/91	AMMONIA-NITROGEN	0.71000	mg/L

03C18	10/05/91	BICARBONATE	403.00000	mg/L
03C18	10/05/91	CALCIUM	93.70000	mg/L
03C18	10/05/91	MAGNESIUM	45.90000	mg/L
03C18	10/05/91	POTASSIUM	8.30000	mg/L
03C18	01/06/92	pH	8.10000	S.U.
03C18	01/06/92	SPECIFIC CONDUCTANCE	871.00000	umho/cm
03C18	01/06/92	TOTAL ORGANIC CARBON	1.21000	mg/L
03C18	01/06/92	SODIUM	57.90000	mg/L
03C18	01/06/92	CALCIUM	121.10000	mg/L
03C18	01/06/92	MAGNESIUM	51.40000	mg/L
03C18	01/06/92	POTASSIUM	8.70000	mg/L
03C18	01/06/92	SULFATE	290.00000	mg/L
03C18	01/06/92	CHLORIDE	15.00000	mg/L
03C18	01/06/92	BICARBONATE	418.00000	mg/L
03C18	01/06/92	AMMONIA-NITROGEN	0.46000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C19P3	11/18/87	pH	6.88000	S.U.
03C19P3	11/18/87	SPECIFIC CONDUCTANCE	902.00000	umho/cm
03C19P3	11/18/87	TOTAL ORGANIC CARBON	5.00000	mg/L
03C19P3	11/18/87	MANGANESE	0.02000	mg/L
03C19P3	11/18/87	SODIUM	6.00000	mg/L
03C19P3	11/18/87	SULFATE	18.00000	mg/L
03C19P3	11/18/87	CHLORIDE	9.00000	mg/L
03C19P3	11/18/87	FLUORIDE, TOTAL	0.18000	mg/L
03C19P3	11/18/87	RADIUM, TOTAL	0.00000	pCi/l
03C19P3	11/18/87	GROSS ALPHA	0.50000	pCi/l
03C19P3	11/18/87	GROSS BETA	7.00000	mlrem/y
03C19P3	11/18/87	METHYLENE CHLORIDE	0.00900	mg/L
03C19P3	11/18/87	CHLOROFORM	0.00200	mg/L
03C19P3	12/09/87	pH	6.60000	S.U.
03C19P3	12/09/87	SPECIFIC CONDUCTANCE	348.00000	umho/cm
03C19P3	12/09/87	TOTAL ORGANIC CARBON	6.00000	mg/L
03C19P3	12/09/87	MANGANESE	0.01900	mg/L
03C19P3	12/09/87	SODIUM	6.00000	mg/L
03C19P3	12/09/87	SULFATE	42.00000	mg/L
03C19P3	12/09/87	CHLORIDE	9.00000	mg/L
03C19P3	12/09/87	RADIUM, TOTAL	0.00000	pCi/l
03C19P3	12/09/87	GROSS ALPHA	0.50000	pCi/l
03C19P3	12/09/87	GROSS BETA	6.50000	mlrem/y
03C19P3	12/09/87	CHLOROFORM	0.00300	mg/L
03C19P3	01/30/88	pH	7.45000	S.U.
03C19P3	01/30/88	SPECIFIC CONDUCTANCE	946.00000	umho/cm
03C19P3	01/30/88	TOTAL ORGANIC CARBON	3.00000	mg/L
03C19P3	01/30/88	TOTAL ORGANIC HALOGENS	0.01700	mg/L
03C19P3	01/30/88	SODIUM	22.00000	mg/L
03C19P3	01/30/88	SULFATE	130.00000	mg/L
03C19P3	01/30/88	CHLORIDE	3.00000	mg/L
03C19P3	01/30/88	BARIUM, TOTAL	0.06000	mg/L
03C19P3	01/30/88	MERCURY, TOTAL	0.00800	mg/L
03C19P3	01/30/88	FLUORIDE, TOTAL	0.18000	mg/L
03C19P3	01/30/88	NITRATE-N	0.60000	mg/L
03C19P3	01/30/88	RADIUM, TOTAL	0.00000	pCi/l
03C19P3	01/30/88	GROSS ALPHA	0.80000	pCi/l
03C19P3	01/30/88	GROSS BETA	6.50000	mlrem/y
03C19P3	01/30/88	COLIFORM	2.00000	#/100ml
03C19P3	04/15/89	TOTAL ORGANIC CARBON	3.00000	mg/L
03C19P3	04/15/89	SODIUM	14.20000	mg/L
03C19P3	04/15/89	CALCIUM	74.60000	mg/L
03C19P3	04/15/89	MAGNESIUM	51.30000	mg/L
03C19P3	04/15/89	POTASSIUM	7.00000	mg/L
03C19P3	04/15/89	SULFATE	118.00000	mg/L
03C19P3	04/15/89	CHLORIDE	8.00000	mg/L
03C19P3	04/15/89	BICARBONATE	325.00000	mg/L
03C19P3	04/15/89	BARIUM, TOTAL	0.06000	mg/L
03C19P3	04/15/89	FLUORIDE, TOTAL	0.17000	mg/L
03C19P3	04/15/89	NITRATE-N	2.20000	mg/L
03C19P3	04/15/89	COLIFORM	0.00000	TC/.1L
03C19P3	10/23/89	pH	7.30000	S.U.
03C19P3	10/23/89	SPECIFIC CONDUCTANCE	858.00000	umho/cm
03C19P3	10/23/89	CALCIUM	87.00000	mg/L
03C19P3	10/23/89	MAGNESIUM	58.00000	mg/L
03C19P3	10/23/89	BICARBONATE	449.00000	mg/L
03C19P3	10/23/89	TRICHLOROETHYLENE	0.00200	mg/L
03C19P3	04/24/90	pH	7.30000	S.U.

03C19P3	04/24/90	SPECIFIC CONDUCTANCE	834.00000	umho/cm
03C19P3	04/24/90	CALCIUM	95.00000	mg/L
03C19P3	04/24/90	MAGNESIUM	69.00000	mg/L
03C19P3	04/24/90	POTASSIUM	5.00000	mg/L
03C19P3	04/24/90	BICARBONATE	538.00000	mg/L
03C19P3	07/18/90	pH	7.40000	S.U.
03C19P3	07/18/90	SPECIFIC CONDUCTANCE	896.00000	umho/cm
03C19P3	07/18/90	TOTAL ORGANIC CARBON	1.00000	mg/L
03C19P3	07/18/90	SODIUM	19.00000	mg/L
03C19P3	07/18/90	CALCIUM	90.00000	mg/L
03C19P3	07/18/90	MAGNESIUM	61.00000	mg/L
03C19P3	07/18/90	POTASSIUM	5.00000	mg/L
03C19P3	07/18/90	BICARBONATE	535.00000	mg/L
03C19P3	07/18/90	TRICHLOROETHYLENE	0.00200	mg/L
03C19P3	10/21/90	pH	7.40000	S.U.
03C19P3	10/21/90	SPECIFIC CONDUCTANCE	942.00000	umho/cm
03C19P3	10/21/90	SODIUM	28.00000	mg/L
03C19P3	10/21/90	CALCIUM	97.00000	mg/L
03C19P3	10/21/90	MAGNESIUM	63.00000	mg/L
03C19P3	04/07/91	pH	7.18000	S.U.
03C19P3	04/07/91	SPECIFIC CONDUCTANCE	889.00000	umho/cm
03C19P3	04/07/91	CALCIUM	92.60000	mg/L
03C19P3	04/07/91	MAGNESIUM	62.30000	mg/L
03C19P3	04/07/91	POTASSIUM	9.10000	mg/L
03C19P3	04/07/91	BICARBONATE	556.00000	mg/L
03C19P3	07/17/91	pH	7.27000	S.U.
03C19P3	07/17/91	SPECIFIC CONDUCTANCE	886.00000	umho/cm
03C19P3	07/17/91	TOTAL ORGANIC CARBON	1.25000	mg/L
03C19P3	07/17/91	IRON, TOTAL	0.10000	mg/L
03C19P3	07/17/91	MANGANESE	0.04000	mg/L
03C19P3	07/17/91	SODIUM	21.50000	mg/L
03C19P3	07/17/91	CALCIUM	88.80000	mg/L
03C19P3	07/17/91	MAGNESIUM	66.50000	mg/L
03C19P3	07/17/91	POTASSIUM	5.10000	mg/L
03C19P3	07/17/91	BICARBONATE	586.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C21P3	10/23/87	pH	7.68000	S.U.
03C21P3	10/23/87	SPECIFIC CONDUCTANCE	596.00000	umho/cm
03C21P3	10/23/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C21P3	10/23/87	MANGANESE	0.01800	mg/L
03C21P3	10/23/87	SODIUM	10.00000	mg/L
03C21P3	10/23/87	SULFATE	30.00000	mg/L
03C21P3	10/23/87	CHLORIDE	5.00000	mg/L
03C21P3	10/23/87	FLUORIDE, TOTAL	0.16000	mg/L
03C21P3	10/23/87	NITRATE-N	0.65000	mg/L
03C21P3	10/23/87	RADIUM, TOTAL	0.00000	pCi/l
03C21P3	10/23/87	GROSS ALPHA	0.00000	pCi/l
03C21P3	10/23/87	GROSS BETA	1.50000	mlrem/y
03C21P3	10/23/87	CARBON TETRACHLORIDE	0.00600	mg/L
03C21P3	02/04/88	pH	7.62000	S.U.
03C21P3	02/04/88	SPECIFIC CONDUCTANCE	575.00000	umho/cm
03C21P3	02/04/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C21P3	02/04/88	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C21P3	02/04/88	MANGANESE	0.30000	mg/L
03C21P3	02/04/88	SODIUM	14.00000	mg/L
03C21P3	02/04/88	SULFATE	90.00000	mg/L
03C21P3	02/04/88	CHLORIDE	5.00000	mg/L
03C21P3	02/04/88	FLUORIDE, TOTAL	0.28000	mg/L
03C21P3	02/04/88	NITRATE-N	0.72000	mg/L
03C21P3	02/04/88	RADIUM, TOTAL	0.10000	pCi/l
03C21P3	02/04/88	GROSS ALPHA	0.00000	pCi/l
03C21P3	02/04/88	GROSS BETA	3.40000	mlrem/y
03C21P3	02/04/88	COLIFORM	0.00000	#/100ml
03C21P3	04/22/88	pH	7.51000	S.U.
03C21P3	04/22/88	SPECIFIC CONDUCTANCE	721.00000	umho/cm
03C21P3	04/22/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C21P3	04/22/88	IRON, TOTAL	0.04000	mg/L
03C21P3	04/22/88	MANGANESE	0.07700	mg/L
03C21P3	04/22/88	SODIUM	14.00000	mg/L
03C21P3	04/22/88	SULFATE	80.00000	mg/L
03C21P3	04/22/88	CHLORIDE	2.00000	mg/L
03C21P3	04/22/88	BARIUM, TOTAL	0.05000	mg/L
03C21P3	04/22/88	FLUORIDE, TOTAL	0.47000	mg/L
03C21P3	04/22/88	NITRATE-N	0.28000	mg/L
03C21P3	04/22/88	RADIUM, TOTAL	0.10000	mg/L
03C21P3	04/22/88	GROSS ALPHA	0.00000	mg/L
03C21P3	04/22/88	GROSS BETA	2.90000	mg/L
03C21P3	04/22/88	COLIFORM	0.00000	#/100ml
03C21P3	07/15/89	pH	7.50000	S.U.
03C21P3	07/15/89	SPECIFIC CONDUCTANCE	694.00000	umho/cm
03C21P3	07/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C21P3	07/15/89	TOTAL ORGANIC HALOGENS	0.09000	mg/L
03C21P3	07/15/89	MANGANESE	0.04600	mg/L
03C21P3	07/15/89	SODIUM	7.10000	mg/L
03C21P3	07/15/89	CALCIUM	69.00000	mg/L
03C21P3	07/15/89	MAGNESIUM	35.00000	mg/L
03C21P3	07/15/89	POTASSIUM	3.20000	mg/L
03C21P3	07/15/89	SULFATE	78.00000	mg/L
03C21P3	07/15/89	CHLORIDE	6.00000	mg/L
03C21P3	07/15/89	BICARBONATE	381.00000	mg/L
03C21P3	07/15/89	BARIUM, TOTAL	0.04000	mg/L
03C21P3	07/15/89	FLUORIDE, TOTAL	0.12000	mg/L
03C21P3	07/15/89	NITRATE-N	0.20000	mg/L
03C21P3	07/15/89	COLIFORM	0.00000	TC/.1L

03C21P3	07/15/89	TRICHLOROETHYLENE	0.06700	mg/L
03C21P3	10/22/89	pH	8.20000	S.U.
03C21P3	10/22/89	SPECIFIC CONDUCTANCE	633.00000	umho/cm
03C21P3	10/22/89	CALCIUM	64.00000	mg/L
03C21P3	10/22/89	MAGNESIUM	37.00000	mg/L
03C21P3	10/22/89	POTASSIUM	3.60000	mg/L
03C21P3	10/22/89	BICARBONATE	375.00000	mg/L
03C21P3	10/22/89	TRICHLOROETHYLENE	0.05500	mg/L
03C21P3	01/27/90	pH	7.80000	S.U.
03C21P3	01/27/90	SPECIFIC CONDUCTANCE	640.00000	umho/cm
03C21P3	01/27/90	TOTAL ORGANIC CARBON	1.80000	mg/L
03C21P3	01/27/90	MANGANESE	0.02100	mg/L
03C21P3	01/27/90	SODIUM	8.00000	mg/L
03C21P3	01/27/90	CALCIUM	87.00000	mg/L
03C21P3	01/27/90	MAGNESIUM	40.00000	mg/L
03C21P3	01/27/90	POTASSIUM	2.00000	mg/L
03C21P3	01/27/90	SULFATE	80.00000	mg/L
03C21P3	01/27/90	CHLORIDE	7.00000	mg/L
03C21P3	01/27/90	BICARBONATE	354.00000	mg/L
03C21P3	04/24/90	pH	7.80000	S.U.
03C21P3	04/24/90	SPECIFIC CONDUCTANCE	642.00000	umho/cm
03C21P3	04/24/90	IRON, TOTAL	0.08000	mg/L
03C21P3	04/24/90	CALCIUM	84.00000	mg/L
03C21P3	04/24/90	MAGNESIUM	52.00000	mg/L
03C21P3	04/24/90	POTASSIUM	4.00000	mg/L
03C21P3	04/24/90	BICARBONATE	398.00000	mg/L
03C21P3	07/17/90	pH	7.60000	S.U.
03C21P3	07/17/90	SPECIFIC CONDUCTANCE	602.00000	umho/cm
03C21P3	07/17/90	TOTAL ORGANIC CARBON	1.00000	mg/L
03C21P3	07/17/90	SODIUM	8.00000	mg/L
03C21P3	07/17/90	CALCIUM	65.00000	mg/L
03C21P3	07/17/90	MAGNESIUM	40.00000	mg/L
03C21P3	07/17/90	POTASSIUM	3.00000	mg/L
03C21P3	07/17/90	BICARBONATE	365.00000	mg/L
03C21P3	10/16/90	pH	7.50000	S.U.
03C21P3	10/16/90	SPECIFIC CONDUCTANCE	642.00000	umho/cm
03C21P3	10/16/90	SODIUM	6.00000	mg/L
03C21P3	10/16/90	CALCIUM	53.00000	mg/L
03C21P3	10/16/90	MAGNESIUM	32.00000	mg/L
03C21P3	10/16/90	POTASSIUM	2.00000	mg/L
03C21P3	01/16/91	pH	7.59000	S.U.
03C21P3	01/16/91	SPECIFIC CONDUCTANCE	630.00000	umho/cm
03C21P3	01/16/91	TOTAL ORGANIC CARBON	0.89000	mg/L
03C21P3	01/16/91	SODIUM	7.00000	mg/L
03C21P3	01/16/91	CALCIUM	57.00000	mg/L
03C21P3	01/16/91	MAGNESIUM	55.00000	mg/L
03C21P3	01/16/91	POTASSIUM	5.00000	mg/L
03C21P3	01/16/91	SULFATE	72.00000	mg/L
03C21P3	01/16/91	CHLORIDE	12.00000	mg/L
03C21P3	01/16/91	BICARBONATE	378.00000	mg/L
03C21P3	04/03/91	pH	7.47000	S.U.
03C21P3	04/03/91	SPECIFIC CONDUCTANCE	600.00000	umho/cm
03C21P3	04/03/91	CALCIUM	71.70000	mg/L
03C21P3	04/03/91	MAGNESIUM	43.30000	mg/L
03C21P3	04/03/91	POTASSIUM	2.60000	mg/L
03C21P3	04/03/91	BICARBONATE	395.00000	mg/L
03C21P3	07/09/91	pH	7.26000	S.U.
03C21P3	07/09/91	SPECIFIC CONDUCTANCE	558.00000	umho/cm
03C21P3	07/09/91	TOTAL ORGANIC CARBON	0.74000	mg/L
03C21P3	07/09/91	IRON, TOTAL	0.12000	mg/L

