Groundwater Impact Assessment Report for the 216-U-14 Ditch

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Office of Environmental Restoration and
Waste Management

Westinghouse
Hanford Company Richland, Washington

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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Groundwater Impact Assessment Report for the 216-U-14 Ditch

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GROUNDWATER IMPACT ASSESSMENT REPORT FOR THE 216-U-14 DITCH, 200 WEST AREA

1.0 INTRODUCTION

Groundwater impact assessments are conducted at liquid effluent receiving sites on the Hanford Site to determine hydrologic and contaminant impacts caused by discharging wastewater to the soil column. The assessments conducted are pursuant to the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-17-00A and M-17-00B, as agreed by the U.S. Department of Energy (DOE), Washington State Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA) (Ecology et al. 1992). This report assesses impacts on the groundwater and vadose zone from wastewater discharged to the 216-U-14 Ditch. Contemporary effluent waste streams of interest are 242-S Evaporator Steam Condensate and UO₃/U Plant wastewater.

1.1 BACKGROUND

In response to public comments on the original Tri-Party Agreement, and at the request of the signatories on the Tri-Party Agreement, the DOE, Richland Operations Office (RL) assessed the impact of liquid effluents discharged to the ground at the Hanford Site. The results are documented in the *Liquid Effluent Study Final Project Report* (WHC 1990a). Ecology and EPA expressed concern regarding uncertainties in the evaluation. Foremost among these concerns were the lack of site-specific data, the need to consider interactions with adjacent facilities, and the need for sophisticated modeling of contaminant flow and transport. As a result, Milestones M-17-00A, M-17-00B, M-17-13, and M-17-13A were engendered to direct groundwater impact assessments.

Tri-Party Agreement Milestones M-17-00A and M-17-00B require impact assessments for Phase I and II streams. Phase I and II streams are defined in Stordeur and Flyckt (1988). The 216-U-14 Ditch currently receives 242-S Evaporator Steam Condensate (Phase II stream) and UO₃/U Plant wastewater (Phase I stream). Tri-Party Agreement Milestone M-17-13 required a methodology for assessing the impact of liquid effluent discharge on groundwater, which resulted in the document, *A Methodology for Assessing Impacts to Groundwater from Disposal of Liquid Effluent to the Soil at the Hanford Site* (Tyler 1991). Thirty days after regulatory approval of the methodology document, as required by Tri-Party Agreement Milestone M-17-13A, a schedule for performing the assessments at 13 receiving sites was completed.

1.2 METHODOLOGY

The methodology report categorizes 13 receiving sites based on the level of effort required to support the assessed impact. A level 1 receiving-site groundwater impact assessment relies on available information. A groundwater impact assessment of a level 2 receiving site may require nonintrusive field

work to verify the extent of existing contamination. A level 3 site may involve intrusive field work. The actual level of effort, as defined in the methodology report, should be based on information presented in the Groundwater Impact Assessment Plan.

The following responsibilities must be conducted for the methodology document as part of the groundwater impact assessment for level 1 receiving sites:

- Prepare, present, and describe how the groundwater assessment will be conducted
- Characterize the liquid effluent stream
- Evaluate the site-specific hydrogeology
- Develop a site conceptual model
- Assess the hydrologic impact of the liquid effluent stream
- Assess the contaminant impact of the liquid effluent stream
- Evaluate the adequacy of the existing monitoring well network
- Prepare a written report of the results.

The tasks required for level 2 and 3 sites are similar to those outlined above and may also include field activities. The 216-U-14 Ditch is a level 3 receiving site.

2.0 FACILITY DESCRIPTION

2.1 216-U-14 DITCH LOCATION

The 216-U-14 Ditch is located on a 1,434-km² (560-mi²) tract of land in the south-central portion of Washington State known as the Hanford Site. The ditch is located in the central portion of the Hanford Site in the 200 West Area, approximately 32 km (20 mi) northwest of the city of Richland, Washington (Figure 1).

2.2 216-U-14 DITCH DESCRIPTION AND HISTORY

The 216-U-14 Ditch is a 1,731-m- (5,680-ft-) long, unlined and open manmade channel. The ditch was built between 1943 and 1944 as part of the 216-U-Pond (U Pond) disposal system. The ditch, and to a larger extent U Pond, were used to manage low-level radioactive wastewater by infiltration through the soil column and natural evaporation. The ditch channelled effluent to U Pond between 1943 and 1985. Effluent was channelled from the head end of the ditch, located at current outfall to the 284-WB Powerhouse Ponds to U Pond in the southwest corner of the 200 West Area. The ditch received wastewater from the 242-S Evaporator, the UO₃/U Plant (e.g., 221-U, 224-U), 241-U Tank Farm, 283-W Water Treatment Plant, 284-W Powerhouse, 2723-W Laundry and Mask Cleaning Station, and the 2724-W Laundry. The dates and sources of discharge to the ditch are shown in Figure 2. In 1985, U Pond and most of the 216-U-14 Ditch were permanently stabilized with sand and gravel to control surface contamination. Permanently stabilized areas of the ditch no longer receive effluents.

Today the active portion of the ditch is open, unlined, and 2 (base) to 17 m (8 [base] to 55 ft) wide, 3 m (9 ft) deep, and 430 m (1,410 ft) long. The ditch is divided into western and eastern halves. A large-diameter metal conduit beneath Cooper Street connects the two halves of the ditch. The 216-U-14 Ditch currently receives effluent discharge from the 242-S Evaporator and the UO₃/U Plant. The UO₃/U Plant discharge pipe is located in the eastern half of the ditch near 16th Street and is generally upslope of surface flow. The 242-S Evaporator discharge pipe is located in the western half of the ditch about 38 m (125 ft) west of Cooper Street. Recent observations indicate that effluent from the 242-S Evaporator and UO₃/U Plant do not mix at the surface and are managed as separate waste streams on opposite ends of the 216-U-14 Ditch.

In March 1992, the western half of the 216-U-14 Ditch was partially stabilized with an engineered barrier to control surface contamination. The slopes were pushed in, approximately half the ditch was brought to grade, and the bottom of the ditch was covered with large boulders and gravel. The eastern half of the ditch remains open and is unstabilized, except for the abundant vegetation that minimizes the spread of contamination. Both halves of the ditch were maintained to manage effluent discharge as necessary.

Figure 2. Illustration of Discharge History to the 216-U-14 Ditch.

H9308009.4

..... Represents influents to U-14 at one time or another

The 216-U-14 Ditch supports a diverse population of aquatic plants (e.g., cattails, bulrush). Because of plant growth and the accumulation of fly ash, scale, and lint, the infiltration capacity of the ditch was often reduced. The ditch has been periodically dredged to facilitate waterflow and prevent backups (Landeem and Leitz 1982). Dredged material was placed along the west side of the ditch. To reduce potential contamination, the west berm between the head wall and 19th Street and between Camden Avenue and the U Pond delta was removed in 1979 (Last 1981) (see Figure 1). Dredging and subsequent removal of the waste berm along the ditch reduced the contaminant burden generated before 1979, assuming most of the contamination remained near the surface.

2.3 242-S EVAPORATOR HISTORY

The 242-S Evaporator started operating in 1973 and stopped in the early 1980's. The facility reduced the volume of radioactive liquid waste by evaporating water from feed solutions to produce a concentrated salt solution. The solution separates upon cooling to form salt cake and residual liquor. Steam and process condensate from the facility was sent to the 216-S-25 Crib. Cooling water was sent to the U Pond via the 216-U-14 Ditch. Contributors to the waste stream include reboiler steam condensate, steam condensate, raw water from heating and cooling jackets, and purging system trap condensate.

2.3.1 242-S Waste Stream Description

Wastewater currently produced at the 242-S Evaporator is primarily cooling water and seal water. Chemicals expected in the waste stream are commonly found in raw water. When the plant was in the processing mode, tritium, strontium-90, cesium-137, and ammonium hydroxide were the principal contaminants of interest. No unplanned releases are associated with the 242-S Evaporator (DOE-RL 1992a). Landeem and Leitz (1982) indicates that the 242-S Evaporator has resulted in the accumulation of transuranics throughout the ditch.

2.4 283-W WATER TREATMENT PLANT HISTORY

The 283-W Water Treatment Plant provides potable water to the 200 West Area. Water is pumped from the Columbia River and treated with alum (aluminum sulfate), filtered, and chlorinated. Wastewater from the 283-W Water Treatment Plant entered the 216-U-14 Ditch between 1955 and 1984 (Landeem and Leitz 1982). Waste entering the ditch from this facility is not well documented but was likely analyzed as part of the 284-W Powerhouse and 2724-W Laundry discharge.¹

¹Beginning in 1955 wastewater from the 2723-W Mask Cleaning Station, 284-W Powerhouse, 2724-W Laundry, and 277-W Fabrication Shop emptied into the same pipeline (RHO-HS-EV-0004).

2.5 284-W POWERHOUSE HISTORY

The 284-W Powerhouse began operating in 1944 to generate steam. The 283-W Water Treatment Plant provides the water for generating steam. Cooling water generated by this facility was discharged into the head end of the ditch between 1944 and 1984. After 1984, the effective date the ditch was stabilized, effluent was discharged to the 284-WB Powerhouse Ponds. The 284-WB Powerhouse Ponds was constructed over the head end of the 216-U-14 Ditch. Effluent from the 284-WB Powerhouse Ponds never flowed through the current active section of the ditch. Hydrologic and contaminant impacts from the 284-WB Powerhouse Ponds are addressed in WHC-EP-0679 (Alexander et al. 1993).

2.5.1 284-W Powerhouse Waste Stream Description

Wastewater produced at the 284-W Powerhouse is primarily cooling water. Chemical constituents of interest in the wastewater are barium, chloride, fluoride, lead, manganese, aluminum, and iron. There are no activities in the 284-W Powerhouse that involve radioactive materials.²

2.6 2723-W LAUNDRY AND MASK CLEANING STATION HISTORY

The 2723-W Laundry began operating in fall 1944. The facility is used to wash personal protective equipment (e.g., nonradioactive and radioactive clothing). Effluent from this facility was discharged to the head end of the ditch until 1952. The 2723-W Mask Cleaning Station discharged to the ditch between 1955 and 1981. The cleaning station was used to wash respiratory protective equipment. Effluent from this facility was discharged to the head end of the ditch until 1981. Contaminants expected in the wastewater are similar to those described in the 2724-W Laundry waste stream in Section 2.7.1.²

2.7 2724-W LAUNDRY HISTORY

The 2724-W Laundry began operating in 1952 and replaced the 2723-W Laundry. The facility is used to wash personal protective equipment (e.g., nonradioactive and radioactive clothing). Effluent from this facility was discharged into the head end of the ditch between 1952 and 1982. After 1981, effluent was discharged to the 216-W-LC Crib. It is reported in WHC (1990b) that waste oil from the 277-W Fabrication Shop may have also entered the 2724-W Laundry waste stream.

²Beginning in 1955 wastewater from the 2723-W Mask Cleaning Station, 284-W Powerhouse, 2724-W Laundry, and 277-W Fabrication Shop emptied into the same pipeline (RHO-HS-EV-0004).

2.7.1 2724-W Laundry Waste Stream Description

The 2724-W Laundry wastewater consists of wash and rinse water from batch laundry operation and steam condensate from steam-heated dryers. Detergents, phosphate, and radioactive contaminants are expected in the wastewater.

2.8 UO₃/U PLANT HISTORY

The 224-U Building, also known as the UO₃ Plant, was constructed in 1944 for plutonium processing, but was not used for that purpose. The 224-U Building operated as a training facility from 1944 to 1950. The building was converted to a uranium reduction facility in 1952 and 1955 to support the Plutonium-Uranium Extraction (PUREX) Plant. The UO₃ Plant receives 60% liquid uranyl nitrate hexahydrate from the PUREX Plant by tanker truck. The uranyl nitrate hexahydrate is converted into UO₃ powder, nitric acid, and condensed water vapor. The principal processes are evaporation and calcination. The calcination process changes the nitrates in solution to nitrogen oxide gases that are recovered as 45 to 50% nitric acid in a gas-liquid absorption process. The recovered nitric acid is shipped back to the PUREX Plant. The UO₃ powder is loaded into shipping containers and is currently being stored at UO₃ Plant. The final calcination run was completed June 1993.

When not operating, the UO₃ Plant is in a "standby" mode. During standby mode, rainwater, steam condensate, water from area washdown, safety showers, and process equipment are collected in sumps and pumped to collection tanks. When sufficient water is collected, it is pumped to a steam heat vessel and evaporated and condensed. The concentrated material in the heated vessel has a high uranium content and is periodically shipped to the PUREX Plant. The condensate and cooling water used in the condenser comprise part of the wastewater. The UO₃/U Plant is currently transitioning to shut down the facility.

2.8.1 UO₃/U Plant Waste Stream Description

The UO₃ wastewater is primarily cooling water from the process equipment condensers and air compressors. The waste stream receives steam condensate and washdown water from nonradiation area floor drains in the 224-U Building. Chemicals that may contaminate wastewater if there is an equipment failure are nitrate and uranium. This waste stream has no direct connection with any process and is not treated. This waste stream also receives steam condensate from building heating, raw water used for building cooling, sanitary water, and condensate exhaust from facilities in the U Plant (i.e., 222-U; 271-U heating, ventilating, and air conditioning (HVAC); 221-U; 291-U-1 Stack). This waste stream does not contain U Plant process waste.

2.9 NEARBY WASTE MANAGEMENT FACILITIES³

This section describes waste management facilities near the 216-U-14 Ditch and an estimate of their radiological and chemical inventory. This information provides input to make an assessment of potential contaminants from nearby waste management units and the potential for lateral migration. Information in this section was primarily obtained from DOE-RL (1992a) and DOE-RL (1992b). Locations of nearby facilities are identified in Figure 1.