03C21P3	07/09/91	MANGANESE	0.01000	mg/L
03C21P3	07/09/91	SODIUM	9.70000	mg/L
03C21P3	07/09/91	CALCIUM	58.40000	mg/L
03C21P3	07/09/91	MAGNESIUM	31.80000	mg/L
03C21P3	07/09/91	POTASSIUM	3.40000	mg/L
03C21P3	07/09/91	BICARBONATE	359.00000	mg/L
03C21P3	07/09/91	AMMONIA-NITROGEN	0.08000	mg/L
03C21P3	07/09/91	TRICHLOROETHENE	0.00200	mg/L
03C21P3	10/05/91	pH	7.25000	S.U.
03C21P3	10/05/91	SPECIFIC CONDUCTANCE	492.00000	umho/cm
03C21P3	10/05/91	SODIUM	7.00000	mg/L
03C21P3	10/05/91	BICARBONATE	354.00000	mg/L
03C21P3	10/05/91	CALCIUM	76.50000	mg/L
03C21P3	10/05/91	MAGNESIUM	45.40000	mg/L
03C21P3	10/05/91	POTASSIUM	4.00000	mg/L
03C21P3	01/02/92	pH	7.70000	S.U.
03C21P3	01/02/92	SPECIFIC CONDUCTANCE	515.00000	umho/cm
03C21P3	01/02/92	TOTAL ORGANIC CARBON	0.98000	mg/L
03C21P3	01/02/92	SODIUM	5.70000	mg/L
03C21P3	01/02/92	CALCIUM	69.30000	mg/L
03C21P3	01/02/92	MAGNESIUM	20.90000	mg/L
03C21P3	01/02/92	POTASSIUM	1.50000	mg/L
03C21P3	01/02/92	BICARBONATE	293.00000	mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C22	11/11/87	pH	8.10000	S.U.
03C22	11/11/87	SPECIFIC CONDUCTANCE	348.00000	umho/cm
03C22	11/11/87	TOTAL ORGANIC CARBON	3.00000	mg/L
03C22	11/11/87	TOTAL ORGANIC HALOGENS	0.01700	mg/L
03C22	11/11/87	IRON, TOTAL	0.02000	mg/L
03C22	11/11/87	MANGANESE	0.01000	mg/L
03C22	11/11/87	SODIUM	22.00000	mg/L
03C22	11/11/87	SULFATE	70.00000	mg/L
03C22	11/11/87	CHLORIDE	16.00000	mg/L
03C22	11/11/87	FLUORIDE, TOTAL	0.21000	mg/L
03C22	11/11/87	NITRATE-N	0.19000	mg/L
03C22	11/11/87	RADIUM, TOTAL	0.00000	pCi/l
03C22	11/11/87	GROSS ALPHA	0.00000	pCi/l
03C22	11/11/87	GROSS BETA	1.80000	mlrem/y
03C22	02/02/88	pH	7.84000	S.U.
03C22	02/02/88	SPECIFIC CONDUCTANCE	525.00000	umho/cm
03C22	02/02/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C22	02/02/88	MANGANESE	0.02000	mg/L
03C22	02/02/88	SODIUM	16.00000	mg/L
03C22	02/02/88	SULFATE	71.00000	mg/L
03C22	02/02/88	CHLORIDE	9.00000	mg/L
03C22	02/02/88	SELENIUM, TOTAL	0.00600	mg/L
03C22	02/02/88	FLUORIDE, TOTAL	0.24000	mg/L
03C22	02/02/88	NITRATE-N	0.24000	mg/L
03C22	02/02/88	RADIUM, TOTAL	0.00000	pCi/l
03C22	02/02/88	GROSS ALPHA	0.00000	pCi/l
03C22	02/02/88	GROSS BETA	4.20000	mlrem/y
03C22	02/02/88	COLIFORM	0.00000	#/100ml
03C22	04/27/88	pH	7.59000	S.U.
03C22	04/27/88	SPECIFIC CONDUCTANCE	491.00000	umho/cm
03C22	04/27/88	TOTAL ORGANIC CARBON	7.00000	mg/L
03C22	04/27/88	IRON, TOTAL	0.01000	mg/L
03C22	04/27/88	MANGANESE	0.00600	mg/L
03C22	04/27/88	SODIUM	15.00000	mg/L
03C22	04/27/88	SULFATE	66.00000	mg/L
03C22	04/27/88	CHLORIDE	16.00000	mg/L
03C22	04/27/88	FLUORIDE, TOTAL	0.21000	mg/L
03C22	04/27/88	NITRATE-N	0.10000	mg/L
03C22	04/27/88	2,4,5-TP	0.01000	mg/L
03C22	04/27/88	RADIUM, TOTAL	0.10000	mg/L
03C22	04/27/88	GROSS ALPHA	0.00000	mg/L
03C22	04/27/88	GROSS BETA	3.20000	mg/L
03C22	07/26/88	pH	7.40000	S.U.
03C22	07/26/88	SPECIFIC CONDUCTANCE	634.00000	umho/cm
03C22	07/26/88	TOTAL ORGANIC CARBON	6.00000	mg/L
03C22	10/24/88	pH	7.60000	S.U.
03C22	10/24/88	SPECIFIC CONDUCTANCE	495.00000	umho/cm
03C22	10/24/88	TOTAL ORGANIC CARBON	1.00000	mg/L
03C22	10/24/88	MANGANESE	0.02000	mg/L
03C22	10/24/88	SODIUM	17.00000	mg/L
03C22	10/24/88	SULFATE	80.00000	mg/L
03C22	10/24/88	CHLORIDE	7.00000	mg/L
03C22	10/24/88	BICARBONATE	439.00000	mg/L
03C22	10/24/88	CALCIUM	64.00000	mg/L
03C22	10/24/88	MAGNESIUM	20.00000	mg/L
03C22	10/24/88	POTASSIUM	5.00000	mg/L
03C22	10/24/88	FLUORIDE, TOTAL	0.14000	mg/L
03C22	10/24/88	GROSS BETA	2.00000	pcu/L

03C22	10/24/88	COLIFORM	0.00000	TC/.1L
03C22	10/24/88	DI-N-BUTYL PHTHALATE	0.03000	mg/L
03C22	10/24/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.02000	mg/L
03C22	10/24/88	1,1,2,2-TETRACHLOROETHANE	0.02000	mg/L
03C22	01/12/89	pH	7.80000	S.U.
03C22	01/12/89	SPECIFIC CONDUCTANCE	580.00000	umho/cm
03C22	01/12/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C22	01/12/89	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03C22	01/12/89	SODIUM	35.00000	mg/L
03C22	01/12/89	SULFATE	95.00000	mg/L
03C22	01/12/89	CHLORIDE	9.00000	mg/L
03C22	01/12/89	BICARBONATE	677.00000	mg/L
03C22	01/12/89	CALCIUM	82.30000	mg/L
03C22	01/12/89	MAGNESIUM	25.00000	mg/L
03C22	01/12/89	POTASSIUM	3.00000	mg/L
03C22	01/12/89	BARIUM, TOTAL	0.05000	mg/L
03C22	01/12/89	FLUORIDE, TOTAL	0.53000	mg/L
03C22	01/12/89	COLIFORM	0.00000	TC/.1L
03C22	01/12/89	TRICHLOROETHYLENE	0.30000	mg/L
03C22	04/16/89	pH	7.40000	S.U.
03C22	04/16/89	SPECIFIC CONDUCTANCE	632.00000	umho/cm
03C22	04/16/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C22	04/16/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C22	04/16/89	SODIUM	17.50000	mg/L
03C22	04/16/89	CALCIUM	80.40000	mg/L
03C22	04/16/89	MAGNESIUM	22.60000	mg/L
03C22	04/16/89	POTASSIUM	3.50000	mg/L
03C22	04/16/89	SULFATE	58.00000	mg/L
03C22	04/16/89	CHLORIDE	10.00000	mg/L
03C22	04/16/89	BICARBONATE	304.00000	mg/L
03C22	04/16/89	FLUORIDE, TOTAL	0.07000	mg/L
03C22	04/16/89	NITRATE-N	0.25000	mg/L
03C22	04/16/89	COLIFORM	0.00000	TC/.1L
03C22	04/16/89	TRICHLOROETHYLENE	0.00200	mg/L
03C22	07/13/89	pH	8.20000	S.U.
03C22	07/13/89	SPECIFIC CONDUCTANCE	715.00000	umho/cm
03C22	07/13/89	TOTAL ORGANIC CARBON	2.00000	mg/L
03C22	07/13/89	SODIUM	10.00000	mg/L
03C22	07/13/89	CALCIUM	75.00000	mg/L
03C22	07/13/89	MAGNESIUM	18.00000	mg/L
03C22	07/13/89	POTASSIUM	2.50000	mg/L
03C22	07/13/89	SULFATE	45.00000	mg/L
03C22	07/13/89	CHLORIDE	10.00000	mg/L
03C22	07/13/89	BICARBONATE	361.00000	mg/L
03C22	07/13/89	BARIUM, TOTAL	0.03000	mg/L
03C22	07/13/89	FLUORIDE, TOTAL	0.10000	mg/L
03C22	07/13/89	COLIFORM	0.00000	TC/.1L
03C22	07/13/89	DI-N-BUTYL PHTHALATE	0.02000	mg/L
03C22	10/22/89	pH	7.40000	S.U.
03C22	10/22/89	SPECIFIC CONDUCTANCE	570.00000	umho/cm
03C22	10/22/89	CALCIUM	64.00000	mg/L
03C22	10/22/89	MAGNESIUM	17.00000	mg/L
03C22	10/22/89	POTASSIUM	2.80000	mg/L
03C22	10/22/89	BICARBONATE	254.00000	mg/L
03C22	10/22/89	TRICHLOROETHYLENE	0.03600	mg/L
03C22	01/28/90	pH	7.60000	S.U.
03C22	01/28/90	SPECIFIC CONDUCTANCE	584.00000	umho/cm
03C22	01/28/90	TOTAL ORGANIC CARBON	2.60000	mg/L
03C22	01/28/90	TOTAL ORGANIC HALOGENS	0.06000	mg/L
03C22	01/28/90	SODIUM	18.00000	mg/L

03C22	01/28/90	CALCIUM	76.00000	mg/L
03C22	01/28/90	MAGNESIUM	23.00000	mg/L
03C22	01/28/90	POTASSIUM	2.00000	mg/L
03C22	01/28/90	SULFATE	48.00000	mg/L
03C22	01/28/90	CHLORIDE	15.00000	mg/L
03C22	01/28/90	BICARBONATE	464.00000	mg/L
03C22	01/28/90	AMMONIA-NITROGEN	0.80000	mg/L
03C22	04/19/90	pH	7.40000	S.U.
03C22	04/19/90	SPECIFIC CONDUCTANCE	564.00000	umho/cm
03C22	04/19/90	CALCIUM	96.00000	mg/L
03C22	04/19/90	MAGNESIUM	29.00000	mg/L
03C22	04/19/90	POTASSIUM	2.00000	mg/L
03C22	04/19/90	BICARBONATE	508.00000	mg/L
03C22	10/17/90	pH	7.20000	S.U.
03C22	10/17/90	SPECIFIC CONDUCTANCE	621.00000	umho/cm
03C22	10/17/90	SODIUM	26.00000	mg/L
03C22	10/17/90	CALCIUM	96.00000	mg/L
03C22	10/17/90	MAGNESIUM	27.00000	mg/L
03C22	10/17/90	POTASSIUM	2.00000	mg/L
03C22	10/17/90	AMMONIA-NITROGEN	0.07000	mg/L
03C22	01/15/91	pH	7.34000	S.U.
03C22	01/15/91	SPECIFIC CONDUCTANCE	623.00000	umho/cm
03C22	01/15/91	TOTAL ORGANIC CARBON	0.96000	mg/L
03C22	01/15/91	SODIUM	18.00000	mg/L
03C22	01/15/91	CALCIUM	65.00000	mg/L
03C22	01/15/91	MAGNESIUM	29.00000	mg/L
03C22	01/15/91	POTASSIUM	3.00000	mg/L
03C22	01/15/91	SULFATE	67.00000	mg/L
03C22	01/15/91	CHLORIDE	15.00000	mg/L
03C22	01/15/91	BICARBONATE	360.00000	mg/L
03C22	04/05/91	pH	7.14000	S.U.
03C22	04/05/91	SPECIFIC CONDUCTANCE	544.00000	umho/cm
03C22	04/05/91	CALCIUM	85.80000	mg/L
03C22	04/05/91	MAGNESIUM	26.90000	mg/L
03C22	04/05/91	POTASSIUM	1.40000	mg/L
03C22	04/05/91	BICARBONATE	377.00000	mg/L
03C22	04/05/91	TRICHLOROETHYLENE	0.00300	mg/L
03C22	07/10/91	pH	7.18000	S.U.
03C22	07/10/91	SPECIFIC CONDUCTANCE	655.00000	umho/cm
03C22	07/10/91	TOTAL ORGANIC CARBON	0.87000	mg/L
03C22	07/10/91	MANGANESE	0.00900	mg/L
03C22	07/10/91	SODIUM	14.30000	mg/L
03C22	07/10/91	CALCIUM	72.40000	mg/L
03C22	07/10/91	MAGNESIUM	19.10000	mg/L
03C22	07/10/91	POTASSIUM	0.84000	mg/L
03C22	07/10/91	BICARBONATE	418.00000	mg/L
03C22	10/01/91	pH	7.15000	S.U.
03C22	10/01/91	SPECIFIC CONDUCTANCE	669.00000	umho/cm
03C22	10/01/91	SODIUM	15.10000	mg/L
03C22	10/01/91	TRICHLOROETHYLENE	0.00300	mg/L
03C22	10/01/91	BICARBONATE	384.00000	mg/L
03C22	10/01/91	CALCIUM	73.70000	mg/L
03C22	10/01/91	MAGNESIUM	22.60000	mg/L
03C22	10/01/91	POTASSIUM	7.20000	mg/L
03C22	12/31/91	pH	7.90000	S.U.
03C22	12/31/91	SPECIFIC CONDUCTANCE	661.00000	umho/cm
03C22	12/31/91	TOTAL ORGANIC CARBON	1.58000	mg/L
03C22	12/31/91	SODIUM	15.00000	mg/L
03C22	12/31/91	CALCIUM	81.00000	mg/L
03C22	12/31/91	MAGNESIUM	23.10000	mg/L

03C22	12/31/91	POTASSIUM	4.20000 mg/L
03C22	12/31/91	SULFATE	68.00000 mg/L
03C22	12/31/91	CHLORIDE	10.00000 mg/L
03C22	12/31/91	BICARBONATE	365.00000 mg/L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03C23	11/11/87	pH	7.30000	S.U.
03C23	11/11/87	SPECIFIC CONDUCTANCE	565.00000	umho/cm
03C23	11/11/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03C23	11/11/87	SODIUM	13.00000	mg/L
03C23	11/11/87	SULFATE	36.00000	mg/L
03C23	11/11/87	CHLORIDE	11.00000	mg/L
03C23	11/11/87	BARIUM, TOTAL	0.07000	mg/L
03C23	11/11/87	CADMIUM, TOTAL	0.04000	mg/L
03C23	11/11/87	RADIUM, TOTAL	0.00000	pCi/l
03C23	11/11/87	GROSS ALPHA	0.00000	pCi/l
03C23	11/11/87	GROSS BETA	0.20000	mlrem/y
03C23	02/02/88	pH	7.74000	S.U.
03C23	02/02/88	SPECIFIC CONDUCTANCE	511.00000	umho/cm
03C23	02/02/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C23	02/02/88	IRON, TOTAL	0.09000	mg/L
03C23	02/02/88	MANGANESE	0.01000	mg/L
03C23	02/02/88	SODIUM	10.00000	mg/L
03C23	02/02/88	SULFATE	39.00000	mg/L
03C23	02/02/88	CHLORIDE	12.00000	mg/L
03C23	02/02/88	NITRATE-N	0.88000	mg/L
03C23	02/02/88	RADIUM, TOTAL	0.00000	pCi/l
03C23	02/02/88	GROSS ALPHA	1.00000	pCi/l
03C23	02/02/88	GROSS BETA	2.30000	mlrem/y
03C23	02/02/88	COLIFORM	0.00000	#/100ml
03C23	04/24/88	pH	7.74000	S.U.
03C23	04/24/88	SPECIFIC CONDUCTANCE	390.00000	umho/cm
03C23	04/24/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C23	04/24/88	SODIUM	18.00000	mg/L
03C23	04/24/88	SULFATE	53.00000	mg/L
03C23	04/24/88	CHLORIDE	8.00000	mg/L
03C23	04/24/88	FLUORIDE, TOTAL	0.33000	mg/L
03C23	04/24/88	NITRATE-N	0.82000	mg/L
03C23	04/24/88	RADIUM, TOTAL	0.00000	mg/L
03C23	04/24/88	GROSS ALPHA	0.70000	mg/L
03C23	04/24/88	GROSS BETA	3.80000	mg/L
03C23	04/24/88	COLIFORM	0.00000	#/100ml
03C23	07/26/88	pH	7.20000	S.U.
03C23	07/26/88	SPECIFIC CONDUCTANCE	603.00000	umho/cm
03C23	07/26/88	TOTAL ORGANIC CARBON	4.00000	mg/L
03C23	07/26/88	BIS(2-ETHYLHEXYL)PHTHALATE	0.01000	mg/L
03C23	01/12/89	pH	7.36000	S.U.
03C23	01/12/89	SPECIFIC CONDUCTANCE	530.00000	umho/cm
03C23	01/12/89	TOTAL ORGANIC CARBON	5.00000	mg/L
03C23	01/12/89	TOTAL ORGANIC HALOGENS	0.01000	mg/L
03C23	01/12/89	SODIUM	28.00000	mg/L
03C23	01/12/89	SULFATE	56.00000	mg/L
03C23	01/12/89	CHLORIDE	9.00000	mg/L
03C23	01/12/89	BICARBONATE	506.00000	mg/L
03C23	01/12/89	CALCIUM	91.00000	mg/L
03C23	01/12/89	MAGNESIUM	12.00000	mg/L
03C23	01/12/89	POTASSIUM	2.10000	mg/L
03C23	01/12/89	BARIUM, TOTAL	0.09000	mg/L
03C23	01/12/89	FLUORIDE, TOTAL	0.40000	mg/L
03C23	01/12/89	NITRATE-N	3.60000	mg/L
03C23	01/12/89	COLIFORM	2.00000	TC/.1L
03C23	04/15/89	pH	7.50000	S.U.
03C23	04/15/89	SPECIFIC CONDUCTANCE	596.00000	umho/cm
03C23	04/15/89	TOTAL ORGANIC CARBON	2.00000	mg/L

03C23	04/15/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C23	04/15/89	SODIUM	16.00000	mg/L
03C23	04/15/89	CALCIUM	98.00000	mg/L
03C23	04/15/89	MAGNESIUM	12.10000	mg/L
03C23	04/15/89	POTASSIUM	3.00000	mg/L
03C23	04/15/89	SULFATE	56.00000	mg/L
03C23	04/15/89	CHLORIDE	13.00000	mg/L
03C23	04/15/89	BICARBONATE	304.00000	mg/L
03C23	04/15/89	BARIUM, TOTAL	0.10000	mg/L
03C23	04/15/89	FLUORIDE, TOTAL	0.12000	mg/L
03C23	04/15/89	NITRATE-N	0.19000	mg/L
03C23	04/15/89	COLIFORM	0.00000	TC/.1L
03C23	04/15/89	TRICHLOROETHYLENE	0.00400	mg/L
03C23	07/13/89	pH	7.10000	S.U.
03C23	07/13/89	SPECIFIC CONDUCTANCE	653.00000	umho/cm
03C23	07/13/89	TOTAL ORGANIC CARBON	4.00000	mg/L
03C23	07/13/89	TOTAL ORGANIC HALOGENS	0.05000	mg/L
03C23	07/13/89	SODIUM	14.00000	mg/L
03C23	07/13/89	CALCIUM	77.00000	mg/L
03C23	07/13/89	MAGNESIUM	10.00000	mg/L
03C23	07/13/89	POTASSIUM	2.00000	mg/L
03C23	07/13/89	SULFATE	56.00000	mg/L
03C23	07/13/89	CHLORIDE	11.00000	mg/L
03C23	07/13/89	BICARBONATE	263.00000	mg/L
03C23	07/13/89	BARIUM, TOTAL	0.07000	mg/L
03C23	07/13/89	FLUORIDE, TOTAL	0.20000	mg/L
03C23	07/13/89	NITRATE-N	0.10000	mg/L
03C23	07/13/89	COLIFORM	5.00000	TC/.1L
03C23	10/22/89	pH	7.30000	S.U.
03C23	10/22/89	SPECIFIC CONDUCTANCE	548.00000	umho/cm
03C23	10/22/89	CALCIUM	79.00000	mg/L
03C23	10/22/89	MAGNESIUM	9.00000	mg/L
03C23	10/22/89	POTASSIUM	1.70000	mg/L
03C23	10/22/89	BICARBONATE	839.00000	mg/L
03C23	10/22/89	AMMONIA-NITROGEN	0.50000	mg/L
03C23	10/22/89	TRICHLOROETHYLENE	0.05500	mg/L
03C23	01/28/90	pH	7.80000	S.U.
03C23	01/28/90	SPECIFIC CONDUCTANCE	491.00000	umho/cm
03C23	01/28/90	TOTAL ORGANIC CARBON	5.80000	mg/L
03C23	01/28/90	SODIUM	11.00000	mg/L
03C23	01/28/90	CALCIUM	68.00000	mg/L
03C23	01/28/90	MAGNESIUM	9.00000	mg/L
03C23	01/28/90	POTASSIUM	1.00000	mg/L
03C23	01/28/90	SULFATE	54.00000	mg/L
03C23	01/28/90	CHLORIDE	17.00000	mg/L
03C23	01/28/90	BICARBONATE	769.00000	mg/L
03C23	04/19/90	pH	8.00000	S.U.
03C23	04/19/90	SPECIFIC CONDUCTANCE	503.00000	umho/cm
03C23	04/19/90	CALCIUM	100.00000	mg/L
03C23	04/19/90	MAGNESIUM	19.00000	mg/L
03C23	04/19/90	POTASSIUM	3.00000	mg/L
03C23	04/19/90	BICARBONATE	293.00000	mg/L
03C23	07/14/90	pH	7.60000	S.U.
03C23	07/14/90	SPECIFIC CONDUCTANCE	573.00000	umho/cm
03C23	07/14/90	TOTAL ORGANIC CARBON	4.20000	mg/L
03C23	07/14/90	CALCIUM	98.00000	mg/L
03C23	07/14/90	MAGNESIUM	16.00000	mg/L
03C23	07/14/90	POTASSIUM	2.00000	mg/L
03C23	07/14/90	BICARBONATE	284.00000	mg/L
03C23	07/14/90	SODIUM	13.00000	mg/L

03C23	10/18/90	pH	7.20000	S.U.
03C23	10/18/90	SPECIFIC CONDUCTANCE	600.00000	umho/cm
03C23	10/18/90	SODIUM	15.00000	mg/L
03C23	10/18/90	CALCIUM	119.00000	mg/L
03C23	10/18/90	MAGNESIUM	16.00000	mg/L
03C23	10/18/90	POTASSIUM	2.00000	mg/L
03C23	01/15/91	pH	7.45000	S.U.
03C23	01/15/91	SPECIFIC CONDUCTANCE	540.00000	umho/cm
03C23	01/15/91	TOTAL ORGANIC CARBON	3.07000	mg/L
03C23	01/15/91	SODIUM	13.00000	mg/L
03C23	01/15/91	CALCIUM	74.00000	mg/L
03C23	01/15/91	MAGNESIUM	14.00000	mg/L
03C23	01/15/91	POTASSIUM	2.00000	mg/L
03C23	01/15/91	SULFATE	110.00000	mg/L
03C23	01/15/91	CHLORIDE	18.00000	mg/L
03C23	01/15/91	BICARBONATE	341.00000	mg/L
03C23	04/05/91	pH	7.29000	S.U.
03C23	04/05/91	SPECIFIC CONDUCTANCE	586.00000	umho/cm
03C23	04/05/91	CALCIUM	76.10000	mg/L
03C23	04/05/91	MAGNESIUM	14.30000	mg/L
03C23	04/05/91	POTASSIUM	2.00000	mg/L
03C23	04/05/91	BICARBONATE	317.00000	mg/L
03C23	07/10/91	pH	7.15000	S.U.
03C23	07/10/91	SPECIFIC CONDUCTANCE	664.00000	umho/cm
03C23	07/10/91	TOTAL ORGANIC CARBON	2.90000	mg/L
03C23	07/10/91	IRON, TOTAL	0.19000	mg/L
03C23	07/10/91	MANGANESE	0.01000	mg/L
03C23	07/10/91	SODIUM	10.50000	mg/L
03C23	07/10/91	CALCIUM	87.20000	mg/L
03C23	07/10/91	MAGNESIUM	13.90000	mg/L
03C23	07/10/91	POTASSIUM	0.40000	mg/L
03C23	07/10/91	BICARBONATE	155.00000	mg/L
03C23	07/10/91	TRICHLOROETHENE	0.00200	mg/L
03C23	10/03/91	pH	7.15000	S.U.
03C23	10/03/91	SPECIFIC CONDUCTANCE	653.00000	umho/cm
03C23	10/03/91	SODIUM	10.10000	mg/L
03C23	10/03/91	BICARBONATE	336.00000	mg/L
03C23	10/03/91	CALCIUM	112.90000	mg/L
03C23	10/03/91	MAGNESIUM	19.10000	mg/L
03C23	10/03/91	POTASSIUM	2.40000	mg/L
03C23	12/31/91	pH	7.50000	S.U.
03C23	12/31/91	SPECIFIC CONDUCTANCE	840.00000	umho/cm
03C23	12/31/91	TOTAL ORGANIC CARBON	4.03000	mg/L
03C23	12/31/91	SODIUM	11.60000	mg/L
03C23	12/31/91	CALCIUM	121.20000	mg/L
03C23	12/31/91	MAGNESIUM	18.00000	mg/L
03C23	12/31/91	POTASSIUM	3.20000	mg/L
03C23	12/31/91	SULFATE	95.00000	mg/L
03C23	12/31/91	CHLORIDE	20.00000	mg/L
03C23	12/31/91	BICARBONATE	329.00000	mg/L

Appendix K
Compounds Detected in the Springs

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-A	12/09/87	pH	7.10000	S.U.
03SPR-A	12/09/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03SPR-A	12/09/87	IRON, TOTAL	0.07000	mg/L
03SPR-A	12/09/87	SODIUM	8.80000	mg/L
03SPR-A	12/09/87	SULFATE	55.00000	mg/L
03SPR-A	12/09/87	CHLORIDE	18.00000	mg/L
03SPR-A	12/09/87	TNT	0.03000	mg/L
03SPR-A	12/09/87	RDX	0.14000	mg/L
03SPR-A	12/09/87	BARIUM, TOTAL	0.14000	mg/L
03SPR-A	12/09/87	NITRATE-N	2.10000	mg/L
03SPR-A	12/09/87	RADIUM, TOTAL	0.10000	pCi/l
03SPR-A	12/09/87	GROSS ALPHA	0.10000	pCi/l
03SPR-A	12/09/87	GROSS BETA	0.50000	mlrem/y
03SPR-A	07/18/89	RDX	0.07000	mg/L
03SPR-A	10/24/89	pH	8.10000	S.U.
03SPR-A	10/24/89	SPECIFIC CONDUCTANCE	325.00000	umho/cm
03SPR-A	10/24/89	RDX	0.06000	mg/L
03SPR-A	02/05/90	pH	7.20000	S.U.
03SPR-A	02/05/90	SPECIFIC CONDUCTANCE	250.00000	umho/cm
03SPR-A	02/05/90	TOTAL ORGANIC CARBON	2.80000	mg/L
03SPR-A	02/05/90	SODIUM	2.00000	mg/L
03SPR-A	02/05/90	CALCIUM	12.00000	mg/L
03SPR-A	02/05/90	MAGNESIUM	3.00000	mg/L
03SPR-A	02/05/90	POTASSIUM	1.00000	mg/L
03SPR-A	02/05/90	SULFATE	23.00000	mg/L
03SPR-A	02/05/90	CHLORIDE	7.00000	mg/L
03SPR-A	02/05/90	BICARBONATE	122.00000	mg/L
03SPR-A	02/05/90	NITRATE-N	0.50000	mg/L
03SPR-A	02/05/90	COLIFORM	10.00000	TC/.1L
03SPR-A	04/01/91	pH	7.59000	S.U.
03SPR-A	04/01/91	SPECIFIC CONDUCTANCE	114.00000	umho/cm
03SPR-A	04/01/91	TOTAL ORGANIC CARBON	1.71000	mg/L
03SPR-A	04/01/91	TOTAL ORGANIC HALOGENS	0.02000	mg/L
03SPR-A	04/01/91	IRON, TOTAL	0.02500	mg/L
03SPR-A	04/01/91	SODIUM	3.00000	mg/L
03SPR-A	04/01/91	CALCIUM	18.00000	mg/L
03SPR-A	04/01/91	MAGNESIUM	8.00000	mg/L
03SPR-A	04/01/91	POTASSIUM	1.10000	mg/L
03SPR-A	04/01/91	BICARBONATE	60.00000	mg/L
03SPR-A	04/01/91	BARIUM, TOTAL	0.06000	mg/L
03SPR-A	04/01/91	GROSS BETA	6.60000	pcu/L
03SPR-A	04/01/91	COLIFORM	0.10000	TC/.1L
03SPR-A	04/01/91	BIS(2-ETHYLHEXYL)PHTHALATE	0.01200	mg/L
03SPR-A	10/07/91	pH	8.08000	S.U.
03SPR-A	10/07/91	SPECIFIC CONDUCTANCE	318.00000	umho/cm
03SPR-A	10/07/91	TOTAL ORGANIC CARBON	2.62000	mg/L
03SPR-A	10/07/91	TOTAL ORGANIC HALOGENS	0.07400	mg/L
03SPR-A	10/07/91	CHLORIDE	8.00000	mg/L
03SPR-A	10/07/91	IRON, TOTAL	0.20000	mg/L
03SPR-A	10/07/91	SODIUM	5.50000	mg/L
03SPR-A	10/07/91	SULFATE	50.00000	mg/L
03SPR-A	10/07/91	RDX	0.04000	mg/L
03SPR-A	10/07/91	BARIUM, TOTAL	0.07000	mg/L
03SPR-A	10/07/91	NITRATE-N	1.71000	mg/L
03SPR-A	10/07/91	GROSS BETA	7.60000	pcu/L
03SPR-A	10/07/91	COLIFORM	0.16000	TC/.1L
03SPR-A	10/07/91	BICARBONATE	201.00000	mg/L
03SPR-A	10/07/91	CALCIUM	53.70000	mg/L

03SPR-A	10/07/91	MAGNESIUM	12.40000	mg/L
03SPR-A	10/07/91	POTASSIUM	10.60000	mg/L
03SPR-A	01/13/92	pH	8.10000	S.U.
03SPR-A	01/13/92	SPECIFIC CONDUCTANCE	244.00000	umho/cm
03SPR-A	01/13/92	TOTAL ORGANIC CARBON	1.23000	mg/L
03SPR-A	01/13/92	IRON, TOTAL	0.09000	mg/L
03SPR-A	01/13/92	SODIUM	4.10000	mg/L
03SPR-A	01/13/92	CALCIUM	34.40000	mg/L
03SPR-A	01/13/92	MAGNESIUM	11.00000	mg/L
03SPR-A	01/13/92	POTASSIUM	1.10000	mg/L
03SPR-A	01/13/92	SULFATE	56.00000	mg/L
03SPR-A	01/13/92	CHLORIDE	7.00000	mg/L
03SPR-A	01/13/92	BICARBONATE	143.00000	mg/L
03SPR-A	01/13/92	RDX	0.04000	mg/L
03SPR-A	01/13/92	GROSS BETA	5.30000	pcu/L
03SPR-A	01/13/92	COLIFORM	2.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-B	12/10/87	pH	7.61000	S.U.
03SPR-B	12/10/87	SPECIFIC CONDUCTANCE	300.00000	umho/cm
03SPR-B	12/10/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03SPR-B	12/10/87	IRON, TOTAL	0.09000	mg/L
03SPR-B	12/10/87	SODIUM	2.50000	mg/L
03SPR-B	12/10/87	SULFATE	55.00000	mg/L
03SPR-B	12/10/87	CHLORIDE	8.00000	mg/L
03SPR-B	12/10/87	BARIUM, TOTAL	0.07000	mg/L
03SPR-B	12/10/87	NITRATE-N	0.46000	mg/L
03SPR-B	12/10/87	RADIUM, TOTAL	0.20000	pCi/l
03SPR-B	12/10/87	GROSS ALPHA	0.00000	pCi/l
03SPR-B	12/10/87	GROSS BETA	0.60000	mlrem/y
03SPR-B	12/10/87	1,1,1-TRICHLOROETHANE	0.01000	mg/L
03SPR-B	10/24/89	pH	8.20000	S.U.
03SPR-B	10/24/89	SPECIFIC CONDUCTANCE	272.00000	umho/cm
03SPR-B	04/01/91	pH	7.73000	S.U.
03SPR-B	04/01/91	SPECIFIC CONDUCTANCE	140.00000	umho/cm
03SPR-B	04/01/91	TOTAL ORGANIC CARBON	1.46000	mg/L
03SPR-B	04/01/91	TOTAL ORGANIC HALOGENS	0.22000	mg/L
03SPR-B	04/01/91	IRON, TOTAL	0.02200	mg/L
03SPR-B	04/01/91	SODIUM	3.00000	mg/L
03SPR-B	04/01/91	CALCIUM	22.00000	mg/L
03SPR-B	04/01/91	MAGNESIUM	8.00000	mg/L
03SPR-B	04/01/91	POTASSIUM	1.00000	mg/L
03SPR-B	04/01/91	BICARBONATE	90.00000	mg/L
03SPR-B	04/01/91	GROSS ALPHA	118.00000	pcu/L
03SPR-B	04/01/91	GROSS BETA	5.50000	pcu/L
03SPR-B	04/01/91	COLIFORM	0.00100	TC/.1L
03SPR-B	04/01/91	TRICHLOROETHENE	0.13900	mg/L
03SPR-B	10/07/91	pH	7.83000	S.U.
03SPR-B	10/07/91	SPECIFIC CONDUCTANCE	384.00000	umho/cm
03SPR-B	10/07/91	TOTAL ORGANIC CARBON	1.75000	mg/L
03SPR-B	10/07/91	TOTAL ORGANIC HALOGENS	0.07800	mg/L
03SPR-B	10/07/91	CHLORIDE	4.00000	mg/L
03SPR-B	10/07/91	IRON, TOTAL	1.71000	mg/L
03SPR-B	10/07/91	MANGANESE	0.27000	mg/L
03SPR-B	10/07/91	SODIUM	12.90000	mg/L
03SPR-B	10/07/91	SULFATE	89.00000	mg/L
03SPR-B	10/07/91	BARIUM, TOTAL	0.07000	mg/L
03SPR-B	10/07/91	GROSS ALPHA	1.70000	pcu/L
03SPR-B	10/07/91	GROSS BETA	2.30000	pcu/L
03SPR-B	10/07/91	COLIFORM	16.00000	TC/.1L
03SPR-B	10/07/91	BICARBONATE	226.00000	mg/L
03SPR-B	10/07/91	CALCIUM	40.70000	mg/L
03SPR-B	10/07/91	MAGNESIUM	17.20000	mg/L
03SPR-B	10/07/91	POTASSIUM	17.30000	mg/L
03SPR-B	01/13/92	pH	8.00000	S.U.
03SPR-B	01/13/92	SPECIFIC CONDUCTANCE	237.00000	umho/cm
03SPR-B	01/13/92	TOTAL ORGANIC CARBON	1.63000	mg/L
03SPR-B	01/13/92	IRON, TOTAL	5.21000	mg/L
03SPR-B	01/13/92	MANGANESE	3.71500	mg/L
03SPR-B	01/13/92	SODIUM	5.90000	mg/L
03SPR-B	01/13/92	CALCIUM	42.30000	mg/L
03SPR-B	01/13/92	MAGNESIUM	11.60000	mg/L
03SPR-B	01/13/92	POTASSIUM	2.70000	mg/L
03SPR-B	01/13/92	SULFATE	60.00000	mg/L
03SPR-B	01/13/92	CHLORIDE	7.00000	mg/L
03SPR-B	01/13/92	BICARBONATE	143.00000	mg/L