2.9.1 216-S-4 Crib

The 216-S-4 Crib is located about 213 m (700 ft) south of the 216-U-14 Ditch. This waste management unit consists of two French drains with a 76-cm- (30-in.-) diameter rock encasement. The encasements are metal cylindrical culverts placed end to end to a depth of 6.1 m (20 ft). The crib was active from August 1953 to August 1956 and received 1,000,000 L (264,173 gal) of waste from the condensers on the 241-S-101 and 241-S-194 Tanks. The radiological and chemical inventory for this facility includes 0.2 Ci of tritium and 1 kg (2.2 lb) of nitrate.

2.9.2 216-S-21 Crib

The 216-S-21 Crib is an inactive crib located 99 m (325 ft) south of the 216-U-14 Ditch. From 1954 to 1969, the crib received 241-SX Tank Farm condensate from the condensers in the 401-SX Condenser Facility via the 206-SX Tank in the 241-SX Tank Farm. The 216-S-21 Crib was retired in February 1969. The 216-S-21 Crib received 87,100,000 L (23,009,457 gal) of low salt and neutral/basic liquid waste. The chemicals disposed of were sodium and ammonium nitrate. The radiological inventory for this facility includes 0.33 Ci of cobalt-60, 21.8 Ci of strontium-90, 85.5 Ci of cesium-137, 2.08 g total of plutonium, 0.119 Ci of plutonium-239, 0.032 Ci of plutonium-240, 1.39×10^{-6} Ci of ruthenium-106, 1.4×10^{-4} Ci total of uranium, 0.128 Ci of alpha, and 208 Ci of beta. The chemical inventory for this facility includes 130 and 800 kg (287 and 1,764 lb) of sodium and ammonium nitrate, respectively.

2.9.3 216-S-23 Crib

The 216-S-23 Crib is an inactive crib located 200 m (656 ft) southeast of the 216-U-14 Ditch. The crib operated from January 1969 to July 1972. The crib received 3.41×10^7 L (9.0×10^6 gal) of process condensate from the D-2 Receiver Tank in the 202-S Building. The waste was low salt and neutral/basic liquid waste. The radiological inventory for this facility includes 1.14 Ci of strontium-90, 3.47 Ci of cesium-137, 0.99 g total of

³The inventories reported may not be representative of all contaminants disposed into, or stored at, the waste management facility.

plutonium, 3.49×10^{-6} Ci of ruthenium-106, 1.29×10^{-4} Ci total of uranium, 0.0611 Ci of alpha, and 9.07 Ci of beta. The chemical inventory for this facility includes 300 kg (661 lb) of nitric acid.

2.9.4 216-U-3 French Drain

The 216-U-3 French drain is located about 30 m (100 ft) west of the northern end of the 216-U-14 Ditch. The 216-U-3 French drain is a 4-m- (12-ft-) deep, rock-filled excavation with a 0.3-m- (1-ft-) diameter bottom and side slopes of 3:1. The drain is a Washington State registered underground injection well.

From 1954 to 1955, the 216-U-3 French drain received condensate from the 241-U Steam condenser on waste tanks at the 242-U Tank Farm. Approximately 791,000 L (208,961 gal) of low salt, neutral-basic condensate has been pumped into the drain. The radiological inventory for this facility includes 1.57×10^{-3} Ci of cobalt-60, 0.041 Ci of strontium-90, 0.434 Ci of cesium-137, 0.100 g total of plutonium, 5.7×10^{-3} Ci of plutonium-239, 1.54×10^{-3} Ci of plutonium-240, 6.06×10^{-3} Ci total of uranium, 6.14×10^{-3} Ci of alpha, and 0.2 Ci of beta. The chemical inventory for this facility includes 9 kg (20 lb) of nitrate. No surface contamination was detected in the 1990 survey, and high gamma activity was observed in a nearby groundwater monitoring well (299-W19-1).

2.9.5 216-U-10 Pond

The 216-U-10 Pond is located 37 m (120 ft) southwest of the active section of the 216-U-14 Ditch. The pond was constructed in 1944 to receive low-level liquid effluent from the plutonium processing plant complex. At its maximum extent, the pond covered approximately 30 acres (12 ha) and received more than 1.63×10^{11} L (4.3×10^{10} gal) of contaminated liquid. The 216-U-10 Pond was deactivated in 1985. After deactivation, the pond was stabilized with a minimum of 1.2 m (4 ft) of clean soil.

The estimated radiological inventory for the 216-U-10 Pond includes 8.2 kg (18 lb) of plutonium, 1,500 kg (3,300 lb) of uranium, 15.3 Ci of cesium-137, and 22.6 Ci of strontium-90. Radionuclides detected in U Pond sediment samples before the pond was covered are sodium-22, potassium-40, cobalt-60, strontium-85, strontium-90, ruthenium-106, antimony-125, cesium-134, cesium-144, europium-154, europium-155, uranium-234, uranium-235, uranium-238, plutonium-238, plutonium-239, plutonium-240, americium-241, and radium-226 (RHO-HS-SA-19 [Last 1983]).

2.9.6 216-U-13 Trench

The 216-U-13 Trench operated from 1952 to 1956 for equipment decontamination. Located immediately west of the 241-U Tank Farm, 216-U-13 Trench consists of two sites, each 61 m (200 ft) long, 7.6 m (25 ft) deep, and 5.5 m (18 ft) wide at the bottom. According to the Waste Information Data System, there are 640 m^3 (22,601 ft^3) of contaminated soil and $11,000 \text{ m}^3$ (388,459 ft^3) of overburden soil at this site. A comprehensive

radiation survey was made in 1981 of the ground and surface vegetation in the zoned area of the trenches. Readings were less than background, except for two locations. The area has since been released as a radiation zone, and no markers or barriers identify the location.

The 216-U-13 Trench received 114,000 L (30,116 gal) of liquid waste. The radiological inventory for this facility includes 1.79×10^{-3} Ci of cobalt-60, 0.042 Ci of strontium-90, 0.044 Ci of cesium-137, 0.100 g total of plutonium, 5.7×10^{-3} Ci of plutonium-239, 1.54×10^{-3} Ci of plutonium-240, 1.2×10^{-4} Ci total of uranium, 6.14×10^{-3} Ci of alpha, and 0.176 Ci of beta.

2.9.7 216-Z-1D Ditch

The 216-Z-1D Ditch is located about 152.5 m (500 ft) northwest of the 216-U-14 Ditch. The 216-Z-1D Ditch operated from December 1944 to March 1959 as a liquid disposal site for Z Plant operations. Z Plant operations include the Plutonium Finishing Plant, Recuplex Plutonium Recovery Plant, Plutonium Reclamation Facility, and the Americium Recovery Facility. The ditch received approximately 1,000,000 L (264,173 gal) of process cooling water, steam condensate, and vacuum pump sealant water from the 321-Z, 234-5Z, and 291-Z Buildings. Wastewater from this facility drained into the 216-U-10 Pond. It was deactivated and replaced by the 216-Z-11 Ditch in 1959. The contamination burden of the site includes 137 Ci of plutonium-239 and 37 Ci of plutonium-240. The chemical inventory for the ditch includes carbon tetrachloride and tributyl phosphate.

2.9.8 216-Z-11-2 Ditch

The 216-Z-11-2 Ditch is located about 152.5 m (500 ft) northwest of the 216-U-14 Ditch boundary. The 216-Z-11-2 Ditch began operations in 1959 and served as a replacement ditch for the 216-Z-1D Ditch. It paralleled the earlier ditch from a point immediately east of the 241-Z Building to the 216-U-10 Pond. The 216-Z-11-2 Ditch received liquid waste from Plutonium Finishing Plant operation until it was deactivated and replaced by the 216-Z-19 Ditch in 1971. The site was stabilized (i.e., backfilled and graded) when it was retired. Additional fill was added during the deactivation of the 216-Z-19 Ditch in 1981. The ditch was 798 m (2,615 ft) long, 0.6 m (2 ft) deep, and 1.2 m (4 ft) wide at the bottom with side slopes of 2:5:1 and a 0.05% grade.

Radiological contaminants within the ditch include 137 Ci of plutonium-239 and 37 Ci of plutonium-240. The chemical inventory is part of the 216-U-10 Pond inventory. The total volume of liquid processed is not reported.

2.9.9 216-Z-19 Ditch

The 216-Z-19 Ditch is about 305 m (1,000 ft) northwest of the 216-U-14 Ditch. The 216-Z-19 Ditch operated from May 1971 to September 1981 and replaced the 216-Z-11-2 Ditch as a liquid waste disposal site for the various Plutonium Finishing Plant facilities. The ditch received process

cooling waste and steam condensate from the 234-5Z Building, vacuum pump seal water from the 291-Z Building, and cooling water from the 231-Z Building. The total volume of liquid processed is not reported. The chemical and radiological inventory is similar to 216-Z-11-1 and 216-Z-1D Ditches.

2.9.10 216-Z-20 Crib

The 216-Z-20 Crib is located about 396 m (1,300 ft) northeast of the 216-U-14 Ditch. The 216-Z-20 Crib was constructed in 1981 to discharge liquid effluent from the Plutonium Finishing Plant. The crib is 457 m (1,500 ft) long, 3 m (10 ft) wide on the bottom, and backfilled with 2.3 m (7.5 ft) of gravel. Perforated pipes, connected to the building's effluent headers, were embedded in the gravel backfill to distribute effluents throughout the crib. A vapor barrier was placed above the gravel backfill. The remaining area above the vapor barrier was covered with soil to the existing grade. The average flow into the ditch since 1989 is 2.33×10^7 L/month (5.5×10^6 gal/month). The total volume of liquid released to the crib is 4.05×10^9 L (9.5×10^8 gal). Chemicals disposed to the crib include acetone, aluminum, and nitrate. The radiological inventory for this facility includes 0.063 Ci of strontium-90, 0.0864 Ci of cesium-137, 0.148 g total of plutonium, 0.0153 Ci of plutonium-238, 2.03 Ci of plutonium-239, 2.51 Ci of plutonium-241, 1.07×10^{-4} Ci of ruthenium-106, 1.01 Ci of americium-241, 2.22 Ci of alpha, and 0.41 Ci of beta. Hydrologic and contaminant impacts from the 216-Z-20 Crib are addressed in WHC-EP-0674 (Johnson 1993a).

2.9.11 241-S Tank Farms

The 241-S Area Tank Farms inclusive of 241-S, 241-SY, and 241-SX Tank Farms are located about 150 m (492 ft) south of the 216-U-14 Ditch. The 241-S and 241-SX Tank Farms contain 27 single-shelled tanks constructed from 1950 to 1951 and 1953 to 1954, respectively. The three double-shelled tanks in the 241-SY Tank Farm were constructed from 1974 to 1976. Each tank in the farms has a 3,785,000-L (1,000,000-gal) storage capacity. The radiological and chemical inventory for the 241-S Tank Farms are found in DOE-RL (1992a).

2.9.12 241-U Tank Farm

The 241-U Tank Farm is located about 91 m (300 ft) northwest of the northern most point of the 216-U-14 Ditch. The 241-U Tank Farm was constructed between 1943 and 1944 to handle and store liquid wastes generated by uranium and plutonium processing activities. Sixteen single-shell tanks are present in this farm: 12 are 2,006,000-L (530,000-gal) capacity and 4 are 208,000-L (55,000-gal) capacity. Wastes stored in the tanks include sludge, supernatant liquid waste, bismuth phosphate metal waste, nitric acid, potassium permanganate solution, uncomplex waste, high-level waste (HLW), salt cake and other precipitated solids, laboratory waste, uranium, organic waste, and plutonium. The radiological and chemical inventory for the 241-U Tank Farm is found in DOE-RL (1992b).

3.0 DATA COLLECTION ACTIVITIES

This section describes Phase I and II data collection activities and summarizes the data. Phase I activities involved a search for existing data. Phase II activities consist of the field investigations and document existing conditions at the 216-U-14 Ditch. Activities described in this section were conducted in accordance with the *Groundwater Impact Assessment Plan for the 216-U-14 Ditch* (Singleton 1993) as a guide.

3.1 PHASE I--COMPILE EXISTING DATA

The Phase I investigation consisted of three major tasks. Task I.1--Compile Existing Waste Stream Chemistry, provides data to assess the potential contaminant contribution to the ditch. Task I.2--Compile Discharge Data, documents the quantity of liquid discharge to the ditch. Task I.3--Compile Hydrogeologic Data, provides input for development of the site conceptual model.

3.1.1 Task I.1 and I.2--Compile Discharge and Waste Stream Chemistry Data

An effort was made to compile waste stream chemistry and discharge data from facilities releasing effluent to the 216-U-14 Ditch. The data is compiled to identify potential contaminants, estimate contaminant loading, and determine the quantity of liquid discharged. The information was obtained from historical documents (References 1 through 48) and incorporates all known or available data for the timeframe that effluent flowed through or into the active section of the ditch. Contributing effluent streams and the timeframe of discharge are shown in Figure 2.

The lack of stream-specific analysis data, periodic dredging of the ditch, and recording of individual waste stream data in the U Pond inventory precludes the gathering of reliable information to determine contaminant loading. No data were available to evaluate the nonradiological contribution to the ditch before 1985 and the radiological inventory is at best fragmentary. Therefore, only the reported values of effluent discharge and chemical and radiological inventory are summarized. Actual contaminant values in the waste stream are presumed to be greater.