03SPR-B	01/13/92	COLIFORM	0.00000 TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-C	12/09/87	pH	7.22000	S.U.
03SPR-C	12/09/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03SPR-C	12/09/87	IRON, TOTAL	0.01000	mg/L
03SPR-C	12/09/87	SODIUM	6.50000	mg/L
03SPR-C	12/09/87	SULFATE	40.00000	mg/L
03SPR-C	12/09/87	CHLORIDE	11.00000	mg/L
03SPR-C	12/09/87	BARIUM, TOTAL	0.06000	mg/L
03SPR-C	12/09/87	NITRATE-N	0.43000	mg/L
03SPR-C	12/09/87	RADIUM, TOTAL	0.20000	pCi/l
03SPR-C	12/09/87	GROSS ALPHA	0.00000	pCi/l
03SPR-C	12/09/87	GROSS BETA	0.50000	mlrem/y
03SPR-C	10/24/89	pH	7.70000	S.U.
03SPR-C	10/24/89	SPECIFIC CONDUCTANCE	383.00000	umho/cm
03SPR-C	10/24/89	RDX	0.02000	mg/L
03SPR-C	04/01/91	pH	7.52000	S.U.
03SPR-C	04/01/91	SPECIFIC CONDUCTANCE	117.00000	umho/cm
03SPR-C	04/01/91	TOTAL ORGANIC CARBON	1.50000	mg/L
03SPR-C	04/01/91	IRON, TOTAL	0.02400	mg/L
03SPR-C	04/01/91	SODIUM	3.00000	mg/L
03SPR-C	04/01/91	CALCIUM	20.00000	mg/L
03SPR-C	04/01/91	MAGNESIUM	6.00000	mg/L
03SPR-C	04/01/91	POTASSIUM	1.00000	mg/L
03SPR-C	04/01/91	BICARBONATE	84.00000	mg/L
03SPR-C	04/01/91	GROSS BETA	7.70000	pcu/L
03SPR-C	04/01/91	COLIFORM	0.20000	TC/.1L
03SPR-C	04/01/91	TRICHLOROETHENE	0.00400	mg/L
03SPR-C	10/07/91	pH	7.48000	S.U.
03SPR-C	10/07/91	SPECIFIC CONDUCTANCE	334.00000	umho/cm
03SPR-C	10/07/91	TOTAL ORGANIC CARBON	0.83000	mg/L
03SPR-C	10/07/91	TOTAL ORGANIC HALOGENS	0.04400	mg/L
03SPR-C	10/07/91	CHLORIDE	6.00000	mg/L
03SPR-C	10/07/91	SODIUM	5.00000	mg/L
03SPR-C	10/07/91	SULFATE	56.00000	mg/L
03SPR-C	10/07/91	BARIUM, TOTAL	0.05000	mg/L
03SPR-C	10/07/91	NITRATE-N	1.71000	mg/L
03SPR-C	10/07/91	GROSS ALPHA	1.20000	pcu/L
03SPR-C	10/07/91	GROSS BETA	0.70000	pcu/L
03SPR-C	10/07/91	COLIFORM	8.00000	TC/.1L
03SPR-C	10/07/91	BICARBONATE	214.00000	mg/L
03SPR-C	10/07/91	CALCIUM	48.60000	mg/L
03SPR-C	10/07/91	MAGNESIUM	11.00000	mg/L
03SPR-C	10/07/91	POTASSIUM	11.30000	mg/L
03SPR-C	01/13/92	pH	7.70000	S.U.
03SPR-C	01/13/92	SPECIFIC CONDUCTANCE	250.00000	umho/cm
03SPR-C	01/13/92	TOTAL ORGANIC CARBON	2.09000	mg/L
03SPR-C	01/13/92	IRON, TOTAL	0.06000	mg/L
03SPR-C	01/13/92	MANGANESE	0.05700	mg/L
03SPR-C	01/13/92	SODIUM	3.90000	mg/L
03SPR-C	01/13/92	CALCIUM	37.00000	mg/L
03SPR-C	01/13/92	MAGNESIUM	8.80000	mg/L
03SPR-C	01/13/92	POTASSIUM	7.80000	mg/L
03SPR-C	01/13/92	SULFATE	52.00000	mg/L
03SPR-C	01/13/92	CHLORIDE	8.00000	mg/L
03SPR-C	01/13/92	BICARBONATE	167.00000	mg/L
03SPR-C	01/13/92	NITRATE-N	1.20000	mg/L
03SPR-C	01/13/92	COLIFORM	0.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-D	12/11/87	pH	7.76000	S.U.
03SPR-D	12/11/87	SPECIFIC CONDUCTANCE	312.00000	umho/cm
03SPR-D	12/11/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03SPR-D	12/11/87	IRON, TOTAL	0.05000	mg/L
03SPR-D	12/11/87	MANGANESE	0.02000	mg/L
03SPR-D	12/11/87	SODIUM	7.00000	mg/L
03SPR-D	12/11/87	SULFATE	60.00000	mg/L
03SPR-D	12/11/87	CHLORIDE	12.00000	mg/L
03SPR-D	12/11/87	BARIUM, TOTAL	0.08200	mg/L
03SPR-D	12/11/87	NITRATE-N	0.21000	mg/L
03SPR-D	12/11/87	RADIUM, TOTAL	0.10000	pCi/l
03SPR-D	12/11/87	GROSS ALPHA	0.00000	pCi/l
03SPR-D	12/11/87	GROSS BETA	2.70000	mlrem/y
03SPR-D	10/25/89	pH	7.90000	S.U.
03SPR-D	10/25/89	SPECIFIC CONDUCTANCE	318.00000	umho/cm
03SPR-D	04/01/91	pH	7.71000	S.U.
03SPR-D	04/01/91	SPECIFIC CONDUCTANCE	150.00000	umho/cm
03SPR-D	04/01/91	TOTAL ORGANIC CARBON	1.29000	mg/L
03SPR-D	04/01/91	TOTAL ORGANIC HALOGENS	0.03000	mg/L
03SPR-D	04/01/91	IRON, TOTAL	0.02500	mg/L
03SPR-D	04/01/91	SODIUM	2.00000	mg/L
03SPR-D	04/01/91	CALCIUM	25.00000	mg/L
03SPR-D	04/01/91	MAGNESIUM	4.00000	mg/L
03SPR-D	04/01/91	POTASSIUM	0.60000	mg/L
03SPR-D	04/01/91	BICARBONATE	96.00000	mg/L
03SPR-D	04/01/91	GROSS ALPHA	15.00000	pcu/L
03SPR-D	04/01/91	GROSS BETA	11.00000	pcu/L
03SPR-D	04/01/91	COLIFORM	0.00100	TC/.1L
03SPR-D	04/01/91	TRICHLOROETHENE	0.01600	mg/L
03SPR-D	09/30/91	pH	7.59000	S.U.
03SPR-D	09/30/91	SPECIFIC CONDUCTANCE	248.00000	umho/cm
03SPR-D	09/30/91	TOTAL ORGANIC CARBON	2.23000	mg/L
03SPR-D	09/30/91	TOTAL ORGANIC HALOGENS	0.04100	mg/L
03SPR-D	09/30/91	CHLORIDE	7.00000	mg/L
03SPR-D	09/30/91	IRON, TOTAL	0.17000	mg/L
03SPR-D	09/30/91	MANGANESE	0.01000	mg/L
03SPR-D	09/30/91	SODIUM	3.70000	mg/L
03SPR-D	09/30/91	SULFATE	21.00000	mg/L
03SPR-D	09/30/91	RDX	0.03000	mg/L
03SPR-D	09/30/91	BARIUM, TOTAL	0.05000	mg/L
03SPR-D	09/30/91	COLIFORM	2.00000	TC/.1L
03SPR-D	09/30/91	BICARBONATE	177.00000	mg/L
03SPR-D	09/30/91	CALCIUM	39.60000	mg/L
03SPR-D	09/30/91	MAGNESIUM	4.90000	mg/L
03SPR-D	09/30/91	POTASSIUM	3.80000	mg/L
03SPR-D	01/13/92	pH	8.30000	S.U.
03SPR-D	01/13/92	SPECIFIC CONDUCTANCE	125.00000	umho/cm
03SPR-D	01/13/92	TOTAL ORGANIC CARBON	2.66000	mg/L
03SPR-D	01/13/92	IRON, TOTAL	0.28000	mg/L
03SPR-D	01/13/92	MANGANESE	0.04600	mg/L
03SPR-D	01/13/92	SODIUM	2.90000	mg/L
03SPR-D	01/13/92	CALCIUM	31.10000	mg/L
03SPR-D	01/13/92	MAGNESIUM	3.90000	mg/L
03SPR-D	01/13/92	SULFATE	24.00000	mg/L
03SPR-D	01/13/92	CHLORIDE	4.00000	mg/L
03SPR-D	01/13/92	BICARBONATE	120.00000	mg/L
03SPR-D	01/13/92	GROSS ALPHA	15.00000	pcu/L
03SPR-D	01/13/92	GROSS BETA	8.40000	pcu/L

03SPR-D	01/13/92	COLIFORM	8.00000 TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-E	11/11/87	pH	7.60000	S.U.
03SPR-E	11/11/87	SPECIFIC CONDUCTANCE	312.00000	umho/cm
03SPR-E	11/11/87	TOTAL ORGANIC CARBON	1.00000	mg/L
03SPR-E	11/11/87	SODIUM	2.00000	mg/L
03SPR-E	11/11/87	SULFATE	31.00000	mg/L
03SPR-E	11/11/87	CHLORIDE	5.00000	mg/L
03SPR-E	11/11/87	BARIUM, TOTAL	0.05000	mg/L
03SPR-E	11/11/87	FLUORIDE, TOTAL	0.10000	mg/L
03SPR-E	11/11/87	NITRATE-N	0.16000	mg/L
03SPR-E	11/11/87	RADIUM, TOTAL	0.10000	pCi/l
03SPR-E	11/11/87	GROSS ALPHA	1.10000	pCi/l
03SPR-E	11/11/87	GROSS BETA	3.00000	mlrem/y
03SPR-E	07/18/89	DI-N-BUTYL PHTHALATE	0.01000	mg/L
03SPR-E	10/25/89	pH	7.50000	S.U.
03SPR-E	10/25/89	SPECIFIC CONDUCTANCE	408.00000	umho/cm
03SPR-E	04/01/91	pH	7.03000	S.U.
03SPR-E	04/01/91	SPECIFIC CONDUCTANCE	134.00000	umho/cm
03SPR-E	04/01/91	TOTAL ORGANIC CARBON	1.47000	mg/L
03SPR-E	04/01/91	IRON, TOTAL	0.02000	mg/L
03SPR-E	04/01/91	SODIUM	2.00000	mg/L
03SPR-E	04/01/91	CALCIUM	23.00000	mg/L
03SPR-E	04/01/91	MAGNESIUM	3.00000	mg/L
03SPR-E	04/01/91	POTASSIUM	0.60000	mg/L
03SPR-E	04/01/91	BICARBONATE	84.00000	mg/L
03SPR-E	04/01/91	GROSS BETA	7.40000	pcu/L
03SPR-E	04/01/91	COLIFORM	0.00100	TC/.1L
03SPR-E	01/13/92	pH	8.10000	S.U.
03SPR-E	01/13/92	SPECIFIC CONDUCTANCE	240.00000	umho/cm
03SPR-E	01/13/92	TOTAL ORGANIC CARBON	1.81000	mg/L
03SPR-E	01/13/92	IRON, TOTAL	0.09000	mg/L
03SPR-E	01/13/92	MANGANESE	0.02400	mg/L
03SPR-E	01/13/92	SODIUM	3.20000	mg/L
03SPR-E	01/13/92	CALCIUM	31.80000	mg/L
03SPR-E	01/13/92	MAGNESIUM	7.30000	mg/L
03SPR-E	01/13/92	POTASSIUM	1.20000	mg/L
03SPR-E	01/13/92	SULFATE	32.00000	mg/L
03SPR-E	01/13/92	CHLORIDE	2.00000	mg/L
03SPR-E	01/13/92	BICARBONATE	191.00000	mg/L
03SPR-E	01/13/92	COLIFORM	0.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03SPR-F	12/11/87	pH	7.67000	S.U.
03SPR-F	12/11/87	SPECIFIC CONDUCTANCE	253.00000	umho/cm
03SPR-F	12/11/87	TOTAL ORGANIC CARBON	2.00000	mg/L
03SPR-F	12/11/87	IRON, TOTAL	0.04000	mg/L
03SPR-F	12/11/87	SODIUM	5.00000	mg/L
03SPR-F	12/11/87	SULFATE	45.00000	mg/L
03SPR-F	12/11/87	CHLORIDE	6.00000	mg/L
03SPR-F	12/11/87	BARIUM, TOTAL	0.06000	mg/L
03SPR-F	12/11/87	MERCURY, TOTAL	0.00200	mg/L
03SPR-F	12/11/87	NITRATE-N	0.17000	mg/L
03SPR-F	12/11/87	RADIUM, TOTAL	0.10000	pCi/l
03SPR-F	12/11/87	GROSS ALPHA	0.60000	pCi/l
03SPR-F	12/11/87	GROSS BETA	0.40000	mlrem/y
03SPR-F	10/25/89	pH	8.00000	S.U.
03SPR-F	10/25/89	SPECIFIC CONDUCTANCE	240.00000	umho/cm
03SPR-F	04/01/91	pH	7.50000	S.U.
03SPR-F	04/01/91	SPECIFIC CONDUCTANCE	117.00000	umho/cm
03SPR-F	04/01/91	TOTAL ORGANIC CARBON	1.70000	mg/L
03SPR-F	04/01/91	IRON, TOTAL	0.02000	mg/L
03SPR-F	04/01/91	SODIUM	2.00000	mg/L
03SPR-F	04/01/91	CALCIUM	22.00000	mg/L
03SPR-F	04/01/91	MAGNESIUM	4.00000	mg/L
03SPR-F	04/01/91	POTASSIUM	0.60000	mg/L
03SPR-F	04/01/91	BICARBONATE	90.00000	mg/L
03SPR-F	04/01/91	GROSS ALPHA	1170.00000	pcu/L
03SPR-F	04/01/91	GROSS BETA	129.00000	pcu/L
03SPR-F	04/01/91	COLIFORM	0.00100	TC/.1L
03SPR-F	09/30/91	pH	7.70000	S.U.
03SPR-F	09/30/91	SPECIFIC CONDUCTANCE	327.00000	umho/cm
03SPR-F	09/30/91	TOTAL ORGANIC CARBON	2.04000	mg/L
03SPR-F	09/30/91	TOTAL ORGANIC HALOGENS	0.05500	mg/L
03SPR-F	09/30/91	CHLORIDE	5.00000	mg/L
03SPR-F	09/30/91	IRON, TOTAL	1.22000	mg/L
03SPR-F	09/30/91	MANGANESE	0.32000	mg/L
03SPR-F	09/30/91	SODIUM	3.40000	mg/L
03SPR-F	09/30/91	SULFATE	67.00000	mg/L
03SPR-F	09/30/91	BARIUM, TOTAL	0.07000	mg/L
03SPR-F	09/30/91	GROSS ALPHA	0.79000	pcu/L
03SPR-F	09/30/91	COLIFORM	6.00000	TC/.1L
03SPR-F	09/30/91	BICARBONATE	207.00000	mg/L
03SPR-F	09/30/91	CALCIUM	49.80000	mg/L
03SPR-F	09/30/91	MAGNESIUM	9.90000	mg/L
03SPR-F	09/30/91	POTASSIUM	10.10000	mg/L
03SPR-F	01/13/92	pH	8.40000	S.U.
03SPR-F	01/13/92	SPECIFIC CONDUCTANCE	147.00000	umho/cm
03SPR-F	01/13/92	TOTAL ORGANIC CARBON	1.11000	mg/L
03SPR-F	01/13/92	IRON, TOTAL	0.95000	mg/L
03SPR-F	01/13/92	SODIUM	2.10000	mg/L
03SPR-F	01/13/92	CALCIUM	37.90000	mg/L
03SPR-F	01/13/92	MAGNESIUM	8.60000	mg/L
03SPR-F	01/13/92	POTASSIUM	2.10000	mg/L
03SPR-F	01/13/92	SULFATE	54.00000	mg/L
03SPR-F	01/13/92	CHLORIDE	13.00000	mg/L
03SPR-F	01/13/92	BICARBONATE	114.00000	mg/L
03SPR-F	01/13/92	COLIFORM	2.00000	TC/.1L