Waste stream data is presented in Tables 1 through 3 and Figures 3 and 4. Table 1 summarizes effluent data from the 242-S Evaporator. Table 2 summarizes effluent data from UO₃/U Plant. Table 3 summarizes discharge and radiological inventory from 1944 to 1993. A plot of the estimated volume of effluent discharged to the U Pond disposal system between 1944 and 1986 is shown in Figure 3, including its major tributaries. Figure 4 is a plot of the volume discharged to the ditch from 1968 to 1993.

3.1.1.1 Unusual/Offnormal Occurrences. Four unusual/offnormal releases are documented in the Occurrence Reporting System (ORS) regarding the 216-U-14 Ditch. The releases occurred on August 6, 1986; May 5, 1992;

Table 1. 242-S Evaporator Steam Condensate Chemical Data Summary
for the 216-U-14 Ditch (WHC 1990b). (sheet 1 of 2)

Chemical	242-S Steam Condensate Wastewater (ppb)			
	$[\bar{X}]$	$[\bar{X}]$	$[\bar{X}]$	$[\bar{X}]$
	1986	1987	1989	1990
Barium	25	27	30	30
Boron	ND	ND	11 ^a	21
Calcium	19,000	19,000	20,000	19,000
Chloride	3,400	3,200	3,600	3,900
Copper	<10	<10	<10	12 ^a
Fluoride (IC)	<500	<500	<500	750 ^a
Fluoride (ISE)	ND	ND	160	120
Iron	61 ^a	<5	<5	<5
Lead	6.1 ^a	<5	<5	<5
Magnesium	4,200	4,200	4,100	4,500
Manganese	17	<5	<5	<5
Nitrate	550 ^a	<500	500 ^a	500 ^a
Potassium	900	850	750	720
Silicon	ND	ND	2,200	2,100
Sodium	2,200	2,200	2,200	2,100
Strontium	<300	<300	100	100
Sulfate	13,000	17,000	13,000	15,000
Sulfide	<1,000	1,020 ^a	<1,000	<1,000
Uranium	0.5	0.2	0.3	0.3
Zinc	75	80	40	20
Ammonia	52 ^a	<50	50 ^a	<50
Halogenated hydrocarbons	ND	ND	34	NA
Trichloromethane	22	20	21	14

Table 1. 242-S Evaporator Steam Condensate Chemical Data Summary
for the 216-U-14 Ditch (WHC 1990b). (sheet 2 of 2)

Chemical	242-S Steam Condensate Wastewater (ppb)			
	[$\bar{X}$]	[$\bar{X}$]	[$\bar{X}$]	[$\bar{X}$]
	1986	1987	1989	1990
Alkalinity (method B)	ND	ND	55,000	58,000
Alpha activity (pCi/L)	1	0.4	0.7 ^a	<0.2
Beta activity (pCi/L)	8	2	3 ^a	<0.5
Conductivity (μ S)	160	150	160	160
Ignitability ($^{\circ}$ F)	ND	ND	200	200
pH	5.6	5.8	7.7	8.0
Total dissolved solids	ND	ND	77,000	76,000
Temperature ($^{\circ}$ C)	28	27	21	21
Total organic carbon	1,000	1,500	<1,000	<1,000
Total carbon	ND	ND	15,000	14,000
Total organic halogen (as chloride)	130	130	180	130
Cobalt-60 (pCi/L)	ND	ND	0.6	1
Strontium-90 (pCi/L)	ND	ND	0.2	<0.3
Uranium-234 (pCi/L)	ND	ND	0.1	0.2
Uranium-238 (pCi/L)	ND	ND	0.1	0.1

^aIndicates a less than (<) value was used in calculating the average.

IC = Ion chromatography.

ISE = Ion specific electrode.

ND = No data.

ppb = Parts per billion.

[$\bar{X}$] = Mean concentration.

Table 2. UO₃/U Plant Wastewater Chemical Data Summary for the 216-U-14 Ditch (WHC 1990b). (sheet 1 of 2)

Chemical	UO ₃ /U Plant Wastewater Chemistry (ppb)				
	[X]	[X]	[X]	[X]	[X]
	1985	1986	1987	1989	1990
Arsenic (EP toxic)	ND	ND	ND	<500	<500
Barium	26	28	30	30	29
Barium (EP toxic)	ND	ND	ND	<1,000	<1,000
Boron	ND	ND	ND	11	22
Cadmium (EP toxic)	ND	ND	ND	<100	<100
Calcium	17,000	17,000	20,000	18,000	18,000
Chloride	1,200	600 ^a	890	900	940
Chromium (EP toxic)	ND	ND	ND	<500	<500
Copper	<10	<10	16	31	15 ^a
Fluoride (IC)	<500	<500	<500	<500	<500
Fluoride (ISE)	ND	ND	ND	130	130
Iron	240	110	<50	<30	30 ^a
Lead	<30	9	<5	<5	<5
Lead (EP toxic)	ND	ND	ND	<500	<500
Magnesium	3,900	3,800	4,600	4,000	4,400
Manganese	50	20	<5	<5	<5
Mercury (EP toxic)	ND	ND	ND	<500	<500
Nitrate	<500	<500	<500	500	530 ^a
Potassium	930	730	720	690	730
Selenium (EP toxic)	ND	ND	ND	<500	<500
Silicon	ND	ND	ND	2,200	2,100
Sodium	2,400	2,100	2,100	1,900	2,000
Silver (EP toxic)	ND	ND	ND	<500	<500
Strontium	<300	<300	<300	90	100
Sulfate	11,000	8,900	12,000	8,900	10,400
Thallium	ND	ND	ND	7	<5
Uranium	0.8	5	0.5	3	0.7
Zinc	72	7 ^a	8	<5	5 ^a
Ammonia	<50	54 ^a	<50	63	<50
Bis-(2-ethylhexyl) phthalate	510	<10	<10	<10	<10

Table 2. UO₃/U Plant Wastewater Chemical Data Summary for the 216-U-14 Ditch (WHC 1990b). (sheet 2 of 2)

Chemical	UO ₃ /U Plant Wastewater Chemistry (ppb)				
	[$\bar{X}$]	[$\bar{X}$]	[$\bar{X}$]	[$\bar{X}$]	[$\bar{X}$]
	1985	1986	1987	1989	1990
1-Butanol	ND	ND	ND	<10,000	<10,000
Dichloromethane	<10	<10	<10	<5	<5
Alkalinity (method B)	ND	ND	ND	54,000	58,000
Alpha activity (pCi/L)	0.4	120	0.7	5	0.7 ^a
Beta activity (pCi/L)	1.4	26	6	2	2.1 ^a
Conductivity (μ S)	140	100	160	140	130
Ignitability ($^{\circ}$ F)	ND	ND	ND	210	200
pH	8.2	6.6	5.1	6.3	7.3
Reactivity cyanide (mg/kg)	ND	ND	ND	<100	<100
Reactivity sulfide (mg/kg)	ND	ND	ND	<100	<100
Total dissolved solids	ND	ND	ND	66,000	71,000
Temperature ($^{\circ}$ C)	23	34	18	16	11
Total organic carbon	14,000	1,600 ^a	1,300	<1,200	1,000 ^a
Total carbon	ND	ND	ND	15,000	15,000
Total organic halides (as chloride)	<6	<40 ^a	30	11	3
Cobalt-60 (pCi/L)	ND	ND	ND	<0.1	1.2
Plutonium-239/240 (pCi/L)	ND	ND	ND	ND	0.0035 ^a
Uranium-234 (pCi/L)	ND	ND	ND	1.6	0.3
Uranium-235 (pCi/L)	ND	ND	ND	0.2	0.012 ^a
Uranium-238 (pCi/L)	ND	ND	ND	1	0.3
Total uranium from unplanned releases	August 1986	May 1992	October 1992	March 1993	--
	100 lb	26.4 lb	16 lb	5 lb	--
Total release of nitric acid	225,000 lb	--	--	--	--

^aIndicates a less than (<) value was used in calculating the average.

EP = Extraction procedure.

lb = Pounds.

ND = No data.

ppb = Parts per billion.

[$\bar{X}$] = Mean concentration.

Table 3. 216-U-14 Ditch Effluent Discharge and Radiochemistry.

Year	Volume (L)	Alpha (Ci)	Beta (Ci)	H-3 (Ci)	⁹⁰ Sr (Ci)	¹³⁷ Cs (Ci)	U	²³⁹ Pu	²⁴¹ Am (Ci)	¹⁰⁶ Ru (Ci)	⁶⁰ Co (Ci)	¹⁴⁴ Ce (Ci)	¹⁵⁵ Eu (Ci)
1944-1968	1.1 x 10 ¹¹	--	720	--	22	15	1,400 kg	8,000 g	--	310	--	--	--
1969	2.9 x 10 ⁹	--	3	--	--	--	24 kg	<0.14 g	--	--	--	--	--
1970	1.7 x 10 ⁹	--	1.8	--	--	--	9.6 kg	<0.12 g	--	--	--	--	--
1971	1.8 x 10 ⁹	--	3.1	--	--	--	13 kg	<0.014 g	--	--	--	--	--
1972	1.5 x 10 ⁹	--	1.7	--	--	--	6.5 kg	<0.024 g	--	--	--	--	--
1973	1.2 x 10 ⁹	--	<0.08	--	--	--	<3.4 kg	<0.019 g	--	--	--	--	--
1974	5.0 x 10 ⁹	--	<0.18	--	--	--	<40 kg	<0.24 g	--	--	--	--	--
1975	4.6 x 10 ⁹	--	<0.36	--	--	--	<36 kg	<0.24 g	--	--	--	--	--
1976	5.6 x 10 ⁹	--	<0.14	<0.14	--	--	<46 kg	<0.18 g	--	--	--	--	--
1977	5.2 x 10 ⁹	--	<0.26	<0.41	--	--	<44 kg	<0.43 g	--	--	--	--	--
1978	5.3 x 10 ⁹	--	<0.21	<0.61	0.014	0.011	<47 kg	<0.53 g	0.00006	<0.012	<0.007	<0.0008	5.8
1979	4.0 x 10 ⁹	--	<0.47	<1.8	0.022	0.16	<3,200 kg	<0.28 g	0.000008	0.0033	0.0055	--	--
1980	3.1 x 10 ⁹	--	<3.8	<0.23	0.05	<1.7	<400 kg	<0.69 g	<0.0014	--	--	0.0066	--
1981	1.6 x 10 ⁹	--	<0.7	<0.02	<0.04	0.11	--	<0.27 g	<0.0003	--	--	--	--
1982	5.3 x 10 ⁸	<0.0003	<0.003	<0.01	<0.00006	<0.0007	<0.27 kg	--	--	--	--	--	--
1983	3.5 x 10 ⁸	<0.000088	<0.0004	<0.01	--	<0.0007	--	--	--	--	--	--	--
1984	8.4 x 10 ⁸	<0.00004	<0.0006	--	--	--	--	--	--	--	--	--	--
1985	4.2 x 10 ⁸	<0.008	<0.02	--	--	--	<0.02 Ci	<0.014 Ci	<0.25	--	--	--	--
1986	5.4 x 10 ⁸	<0.007	<0.04	--	--	--	0.013 Ci	--	--	--	--	--	--
1987	8.6 x 10 ⁸	0.0003	<0.003	--	<0.00009	<0.00013	0.002 Ci	--	--	--	--	--	--
1988	2.87 x 10 ⁸	<0.002	<0.005	<0.42	<0.0003	<0.0008	0.003 Ci	<0.004 Ci	<0.02	--	--	--	--
1989	3.84 x 10 ⁸	<0.002	<0.009	200	<0.0003	<0.0009	0.007 Ci	<0.008 Ci	<0.01	--	--	--	--
1990	2.3 x 10 ⁸	0.0007	0.002	0.2	0.004	0.02	0.0003 Ci	0.0005 Ci	0.005	--	--	--	--
1991	1.9 x 10 ⁹	0.01	0.02	2.1	0.01	--	0.03 Ci	--	--	--	--	--	--
1992	2.8 x 10 ⁸	0.012	0.045	0.0036	--	0.0045	--	--	--	--	--	--	--
1993	2.4 x 10 ⁸	0.028	0.111	--	--	--	0.00078 Ci	--	--	--	--	--	--

Figure 3. Plot of Estimated Volume Discharge to the U Pond Disposal System and Major Tributaries from 1944 to 1986.

GEOCINM102893-A

Figure 4. Plot of Discharge to the 216-U-14 Ditch from 1968 to 1993.

October 19, 1992; and in March 1993. The first release was the largest and had the greatest potential for impact. Approximately 3,013 L (796 gal) of a 50% reprocessed nitric acid solution containing uranium were discharged from the UO_2/U Plant. The total release to the environment consisted of about 102,060 kg (225,000 lb) of corrosive solution (pH less than 2) and 45 kg (100 lb) of uranium (DOE-RL 1993). An estimated 12 kg (26.4 lb) of uranium waste was released in the second spill. Respectively, 7 and 2 kg (16 and 5 lb) of uranium were released in the third and fourth spill. The pH was greater than 3.5 in the last three spills.

3.1.2 Task 3--Compile Hydrogeologic Data

Existing hydrogeologic data were gathered to provide input for development of the site conceptual model. Existing data consists of geologic logs, water table maps, well construction data, chemistry data, and literature pertaining to the regional and local hydrogeology. Documents that provided input include the following:

- *Geology and Hydrology of the Hanford Site: A Standardized Text for Use in Westinghouse Company Documents and Reports* (Delaney et al. 1991)
- *Revised Stratigraphy of the Ringold Formation, Hanford Site, South-Central, Washington* (Lindsey 1991)
- *Sedimentology and Stratigraphy of the Miocene-Pliocene Ringold Formation, Hanford Site, South-Central Washington* (Lindsey and Gaylord 1989)
- *Groundwater Impact Assessment Plan for the 216-U-14 Ditch* (Singleton 1993)
- *216-U-10 Pond and 216-Z-19 Ditch Characterization Studies* (Draft) (Last 1981)
- *Environmental Characterization of the 216-U-14 Ditch* (Landeem and Leitz 1982)
- Hanford Environmental Information System.

3.1.2.1 Previous Investigation at the 216-U-14 Ditch. Until 1980, no formal characterization study was conducted at the 216-U-14 Ditch (Landeem and Leitz 1982). However, sediments, water, aquatic vegetation, and small mammal were occasionally sampled and analyzed. Results are documented in annual environmental surveillance reports. Because this report focuses only on groundwater and vadose zone contamination, the available data pertaining to the subsurface are presented.

Before 1970 no data were available to evaluate contamination in the soil column. One to two sediment samples were collected and analyzed from the ditch each year during the 1970's. The value of these samples are of limited use because sample depths, sample methods, and locations are not well

documented. Based on typical sampling protocols used during the 1970's, samples were likely collected from less than 30 cm (12 in.) below the bottom of the ditch.

The average concentration and range of contamination from samples collected from the bottom of the ditch in the 1970's are summarized below. The average concentration of cobalt-60 is 815 pCi/g and the range is 99 to 2,500 pCi/g. The average concentration of cesium-137 is 207 pCi/g and the range is 63 to 876 pCi/g. The average concentration of strontium-90 is 625 pCi/g and the range is 0.04 to 2,310 pCi/g. The average concentration of plutonium-239 and -240 is 62 pCi/g and the range is less than detectable to 147 pCi/g. The average concentration of americium-241 is 27 pCi/g and the range is 6.9 to 50 pCi/g. Radiological results from sediment samples collected from the 216-U-14 Ditch between 1970 and 1980 are shown in Table 4. Sediment samples were not chemically analyzed during the 1970's.

Sediments collected and analyzed from the ditch were better documented after 1980. Landeen and Leitz (1982), collected sediment samples from the bottom of the ditch to a depth of 5 to 30 cm (2 to 12 in.) with a thick-walled plastic pipe. Samples were collected from U Pond to the head end of the ditch and analyzed for radionuclides.

Results from 21 sediment samples collected in the center of the ditch are as follows: cesium-137 averaged 371 pCi/g and ranged from 2.3 to 1,500 pCi/g, cobalt-60 averaged 33.5 pCi/g and ranged from 0.23 to 150 pCi/g, and total uranium averaged 30.3 ppm (9.9 pCi/g) and ranged from 1.9 to 130 ppm (0.63 to 42.9 pCi/g) (Landeen and Leitz 1982). The approximate locations of sampling points and contaminant levels for cobalt-60, cesium-137, and total uranium are shown in Figures 5, 6, and 7, respectively. These data provide an initial baseline of contamination within the ditch after dredging.

The next significant investigation of the 216-U-14 Ditch was conducted in 1987. Routson determined the impact in the subsurface from an unplanned release of 3,010 L (796 gal) of a uranium solution containing nitric acid on August 6, 1987. Conclusions are summarized below and based on sediment data from three perched water monitoring wells (299-W19-91, 299-W19-92, and 299-W19-93), two groundwater monitoring wells (299-W19-21 and 299-W19-27), and samples from the bottom of the ditch.

- Because normal amounts of calcium carbonate were found below the ditch, this suggests uranium is in an insoluble form that would preclude migration to the groundwater. Uranium appears to be adsorbing on sediment closer to the ditch bottom.
- A comparison of data from Landeen and Leitz (1982) and Routson (1987) (Table 5) indicates that the concentration of uranium in the bottom of the ditch has increased. This also suggests uranium is being adsorbed in the bottom of the ditch.
- In 1982 the concentration of uranium in the groundwater was 4 to 10 pCi/L. The source of uranium is probably U Pond.

Table 4. Radiological Data from Sediment Samples Collected from the 216-U-14 Ditch from 1970 through 1980 (Landeem and Leitz 1982).

Year	Radionuclides (pCi/g)					
	⁶⁰ Co	¹³⁷ Cs	⁹⁰ Sr	^{239,240} Pu	²⁴¹ Am	U
1970	1,800	190	ND	ND	ND	ND
1971	103	162	ND	ND	ND	ND
1972	184	63	ND	ND	ND	ND
1973	ND	ND	ND	ND	ND	ND
1974	1,200	120	ND	ND	ND	ND
1975	500	180	ND	ND	ND	ND
1976	2,500	140	ND	104	ND	ND
1977	299	64	0.04	^a	ND	ND
1978	569	128	164	30.2	6.9	ND
1979 ^b	99.4	876	29	88.3	50.4	ND
	902	142	2,310	147	22.4	ND
1980	290	65	22	12	100	ND

^aLess than detectable.^bSamples were collected from two locations: head end of ditch and inlet U Pond.

ND = No data.

Table 5. Comparison of Uranium Concentrations in Sediments from the Bottom of the 216-U-14 Ditch in 1982 and 1987.

Depth (in.)	Uranium 1987 (pCi/g) ^a	Uranium 1982 (pCi/g) ^b
0 to 6	175	48
6 to 12	<43	--
0 to 6	175	19
6 to 12	185	--
0 to 6	75	260
6 to 12	38	67

^aSample locations are approximately across from vadose wells 299-W19-91, 299-W19-92, and 299-W19-93 in the eastern end of the ditch (Routson 1987).^bApproximately the same sample location as reported in Routson (1987).

Figure 5. Cobalt-60 Concentration (pCi/g) for Sediment Samples Collected from the 216-U-14 Ditch (Landeem and Leitz 1982).

H9308009.1

Figure 6. Cesium-137 Concentrations (pci/g) for Sediment Samples collected from the 216-U-14 Ditch (Landeen and Leitz 1982).

H9308009.3

Figure 7. Uranium-238 Concentrations (pci/g) in Sediment Samples Collected from the 216-U-14 Ditch (Modified from Landeen and Leitz 1982).

H9310031.1

Ulbright (1987) also documents efforts to determine the extent and seepage of radioisotopes beneath the 216-U-14 Ditch. Sediment samples were analyzed for cobalt-60, cesium-137, potassium-40, radium-226, thorium-228, and uranium-235. Ulbright concluded that there appears to be no significant radioactivity above background in samples, except those collected from the bottom of the ditch.

3.2 PHASE II--FIELD INVESTIGATION

The Phase II investigation consisted of three major tasks. Task II.1, Groundwater Investigation, describes efforts to characterize the unconfined aquifer. Task II.2, Vadose Zone Investigation, describes efforts to characterize the vadose zone. Task II.3, Current Waste Stream Characterization, describes how the existing waste stream will be characterized.

3.2.1 Tasks II.1 and II.2--Groundwater and Vadose Zone Investigation

The groundwater and vadose zone investigation defines existing conditions in the subsurface for development of the site conceptual model. Data are provided to identify geologic and hydrogeologic units, better define groundwater flow paths and aquifer properties, characterize contamination in the groundwater and vadose zone, and estimate soil properties in the vadose zone.

Three groundwater monitoring wells, two perched water monitoring wells, and three test pits were drilled or excavated to support the groundwater and vadose investigation. Eight existing wells and three test pits also provide data to define existing conditions at the site. The location of groundwater wells, perched water monitoring wells, and test pits are shown in Figure 8.

Drilling and construction of new wells were consistent with the Generic Well Specification (Swanson 1990) and the *Environmental Investigation and Site Characterization Manual*, WHC-CM-7-7 (EII). The specification outlines basic requirements for well construction that are consistent with Chapter 172-160, *Washington Administrative Code*, "Minimum Standards for Construction and Maintenance of Wells." The EII consists of procedural directives. A brief history and construction information is provided for each well in Section 3.2.2. As-builts of monitoring wells are documented in Appendix A.

3.2.1.1 Geologic Logging. A geologic log has been generated for each well in the 216-U-14 Ditch groundwater monitoring network. Logs for existing wells were obtained from Westinghouse Hanford Company files. Each new monitoring well was evaluated for geologic description and identification of stratigraphic units according to EII 9.1, Geologic Logging. A geologic summary for each well is documented in Appendix A with the as-built of the well.

Figure 8. Location Map for Monitoring Wells and Test Pits.

3.2.1.2 Geologic Sampling. Geologic samples were collected from each new well to determine soil properties and provide input parameters for the flow and transport model. Samples were analyzed selectively for the following tests: particle size distribution, saturated hydraulic conductivity, bulk density/porosity, moisture content, and moisture retention. Samples were collected using a drive barrel or split spoon sampler. Saturated hydraulic conductivity and moisture retention were only collected with a split spoon with liners. Sampling was conducted according to EII 5.2, Soil and Sediment Sampling. Testing was conducted according to the Geotechnical Engineering Procedure Manual, WHC-EP-0367 (WHC 1990a). Data pertaining to soil property are summarized in Appendix B.

3.2.1.3 Chemical Sediment Sampling. Sediment samples were collected from each new well to assess the nature and extent of chemical contamination in the vadose zone. Samples were collected at major facies changes and analyzed for Appendix IX (40 *Code of Federal Regulations* [CFR] 264) constituent and other effluent stream analytes of interest. All samples were collected in a split spoon sampler. Sampling equipment was decontaminated according to EII 5.5, 1706 KE Laboratory Decontamination of RCRA/RCRA Sampling Equipment. Sampling was conducted according to EII 5.2, Soil and Sediment Sampling. Data pertaining to chemical sediment sampling are presented in Appendix C.

3.2.1.4 Radiological Sediment Sampling. Sediment samples were collected from each new well to assess the nature and extent of radiological contamination in the vadose zone. Samples were collected at major facies changes and at the discretion of the site geologists. Samples were analyzed for americium-241, cesium-137, plutonium-239, strontium-90, and uranium. Samples were collected using a drive barrel or split spoon sampler. Sampling was conducted according to EII 5.2, Soil and Sediment Sampling. Sampling equipment was decontaminated according to EII 5.4, Field Cleaning, and/or decontamination of equipment. Before sample collection the equipment was also surveyed for the presence of gamma and beta emitters. Data pertaining to radiological sediment sampling are presented in Appendix D.

3.2.1.5 Perched Water Sampling. Perched water encountered while drilling new wells was collected and analyzed for Appendix IX (40 CFR 264) constituents, uranium, cesium-137, gross alpha and beta, americium-241, plutonium-239, strontium-90, and other alpha emitters by gamma energy analysis. The wells were temporarily screened and samples were collected with a disposable bailer and analyzed. These wells were not purged or developed, therefore, results only provide an indicator of contamination. Of the new wells installed, perched water was only encountered in perched water monitoring wells 299-W18-250 and 299-W18-251 adjacent to the ditch.

Four perched water monitoring wells (299-W19-91, 299-W19-92, 299-W19-93, and 299-W18-251) intersect the perched water zone and produce an adequate quantity of water to sample. These wells were sampled between June and July 1993. Sampling was conducted according to EII 5.8, Groundwater Sampling. Data from perched water monitoring wells sampled are provided in Appendix E.

3.2.1.6 Groundwater Sampling. Eight groundwater monitoring wells were sampled near the ditch during June and July 1993. The wells were sampled according to EII 5.8, Groundwater Sampling, and analyzed for Appendix IX

(40 CFR 264) constituents, uranium, cesium-137, gross alpha and beta, americium-241, plutonium-239, strontium-90, and other alpha emitters by gamma energy analysis. Groundwater data are summarized in Appendix F.

3.2.1.7 Aquifer Testing. After construction, each new groundwater monitoring well was tested to estimate aquifer properties. To prevent the generation of large quantities of wastewater, slug tests rather than pump tests were used. Slug tests were performed by injecting and withdrawing a cylindrical rod of known displacement and by measuring the associated water level response. Aquifer tests were conducted according to EII 10.1, Aquifer Testing. The results and test methods are described in Appendix G.

3.2.1.8 Geophysical Logging. Wells in the 216-U-14 Ditch monitoring network were logged with spectral gamma geophysical tools. The logs were used primarily to identify zones of contamination produced by gamma-ray emitting radionuclides. New wells were logged after each casing string was set, except the starter casing. Geophysical logging was conducted in accordance with EII 10.4, Geophysical Logging. Interpretations of the spectral gamma logs are provided in Appendix H.

3.2.1.9 Well Remediation. Existing groundwater monitoring wells in the network were evaluated to determine the condition of the well in preparation for sampling. Well remediation consisted of one or more of the remedial actions: site inspection, camera survey, scrubbing, bailing, and redevelopment. Well remediation activities were conducted according to EII 8.3, Remediation of Groundwater Wells.

3.2.2 Well History and Construction Information

This section describes wells in the 216-U-14 Groundwater Monitoring Network.

3.2.2.1 Groundwater Monitoring Well 299-W18-15. Groundwater monitoring well 299-W18-15 monitors upgradient water quality on the western end of the 216-U-14 Ditch. The well was initially used as a downgradient well for the decommissioned 216-U-10 Pond; however, its current use supports 200 Areas semiannual water level measurements. The drilling of well 299-W18-15 began March 12, 1980 with a cable tool rig. The hole was advanced using the drive barrel and hard tool sample methods. Casing that produced a 28-cm (11-in.) nominal hole was driven behind the drill bit to 6 m (20 ft). A 20-cm (8-in.) inside diameter (I.D.) casing was driven to a depth of 76 m (248 ft). The well was completed April 25, 1980 within the Ringold Formation. A cement plug was placed in the well from 74 to 76 m (243 to 248 ft) and the 20-cm (8-in.) I.D. carbon steel casing was perforated from approximately 52 to 74 m (170 to 243 ft). The 20-cm (8-in.) casing was also perforated from 42 to 43 m (137 to 140 ft) and pressure grouted with a mud pump. A 6-m (20-ft) cement-grout surface seal was placed below the ground surface.