WELLNUMBER	DATESAMPLE	PARAMETER	AMTDET_A	UNIT
03MTSPR	12/11/87	pH	7.58000	S.U.
03MTSPR	12/11/87	SPECIFIC CONDUCTANCE	282.00000	umho/cm
03MTSPR	12/11/87	TOTAL ORGANIC CARBON	4.00000	mg/L
03MTSPR	12/11/87	IRON, TOTAL	0.39000	mg/L
03MTSPR	12/11/87	SODIUM	7.00000	mg/L
03MTSPR	12/11/87	SULFATE	50.00000	mg/L
03MTSPR	12/11/87	CHLORIDE	11.00000	mg/L
03MTSPR	12/11/87	BARIUM, TOTAL	0.07000	mg/L
03MTSPR	12/11/87	NITRATE-N	0.40000	mg/L
03MTSPR	12/11/87	METHOXYCHLOR	0.10000	mg/L
03MTSPR	12/11/87	RADIUM, TOTAL	0.00000	pCi/l
03MTSPR	12/11/87	GROSS ALPHA	0.00000	pCi/l
03MTSPR	07/18/89	DI-N-BUTYL PHTHALATE	0.00000	
03MTSPR	10/25/89	pH	7.50000	S.U.
03MTSPR	10/25/89	SPECIFIC CONDUCTANCE	270.00000	umho/cm
03MTSPR	04/01/91	pH	7.18000	S.U.
03MTSPR	04/01/91	SPECIFIC CONDUCTANCE	97.00000	umho/cm
03MTSPR	04/01/91	TOTAL ORGANIC CARBON	1.75000	mg/L
03MTSPR	04/01/91	IRON, TOTAL	0.02300	mg/L
03MTSPR	04/01/91	SODIUM	3.00000	mg/L
03MTSPR	04/01/91	CALCIUM	15.00000	mg/L
03MTSPR	04/01/91	MAGNESIUM	6.00000	mg/L
03MTSPR	04/01/91	POTASSIUM	0.80000	mg/L
03MTSPR	04/01/91	BICARBONATE	60.00000	mg/L
03MTSPR	04/01/91	GROSS ALPHA	252.00000	pcu/L
03MTSPR	04/01/91	GROSS BETA	74.00000	pcu/L
03MTSPR	04/01/91	COLIFORM	0.00100	TC/.1L
03MTSPR	09/30/91	pH	7.40000	S.U.
03MTSPR	09/30/91	SPECIFIC CONDUCTANCE	298.00000	umho/cm
03MTSPR	09/30/91	TOTAL ORGANIC CARBON	2.05000	mg/L
03MTSPR	09/30/91	TOTAL ORGANIC HALOGENS	0.04700	mg/L
03MTSPR	09/30/91	CHLORIDE	4.00000	mg/L
03MTSPR	09/30/91	SODIUM	4.60000	mg/L
03MTSPR	09/30/91	SULFATE	46.00000	mg/L
03MTSPR	09/30/91	BARIUM, TOTAL	0.05000	mg/L
03MTSPR	09/30/91	GROSS ALPHA	3.70000	pcu/L
03MTSPR	09/30/91	COLIFORM	22.00000	TC/.1L
03MTSPR	09/30/91	BICARBONATE	183.00000	mg/L
03MTSPR	09/30/91	CALCIUM	43.10000	mg/L
03MTSPR	09/30/91	MAGNESIUM	9.10000	mg/L
03MTSPR	09/30/91	POTASSIUM	8.30000	mg/L
03MTSPR	01/13/92	pH	7.10000	S.U.
03MTSPR	01/13/92	SPECIFIC CONDUCTANCE	141.00000	umho/cm
03MTSPR	01/13/92	TOTAL ORGANIC CARBON	1.29000	mg/L
03MTSPR	01/13/92	SODIUM	3.60000	mg/L
03MTSPR	01/13/92	CALCIUM	29.50000	mg/L
03MTSPR	01/13/92	MAGNESIUM	7.70000	mg/L
03MTSPR	01/13/92	POTASSIUM	2.00000	mg/L
03MTSPR	01/13/92	SULFATE	54.00000	mg/L
03MTSPR	01/13/92	CHLORIDE	12.00000	mg/L
03MTSPR	01/13/92	BICARBONATE	102.00000	mg/L
03MTSPR	01/13/92	COLIFORM	0.00000	TC/.1L

Appendix L
Groundwater Monitoring Plan for Ammunition Burning Ground

GROUNDWATER MONITORING PLAN

NAVAL WEAPONS SUPPORT CENTER CRANE

CRANE, INDIANA

AMENDED AUGUST 1990

INTRODUCTION

The Naval Weapons Support Center Crane, Crane, Indiana has adopted the Groundwater Monitoring Plan prepared by the Army Environmental Hygiene Agency (AEHA). Laboratory Analytical methods described herein were adopted from the Quality Assurance Program for Water and Waste Water Analysis of the Army Corps of Engineers' Waterways Experiment Station. This plan will be used for all required sampling and analyses and is found within. Quarterly analysis of the wells on Center has been scheduled for all RCRA wells. Annual and semi-annual monitoring will be performed after the first year on these wells and all CERCLA wells. The monitoring for RCRA wells will be performed in accordance with requirements outlined in 40 CFR 265.90 - 265.94 hazardous waste regulations on groundwater quality. Analytical parameters of CERCLA well samples will be determined by type of contamination expected. Group III parameters outlined in 40 CFR 265 will be routinely performed for CERCLA units, unless otherwise indicated. Groundwater Monitoring Sites on Center is found as Exhibit 1. The only RCRA site is site 3 (Ammunition Burning Grounds) which has both RCRA and CERCLA units.

The field sampling work will be primarily accomplished by trained contractor laboratory personnel (may change annually). In accordance with the Government's regulations for A/E contracts, the selection of a contractor to perform field work and analytical services, as based on qualifications, must be done annually. Special sampling may also be performed by installation personnel experienced in groundwater monitoring procedures.

US ARMY GROUNDWATER MONITORING
AND ASSESSMENT PROGRAM

INSTRUCTIONS

FOR

COLLECTION,

PREPARATION AND SHIPMENT

OF SAMPLES

US ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD

AMENDED AUGUST 1990

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Instr for Collection, Prep and Shpmt of Samples

I. PURPOSE. This document is written to provide guidance to personnel who will be sampling groundwater monitoring wells at sanitary landfills and hazardous waste landfills and surface impoundments.

II. GENERAL. Sections III through VI and Section VIII of this document provide instructions on collection and preparation of samples and data reporting. Section VII provides information on chemical analysis methods. The contents of this document may be used by installations monitoring hazardous waste landfills and surface impoundments to prepare the Sampling and Analysis Plan required by regulation (40 CFR 265.92).

III. SAMPLE CONTAINERS. The number and type of sample containers needed for each well sample will depend on the number of parameters and filtering and preservation requirements. Inclosure 1 identifies the parameters and the separate containers which will be used when samples are taken from hazardous waste site monitoring wells. Inclosure 2 lists containers which will normally be provided for parameter groups which may be required at sanitary landfills or at hazardous waste sites with special parameter requirements. These will be new, sterile containers and will be labeled with installation name, site identification, parameters and preservation information.

IV. SAMPLING AND FIELD OBSERVATIONS

A. Well Depth and Water Level Measurement. Prior to sampling a well, the water level and well depth must be measured to + or - 0.01 foot and recorded on the field data log sheet. When the field crew visits the well, they should have information available concerning well depth, depth to top of screen, and screen length. Measure each well depth to the bottom of the intake screen structure. Well depths and water levels can be measured with a clean steel tape, m-scope or other comparable electronic/ sounding device. The measurement is subtracted from the length lowered into the well. This depth to water from the top of casing should be recorded. The length of casing above the ground surface should then be subtracted to obtain the desired value of depth to water from ground surface. The same value for length of casing aboveground should be used each time water level is measured in the well, unless the casing length is modified. The depth measurements should be to the nearest tenth of a foot. If the well is found to be dry, this should be noted on the log sheet. If the depth to water is found to be below the bottom of the screened interval, the well should also be considered dry and not sampled. This situation may occur in wells where the bottom portion of the well is not screened and holds water after water table levels drop below the screened interval. The measuring implement should be rinsed thoroughly with fresh tap water and distilled water prior to use in another well. A measuring item which has been in contact with soil at the well site should not be lowered into a well until it has

been rinsed clean. If contamination by oil or grease is evident, soapy water or acetone should be used for cleaning, followed by tap water and distilled water rinsing.

B. Purging and Sampling Equipment. Only fluorocarbon resin or stainless steel sampling devices are approved for purging and sampling. This equipment must be checked and approved by Code 09246 before groundwater monitoring begins.

C. Well Purging. All monitoring wells must be pumped or bailed prior to sampling to insure that samples are representative of the groundwater and do not contain water which has been standing in the casing. For this monitoring program three to five volumes of water in the well casing should be removed. However, for a low yield well which does not quickly recharge as it is pumped, the well should be pumped or bailed dry and the sample then obtained as soon as the well recharges.

When calculating the amount of water (in gallons) which must be purged, subtract depth to water (from ground surface) from the total depth of the well and then multiply by 0.16 for a 2-inch well, 0.37 for a 3-inch well, or 0.65 for a 4-inch well to obtain the volume of standing water in the well. The amount pumped prior to sampling should be recorded on the field data log sheet (Inclosures 3 and 4). In low-yield monitoring wells (i.e., wells that require 2 hours or more to recover) the sample will be taken as soon as sufficient volume is available after evacuating the well.

The depth at which the pump should be set when purging a well will depend upon well construction details, water depth in the well, and well recharge rate. For a well which does not recharge as it is pumped, the pump intake should be as deep as possible in the well, but not so deep as to pick up the sediment which has accumulated in the well bottom. In wells which recharge as they are pumped, the pump intake should be about 5 feet below the surface of the water in the well. The pump will have to be lowered if the water level in the well drops during pumping. Pumping in this manner will insure that the water which has been standing in the well will be efficiently removed and a representative sample taken. The only exception to these pumping depth instructions will be those few situations where the monitoring wells have more than one screened interval or a sediment trap.[1] When a well contains a sediment trap, the final portion of purged water should be pumped from within the sediment trap section (do not lower pump into sediment in the bottom of the trap).

Evacuation procedures should ensure that all stagnant water is replaced by fresh formation water upon completion of the process.

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[1] A sediment trap is an unscreened section at the bottom of the well.

This should allow drawing the water down from above the screen in the uppermost part of the water column in high yield formations to ensure that fresh water from the formation will move upward in the screen. In low-yield formations, water should be purged so that it is removed from the bottom of the screened interval.

The procedure for well evacuation depends on the hydraulic yield characteristics of the well. When evacuating low-yield wells (wells that are incapable of yielding three casing volumes), evacuate wells to dryness once. As soon as the well recovers sufficiently, the first sample should be tested for pH, temperature, and specific conductance. Samples should then be collected and containerized in the order of the parameters' volatilization sensitivity. The well should be retested for pH, temperature, and specific conductance after sampling as a measure of purging efficiency and as a check on the stability of the water samples over time. Whenever full recovery exceeds two hours, extract the sample as soon as sufficient volume is available for a sample for each parameter. At no time pump a well to dryness if the recharge rate causes the formation water to vigorously cascade down the sides of the screen and cause an accelerated loss of volatiles. The operator should anticipate this problem and purge three casing volumes from the well at a rate that does not cause recharge water to be excessively agitated. For higher yielding wells, the owner/operator should evacuate three casing volumes prior to sampling.

In order to minimize the introduction of contamination into the well positive-gas-displacement, fluorocarbon resin bladder pumps are recommended for purging wells. Fluorocarbon resin or stainless steel bailers are also recommended purging equipment. Where these devices cannot be used, peristaltic pumps, gas-lift pumps, centrifugal pumps, and venturi pumps may be used. Some of these pumps cause volatilization and produce high pressure differentials, which result in variability in the analysis of pH, specific conductance, metals, and volatile organic samples. They are, however, acceptable for purging the wells if sufficient time is allowed to let the water stabilize prior to sampling. Any variation to this equipment purging or sampling must be approved to Code 0924 prior to purging or sampling.

When purging equipment must be reused, it should be decontaminated, following the same procedures required for the sampling equipment. Clean gloves should be worn by the sampling personnel. Measures should be taken to prevent surface soils from coming in contact with the purging equipment and lines, which in turn could introduce contaminants to the well. Purged water should be collected and screened with photoionization or organic vapor analyzers, pH, temperature, and conductivity meters. If these parameter and facility background data suggest that the water is hazardous, it should be drummed and disposed of properly.

Manufacturer's literature should be consulted to obtain specific instructions concerning the operation of sampling pumps. Questions may also be referred to the Geotechnical Engineering Services Branch, Waste Disposal Engineering Division, US Army Environmental Hygiene Agency, AUTOVON 584-2024.

When pumping or sampling a well, great care must be exercised to insure that contaminants are not introduced into the well or a sample. A sampler or sample tubing, or a bailer or bailer cable must not be allowed to contact the ground or a dirty surface in a vehicle or sampling equipment box. Plastic sheeting may be used to rest hoses, lines, and samplers upon. New sheeting should be used for each well sampled. Sampling equipment must be thoroughly cleaned before it is placed in its storage case. In those situations when there is windblown dust at the sampling site, it will be impossible to obtain a good sample. Sampling should be postponed until a more favorable time. Immediately after the sample has been collected, field measurements for pH, temperature, and specific conductance will be made. All samples requiring filtration will be filtered while in the field, or within a few hours of sampling.

C. Sampling

1. To ensure the ground-water sample is representative of the formation, it is important to minimize physically altering or chemically contaminating the sample during the withdrawal process. In order to minimize the possibility of sample contamination, the owner/operator should:

o Use only fluorocarbon resin or stainless stell sampling devices, and

o Use dedicated samplers for each well. (If a dedicated sampler is not available for each well, operator should thoroughly clean the sampler between sampling events, and should take blanks and analyze them to ensure cross-contamination has not occurred.)

Samples should be collected and containerized in the order of the volatilization sensitivity of the parameters. A preferred collection order for some common ground-water parameters follows:

o Volatile organics (VOA)

o Purgeable organic carbon (POC)

o Purgeable organic halogens (POX)

o Total organic halogens (TOX)

o Total organic carbon (TOC)

- o Extractable organics
- o Total metals
- o Dissolved metals
- o Phenols
- o Cyanide
- o Sulfate and chloride
- o Turbidity
- o Nitrate and ammonia
- o Radionuclides

Temperature, pH, and specific conductance measurements should be made in the field before and after sample collection as a check on the stability of the water sampled over time.

2. The sample containers in which unfiltered water is to be shipped should be filled first (see Inclosures 1 and 2). These containers should be rinsed several times with a small amount of water pumped from the well prior to filling (except for samples for grease and oil analysis). All of these containers (except grease and oil) must be filled to overflowing so that no headspace remains. Samples should be protected from light and kept cool from the time they are collected. Sample container labels should be completed using a waterproof pen before they are filled when the container is dry. For hazardous waste site wells initially monitored, two one-gallon containers should be filled to accomplish the necessary radiochemistry work. These containers should also be rinsed and filled to overflowing. Containers should be labeled with a waterproof pen. Sample containers should be filled in a manner which does not agitate or aerate the sample. This is important to prevent loss of volatile contaminants, and to prevent chemistry changes due to either CO_2 loss with pH increase or oxygenation of the sample. Containers are filled to overflowing for the same reasons. Some wells which do not recharge while they are pumped may not produce enough sample at one time. This situation will occur most frequently for hazardous waste site wells because more sample is required than at most sanitary landfills. The needed water should be obtained as soon as the well recharges.

3. Samples should be taken to the place where they will be filtered and preserved as soon as possible after sampling; and definitely within a few hours.

4. Sampling equipment must be thoroughly cleaned between sampling at each well. This may normally be accomplished by rinsing thoroughly with three volumes of tap water and then three volumes of distilled water or six volumes of distilled water or 6 volumes of distilled water. In those cases where a sampler becomes contaminated by pumping oily or greasy water, it should be rinsed first with soapy water and then rinsed thoroughly with clean water. It may be necessary to disassemble a pump to effectively clean it of oil and grease. Acetone rinsing is an effective method of removing oil and grease contamination, but should not be used unless it is certain that the materials used to construct the pump or bailer will not be affected. It should be ascertained that all acetone residue has been removed/volatilized before use in a well.

5. Deviations from the procedures specified above should be noted on the field data log sheet. Observations concerning the condition of the well, odor and color of the water should also be noted. Note if the well was found uncapped and also note the condition of the grout seal around the well. Note any damage to well or cap.

6. In-Situ or Field Analyses. Several constituents of the parameters being evaluated are physically or chemically unstable. Examples of unstable elements or properties include pH, redox potential, chlorine, dissolved oxygen, and temperature. Although specific conductivity (analogous to electrical resistance) of a substance is relatively stable, it is required that this characteristic be determined in the field. Most conductivity instruments require temperature compensation; therefore, the temperature of the samples should be measured at the time conductivity is determined. If the operator uses probes (pH electrode, specific ion electrode, thermistor) to measure any of the above properties, it is important that this is done on water samples taken after well evacuation and after any samples for chemical analysis have been collected, so that the potential for probe(s) to contaminate a sample designated for laboratory analysis is minimized. Monitoring probes should not be placed in shipping containers containing ground-water samples for laboratory analysis.

The operator should complete the calibration of any in-situ monitoring equipment or field-test probes and kits at the beginning of each use, according to the manufacturers' specifications and consistent with Test Methods for Evaluating Solid Waste - Physical/Chemical Methods (SW-846), 2nd Edition, 1982.

D. Sampling Schedule and Sequence. All wells at each site to be monitored must be sampled the same day. If this is not possible due to the quantity of wells then each site must be completed before starting new site. When sampling wells at a site, the upgradient (and presumably uncontaminated) well or wells should be sampled first followed by the downgradient wells (or wells potentially contaminated).

SAMPLING AND PRESERVATION PROCEDURES FOR DETECTION MONITORING[a]

Parameter	Recommended Container[b]	Preservative	Maximum Holding Time	Minimum Volume Required for Analysis
		Indicators of Ground-Water Contamination[c]		
pH	T, P, G	Field determined	None	25 ml
Specific conductance	T, P, G	Field determined	None	100 ml
TOC	G, amber, T-lined cap[e]	Cool 4°C,[d] HCl to pH <2	28 days	4 x 15 ml
TOX	G, amber, T-lined septa or caps	Cool 4°C, add 1 ml of 1.1M sodium sulfite	7 days	4 x 15 ml
		Ground-Water Quality Characteristics		
Chloride	T, P, G	4°C	28 days	50 ml
Iron Manganese Sodium	T, P	Field acidified to pH <2 with HNO_3	6 months	200 ml
Phenols	G	4°C/H_2SO_4 to pH <2	28 days	500 ml
Sulfate	T, P, G	Cool, 4°C	28 days	50 ml
		EPA Interim Drinking Water Characteristics		
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	T, P Dark Bottle	Total Metals Field acidified to pH <2 with HNO_3 Dissolved Metals 1. Field filtration (0.45 micron) 2. Acidify to pH <2 with HNO_3	6 months 6 months	1,000 ml 1,000 ml
Fluoride	T, P	Cool, 4°C	28 days	300 ml
Nitrate/Nitrite	T, P, G	4°C/H_2SO_4 to pH <2	14 days	1,000 ml

(Continued)

SAMPLING AND PRESERVATION PROCEDURES FOR DETECTION MONITORING

Parameter	Recommended Container[b]	Preservative	Maximum Holding Time	Minimum Volume Required for Analysis
Endrin Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex	T, G	Cool, 4°C	7 days	2,000 ml
Radium Gross Alpha Gross Beta	P, G	Field acidified to pH <2 with HNO_3	6 months	1 gallon
Coliform bacteria	PP, G (sterilized)	Cool, 4°C	6 hours	200 ml
	Other Ground-Water Characteristics of Interest			
Cyanide	P, G	Cool, 4°C, NaOH to pH >12. 0.6 g ascorbic acid[f]	14 days[g]	500 ml
Oil and Grease	G only	Cool, 4°C H_2SO_4 to pH <2	28 days	100 ml
Semivolatile, nonvolatile organics	T, G	Cool, 4°C	14 days	60 ml
Volatiles	G, T-lined	Cool, 4°C	14 days	60 ml

[a]References: Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, SW-846 (2nd edition, 1982).
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
Standard Methods for the Examination of Water and Wastewater, 16th edition (1985).