Well 299-W18-15 was remediated in June 1993 in preparation for sampling. Well maintenance activities included pump removal, camera survey, scrubbing, redevelopment, and reinstallation of the pump. Groundwater flow direction in well 299-W18-15 varies from northeast to southwest depending on the size and location of the groundwater mound in the 200 West Area.

3.2.2.2 Groundwater Monitoring Well 299-W18-33. The drilling of groundwater water monitoring well 299-W18-33 began May 11, 1993. The well was drilled with a cable tool drill rig to a depth of 70.56 m (231.5 ft). The hole was advanced using the drive barrel split spoon and hard tool sample methods. Samples collected for chemical and selected physical test were taken with the split spoon. The drive barrel was used in the vadose zone. The hard tool method was used primarily after penetrating the groundwater. A 41-cm (16-in.) carbon steel casing was driven to a depth of 5.2 m (17.1 ft). A 30-cm (12-in.) I.D. carbon steel casing was driven to a depth of 44.6 m (146.4 ft) and a 20-cm (8-in.) I.D. carbon steel casing was driven to a depth of 70.6 cm (231.5 ft). The well was completed and ready for sampling June 28, 1993. A 20-slot, 10-cm (4-in.) stainless steel screen is installed from 60.5 to 69.6 m (198.5 to 228.3 ft) with a 10-cm (4-in.) stainless steel pipe extending about 0.3 m (1 ft) above ground surface. Ten-twenty sand was placed over the screen interval. The annulus is filled with bentonite pellets, bentonite crumbles, and Portland cement. Well 299-W18-33 is an upgradient monitoring well.

3.2.2.3 Groundwater Monitoring Well 299-W19-1. Groundwater monitoring well 299-W19-1 monitors upgradient water quality on the eastern end of the 216-U-14 Ditch. The well also supports the 200 Areas semiannual water level measurements. The drilling of well 299-W19-1 began April 15, 1957 with a cable tool rig. The hole was advanced using the drive barrel and hard tool drilling sampling method. The available construction data indicate that the well was driven to a depth of 92 m (301 ft) with a 20-cm (8-in.) I.D., 23-cm (9-in.) outside diameter carbon steel casing. The well was completed May 2, 1957 within the Ringold Formation. The well (carbon steel casing) is perforated from 54 to 91 m (178 to 299 ft) at one cut per foot. No information is available that documents the plug in the bottom of the well or the annular seal. The bottom of the well is currently about 63 m (206 ft) below ground surface.

Well 299-W19-1 was remediated in June 1993 in preparation for sampling. This well was dry before remediation. Well maintenance activities included pump removal, camera survey, removal of sand from the well, scrubbing, redevelopment, and reinstallation of the pump. At the time of sampling, collection of groundwater was not possible because of heaving sands.

3.2.2.4 Groundwater Water Monitoring Well 299-W19-21. The drilling of well 299-W19-21 began May 9, 1986 with a cable tool rig. This well monitors water quality at the 216-U-14 Ditch. The hole was advanced using the drive barrel and hard tool sample methods. A 25-cm (10-in.) I.D. and a 20-cm (8-in.) I.D. carbon steel casing were driven to an undetermined depth, and 48 m (157 ft), respectively. A 15-cm (6-in.) casing was driven to a depth of 69 m (226 ft). The well was completed May 1, 1987 within the Ringold Formation. A 10-slot, 15-cm (6-in.) telescoping screen (type not documented) is installed from 61 to 69 m (201 to 226 ft) with a 15-cm (6-in.) riser pipe extending to 61 m (201 ft). A packer is installed at the top of the riser pipe. The annulus was filled with sand, bentonite slurry, and cement grout. The 20-cm (8-in.) I.D. casing remains in the well and is perforated from 6 to 24 m (20 to 80 ft) and cemented in place. The perforation was required to seal off a perched water zone that occurs about 21 to 23 m (70 to 75 ft) below ground surface.

Well 299-W19-21 was remediated in June 1993 in preparation for sampling. Well maintenance activities included pump removal, camera survey, removal of obstructions, scrubbing, redevelopment, and reinstallation of the pump.

3.2.2.5 Groundwater Water Monitoring Well 299-W19-27. The drilling of well 299-W19-27 began April 2, 1987 with a cable tool rig. This well monitors water quality at the 216-U-14 Ditch. The hole was advanced using the drive barrel and hard tool sample methods. A 25-cm (10-in.) I.D. and a 20-cm (8-in.) I.D. carbon steel casing were driven to depths of 31 to 70 m (101 and 230 ft) below ground surface, respectively. The well was completed May 1, 1987 within the Ringold Formation. A 20-slot, 13-cm (5-in.) stainless steel screen is installed from 69 to 63 m (228 to 208 ft) with riser pipe to a point above the surface. The annulus was filled with sand, bentonite, and cement grout. A 25-cm (10-in.) I.D. carbon steel casing remains in the well to a depth of 3 m (10 ft). The 25-cm (10-in.) casing is sealed between the annulus and the well.

Well 299-W19-27 was remediated in June 1993 in preparation for sampling. Well maintenance activities included pump removal, camera survey, removal of obstructions, scrubbing, redevelopment, and reinstallation of the pump.

3.2.2.6 Groundwater Monitoring Well 299-W19-32. Well 299-W19-32 monitors downgradient water quality at the 241-U Tank Farms and will be used as an upgradient well for the 216-U-14 Ditch. The drilling of well 299-W19-32 began November 8, 1989. Because of administrative delays, the well was not drilled to the depth of 68 m (223 ft) until November 12, 1990. The hole was advanced using the drive barrel and hard tool sample methods. A 25-cm (10-in.) I.D. carbon steel casing, and a 20-cm (8-in.) I.D. casing were driven to depths of 43 to 68 m (140 and 223 ft), respectively. The well was completed December 17, 1990 within the Ringold Formation. A 10-slot, 10-cm (4-in.) stainless steel screen is installed from 61 to 68 m (201 to 222 ft). Stainless steel riser pipe is installed from 61 m (201 ft) to a measuring point above the surface. The annulus was filled with sand, bentonite, and cement grout. This well was not remediated because it was recently constructed.

3.2.2.7 Groundwater Monitoring Well 299-W23-16. The drilling of well 299-W23-16 began April 19, 1993. The well was drilled with a cable tool drill rig to a depth of 72 m (237 ft). The hole was advanced using the drive barrel split spoon and hard tool sample methods. Samples collected for chemicals and selected physical tests were taken with the split spoon. The hard tool method was used primarily after penetrating the groundwater. A 41-, 30-, and 10-cm (16-, 12-, and 10-in.) I.D. carbon steel casing were driven to depths of 5.6, 45, and 47 m (18.3, 147.8, and 155 ft), respectively. A 20-cm (8-in.) casing was driven to a depth of 72 m (236 ft). The well was completed and ready for sampling June 16, 1993. A 20-slot, 10-cm (4-in.) stainless steel screen is installed from 61.6 to 71.2 m (202.1 to 233.5 ft) with a 10-cm (4-in.) stainless steel pipe extending 0.5 m (1.7 ft) above ground surface. Ten-twenty sand was placed over the screen interval. The annulus is filled with bentonite pellets, bentonite crumbles, and Portland cement. Well 299-W23-16 is a downgradient monitoring well on the western end of the ditch.

3.2.2.8 Groundwater Monitoring Well 299-W23-17. The drilling of well 299-W23-17 began April 8, 1993. The well was drilled with a cable tool drill rig to a depth of 70.9 m (232.8 ft). The hole was advanced using the drive barrel and split spoon and hard tool sample methods. Samples were collected for chemicals and selected physical tests were taken with the split spoon. The hard tool method was used primarily after penetrating the groundwater. A 41-cm (16-in.) I.D., 25-cm (10-in.) I.D., and 20-cm (8-in.) carbon steel casing were driven to depths of 6.05, 45, and 71 m (19.85, 149, and 233 ft), respectively. The well was completed and ready for sampling June 11, 1993. A 20-slot, 10-cm (4-in.) stainless steel screen is installed from 59.2 to 68.4 m (194.3 to 224.4 ft) with a 10-cm (4-in.) stainless steel pipe extending about 0.3 m (1 ft) above ground surface. Ten-twenty sand was placed over the screen interval. The annulus is filled with bentonite pellets, bentonite crumbles, and Portland cement. Well 299-W23-17 is a downgradient monitoring well on the western end of the ditch.

3.2.2.9 Perched Water Monitoring Well 299-W18-250. The drilling of perched water monitoring well 299-W18-250 began March 29, 1993. The well was drilled with a cable tool drill rig to a depth of 20.6 m (67.6 ft). The hole was advanced using the drive barrel split spoon and hard tool sample methods. Samples collected for chemicals and selected physical tests were taken with the split spoon. A 25-cm (10-in.) I.D. and 20-cm (8-in.) I.D. carbon steel casing were driven to depths of 6 and 20 m (21 and 67 ft), respectively. A 10-slot, 10-cm (4-in.) stainless steel screen is installed from 16.8 to 20 m (55.3 to 66 ft) with a 10-cm (4-in.) stainless steel pipe extending about 0.3 m (1 ft) above the surface. Ten-twenty sand was placed over the screen interval. The annulus is filled with bentonite pellets, bentonite crumbles, and Portland cement. The well was completed and ready for sampling May 6, 1993. Well 299-W18-250 monitors the perched water zone on the western half of the ditch within the fine-grained facies of the Hanford formation. This well is currently dry.

3.2.2.10 Perched Water Monitoring Well 299-W18-251. The drilling of perched water monitoring well 299-W18-251 began March 31, 1993. The well was drilled with a cable tool drill rig to a depth of 48 m (157 ft). The hole was advanced using the drive barrel split spoon and hard tool sample methods. Samples collected for chemicals and selected physical tests were taken with the split spoon. A 25-cm (10-in.) I.D. and 20-cm (8-in.) I.D. carbon steel casing were driven to depths of 6 and 46 m (20 and 151 ft), respectively. The well was then backfilled to the bottom of the water-producing zone. A 10-slot, 10-cm (4-in.) stainless steel screen is installed from 26 to 32 m (85.5 to 106.1 ft) with a 10-cm (4-in.) stainless steel pipe extending about 0.3 m (1 ft) above the surface. Twenty-forty sand is placed within the screen interval. The annulus was filled with bentonite and cement grout. This well was developed to only 15 nephelometric turbidity units because of the possibility of purging the well dry. The well was completed and ready for sampling June 17, 1993. Well 299-W18-251 monitors the perched water zone on the downslope side of the ditch within the fine-grained facies of the Hanford formation.

3.2.2.11 Perched Water Monitoring Well 299-W19-91. Well 299-W19-91 was drilled March 11, 1987 with a cable tool rig to determine the extent of contamination in the subsurface from an unplanned release of the uranyl nitrate hexahydrate. The hole was advanced using the drive barrel and hard

tool sample methods. A 28-cm (11-in.) nominal carbon steel casing, and a 23-cm (9-in.) nominal casing were driven to depths of 32 and 46 m (105 and 150 ft), respectively. The well was completed April 1, 1987 within the fine-grained facies of the Hanford formation. A 10-slot, 20-cm (8-in.) telescoping stainless steel screen is installed from 33 to 36 m (109 to 119 ft) with a 20-cm (8-in.) stainless steel blank from 30 to 33 m (99 to 109 ft). A 15-cm (6-in.) packer was installed at the top of the blank at approximately 30 m (99 ft). The annulus was filled with sand, bentonite, and cement grout with the 20-cm (8-in.) I.D. carbon steel casing remaining in the well.

Well 299-W19-91 was remediated June 1993 in preparation for sampling and analysis. Well maintenance activities included camera survey, scrubbing, and redevelopment. This well does not contain a pump.

3.2.2.12 Perched Water Monitoring Well 299-W19-92. Well 299-W19-92 was drilled March 11, 1987 with a cable tool rig to determine the extent of contamination in the subsurface from an unplanned release of the uranyl nitrate hexahydrate. The hole was advanced using the drive barrel and hard tool sample methods. A 28-cm (11-in.) nominal carbon steel casing, and a 23-cm (9-in.) nominal casing were driven to depths of 34 and 46 m (111 and 150 ft), respectively. The well was completed April 1, 1987 within the finer-grained facies of the Hanford formation. A 10-slot, 20-cm (8-in.) telescoping stainless steel screen is installed from 34 to 37 m (113 to 123 ft) with a 20-cm (8-in.) stainless steel blank from 31 to 34 m (101 to 113 ft). A 15-cm (6-in.) packer was installed at the top of the blank at approximately 31 m (101 ft). The annulus was filled with sand, bentonite, and cement grout with the 20-cm (8-in.) I.D. carbon steel casing remaining in the well. The cement annular seal is not well documented.

Well 299-W19-92 was remediated June 1993 for sampling and analysis. Well maintenance activities included camera survey, scrubbing, and redevelopment. This well does not contain a pump.

3.2.2.12.1 Perched Water Monitoring Well 299-W19-93. Well 299-W19-93 was drilled April 2, 1987 with a cable tool drill rig to determine the extent of contamination in the subsurface from an unplanned release of the uranyl nitrate hexahydrate. The hole was advanced using the drive barrel and hard tool sample methods. A 28-cm (11-in.) nominal carbon steel casing, and a 23-cm (9-in.) nominal casing were driven to depths of 26 and 36 m (85 and 120 ft), respectively. The well was completed April 20, 1987 within the finer-grained facies of the Hanford formation. A 10-slot, 20-cm (8-in.) telescoping stainless steel screen is installed from 32 to 35 m (105 to 115 ft) with a 20-cm (8-in.) stainless steel blank from 29 to 32 m (95 to 105 ft). A 15-cm (6-in.) packer was installed at the top of the blank at approximately 29 m (95 ft). The annulus was filled with sand, bentonite, and cement grout with the 20-cm (8-in.) I.D. carbon steel casing remaining in the well.

Well 299-W19-93 was remediated June 1993 in preparation for sampling and analysis. Well maintenance activities included camera survey, scrubbing, and redevelopment. This well does not contain a pump.

3.2.2.12.2 Perched Water Monitoring Well 299-W19-22. Well 299-W19-22 was drilled May 21, 1986 with a cable tool drill rig to determine the extent of contamination in the subsurface from an unplanned release of the uranyl nitrate hexahydrate. The hole was advanced using the drive barrel and hard tool sample methods. A 25-cm (10-in.) I.D., carbon steel casing and 23-cm (9-in.) nominal casing were driven to depths of 26 and 43 m (85 and 142 ft), respectively. The well was completed April 20, 1987 within the Plio-Pleistocene unit/"early" Palouse soil. A 10-slot, 13-cm (5-in.) stainless steel screen is installed from 40 to 41 m (130 to 135 ft) with 13-cm (5-in.) carbon steel from 41 m (135 ft) to a measuring point above the surface. The annulus was filled with sand, bentonite, and cement grout with the 20-cm (8-in.) I.D. carbon steel casing remaining in the well at approximately 30 m (100 ft). Cement grout is between the 13- and 20-cm (5- and 8-in.) casing as well as on the outside of the 20-cm (8-in.) casing. This well is currently dry.

3.2.3 Test Pits

Three test pits (216-U-14-ETP-1, -ETP-2, -ETP-3) were excavated and sampled to determine the type and extent of radiological and chemical contamination beneath the eastern end of the 216-U-14 Ditch on June 26, 1993. Radiological data are also available from three test pits excavated during March 1992 (Singleton 1993) on the western end of the ditch. Test pits 216-U-14-ETP-1, -ETP-2, and -ETP-3 were excavated to an approximate depth of 2 to 3 m (8 to 10 ft) using a Caterpillar 245B™ backhoe with a 3.2-m (3.5-yd) bucket. Approximately 0.6 m (2 ft) of standing water was present in the 216-U-14 Ditch during excavation. During test pit activities, approximately 568 to 757 L/min (150 to 200 gal/min) of water was being discharged to the 216-U-14 Ditch. The source is cooling from the UO₃ condenser units. Because of the large amount of water in the ditch, sampling protocols previously established for the project were modified. Instead of obtaining samples from several thin units, samples were collected from three or four large units. Lithologic identification and descriptions were performed on all material removed from a test pit. Because of the potential for radiological contamination, only gross descriptions of sediment horizons were made. Sampling was conducted according to EII 5.2, Soil and Sediment Sampling. Decontamination of sampling equipment was conducted according to EII 5.4, Field Decontamination of Drilling, Well Development and Sampling Equipment, and EII 5.5, Decontamination of KE Laboratory Decontamination of RCRA/CERCLA Sampling and Equipment. The location of test pits are shown in Figure 8.

The first test pit excavated was 216-U-14-ETP-3. This pit is located at the southern end of the ditch and was excavated to a depth of 3 m (10 ft). Seven samples were collected for radiological analysis. Three samples were collected for chemical analysis.

The second test pit excavated was 216-U-14-ETP-2. This pit is located near the northern end of the ditch and was excavated to a depth of 2.4 m (8 ft). Five samples were collected for radiological analysis. Two samples were collected for chemical analysis.

The third test pit excavated was 216-U-14-ETP-1. This pit is located at the northern most end of the ditch, near the UO_3 Plant discharge pipe and was excavated to a depth of 2.1 m (7 ft). Five samples were collected for radiological analysis. Two samples were collected for chemical analysis. Radiological and chemical data from all 216-U-14 test pits are presented in Appendix I.

4.0 CONCEPTUAL MODEL OF HYDROLOGIC RESPONSE AND CONTAMINANT MIGRATION

4.1 HYDROGEOLOGIC FRAMEWORK

4.1.1 Regional and Hanford Site Geology

The Pasco Basin and Hanford Site are underlain by pre-Miocene sedimentary and crystalline rocks (Campbell 1989), Miocene-aged (17.5 to 6 Ma) basalts of the Columbia River Basalt Group (Myers et al. 1979; Reidel and Fecht 1981; DOE 1988; Tolan et al. 1989; Reidel et al. 1989, 1992), interbedded sediments of the Ellensburg Formation (Reidel and Fecht 1981; DOE 1988; Smith 1988), and a Late Miocene to Holocene-aged (less than 8.5 Ma to present) suprabasalt sediment sequence (Myers et al. 1979; Tallman et al. 1981; DOE 1988; Smith et al. 1989; Lindsey 1991; Reidel et al. 1992).

4.1.1.2 Columbia River Basalt Group. The Columbia River Basalt Group (CRBG) is an assemblage of tholeiitic, continental flood basalts that cover more than 63,000 mi² (163,157 km²) in Washington, Oregon, and Idaho and have an estimated volume of about 40,800 mi³ (174,356 km³) (DOE 1988; Reidel and Hooper 1989; Tolan et al. 1989). The CRBG is divided into five formations from oldest to youngest: Imnaha Basalt, Picture Gorge Basalt, Grande Ronde Basalt, Wanapum Basalt, and Saddle Mountains Basalt (DOE 1988; Tolan et al. 1989) (Figure 9). The Saddle Mountains Basalt (the uppermost basalt at the Hanford Site) is divided into (from oldest to youngest) the Umatilla, Wilbur Creek, Asotin, Esquatzel, Pomona, Elephant Mountain, and Ice Harbor Members (Reidel and Fecht 1981).

4.1.1.3 Ellensburg Formation. The Ellensburg Formation consists of volcaniclastic and siliclastic deposits that occur between CRBG basalt flows (DOE 1988; Smith 1988). At the Hanford Site, the three uppermost units of the Ellensburg Formation are, from oldest to youngest, the Selah interbed, the Rattlesnake Ridge interbed, and the Levy interbed. The Ellensburg Formation at the Hanford Site is discussed in Reidel and Fecht (1981). Smith (1988) and Smith et al. (1989) discuss the Ellensburg Formation and correlative units throughout the region.

4.1.1.4 Suprabasalt Sediments. Various aspects of suprabasalt sediment geology are found in Myers et al. (1979), Tallman et al. (1979, 1981), PSPL (1982), Bjornstad (1984), Fecht et al. (1987), DOE (1988), Baker et al. (1991), Smith et al. (1989), Delaney et al. (1991), Lindsey (1991, 1992), Lindsey et al. (1991, 1992) and Reidel et al. (1992). Delaney et al. (1991), Lindsey (1991), and Reidel et al. (1992) provide the most recent synopsis of suprabasalt sediment geology for the Hanford Site. The following discussion summarizes these reports.

The suprabasalt sedimentary sequence (Figure 10) is up to 229 m (750 ft) thick at the Hanford Site and dominated by the laterally extensive late Miocene to Pliocene Ringold Formation and the Pleistocene Hanford formation. Laterally discontinuous units, referred to as the Plio-Pleistocene unit, early

Figure 9. Generalized Stratigraphy of the Pasco Basin and Surrounding Area.

Period		Epoch	Group	Formation	Isotopic Age Dates Years x 10 ⁶	Member (Formal and Informal)	Sediment Stratigraphy or Basalt Flows																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
QUATERNARY							Loess	Sand Dunes	Alluvium and Alluvial Fans	Landslides	Talus	Colluvium																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
TERTIARY	Pliocene	Holocene				Surficial Units																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

*The Grande Ronde Basalt consists of at least 120 major basalt flows. Only a few flows have been named. N₂, R₂, N₁ and R₁ are magnetostratigraphic units.

H9102029.6b

Figure 10. Generalized Stratigraphy of the Suprabasalt Sediments in the Pasco Basin.

H9307034.3

"Palouse" soil, and pre-Missoula gravels separate the Hanford formation and Ringold Formation locally. Holocene-aged alluvial and eolian deposits cap the suprabasalt sequence.

4.1.1.5 Ringold Formation. The Ringold Formation is up to 183 m (600 ft) thick beneath the Hanford Site. It consists of semi-indurated clay, silt, fine- to coarse-grained sand, and pebble to cobble gravel. Ringold deposits are grouped into five facies (fluvial gravel, fluvial sand, overbank-paleosol, lacustrine, basaltic alluvium) that are defined based on lithology, petrology, stratification, and pedogenic alteration. The facies are summarized as follows:

1. Fluvial gravel--Consists of clast and lesser matrix-supported pebble to cobble gravel with a fine- to medium-grained sand matrix. Grain size distributions tend to be bimodal with granules and coarse-grained sand being rare. Crude to well-defined stratification and low-angle, lenticular bedding geometries generally dominate.
2. Fluvial sand--Fine- to coarse-grained quartzo-feldspathic sands displaying well-defined stratification dominate. Fining upwards packages less than one to several meters thick are common.
3. Overbank-Paleosol--Laminated to massive silty sand, silt, and clay displaying evidence of pedogenic alteration dominates.
4. Lacustrine--Characterized by well stratified clay with interbedded silt and silty sand.
5. Basaltic alluvium--Massive to crudely stratified, weathered to unweathered, basaltic, pebble to cobble gravel, commonly with a mud-rich matrix dominates.

The distribution of facies within the Ringold Formation forms the basis for stratigraphic subdivision (Lindsey 1991). The lower half of the Ringold Formation is characterized by fluvial gravel and sand dominated intervals, designated units A, B, C, D, and E (see Figure 10) that interfinger with fine-grained deposits typical of the overbank-paleosol and lacustrine facies. The lowest of these fine-grained intervals is designated the lower mud unit (see Figure 10). Interstratified deposits of the fluvial sand, overbank-paleosol facies, and strata dominated by the lacustrine facies form the upper half of the Ringold Formation (commonly referred to as the upper unit). The 200 Areas are underlain by units A and E, the lower mud unit, and remnants of the upper unit.

4.1.1.6 Plio-Pleistocene, Early Palouse, Pre-Missoula Intervals. Several localized, informal units separate the Ringold Formation from the overlying Hanford formation. They are the Plio-Pleistocene and early Palouse interval and the pre-Missoula gravels (see Figure 10) (Myers et al. 1979; Tallman et al. 1979, 1981; DOE 1988; Reidel et al. 1992). The Plio-Pleistocene and early Palouse interval only underlie the 200 West Area and consists of loess, well-bedded, silty lake deposits, pedogenic calcium carbonate, and basaltic

sands and gravels. Uncemented, mixed lithology gravels with a quartzo-feldspathic matrix dominate the pre-Missoula gravels, which does not occur beneath the 200 Areas.

4.1.1.7 Hanford Formation. The Hanford formation (see Figure 10) consists of uncemented gravel, sand, and silt deposited by Pleistocene cataclysmic flood waters (Fecht et al. 1987; DOE 1988; Baker et al. 1991). The Hanford formation is thickest near the 200 West and 200 East Areas where it can be up to 107 m (350 ft) thick. The Hanford formation is divided into three facies (gravel-, sand-, and silt-dominated), all of which occur beneath the 200 Areas. These facies are gradational with each other and summarized as follows:

1. Gravel-dominated facies--Generally consists of cross-stratified, coarse-grained sands and granule to boulder gravels that contain minor intercalated silt-rich horizons. The gravels generally are uncemented and matrix-poor, displaying an open-framework texture.
2. Sand-dominated facies--Well stratified, fine- to coarse-grained sand and granule gravel dominate. Silt content is variable, but where it is low an open-framework texture is common. Small pebbles and rip-up clasts in addition to lenticular, pebble-gravel interbeds and silty interbeds may be present.
3. Silt-dominated facies--Interbedded silt and fine- to coarse-grained sand forming well stratified normally graded rhythmites are characteristic. This facies may also be referred to as slackwater deposits, Touchet Beds, and graded rhythmites.

In addition to the three facies, clastic dikes are commonly found in the Hanford formation as well as locally in other sedimentary units in the Pasco Basin (Black 1979). These clastic dikes are structures that generally cross-cut bedding, although they do locally parallel bedding. The dikes consist of thin, alternating, vertical to subvertical layers of silt, sand, and granules. A feature known as patterned ground can be observed where the dikes intersect the ground surface.

4.1.1.8 Holocene Deposits. Holocene surficial deposits consist of silt, sand, and gravel that form a thin (4.9 m [less than 16 ft]) veneer across the Hanford Site. These sediments were deposited by eolian and alluvial processes.

4.1.1.9 Structural Geology. The Hanford Site is located in the eastern Yakima Fold Belt near its junction with the Palouse subprovince (DOE 1988). The Yakima Fold Belt consists of a series of segmented, narrow, asymmetric, and generally east-west trending anticlines that separate broad, low-amplitude structural basins (Reidel 1984; Reidel et al. 1989). The Pasco Basin (where the Hanford Site is situated) is one of the largest structural basins within the Yakima Fold Belt. The Pasco Basin is bounded on the north by the Saddle Mountains anticline, on the west by the Hog Ranch-Naneum Ridge anticline, and on the south by the Rattlesnake Mountain anticline. The Palouse slope, a west-dipping monocline, bounds the Pasco Basin on the east. The Pasco Basin is divided into the Wahluke and Cold Creek synclines by the Gable Mountain anticline, the easternmost extension of the Umtanum Ridge anticline.