[b]Container Types:
P = Plastic (polyethylene)
G = Glass
T = Fluorocarbon resins (PTFE, Teflon®, FEP, PFA, etc.)
PP = Polypropylene

(Continued)

V. SAMPLE PREPARATION

A. Work Area Requirements. The work area, preferably a laboratory, must be cleaned and must be an area where there has not been any large-scale chemical usage. Pesticide mix areas or areas used to handle explosives are not acceptable. Specific requirements for the work area include:

1. 110-volt electricity,
2. minimum of 10 linear feet of working bench space,
3. complete sample filtration system,
4. pH meter with accessories (if pH measurement required),
5. distilled water,
6. cleaning supplies including nitric acid and acetone,
7. chemical preservatives, and
8. Sample kits containing appropriate containers.

B. Sample Storage. Samples should be placed in a cool, dark place (preferably a refrigerator or locked cooler) until ready for shipment. Those containers filled in the field should be placed into such storage as soon as they are brought to the work area. The polyethylene gallon containers should also be kept in cool and dark storage when not being used. When containers are received from sample collectors they should be checked for proper labeling.

C. pH Measurement. The sample pH should be measured as soon as possible after the sample is taken. When a sample is exposed to the air, the pH level may change. This change is primarily due to loss of dissolved CO_2 from the sample. A pH measurement taken at the work area soon after the sample is taken will normally be more accurate than a field measurement as long as a significant pH change has not occurred. Visible evidence of precipitate forming in the sample between the time of sample collection and the time of pH measurement at the work area would indicate that the pH has changed and that an accurate measurement would have to be taken in the field as soon as the sample is taken. To be sure that accurate measurements are being obtained, it is recommended that pH measurements also be taken in the field with a portable meter during the initial sampling periods. For those sites where pH is not a required parameter (some sanitary landfills), it is recommended that pH be measured if an installation

APPENDIX VIII PARAMETERS:

NOTE:

It should be noted that all work (sampling, preservation, containerization and analyses) will be done in accordance with guidance in 46 FR 27477, 20 May 1981; 6 FR 29708, 3 June 1981, as amended in 49 FR 5312, 10 February 1984; and 50 FR 2000, 14 January 1985. Two QA samples (a blank and a duplicate) will accompany each set of Appendix VIII samples sent for analysis.

All groundwater samples.

A QA sample (a duplicate) will be taken one per site or one very 10 sampling wells, which ever is most per site.

Field equipment.

A field equipment blank shall be taken at each site before sampling begins. This shall be done by running distilled water through the equipment.

has a meter. For hazardous waste sites, pH measurement of four portions of the same sample are required. Sanitary landfill samples will only require one measurement. The following instructions should be followed when measuring pH.

1. Initially calibrate the pH meter in accordance with the manufacturers' specifications. The internal filling solution should cover the internal reference element in the combination electrode.

2. Standardize the meter with two buffer solutions, either pH 4.00 and 7.00, or 7.00 and 9.00. If samples are expected to be acidic, the lower range should be used. The buffer solutions should be placed into 150-mL beakers for measurement, and enough should be used so that the electrode is submerged at least 1 inch. The buffer and sample temperatures should be nearly the same when measurements are made. Groundwater temperatures are normally about 10 degrees Centigrade. Therefore, the buffer solutions should be cooled to approximately this temperature before use. If pH measurements of the buffer solutions do not agree with the known values, either some instrument adjustment is necessary, or the buffer solution is contaminated and should be replaced. In this situation, follow the instructions in the instrument manual. When making measurements on samples or buffer solutions, the liquid in the beaker should be stirred slightly using a magnetic stirrer and stirring bar.

3. Pour a portion of the unfiltered sample from the gallon polyethylene jug into a clean 150-mL beaker. Measure and record the temperature on the field data logsheet. Adjust the temperature compensation setting on the meter to the temperature of the sample in accordance with the instrument manual. Measure and record the pH. The measurement should be to the nearest 0.1 pH unit. For hazardous waste sites, portions of the sample should be placed into four beakers and measurements recorded for each. If any of the four replicate measurements differ from the others by more than 0.3 pH units, perform the measurements again using new sample portions in different beakers. If pH measurements are made in the field, stirring with a magnetic stirrer and cooling the buffer solutions will not be practical and the meter may not be adjustable for temperature. Simply standardize the meter using the buffer solutions; measure and record sample temperature and pH.

4. Rinse the electrode with distilled water from a squeeze bottle every time the electrode is removed from the solution and blot dry before dipping into the next solution. After an oily sample is measured, rinse the electrode with acetone from a squeeze bottle and then rinse with distilled water.

5. Measure a known control sample after every 20 sample measurements, or more often, and note results on the reverse side of the field data logsheet upon which the previous sample pH measurement was recorded. If the measured value is not within 10 percent of the known value, an instrument buffer or contamination problem is likely. This problem must be resolved before any further pH measurements are taken. Also repeat all sample measurements back to the last control sample or since the last standardization measurement.

6. Cleaning of beakers prior to use should be performed in accordance with instructions in Section V.F.

D. Filtering. Filtering may be performed by any one of three procedures. The first one being described is the most common type utilizing a standard vacuum pump and an all glass system. It consists of the pump, 1-liter filtering flask, ground glass base, 300-mL funnel, spring clamp, forcep, prefilters, and membrane filters. The order for assembling the filtering system is as indicated below:

1. The tubulated ground glass base is fitted over the 1-liter flask.

2. A membrane filter is carefully placed over the fitted glass area of the base and then overlaid by a prefilter. The prefilter and membrane filter shall be handled with forceps.

3. The funnel is placed on top of the prefilter and fastened to the base by the spring clamp.

4. Vacuum tubing is connected from the vacuum pump to the side arm nipple of the base.

5. The pump is turned on and sample is gently poured into the funnel. The filtration rate is dependent on the nature of the sample. It may be necessary to replace the filters if they are fairly well clogged or if the filtration rate is extremely slow. If this is done, great care must be exercised so as not to contaminate the sample and not allow any suspended matter to enter the already filtered portion.

The second filtration procedure which may be used is performed with compressed nitrogen instead of a vacuum pump. Large volumes can be filtered in a relatively short time period with this system. If this system is purchased, a detailed manual will be provided by the company. This system also uses the membrane filters and prefilters, only they are much larger than those with the vacuum system because of the larger filtration surface area. The third filtration procedure is also based on compressing a liquid sample through a membrane filter using nitrogen gas. Also with this procedure large volumes can be filtered in a relatively short time period. The procedure is known as pressure filtering. They should also be

handled only with the purchased forceps, never with one's fingers. Care must be exercised when handling the membrane filter to avoid making any tears or pin holes. Before a sample bottle is filled with a filtered sample, it should be rinsed once with a small amount of the filtered sample and then that portion discarded. Sample bottles should not be rinsed or cleaned in any other manner because they will have been appropriately cleaned prior to shipment. Smaller containers should be filled before the large 1-gallon cubitaner for radiochemistry parameters. All containers should be filled to nearly full, but not overflowing because preservative must be added to some. The samples for each site being monitored should be filtered beginning with the upgradient well(s) to minimize the possibility of cross contamination problems. The filtering apparatus should be cleaned between samples as instructed in Section V.F.

E. Sample Preservation

1. The sample should be preserved with the chemicals listed in Inclosures 1 and 2.

2. Care must be exercised when breaking and emptying any preservative ampules so as to minimize contamination and alleviate chemical spillage on the sampler's hands and clothes. Disposable gloves shall be worn to help protect the hands.

3. Sample preservation requirements will also be stated on the container labels to minimize error. The chemical preservative, filtering and cooling requirements will be identified on the appropriate container labels. All containers, including those to which preservative has not been added, should be checked to insure that they have been dated and initialed.

4. The time from sampling until filtering and preservation is complete must be kept as short as possible.

5. If many wells are to be sampled, it will probably be best to have two persons taking samples and two persons preparing samples simultaneously. If only a few wells are to be sampled, two persons could take the samples and then return to the work area and prepare them.

F. Special Handling Considerations

Samples requiring analysis for organics should not be filtered. Samples should not be transferred from one container to another, because losses of organic material onto the walls of the container or aeration may occur. Total organic halogens (TOX) and total organic carbon (TOC) samples should be handled and analyzed as materials containing volatile organics. No headspace should exist

organics. Field logs and laboratory analysis reports should note the headspace in the sample container(s) at the time of receipt by the laboratory, as well as at the time the sample was first transferred to the sample container at the wellhead.

Metallic ions that migrate through the unsaturated (vadose) and saturated zones and arrive at a ground-water monitoring well may be present in the well. Particles (e.g., silt, clay), which may be present in the well even after well evacuation procedures, may absorb or absorb various ionic species to effectively lower the dissovled metal content in the well water. Ground-water samples on which metals analysis will be conducted should be split into two portions. One portion should be filtered through a 0.45-micron membrane filter, transferred to a bottle, preserved with nitric acid to a pH less than 2 (Table 4-1), and analyzed for dissolved metals. The remaining portion should be transferred to a bottle, preserved with nitric acid, and analyzed for total metals. Any difference in concentration between the total and dissolved fractions may be attributed to the original metallic ion content of the particles and any sorption of ions to the particles.

G. Glassware and Equipment Cleaning

1. Proper cleaning of glassware and equipment is essential to obtaining accurate groundwater quality analytical results. Beakers and the filtration system must be rinsed thoroughly with tap water and then rinsed three times with distilled water between each sample. If any glassware or equipment becomes coated with an oily residue it should be rinsed with acetone using a 500-mL squeeze bottle and then washed thoroughly with hot detergent water prior to the tap water and distilled water rinsings. It is imperative that no acetone or detergent remain on the apparatus after the water rinsings. Additional instructions for cleaning are as follows:

a. Organics: Chromic acid--wash 15 min, rinse thoroughly with tap water, distilled water, and several times with redistilled acetone, hexane petroleum ether, or chloroform, and clean lids and liners in the same manner and store both in a sealed container until needed at the sampling site.

b. Metals: Soak in 1:1 AR grade nitric acid for 12 hr, then rinse thoroughly with three to five successive portions of high-quality distilled water. Seal containers and enclose in a sealed container until needed at the sampling site.

2. In addition to the above rinsings, all parts of the filtration system (except prefilters and membrane filters) shall be rinsed with a 50 percent nitric acid solution between samples from different facilities. If only one facility is being monitored, the acid rinse should precede the first sample. After the 50 percent nitric acid rinsing, the apparatus must be thoroughly rinsed with tap

water and then rinsed three times with distilled water. All traces of the nitric acid must be removed. The 50 percent nitric acid solution (nitric acid mixed with distilled water on a one-to-one basis) should be made up in the rigid, leakproof, 1-gallon size, polypropylene jug purchased by the installation. The disposable rubber gloves should be worn when making up this solution. First fill the jug half-way with distilled water. To it, carefully add concentrated nitric acid to near the top. Cap and mix gently. The solution will become hot, but the jug will withstand the thermal shock. This solution should be labeled and protected from all sampling bottles. Rubber gloves should also be worn when rinsing the filtering system.

3. More frequent 50 percent nitric acid solution rinsings are not desired because they are time consuming and because of the risk of acid residue affecting nitrate analysis results.

4. These instructions do not include procedures to be used to protect against cross contamination with organic compounds because these sample portions are not going to be filtered (pesticides, herbicides, total organic halogen).

VI. SAMPLE SHIPMENT

A. Packaging. All glass sample containers must be enclosed in their styrofoam packing and this packing wrapped with tape. Insulated coolers must be used as shipping containers for those sample portions which must be kept cool (see Inclosures 1 and 2). To maintain a low temperature during shipping, several reusable ice packs should be placed in the cooler with the samples. Those sample portions which do not require cooling (metals and radiochemistry parameters) may be shipped to the lab in the cardboard shipping containers used to ship the containers to the installation. Those installations with only a few wells and no radiochemistry analysis requirements may find it as convenient and no more costly to ship all sample containers in the coolers.

B. Shipping Times

1. Those sample portions which must be kept cool shall normally be shipped such that they are delivered to the laboratory within 2 days of shipment. The exception is those few sample portions which have parameters with very short holding times. These must be shipped so that they are delivered to the laboratory within 24 hours and are identified in Inclosure 2. The routine hazardous waste site monitoring does not require 24-hour shipping. However, such shipping may be required if analysis for special parameters is required or if 2-day shipping is found to be unsatisfactory for some

parameter. The cardboard shipping containers with metals and radiochemistry analysis samples may be shipped in any manner which will insure delivery within 7 days. If any samples arrive at the laboratory late and holding times can not be met, the samples will be discarded and the holding times specified in 40 CFR Part 136, 18 December 1979 Federal Register, pages 75028-75052, will be complied with.

2. All samples taken during any one day and which require cooling must be prepared, packaged, and shipped the same day. The metals and radiochemistry samples may be shipped the following day if it is more convenient. If samples arrive at the laboratory and analysis can not be performed soon enough to meet holding times, the samples will be discarded and resampling will be necessary.

3. Paperwork for return shipment must be inclosed in the coolers when they are shipped to the laboratory.

C. Chain-of-Custody

If samples are to be used for compliance purposes, a chain-of-custody procedure must be employed and must begin in the field. This will ensure that the samples are collected, transferred, stored, analyzed, and destroyed only by authorized personnel. The following chain-of-custody procedures are generally considered to be acceptable:

1. A written procedure is provided to the field and laboratory personnel to assure that sample possession is traceable.

2. Involve a minimum number of trained persons in sample collection and handling.

3. Provide guidelines to be followed for sample collection, including number of samples, sampling method to be used, preservation, and handling.

4. At the time the sample is collected a chain-of-custody tag (Figure 2) with tamperproof seal (Figure 3) is attached to the sample. Information on the tags should be written legibly with waterproof ink. A chain-of-custody record (Figure A4) should accompany the samples.

5. Bound field notebooks are used to record field measurements and information necessary to reconstruct the sample collection process.

D. QA in the Field

Procedures and equipment shall meet project requirements. The QA coordinator shall be provided documentation to:

1. Assure approved methodology.

2. Assure the percentage of QC analyses and results.

Figure A2. Example of chain-of-custody sample tag.

ANACON

[illegible] A-15
(713) 941-6703 PASADENA, TEXAS 77502

SPLE. No. _____ AN-LAB No. _____

COLLECTOR _____

SPLE. LOCATION _____

_____

SPLE. DATE _____ TIME _____

PRESERVATIVE _____

PARAMETERS _____

3. Validate the procedures used for recording, processing, and reporting data.

4. Ensure the calibration and maintenance of field instruments.

5. Ensure qualifications of field personnel.

For each project type a minimum of seven sets of split samples, spiked samples, and sample preservation blanks shall be collected to define acceptable estimates of precision and accuracy criteria for data validation.

VII. ANALYTICAL TESTING (U.S. ARMY ENGINEER WATERWAY EXPERIMENT STATION)

A. Facilities

Laboratory facilities must include sufficient space to process and examine the samples for the required parameters during peak work loads (Ö 200 ft^2 and 15 linear ft of bench space per analyst). Storage space must also be provided for samples, glassware, equipment, and refrigeration.

Hot and cold running water, high capacity sinks and drains capable of accepting acid waste, distilled/deionized water, and ultra-pure water for trace analyses should be readily available. Provisions should be made for adequate electrical outlets and vacuum systems.

Exhaust hoods capable of venting organic solvents and acid fumes should be provided as well as laminar flow hoods for trace analyses and carcinogens and special purpose hoods for perchloric acid.

Cleanliness in the laboratory should be emphasized to reduce possible contamination.

Safety features to comply with Federal Occupational Safety and Health Administration regulations should include fire extinguishers, safety showers, eyewash stations, mandatory eye protection requirements, first aid equipment, protective garments, chemical dispensing devices, and safety education.

B. Laboratory Personnel

QA can only be as good as the personnel involved in the analysis. Educational and/or experience requirements are determined by the nature and complexity of the analysis. A skill-time rating for some standard analytical operations is given in Table A2.

The time limits presented in Table A2 are based on use of approved methodology. A tacit assumption has been made that multiple analytical units are available for measurements requiring special equipment, as for cyanides, phenols, ammonia, nitrogen, and COD. For some of the simple instrumental or simple volumetric measurements, it is assumed that other operations such as

Table A2*

SKILL-TIME RATING OF STANDARD ANALYTICAL OPERATIONS

Measurement	Skill Required (Rating No.)[1]	Number[2] Per Day
Simple Instrumental		
pH	1	100-125
Conductivity	1	100-125
Turbicity	1	75-100
Color	1	60-75
Dissolved Oxygen (Probe)	1,2	100-125
Fluoride (Probe)	1,2	100-125
Simple Volumetric:		
Alkalinity (Potentiometric)	1	50-75
Acidity (Potentiometric)	1	50-75
Chloride	1	100-125
Hardness	1	100-125
Dissolved Oxygen (Winkler)	1,2	75-100
Simple Gravemetric:		
Solids Suspended	1,2	20-25
Solids, Dissolved	1,2	20-25
Solids, Total	1,2	25-30
Solids, Volatile	1,2	25-30
Simple Colorimetric:		
Nitrate N (Manual)	2	75-100
Nitrate N (Manual)	2	40-50
Sulfate (Turbidimetric)	2	70-80
Silica	2	70-80
Arsenic	2,3	20-30
Complex, Volumetric, or Colorimetric:		
BOD	2,3	[2]15-20
COD	2,3	25-30
TIN	2,3	25-30
Ammonia	2,3	25-30

(Continued)

[1]Skill-required rating numbers are defined as follows:

1-aide who is a semiskilled subprofessional with minimum background or training, comparable to GS-3 through GS-5.