4.1.2 216-U-14 Ditch Geology

Suprabasalt sediments underlying the 216-U-14 Ditch area (Figure 11) include, from the surface downwards, Holocene eolian sands, the Hanford formation, the early Palouse/Plio-Pleistocene interval, and the Ringold Formation. These strata overlie basalts of the CRBG. The geology of this area is outlined in the following text. A cross section location map is shown in Figure 12.

4.1.2.1 Holocene Deposits. Holocene-aged deposits form the uppermost unit in the area. These deposits consist of eolian silt and sand that forms a thin (less than 3 m [less than 10 ft]), discontinuous sheet across the site. Throughout much of the area around the ditch, these deposits have been removed by human activities associated with Hanford Site operations. Where found, these deposits are characterized by a mix of silt and fine- to medium-grained sand that generally lacks evidence of significant stratification, such as displayed by sandy deposits that form much of the Hanford formation.

A second Holocene-age deposit consisting of two distinct horizons has also developed along the bottom of the ditch. The first horizon consists of brown silt. This consists of wind-blown silt and clay that settled out through standing water in the ditch. The second layer is black, fine grained, organic rich (e.g., decaying vegetation), and contains coal ash. These two horizons are generally less than 1.2 m (less than 4 ft) thick and do not extend beyond the ditch boundary.

4.1.2.2 Hanford Formation. The uppermost, laterally, continuous unit in the area is the Hanford formation. The Hanford formation consists of an upper, gravelly interval 5 to 28 m (18 to 91 ft) thick and a lower, finer interval 15 to 45 m (50 to 148 ft) thick. The contact between these two intervals is not a flat surface and in the area south of the ditch these intervals may interfinger.

4.1.2.2.1 Upper Coarse Unit. Stratified, open-framework, and largely uncemented granule to cobble gravel deposits typical of the gravel-dominated facies are interpreted to dominate the upper interval. This is based on regional facies trends within the Hanford formation and on the interpretation of borehole sample from this interval in the area of the 216-U-14 Ditch. Intercalated deposits typical of the sand-dominated facies are also present in the upper interval throughout the area (Figures 13, 14, and 15) with the greatest amount of interbedding occurring east of the ditch. These sands form sequences up to 9 m (30 ft) thick and also occur as thin interbeds within the gravels a few inches to feet thick. Intervals recorded as gravelly sand in borehole logs from the area probably consist of the later type of strata.

4.1.2.2.2 Lower Fine Unit. Borehole samples in the 216-U-14 Ditch area indicate the lower fine unit consists of well-bedded, interstratified strata typical of both the sand-dominated and silt-dominated facies (Figures 13, 14, and 15). In addition, localized gravelly horizons are found in this interval at boreholes 299-W23-16, 299-W23-17, 299-W18-15, 299-W18-33, and 299-W23-4. Sand-dominated facies typically are well stratified, contain scour features, and are uncemented. Silt-rich horizons within the lower interval may be well compacted and partially cemented by calcium carbonate.

Figure 11. Generalized Stratigraphic Column for the 216-U-14 Ditch.

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Figure 12. Cross Section Location Map.

Figure 13. Northeast to Southwest Geologic Cross Section A-A'.

KAL\111693-D

Paleosols Ash Basalt Cemented	Hc - Hanford formation, Coarse Unit Hf - Hanford formation, Fine Unit EP/PP - Early Palouse/Plio-Pleistocene Interval U - Upper Unit, Ringold Formation E - Unit E, Ringold formation LM - Lower Mud Unit, Ringold foirmation A - Unit A, Ringold Formation

200 ft
0 ft V.E. = 2x

Figure 14. Northwest to Southeast Geologic Cross Section B-B' (see Figure 13 for explanation).

KAL\111693-C

Figure 15. Northwest to Southeast Geologic Cross Section C-C' (see Figure 13 for explanation).

KAL\111693-B

The elevation of contact between the upper interval and lower interval varies across the area (Figure 16). Highs on the surface are found to the north, northeast, south, and southeast. The surface is low immediately beneath the central part of the Ditch, between boreholes 299-W19-93 and 299-W18-250, as well as to the east and west. The shape of this surface--east, north, and west of the Ditch--resulted in large part from erosion that occurred when the initial deposits of the overlying gravel-rich upper interval were formed. The high south and southeast of the ditch is the result of thinning of the overlying coarse deposits as they pinchout to the south.

Beneath much of the area the lower interval can be subdivided into two sequences: an upper sandy sequence and a lower silty sequence. These two sequences are easily distinguished on many of the boreholes used in the construction of the cross-sections. However, this trend is not shown in all the boreholes and in the case of two holes (299-W18-19 and 299-W18-31) appears to be reversed. The apparent lack of lateral continuity within the interbedded deposits of the lower interval is consistent with outcrop observations of analogous strata where lateral pinchouts and erosional truncations are common. Therefore, further subdivisions of the lower interval are not made.

4.1.2.2 Early Palouse/Plio-Pleistocene Interval. Beneath the 216-U-14 Ditch area, the early Palouse/Plio-Pleistocene interval consists of two sequences. The first interval consists of thinly laminated, silt-rich deposits interpreted to be lacustrine in origin. The second interval consists of locally derived basaltic detritus, silt-rich eolian deposits, deposits reworked from the Ringold Formation, and calcium carbonate-rich paleosols. The interval ranges from 2 to 15 m (7 to 48 ft) thick beneath the area.

The laminated, silt-rich sequence generally corresponds to the interval typically referred to as the early Palouse soil (DOE 1988; Last et al. 1989; Lindsey et al. 1991; Connelly et al. 1992a and 1992b). The early Palouse soil has been described as a massive silt displaying loess-like features. However, close examination of samples from recently drilled wells at the 216-U-14 Ditch, Basalt Waste Isolation Project (BWIP) cores, and from other drilling projects in the Z Plant area and S-10 Ditch indicate that strata typically thought to be early Palouse loess are not loess. These samples show well-developed stratification typical of either Hanford formation interbedded silts and sands or of post-Ringold pre-Hanford lacustrine deposits.

Calcium carbonate-rich strata is the defining characteristic of the second sequence. In the study area calcium carbonate consists of thin (less than 1-in thick) horizons, (caliche) coated clasts, and nodules. Examination of borehole geologic logs, split-tube samples, and BWIP cores suggest that the well-cemented carbonate horizons may be discontinuous and highly fractured.

The top of the early Palouse/Plio-Pleistocene interval is irregular, although it generally slopes to the south and east beneath the area (Figure 17). The west end of the 216-U-14 Ditch overlies a flat to gently south-dipping part of the surface. Near the bend in the ditch a southwards trending low is found on the top of the interval. A prominent high is developed east of this low. The shape of this surface is interpreted to

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Figure 16. Structure Contour Map of the Top of the Lower Fine Interval of the Hanford Formation.

GEOSCI\121793-B

Figure 17. Structure Contour Map of the Top of the Early Palouse/Plio-Pleistocene Interval.

GEOSCI\121793-C

reflect both the precataclysmic flood topography upon which the subaerial deposits of the early Palouse/Plio-Pleistocene interval formed as well as incision during the early stages of cataclysmic flooding in the area.

4.1.2.3 Clastic Dikes. Recent drilling at the 216-U-14 Ditch revealed that the lower interval of the Hanford formation and the early Palouse/Plio-Pleistocene are commonly cross-cut by clastic dikes. Clastic dikes, described in detail by Black (1979), primarily consist of vertical to subvertical layers of silt and sand that cut across bedding planes.

4.1.2.4 Ringold Formation. Ringold Formation strata in the study area consist largely of partially cemented fluvial gravels and minor sands and silts of unit E. Localized interbedded fluvial sands and paleosols of the Ringold Formation upper unit are found in the eastern part of the area (see Figures 13, 14, 15, and 18). Unit E is 155 m (510 ft) above sea level and about 88 m (288 ft) thick.

Silt-rich paleosols and lacustrine deposits of the lower mud unit underlie Ringold unit E throughout the southern 200 West Area. The top of the lower mud unit ranges from approximately 91.5 m (300 ft) above sea level in the eastern part of the area to 76 m (250 ft) in the west. Localized highs (near W18-22) and lows (near W19-10) are present on this surface.

Fluvial gravels similar to those that form unit E comprise the lowest Ringold Formation unit, unit A. Intercalated fluvial sand and mud-rich zones can be found in unit A. Unit A is present beneath the entire site and directly overlies basalt of the Elephant Mountain Member.

4.1.3 Regional and Hanford Site Hydrology

4.1.3.1 Surface Hydrology. Primary surface-water features near the Hanford Site are the Columbia and Yakima Rivers. The free-flowing stretch of the Columbia River adjacent to the Hanford Site is known as the Hanford Reach. It extends from Priest Rapids Dam to the headwaters of Lake Wallula (the reservoir behind McNary Dam). Flow along the Hanford Reach is controlled by Priest Rapids Dam. Approximately one-third of the Hanford Site is drained by the Yakima River system. Cold Creek and its tributary, Dry Creek, are ephemeral streams within the Yakima River drainage system. Both streams drain areas along the western part of the Hanford Site and cross the southwestern part of the Hanford Site toward the Yakima River. West Lake, about 10 acres in size and less than 1 m (3 ft) deep, is the only natural lake within the Hanford Site (DOE 1988). Wastewater ponds, cribs, and ditches associated with nuclear fuel reprocessing and waste disposal activities are also present on the Hanford Site.

4.1.3.2 Saturated Zone. The Pasco Basin and Hanford Site are underlain by a multiaquifer system that consists of four hydrogeologic units that correspond with the upper three formations of the CRBG and the suprabasalt sediments (DOE 1988; Delaney et al. 1991). The basalt aquifers are generally confined and found within sedimentary interbeds of the Ellensburg Formation and interflow zones that occur between basalt flows. Recharge to the shallow basalt aquifers results from infiltration of precipitation and runoff along

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Figure 18. Structure Contour Map of the Top of the Ringold Formation.

GEOSCI\121793-D

the margins of the Pasco Basin. Recharge of the deep basalt aquifers is inferred to result from interbasin groundwater movement originating northeast and northwest of the Pasco Basin in areas where the Wanapum and Grande Ronde Basalts crop out extensively (DOE 1988). Groundwater discharge from shallow basalt aquifers is probably to the overlying aquifers and the Columbia River. Discharge areas for the deeper aquifers are uncertain, but flow is inferred to be generally southeastward with discharge speculated to be south of the Hanford Site (DOE 1988). Erosional "windows" through dense basalt flow interiors at the top of the basalt aquifer system allow direct interconnection between the unconfined and uppermost confined aquifers (Graham et al. 1984).

The suprabasalt sediment aquifer is contained within the Hanford formation and the Ringold Formation. The top of this aquifer lies at depths ranging from less than 0.3 m (1 ft) near West Lake and the Columbia and Yakima Rivers, to greater than 107 m (350 ft) near the center of the Hanford Site. The base of the uppermost aquifer system is defined as the surface of the uppermost basalt flow. The water table beneath the western portion of the Hanford Site is generally within gravels of Ringold unit E. In the northern and eastern portions of the Hanford Site, the water table is generally within the Hanford formation. Overbank and lacustrine deposits in the Ringold Formation locally form confining layers for the underlying Ringold fluvial gravel and sand. The uppermost aquifer system is bounded laterally by anticlinal basalt ridges and is approximately 152 m (500 ft) thick near the center of the basin. Hydraulic conductivities for the Hanford formation (0.71 to 3.53 cm/s [2,000 to 10,000 ft/d]) are much greater than those of the gravel facies of the Ringold formation (0.22 to 1.08 cm/s [610 to 3,050 ft/d]).

Natural recharge to the uppermost aquifer system consists of rainfall and runoff from the hills bordering the Hanford Site, water infiltrating from small ephemeral streams, and river water along influent reaches of the Yakima and Columbia Rivers. The mean annual precipitation at the Hanford Meteorology Station is approximately 161 mm (6.3 in.). Evapotranspiration ranges from 805 to 1,450 mm (31 to 57 in.) (DOE 1988). The movement of moisture from precipitation through the unsaturated (vadose) zone varies. Gee (1987) and Routson and Johnson (1990) indicate it is nonexistent across much of the Hanford Site while Rockhold et al. (1990) suggest that downward water movement below the root zone is common in the 300 Area. For an undisturbed site west of the 200 Area, meteoric chloride mass balance methods suggest long-term net infiltration of less than 1 mm/yr (less than 0.04 in./yr) (Murphy et al. 1991). Artificial recharge occurs from the disposal of wastewater on the Hanford Site (principally in the 200 Areas), and from large irrigation projects surrounding the Hanford Site.

4.1.3.3 Unsaturated Zone. Vadose zone conditions across the Hanford Site show variations similar to those displayed by the uppermost aquifer system. Vadose zone sediments range from open framework gravel-dominated facies of the Hanford formation, to interbedded silt and sand of the silt-dominated facies, to calcium carbonate-rich deposits of the early Palouse/Plio-Pleistocene interval, to cemented gravels of the Ringold Formation. Van Genuchten curve fitting parameters for the major stratigraphic units beneath the 200 East and West Areas are summarized in Connelly et al. (1992a, Table 3-1 and 1992b, Table 3-1), respectively. Parameters from this table are highly variable and an accurate assessment is dependant on site-specific data.

4.1.4 216-U-14 Ditch Hydrogeology

4.1.4.1 Surface Water Sources. No natural surface-water bodies exist in the immediate vicinity of the 216-U-14 Ditch. The nearest natural surface-water body is located 4.8 km (3 mi) southwest of the ditch in the Cold Creek drainage where runoff from ephemeral waters ponds to several feet during the spring.