2-aide with special training or professional with minimum training with background in general laboratory techniques and some knowledge of chemistry, compatible to GS-5 through GS-7.

3-experienced analyst capable of following complex procedures with good background in analytical techniques, professional, compatible to GS-9 through GS-12.

4-Experienced analyst specialized in highly complex procedures, professional, comparable to GS-11 through GS-13.

[2]Rate depends on type of samples.

Table A2 (Continued)*

Measurement	Skill Required (Rating No.)[1]	Number Per Day[2]
Phenol (Distillation Included)	2,3	20-30
Oil and Grease	2,3	25-30
Fluoride (Distillation Included)	2,3	25-30
Cyanide	2,3	8-10
Special Instrumental:		
TOC	2,3	75-100
Metals (by AA), No Preliminary Treatment	2,3	150
Metals (by AA), With Preliminary Treatment	2,3	60-80
Organics (by GC), Pesticides Without Cleanup	3,4	3-4
Organics (by GC), Pesticides, With Cleanup	3,4	2-4

*Source, U. S. Environmental Protection Agency, 1979, Handbook for Analytical Quality Control in Water and Wastewater Laboratories, EPA-600/4-79-019.

filtration, dilution, or duplicate readings are required; in such cases the number of measurements performed per day may appear to be fewer than one would normally anticipate.

Training is an essential part of any program measuring water quality. For more experienced, higher grade personnel, formal training in special fields, possibly leading to specialization will be a part of each individual's career development plan. Such training is fostered through local institutions and through the training courses developed by the Corps, EPA, and other government agencies.

Formalized training for lower grade personnel is relatively scarce. However, skills can be most efficiently improved at the bench level on a personal informal basis by more experienced analysts working in the same area. Exposure of personnel to pertinent literature will also be a definite program policy.

Personnel will be indoctrinated into QA procedures and their importance. Laboratory supervisors will periodically review basic techniques and policies with the analysts. Recognition of excellent performance as well as tactful assessment of areas needing improvement will aid in overall laboratory performance.

C. Instrumentation

Instrumentation is an integral part of all water and wastewater laboratories and is constantly being improved and upgraded. "State of the art" equipment and practices are essential if laboratories are to obtain data that will meet the accuracy, precision, and sensitivity required by today's monitoring programs. A routine maintenance and calibration program will be provided and documented. Table A3 presents calibration recommendations for some of the major instruments in the laboratory. Assignment of responsibility will be clearly defined and records will be maintained in a bound notebook or equivalent permanent records management file. Some considerations to be made when planning the purchase of new equipment are:

1. Is there a need, present or future for the item, i.e., does present or projected regulations specify tests that this equipment will be used for?

2. Does the purchaser have equipment in-house that can be modified or adapted to perform the necessary function at a lesser cost?

3. Will the purchaser have the necessary auxiliary input, e.g., if G.C. - Mass spectroscopy unit is requested, will library facilities be available?

TABLE A3. INSTRUMENT CALIBRATIONS*

Instrument	Procedure	Frequency
1) Analytical Balances	(a) Zero	Before each use
	(b) Standard weights	Monthly
	(c) Full adjustment adjustment	Annually
2) pH Meters	At pH 4,7, and 10	Daily
3) Conductivity Meters	(a) Obtain cell constant with potassium chloride reference solutions	Daily
	(b) Construct temperature curve if measurements are to be made other than at 25 ± 0.5°	Monthly
4) Nephelometer/ Turbidimeters	(a) Check instrument scales or develop calibration curve with formazin stds (40NTU)	Monthly
	(b) If manufacturer's stds are not formazine, check against formazine stds. (40NTU)	Annually
5) Colorimeters/Filter Photometers	Curves determined with 5-6 laboratory-prepared std. solutions for each parameter in conc. range of samples	Daily
6) UV/Visible Specrophotmeters	(a) Wavelength calibration with holmium oxide glass or solution, low-pressure mercury arc, benzene vapor (UV), or hydrogen arc (visible)	Quarterly
	(b) Absorbance vs. concentration curves with 5-6 std. Solutions for each parameter at analytical wavelength in conc. range of samples	Daily
	(c) Full servicing and adjustment	Annually

* Source, U. S. Environmental Protection Agency, 1978, "Procedures for the Evaluation of Environmental Monitoring Laboratories," EPA-600/4-78-017.

TABLE A3. (Continued)

Instrument	Procedure	Frequency
7) Infrared Spectro-photometers	(a) Wavelength calibration with polystyrene or indene	Daily
	(b) Absorbance vs. concentration curves with 5-6 std. solutions for each parameter at analytical wavelength in conc. range of samples	Daily
	(c) Full servicing and adjustment	Semi-annually
8) Atomic Absorption Spectrophotmeters	(a) Response vs. concentration curves with 6-8 std. solutions for each metal (std. mixtures are acceptable, but with same acid as samples to be run) in conc. range of samples	Daily
	(b) Full servicing and adjustment	Annually
9) Carbon Analyzers	Curves determined with 5-6 std. solutions in conc. range of samples	Daily
10) DO Meters	Calibrated against modified Winkler method on aerated distilled or tap water	Daily
11) Other Selective Ion Electrodes and Electromenters	Curves determined with 5-6 std. solutions in conc. range of samples	Daily
12) Thermometers	Calibrate in constant temperature baths at two temperatures against precision thermometers certified by NBS	Quarterly
13) Technicon Auto Analyzers	(a) Curves determined with std. solutions for each parameter	Each set of samples
	(b) Full service and adjustment (esp. colorimeter)	Annually
14) Gas Chromatographs	(a) Retention times and detector response checked with std. solutions	Daily
	(b) Response curves for each parameter determined with std. solutions	Monthly
15) Radiological Equipment	(See Standard Methods, Sect. 300)	

4. Are there technically competent personnel available to operate the equipment? If not, what plans are available for hiring or training such personnel?

D. Methodology

Analytical methods for routine environmental testing of water samples should be selected using the following criteria:

1. The selected methods should measure desired constituents of water samples in the presence of normal interferences with sufficient precision and accuracy to meet the water data needs.

2. The selected procedures should use equipment and skills ordinarily available in the average water pollution control laboratory or water supply laboratory.

3. The selected methods should be sufficiently tested to have established their validity.

4. The selected methods should be sufficiently rapid to permit repetitive routine use in the examination of large numbers of water samples.

More complex matrices such as those encountered in sediment, soil and plant tissue may require extensive sample preparation and variance in procedures to compensate for analytical interferences. Procedural development is frequently necessary for samples of this type. Whenever possible a standard reference material in a similar matrix should be analyzed with the sample to assure method reliability.

When Federal regulations must be met, such as for Section 304(h) of Public Law 92-500 and for the Interim Primary Drinking Water Regulations, EPA approved methods will be used. Methodology for implementation of Section 404(b)(1) of PL 92-500 is provided in Reference 2h.

Methodologies must be carefully documented and readily available to each analyst. Laboratory inspections will be made to assure adherence to the written procedure. Method documentation will include the following items for QA review:

1. Parameter that the method measures.

2. Principle - A brief description of the method.

3. Optimum Concentration Range - The analytical range from the lowest concentration to the highest concentration in which a substance is measured. The sample may be concentrated or diluted so that the substance can be detected within this range.

4. Sensitivity - The slope of a curve of concentration versus instrument response (such as absorbance).

5. Detection Limit - The lowest quantity which may be distinguished from background with an acceptable degree of confidence.

6. Reference - The source of the analytical method. In addition all variances of the original procedure are documented here.

7. Matrix - The general composition of the sample that the method is capable of handling, e.g., water (potable, ambient, wastewater), solids (leachates, sediments, sludges), air (filter particulates, bubbler solutions, cassette trap), fluids (solvents, hydrocarbons, oils).

8. Analysis Procedure

a. Description - The analytical procedure is described for normal conditions. Sample pretreatment (if required) and preparation protocols are also described here. The language used to describe the method is to be detailed enough (cook-book fashion) so that a technician with experience in the respective type of analysis would clearly understand every step of the procedure. Analytical techniques that employ a great deal of instrumentation such as atomic absorption and automated analyzers are briefly described since instrument manuals are available which detail the use of the instrument. However, auto analyzer manifolds are to be depicted.

b. Instrument Parameters - A description of the instrument and all the instrument settings that are necessary to set up the instrument for normal conditions.

c. Routine Performance Tests - A test of the instrument performance which is separate from a calibration procedure and is a gross indication of the instrument's response. This test is performed and documented each time a batch of samples is processed or else on a daily basis. The frequency chosen for instrument response check is dependent on the analyst's confidence of instrument stability.

d. Calibration Standards - The calibration standards are described in terms of the range of concentrations used in the normal procedure and in terms of composition (preparation of standard solutions) employed for various matrices.

E. Reagents

Reagents are available in a wide range of grades; the purity requirement varies with the type of analysis being conducted. For many analyses American Chemical Society (ACS) reagent-grade quality is acceptable, and use of reagents of lesser purity should be prohibited. Where special high-purity grades, such as spectro grade or reference grade, are required, the analytical procedure should specify the special grade or the required in-house purification, such as distillation or recrystallization.

Upon receipt, a reagent should be labeled with the date of receipt, who received it, and an expiration date if it is unstable. When reagent quality

is critical and variation is expected in the quality by reagent lot or source, initial testing of the reagent may be advisable before placing it in laboratory stores.

An effective inventory control program should be used to assure that reagent stocks are rotated, out-of-date reagents are discarded, and necessary stocks of reagents are maintained. Reagents must be stored in accordance with manufacturer's directions to assure reagent integrity, such as storage of light-sensitive reagents in dark bottles, protection from excessive heat, and so on.

For most reagents, verification of reagent suitability is conducted by analyzing a reagent blank with the series of analyses. Charting of the reagent blank determinations may be advisable.

Distilled or deionized water should be used in all analyses and for final rinsing of glassware. As a minimum, laboratory water should meet American Society for Testing and Materials (ASTM) specifications for either Type I or Type II reagent water (see Table A4). Type I reagent water is filtered deionized water and is the most common grade of water used in industrial hygiene laboratories. Type II reagent water is distilled water (usually

TABLE A4. AMERICAN SOCIETY FOR TESTING AND MATERIALS SPECIFICATIONS FOR REAGENT WATER[a]

	Type I	Type II	Type III	Type IV
Total matter, maximum mg/1	0.1	0.1	1.0	2.0
Electrical conductivity, maximum micromho/cm at 25°C	0.06	1.0	1.0	5.0
Electrical resistivity, minimum MW · cm at 25°C	16.66	1.0	1.0	0.20
pH at 25°C			6.2-7.5	5.0-8.0
Minimum color retention time (min)	60	60	10	10

[a]Source: American Society for Testing and Materials[67]

double distilled) and is used for most analytical methods requiring organic-free water.

Laboratory water should be periodically tested for specific conductance, and corrective actions should be taken as indicated. The analyst should be aware of possible sources of contamination from leaching, especially when water is stored for extended periods of time after deionization or distillation.

F. Analytical Performance

Valid precision and accuracy data must be maintained for each method and analyst by initial and systematic checks. Generally, control charts such as those developed by Dr. Walter A. Shewhart are used to show standard deviations (precision) and ranges (accuracy). Details for preparing these charts are presented in Appendix AA and are taken from EPA's Handbook for Analytical Quality Control in Water and Wastewater Laboratories. When either the precision or accuracy is outside acceptable limits, steps are taken to correct the problem before proceeding with the analysis. After resolution, the problem and its solution must be documented and all analyses since the last in-control check must be repeated or discarded. A minimum laboratory QA program should include control procedures for each parameter as described in the following:

1. Standard Curves - A new standard curve should be established with each new batch of reagents, using at least seven concentration levels.

2. QC Checks for Each Analytical Run -

a. One blank on water and reagents.

b. One midpoint standard.

c. One spike to determine recovery (or every eighth sample).

d. One set of duplicate analyses (or every eighth sample).

e. Interlaboratory QC

(1) Analyze reference type samples to provide independent checks on the analytical system. These may be obtained from EPA, NBS, and independent agencies.

(2) Participate in performance evaluation and method studies as available from EPA (audit-sample program), American Standard for Testing and Materials (ASTM), and other agencies.

Performance checks should be computerized wherever possible to facilitate evaluation.

G. Data Handling and Reporting

After the laboratory has established control over sample collection, instrumentation, and analytical methods, the data must be handled and reported in order to be useful and accurate. Prescribed procedures must be established for controlling the passage of samples through the laboratory.

1. Analytical Process

a. Samples are recorded in a logbook upon arrival and assigned a number. All descriptive information concerning the sample, source, quantity,

collection time, and sample collector is entered. This information may also be entered into a computer data storage and retrieval system.

b. An analytical request sheet is prepared which lists the sample number, descriptive information, and all necessary pretreatments and analyses. Space is provided for completion dates. If information is computerized, a flag date for expected completion time may also be added.

c. As results are completed, the name of the analyst, calculation, and all pertinent data are noted on the results sheets (which may be attached to the request sheets or made as part of the request sheet).

d. After all analyses are completed, the results are sent to the laboratory supervisor or person responsible for reporting results. After review, they are put into final report form which may be a typed copy or computer output.

e. Analysis request forms and results are filed for future reference.

2. Data Control

a. The proper use of significant figures should be emphasized.

b. Data should be rounded properly.

c. Bound books should be used at the bench to maintain permanent records.

d. Care must be taken to avoid transfer errors when entering data onto cards or into a computer.

e. Automation of instrumentation in many instances will eliminate errors in the transfer process and speed up data availability.

A flow chart showing the sequence of events in the laboratory is presented in Figure A5.

If sample data are to be used for compliance or regulatory purposes, a chain of custody record such as that shown in Figure A4 may be used to accompany the sample.

H. Standards

Data generated are only as good as the standards used for instrument and method calibrations. All measurements or calibrations shall be traceable directly or indirectly to an acceptable reference standard. Both EPA and NBS are excellent sources for these materials.

When standard solutions are prepared, records must be maintained to assure traceability of calibrations to the primary standard. For standard

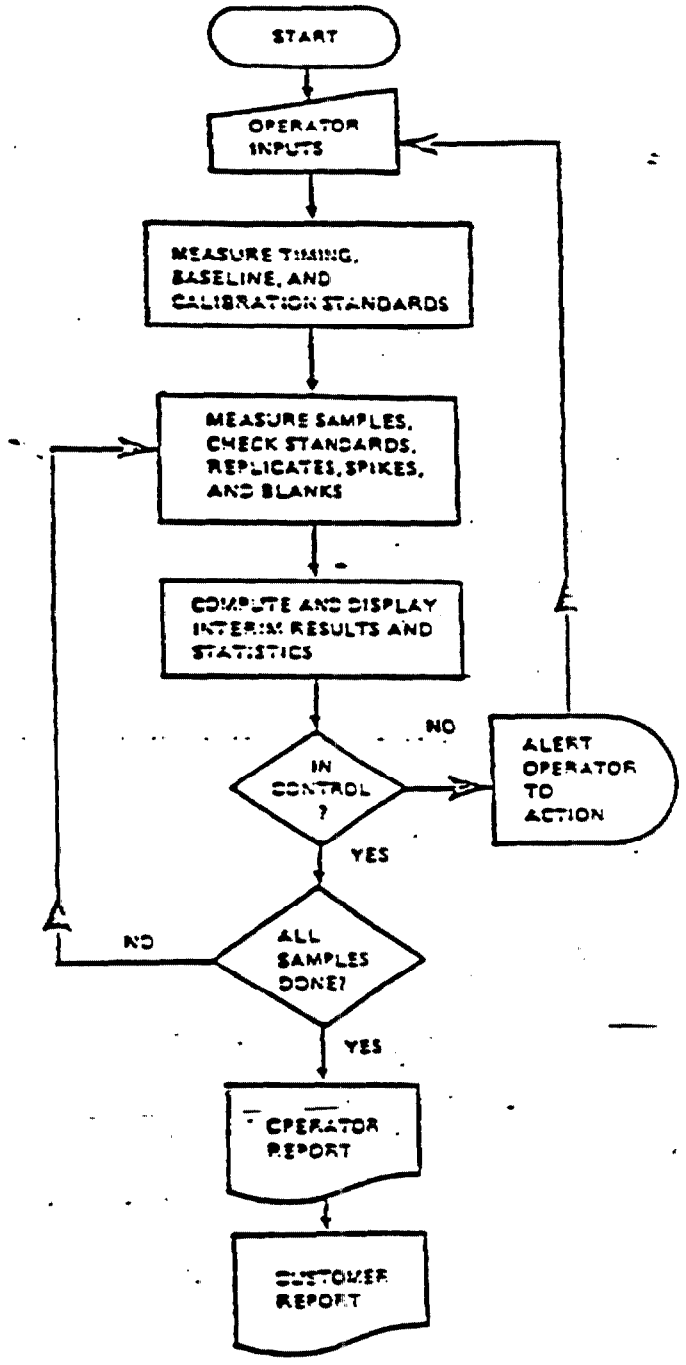

Figure A5. Flow chart of the sequence of events during a controlled series of laboratory measurements.

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solutions that are prepared just prior to use, traceability is easily accomplished by including the standard solution preparation data in the analyst's log book.

For previously prepared working or stock standard solutions that are available for use by several analysts, traceability can be accomplished by use of a standard solution log. The log book should contain raw data on solution preparation or a reference to the data's location (i.e., analyst's laboratory book number and page), as well as the information placed on the standard solution label (i.e., identification, solution number, date prepared, expiration date, and analyst's initials). Traceability is completed by including the standard solution number in the analyst's laboratory book when the standard solution is used.

When standard solutions are stored for extended periods of time, verification of solution stability may be possible by requiring at least one fresh standard to be prepared at each time of use, or by comparing the standard solution against a freshly prepared solution at the end of the expiration dating period. Storage of dilute solutions or extended storage when less than one-fourth of the container is full should be avoided whenever possible.

I. Supervisory Control

Behind every good analytical laboratory is a good supervisor who maintains a continuing interest in the quality of data produced. A QA program provides the management mechanism to document precision, accuracy, completeness, and comparability of data. In this regard, the Quality Assurance Office will check on a weekly basis to review analytical laboratory operations and QC with analysts. Management will be provided with a status report on a regular (monthly) basis.

J. Contractor Laboratories

Quality Assurance begins with and is most directly controlled in the procurement process. If the contracting officer and project officer fail to procure high quality sampling and analytical services, the project is subject to inferior data from the beginning. For this reason, all contracts, grants, and interagency agreements (IAG's) developed primarily for the purpose of measuring chemical components in water and wastewater shall be subject to the following QA requirements:

1. All requests for Proposals (RFP's) grant and IAG application shall include a separate clause dealing with QA requirements.

2. As part of the selection process, technical evaluation criteria shall be applied to the proposed contractor QA program and the percentage of effort to be devoted to QA activities shall be specifically stated.

The IERL-CI laboratory of the EPA has put together a checklist for evaluation criteria to be used in rating quality assurance programs submitted

as part of a contract proposal or grant application. These are given in Appendix B. Reference 21 also supplies excellent guidance for selecting a contractor for biological and chemical analyses.

The QA Section of the Technical proposal shall address the following items:

a. Goal of the QA program.

b. Organization and responsibility of the QA program.

c. Sample collection procedures including site selection, frequency, flow measurements, sample handling and preservation, chain of custody, and field analyses.

d. Facilities, personnel, and equipment.

e. Calibration procedures—standards and verification.

f. Analytical procedures.

g. Internal and external QC practices.

h. Data handling and reporting.

i. Documentation of QA practices.

j. Percentage effort devoted to QA (cost and time).

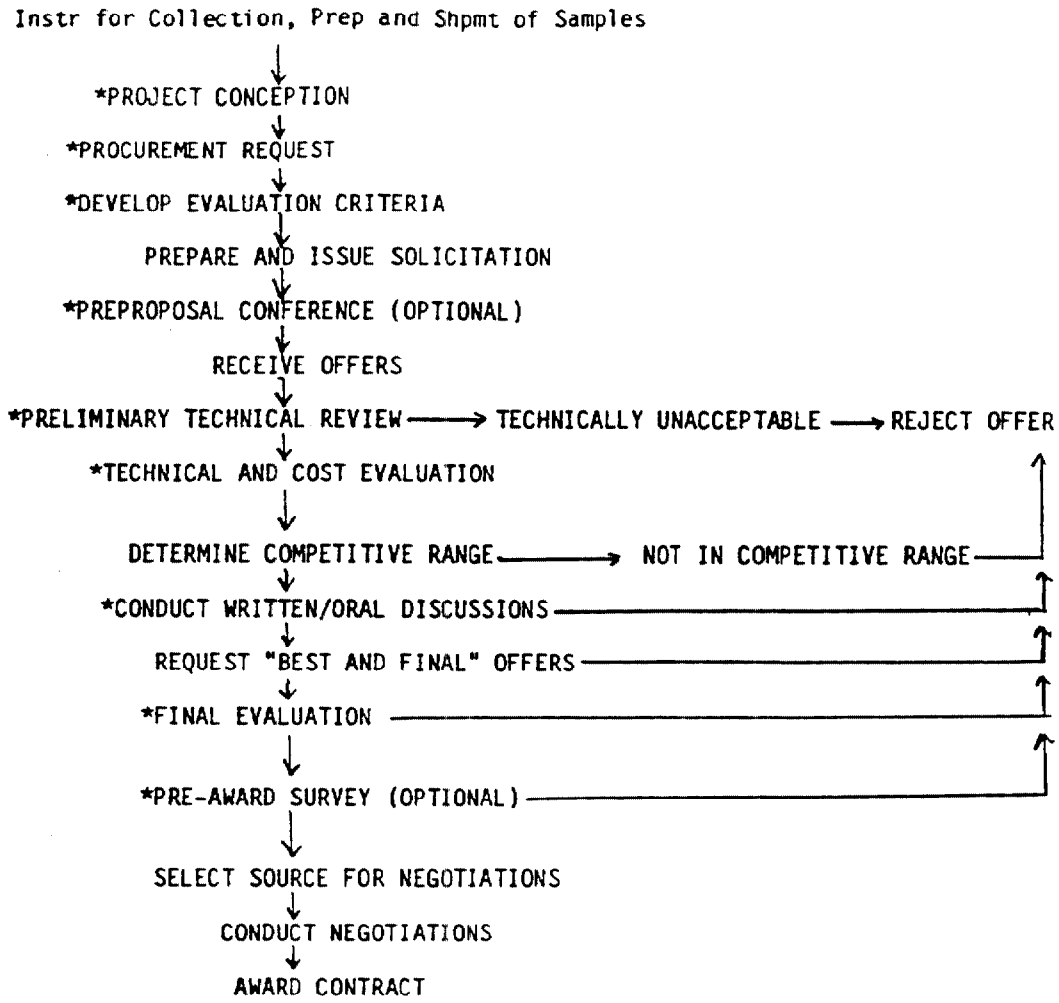
3. Before selection and award of a contract, bidders may be required to show:

a. Acceptable performance on audit samples.

b. By on-site evaluation that manpower, equipment, and supplies necessary for completion of the project are available.

4. The contracting agency may also require that a specified number of split samples be analyzed by both the Contractor and the agency.

Figure A7 shows the sequence of events in awarding a contract and the areas where quality assurance should be injected. It is the responsibility of the project officer to see that QA requirements which are a part of the contract, grant, or IAG are met during the course of the monitoring project. Prior to contract awards the QA officer should be available to provide technical advice to the project officer and should work with him in the initial development of the contract, grant, or IAG. The QA program developed by the contract, grant, or IAG must be coordinated with the QA officer before award.



*QA considerations are important at these points in the process.

Figure A7. Processing sequence for contract source evaluation and selection

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VIII. SCHEDULING AND DATA REPORTING

A. Scheduling. Routine sampling for all CERCLA- and RCRA-established sites has been established for January and June of each sampling year. New RCRA wells will be sampled quarterly (September, January, March and June) for all pertinent Group I, II and III parameters during the first year of sampling.

B. Field Data Log Sheets. Notify the laboratory of sample shipment the day of shipment. Copies of field data log sheets should also be provided this installation immediately after shipment of samples.

C. Data Reporting. The contractor laboratory will mail a tabulation of chemical analysis results, with interpretation, to the installation within one month after receipt of samples. If an assessment is required, the installation will be notified telephonically. Installation personnel are responsible for reporting data to regulatory authorities.

D. Resampling. Resampling may be necessary for a variety of reasons. Resampling will normally be directed through telephone contact with the laboratory. In those situations where resampling is desired because of indicated groundwater contamination problems, the regulatory agencies will be notified.

Appendix M
Explanation of Statistical Methods (T-Test)

1.0 EXPLANATION OF STATISTICAL METHODOLOGIES

1.1 Introduction

The EPA requires the use of t-test methodology in the analysis of ground water data for interim status facilities[1]. The analysis must also provide validity of the t-test assumptions which are that the samples are independent and drawn from a Normal distribution. Normality is proven by using either a Goodness of Fit or graphical technique.

1.2 Goodness Of Fit Test

In the case of small sample sizes, a Goodness of Fit test would be difficult to run and interpret. It is suggested that a graphical approach may be applied[1].

For large sample sizes, the Goodness of Fit test of choice is the Chi-square test. This test may be used regardless of the distribution.

Method:

1. Divide the total number of observations in the sample by 4 and round to the nearest integer.

   This will determine the number of cells that are to be used (K).

2. Standardize the observations (subtract each from the mean and divide by the standard deviation).

3. Determine the number of observations that fall into each cell according to table A. The expected number of observations for each cell is N/K where N is the total number of observations and K is the number of cells.

4. Calculate the test statistic by

$$x^2 = \sum_{i=1}^{k} \frac{(N_i - E_i)^2}{E_i}$$

Where N_i is the number of observations in cell i, E_i is the expected number of observations in each cell.

5. Compare this to the tabled value. If

$$x^2 < x^2_{table}$$

then the data fits the distribution.

Note: In practice the test is most often applied to the Normal distribution.

Table A

	Number of cells (K)					
	5	6	7	8	9	10
Cell boundaries for equal expected cell size with the normal distribution	-0.84	-0.97	-1.07	-1.15	-1.22	-1.28
	-0.25	-0.43	-0.57	-0.67	-1.08	-0.84
	0.25	0.00	-0.18	-0.32	-0.43	-0.52
	0.84	0.43	0.18	0.00	-0.14	-0.25
		0.97	0.57	0.32	0.14	0.00
			1.07	0.67	0.43	0.25
				1.15	1.08	0.52
					1.22	0.84
						1.28

In the instance of small sample sizes, a graphical procedure may be more practical. This procedure involves a Normal Probability Plot. It compares the actual values of the data with the values of a Normal distribution having the same mean and variance.

Method:

1. Find the mean and variance of sample.
2. Order data from smallest to largest.
3. Standardize ordered observations.
4. Number the ordered observations from 1 to n (where n is the sample size).
5. Calculate i/n for each observation, (ie i=1 implies the first observation, i=2 implies the second observation, etc.).
6. For each i/n, use the standard Normal Table and find the expected z-score for that percentage.
7. Plot the expected z-score on the vertical axis and the actual z-score on the horizontal axis.
8. The decision of Normality is made if the observations fall close to a straight line, otherwise a transformation is necessary.

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Other statistics are available, such as skewness and kurtosis. When a distribution is not symmetric, the distance from symmetry is skewness. Kurtosis is a measure of the distribution of cases in the tails. They may be helpful in verifying the assumption of Normality.

1.3 Adjustment for Seasonality

Before a t-test may be run, the Environmental Protection Agency requires an adjustment for seasonality when establishing the characteristics of the background data. Any analysis should include both scientific and statistical evidence of a claim of seasonality. The suggested method accounts for and removes any seasonal effect from the data[2].

Method:

1. Calculate the mean over the n years from each sampling period.
2. Calculate mean for n years.
3. Calculate the adjusted observations by

$$z_{ij} = x_{ij} - \bar{x}_i + \bar{x}.$$

The z_{ij}s become the new observations with which to establish background values. This approach is also restricted by small sample sizes. Even for large sample sizes, the use of any correction should be done with caution, since these corrections represent extrapolation into the future.

1.4 Less Than Detectable Limits

For certain parameters, there may exist observations which are less than detectable limits. In these instances, there are techniques which can estimate the means and variances of the samples. One technique, known as Cohen's method is discussed in detail in Reference (1) pg. B-2.

Another method, suggests that if the number of less than detectable limit observations is small, divide the detectable limit in half and use it as a quantitative value to compute the mean and variance (see Reference (2) pg. B-1).

1.5 T-Test

There are a variety of t-tests available. The t-test of choice for most ground water analysis is the AR-test. This test

tends to reduce statistically caused false positives. The most common and well-known is the Student t-test. The Student t-test is based on the Student t-distribution which was published in 1908 by W.S. Gossett under the pen name "Student". The decision as to which test to use is left to the owner/operator but should be made based on the data being analyzed.

To work with the Student t-test, and actually for most t-tests, it is necessary to compute the mean and the variance for the sample from the controlled data and the sample to be compared to the control data. These computations are as follows[1]:

For background well i, sampling period j:

$$\text{mean:} \bar{x}_{b,ij} = \sum_{k=1}^{p_b} x_{ijk} / p_b$$

where P_b is the number of replicates available

$$\text{variance:} \quad s^2_{b,ij} = \sum_{k=1}^{p_b} (x_{b,ijh} - \bar{x}_{b,ij})^2 / (p_b - 1).$$

monitoring well i during sampling period j

$$\text{mean:} \quad \bar{x}_{m,ij} = \sum_{k=1}^{p_m} x_{ijk} / p_m$$

and

$$\text{variance:} \quad s^2_{m,ikj} = (x_{m,ijk} - \bar{x}_{m,ij})^2 / (p_m - 1).$$

After these calculations are made, the mean of the means for the background wells is needed. Calculate this by

$$\bar{x}_b = \sum_{i=1}^{n_b} \sum_{j=1}^{o_b} \bar{x}_{b,ij} / n_b o_b.$$

The background variance of the means is calculated by

$$s^{2b} = \sum_{i=1}^{n_b} \sum_{j=1}^{o_b} (\bar{x}_{b,ij} - \bar{x}_b)^2 / ((n_b o_b) - 1).$$

Once these computations are finished, the t-test may be computed.

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For the AR-test, the computation is

$$t^*_{m,i} = \frac{\overline{x}_{m,i} - \overline{x}_b}{\sqrt{s_b^2 (1 + 1 / n_b o_b)}}$$

For the Student's t-test, the computation is

$$t^*_{m,i} = \frac{\sqrt{n_b o_b}\ (\overline{x}_{m,i} - \overline{x}_b)}{s_b} .$$

Where,

n_b - number of background wells sampled

o_b - number of background periods sampled

For these values, the t-test has $n_b o_b$-1 degrees of freedom. Compare these values with a t distribution with the appropriate degrees of freedom and α = .01 (as specified by reference 3. pg. 370)

$$t_{.01, n_b o_b - 1}.$$

If

$$t^*_{m,i} > t_{.01, n_b o_b - 1}$$

<u>then there is a suggestion of contamination at the well being analyzed</u>.

At this point, the power of the test should be evaluated to check the false negative rate. This involves finding the value such that t*m,i will not be rejected. The power of the t-test is 1-.

1.6 Example

The data set is a portion of a data set given in Reference 1, Appendix B, Table 1 and Table 2.

Background Data

Period	Well	TOC
1	1	60.3
		60.9
		61.2
		60.7
	2	58.3
		58.2
		58.0
		58.4
2	1	63.2
		63.2
		63.4
		64.0
2		59.9
		60.1
		59.7
		59.7

Monitored Well Data

Well	TOC
1	71.7
	72.3
	70.9
	72.4

Background means

$X_{b,1,1} = (60.3 + 60.9 + 61.2 + 60.7)/4 = 60.775$

$X_{b,2,1} = (58.3 + 58.2 + 58 + 58.4)/4 = 58.225$

$X_{b,1,2} = (63.2 + 63.2 + 63.4 + 64)/4 = 63.45$

$X_{b,2,2} = (59.9 + 60.1 + 59.7 + 59.7)/4 = 59.85$

Monitoring well mean

$X_{m,1,1} = (71.7 + 72.3 + 70.9 + 72.4)/4 = 71.825$

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Monitoring well variance

$$s^2_{m,1,1} = ((71.7-71.825)^2 + (72.3 - 71.825)^2 + (70.9 - 71.825)^2 + (72.4 - 71.825)^{2)} / 3$$
$$= (.014625 + .275625 + .180625 + 855625) / 3$$
$$= .47583$$

Background Mean

$$\overline{x}_b = (60.775 + 58.225 + 63.45 + 59.85) / 2 * 2 = 60.575$$

Background Variance

$$s_b^2 = ((60.775 - 60.575)^2 + (58.225 - 60.565)^2 + (63.45 - 60.575)^2 + (59.85 - 60.575)^{2)} / (4 - 1) = 4.78458$$

Using the AR-Test

$$t^2_{m,1} = \frac{71.825 - 60.575}{\sqrt{(4.78458)(1 + 1/4)}} = \frac{11.25}{\sqrt{(4.78458)\ (5/4)}}$$
$$= \frac{2(11.25)}{\sqrt{(4.78458)\ (5)}} = \frac{22.5}{\sqrt{23.9229}} = \frac{22.5}{4.8911} = 4.6002$$

Using the Student T-Test

$$t^*_{m,i} = \frac{71.825 - 60.575}{\sqrt{(4.78458)\ (1/4)}} = \frac{2\ (11.25)}{\sqrt{4.78458}} = \frac{22.5}{2.1874} = 10.28618$$

The t-test has three degrees of freedom. So the rejection region is reject $|t| > 4.541$ (using =.01). Thus, both the AR t-test and the Student t-test are rejected. In rejecting, there is a need to investigate this well for contamination. The power for both tests is;

	Power
AR t-test	$.99 < \pi(\theta) < .995$
Student t-test	$\pi(\theta) > .995$

The $\pi\theta$ values are taken from a t-table using three degrees of freedom.

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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
May 1994

3. REPORT TYPE AND DATES COVERED
Final report

4. TITLE AND SUBTITLE
Final Report, RCRA Facility Investigation, Phase III, Groundwater Release Characterization, SWMU 03/10, Ammunition Burning Ground, Volume I: Main Text, Figures, Tables, and Appendices; Volume II: Plates

5. FUNDING NUMBERS
NAVCOMPT Document No. N62472-92 MP00011

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

8. PERFORMING ORGANIZATION REPORT NUMBER
Technical Report
GL-94-15

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

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

A Phase III RCRA Facility Investigation (RFI), Release Characterization for Groundwater, of the Ammunition Burning Ground (ABG), Naval Surface Warfare Center Crane (NSWCC), Indiana, was conducted by the Waterways Experiment Station. The RFI consisted of analysis of hydrogeological data obtained from surface and subsurface investigations and groundwater quality data from monitoring wells in and near the ABG. Groundwater springs in the vicinity of the ABG have also been sampled. Groundwater in the ABG study area occurs primarily in three aquifers. Groundwater migrates from the ABG principally through solution-widened discontinuities in the Beech Creek limestone, a poorly developed karst. Beech Creek groundwaters issue at springs both within and outside of the NSWCC boundary. Dye tracer tests in the Beech Creek aquifer and sampling of springs have shown that certain springs within NSWCC discharge groundwater originating beneath the ABG under appropriate flow conditions. Several wells within the ABG were shown to be contaminated. Noted contaminants detected in a number of wells were RDX, trichloroethylene (TCE) and the trace metal barium. Other trace metals were detected less frequently. A release of contaminants to the groundwater has occurred. The RFI should proceed to Corrective Measures Study and Implementation.

14. SUBJECT TERMS
Explosives contamination, Geology in Indiana, Groundwater, Groundwater contamination, Karst

15. NUMBER OF PAGES
Vol I: 624; Vol II: 20

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT
UNCLASSIFIED

18. SECURITY CLASSIFICATION OF THIS PAGE
UNCLASSIFIED

19. SECURITY CLASSIFICATION OF ABSTRACT

20. LIMITATION OF ABSTRACT