Wastewater ponds, cribs, and ditches associated with nuclear fuel reprocessing and related activities have been used to dispose effluent in the soil column. Near the Ditch, major sources of artificial recharge to the soil column are U-Pond, the 216-U-14 Ditch, and 216-Z-20 Ditch. Between 1944 and 1984, U-Pond received 1.62×10^{11} L (4.28×10^{10} gal) of wastewater. Since 1985, the 216-U-14 and 216-Z-20 collectively have received 4.16×10^9 L (1.09×10^9 gal) of water or about 42 and 28%, respectively of the discharge to the soil column in the 200 West Area. The remaining 30% of the discharge can predominately be attributed to 216-S-10, 216-S-26, 216-U-12, 216-U-16, 216-U-17, 216-W-LWC, and the 284-WB Powerhouse Pond. The infiltration rate beneath the ditch before 1985 is unknown. The average rate of discharge into the ditch since 1985 is approximately 605 L/minute (160 gal/minute). The current rate of discharge into the ditch is about 378 L/minute (100 gal/minute) on the eastern end of the ditch and less than 19 L/minute (5 gal/minute) on the western end.

4.1.4.2 216-U-14 Ditch Hydrogeology. Hydrostratigraphic units near the ditch are (1) Holocene deposits, (2) the upper coarse unit of the Hanford formation, (3) the lower fine unit of the Hanford formation, (4) the early Palouse/Plio-Pleistocene interval, (5) the Ringold Formation, and (6) the Elephant Mountain Basalt. Holocene deposits, the Hanford formation, the early Palouse soil/Plio-Pleistocene unit, and uppermost portion of the Ringold Formation occur within the vadose zone. The vadose zone is 60.5 to 64 m (199 to 210 ft) thick in the immediate area of the 216-U-14 Ditch and thickens to the south.

Holocene deposits in the bottom of the ditch decrease the infiltration capacity. These horizons are likely equivalent to zones that were periodically dredged from the ditch in the past and selectively absorb certain contaminants. No data are available to determine the hydrologic properties of this horizon.

The upper coarse gravel unit of the Hanford formation consists of a highly permeable facies. The upper coarse unit occurs adjacent to the ditch and immediately below holocene deposits in the bottom of the ditch. Interbedded horizons typical of the silt-dominated facies are present locally; however, the lack of perched water noted during drilling in these gravels indicates these silts are not a significant barrier to vadose transport. Calcium carbonate values in this zone are typically less than 1% and range to 3.5%; moisture ranges between 2.1 and 17.3% with the finer grained interbeds having the greater moisture percent (recent data is not available from the eastern end of the ditch). Saturated hydraulic conductivities range between 1.10×10^{-2} cm/s (31 ft/day) and 5.5×10^{-2} cm/s (156 ft/day) in well 299-W18-21 located west of the study area.

The lower fine unit of the Hanford formation consists mainly of interstratified sands and silts and contain perched water zones in the immediate area of the ditch. Perched water occurs at 20 and 30 m (64 and

99 ft) below ground surface (bgs) in wells 299-W18-250 and 299-W18-251, respectively. The saturated thickness of the two zones were 1.2 and 2.1 m (4 and 7 ft), respectively and perched water flow is to the west. As a result of the abundant lateral discontinuities in the form of lenticular beds and clastic dikes and limited discharge from the 242-S Evaporator (in comparison to UO_3 discharge), perching in the lower unit appears to be of limited lateral extent and control by interbedded material beneath the western end of the ditch. Data collected from this zone during the recent investigation indicate that the calcium carbonate is less than 1 to 2%; moisture content ranges between 3.1 to 31.5% except upgradient well 299-W18-33 where it is between 2.6 to 8.83%. Saturated hydraulic conductivities are between $1E-7$ ($2.83E-4$ ft/day) and $6.9E-5$ cm/s (0.2 ft/day).

Perched water occurs in existing wells 299-W19-91, 299-W19-92, and 299-W19-93 on the eastern end of the ditch. The top of the perched water zone has been as high as 199 m (620 ft) above mean sea level and as low as 169 m (555 ft) above sea level over the last four years. It is assumed that the saturated thickness of this zone extends past the screen interval to the top of the early Palouse soil/Plio-Pleistocene unit. Construction data from the late 1980's indicate that the perched water zone extends to well 299-W19-27. The perched water zone does not extend to the screen interval in well 299-W19-22. The abundance of clastic dikes in the early Palouse/plio-Pleistocene unit on the eastern end of the ditch may contribute to the apparent limited lateral extent of the perched water zone by providing vertical pathways through the interval.

The thickness of the early Palouse/Plio-Pleistocene ranges between 2 and 15 m (7 and 48 ft) near the ditch. Locally this unit is a major component in the subsurface controlling the accumulation of perched water because of the formation of abundant pedogenic calcium carbonate in this horizon. This appears to be the case on the eastern end of the ditch where perching is vertically extensive. Perched water was not observed on top of the early Palouse/Plio-Pleistocene on the western end of the ditch. Data collected from this zone during the recent investigation indicate that the calcium carbonate values are less than 1 to 9.6%; moisture content ranges between 5.42 to 24.8%; saturated hydraulic conductivities are between $5.5E-6$ cm/s ($2E-2$ ft/day) and $2.58E-3$ cm/s (7.3 ft/day).

The Ringold Formation comprises the lower part of the vadose zone and also contains the semiconfined and unconfined aquifer. Ringold Formation strata above the water table in the study area consists largely of the partially cemented fluvial gravels and minor sands and silts of unit E. Cemented zones and silt layers within these units may potentially cause perched conditions, although this is not documented. Data collected during the recent investigation indicates the calcium carbonate is less than 1% in this zone, the moisture content is between 3.0 and 18.3%, and the saturated hydraulic conductivity is $4.0E-3$ cm/s (11.3 ft/day).

The unconfined aquifer occurs in the partially cemented fluvial gravels of Ringold unit E at depths between 61.0 and 64.4 m bgs (200 to 209 ft). Well-indurated and silt-rich zones that generate locally confined aquifer conditions have been occasionally encountered in unit E in the northern portion of the 200 West Area. The presence of cemented zones in coreholes DH-7 (299-W19-10), DH-12 (299-W14-7), and DH-13A (299-W14-8A)

suggests similar conditions may occur in the southern half of the 200 West Area. However, it is not clear how laterally extensive they are and if locally confined conditions occur. Groundwater flow is radial and generally to the northeast, away from the groundwater mound in the area of investigation (Figure 19) and the water table is declining at a rate of about 1 ft per year. The saturated thickness of unit E beneath the southern half of the 200 West Area ranges from approximately 61 m (200 ft) in the northwest and west to 47 m (155 ft) in the east. Slug test wells 299-W23-16, 299-W23-17, and 299-W18-33 indicate that hydraulic conductivities are 0.6, 1.5, and 1.2 m/day (2, 5, and 4 ft/day).

The lower mud unit forms the base of the uppermost aquifer zone in the 200 West Area. No pathways through the lower mud unit into underlying units (such as erosional windows) are known to occur in the southern 200 West Area. Ringold unit A forms the lowest zone in the aquifer system above the basalts beneath the 200 West Area.

The Elephant Mountain Member is the bedrock beneath the site. The basalt has a low hydraulic conductivity of 0.009 m/day (0.03 ft/day). The surface of the Elephant Mountain Member dips to the south-southeast toward the axis of the Cold Creek syncline.

4.2 HYDROLOGIC RESPONSES TO EFFLUENT DISPOSAL

Hydrologic responses to discharge have been observed at the water table throughout the 200 West Area. The relationship between discharge and changes in the level of the water table can be evaluated by comparing hydrographs and plots of discharge over time. Figure 20 contains hydrographs of selected wells in the 200 West Area and plots of discharge over time that show the historical relationship between effluent discharge and the rise and fall of the water table. The plots show the rise of the water table during the 1940's, when major discharge to the sediment column first began and variations in discharge which are reflected specifically by the rise or fall in the water table in 1953, 1966, 1973, and 1985. Water table maps in Figure 21 show the influence of effluent disposal from U Pond and migration of the groundwater mound towards major sources of discharge between 1944 and 1987. Migration of the mound eastward reflects periods of decreased discharge at U Pond, and the influence of facilities discharging to the soil column after the stabilization of U Pond in 1985.

Hydrologic response to effluent discharge at the ditch are seen by the development of a vertically extensive perched water zone beneath the ditch and changes in perched water zone and water table elevation. Hydrographs from well 299-W19-93 (Figure 22) show water levels declining at a rate of 1.83 m/year (6 ft/year) between January and June 1990 when average discharge was approximately 378 to 605 L/minute (100 to 160 gal/minute). With an increase in average discharge to a maximum of 1,756 L/minute (464 gal/minute) between June 1990 and December 1991, the rise of the water table was 9.14 m (30 ft), which was followed by a period of decreased discharge and decline in water levels. The next major rise in water level elevation occurs between February and June 1993 and is associated with the final UO_3 stabilization run. The peak level of discharge was 1,363 L/minute (360 gal/minute average) in

Figure 19. Water Table Map of the 200 West Area
(June 1993).

RCRA-AR\123093-0

Figure 20. Outflow Data and Hydrograph Illustrating the Relationship Between Effluent Discharge and Change in Water Table Elevation.

E 1970

F 1973

A 1944

B 1951

G 1973

C 1951

Figure 21. Water Table Maps of the 200 West Area from 1944 to 1987.

1955

D

1965

1987

Legend

* Location of 216-U-Pond

• Monitoring wells for water level measurements

450 Contour of water level elevation (feet above mean sea level)

Estimated basalt outcrop above water table

Maps A-F from Kipp and Mudd, 1974
Map G from Evans and others, 1988

Note: To convert to metric, multiply elevation (feet) by 0.3048 to obtain elevation (meters)

0 5 Kilometers

GEOSCI\010494-B

Discharge into the Ditch.

Water Levels at the Perched Zone Beneath the Ditch.

Figure 22. Outflow and Hydrographs of the Perched Zone and Groundwater Illustrating the Relationship Between Effluent Discharge and Changes in Water Table Elevation.

Water levels at the Water Table Beneath the Ditch.

June 1993 and corresponds with a 14 m (45 ft) rise in water level. Similar changes are also seen in wells 299-W19-91 and 299-W19-92; however, the responses are not as pronounced as most of the discharge infiltrates in the immediate area of well 299-W19-93 and drains away from the perched mound created. Figure 22 suggests that the rise in water level in the perched water zone is associated with discharge greater than about 568 L/minute (150 gal/minute). Dissipation of the vertically extensive perched water mound shortly after periods of peak discharge is indicative of a vertical pathway (possibly clastic dikes, well seals) through the perching horizon.

Effects from discharge are also seen in the water table but are less pronounced than changes in the perched water zone. Hydrographs from wells 299-W19-21 and 299-W19-27 suggest correlation between discharge and change in the water table in December 1991 and at the start of the stabilization run (February to June 1993). The maximum rise in the water table at a discharge rate of 1,363 L/minute (360 gal/minute) is about 0.5 m (1.5 ft).

4.3 NATURE AND EXTENT OF CONTAMINATION

This section identifies contaminants that are elevated in the subsurface and describes concentration and distribution. Groundwater contaminants are evaluated by comparison with the groundwater quality criteria (GQC), derived concentration guide (DCG), or Westinghouse Hanford Company provisional groundwater background (PGB) levels (Johnson 1993b). Sediment samples are compared to the sitewide threshold background value at the 95% upper confidence limit (DOE-RI 1993) because an assessment criteria has not been established for this medium.

Filtered samples are used to assess the representative concentration of inorganic contaminants (e.g., metals) in the groundwater. The filtering of samples is necessary as artificially induced disturbance (e.g., drilling, purging, and sampling) to the groundwater system increases turbidity. Inorganic analysis is sensitive to turbidity because metals are attached to the suspended solids.

Contaminants are generally described relative to points of discharge within the ditch (e.g., eastern versus western end of the ditch), and by occurrence in the sediment column, perched water zone, and groundwater. Detection of contaminants above the water table and background levels indicate influence from the ditch.

4.3.1 Arsenic

One round of data are available to assess the concentration of arsenic in the perched water zone. Two to five rounds of data are available to assess the concentration of arsenic in the groundwater. The GQC and PGB is 0.05 and 10 parts per billion (ppb), respectively. The provisional background standard is of 10 ppb in groundwater. The sitewide threshold background value for arsenic is 8,900 ppb in the soil column.

Monitoring well and test pit sediment samples indicate that arsenic is below sitewide background levels in the soil column. The concentration of arsenic from monitoring wells ranges between 1,400 and 3,700 ppb in the sediment column. Sediment samples from test pits on the eastern end of the ditch are between 820 and 1,500 ppb.

The perched water zone beneath the western end of the ditch contains elevated concentrations of arsenic. Unfiltered samples collected while drilling perched wells contain arsenic ranging between 6.9 and 23 ppb. The level of arsenic in the only filtered sample available is 22 ppb.

Perched water samples on the eastern end of the ditch also contain elevated amounts of arsenic. The concentration in unfiltered samples ranges between 5 and 10 ppb. Data are not available to evaluate the filtered concentration in the perched water zone on the eastern end of the ditch.

The concentration of arsenic in the groundwater is consistently above the GQC and ranges between 5 and 14 ppb in filtered samples. Samples from the western end of the ditch range between 5.6 and 10 ppb and 11 to 12 ppb at U Pond. Samples from the eastern end of the ditch are between 12 and 14 ppb and exceed the background standard. Arsenic is less than or equal to 6 ppb in upgradient wells north of the site. Figure 23 contains a plume map depicting the extent of arsenic contamination in the 200 West Area and near the ditch.

The concentration of arsenic in the soil column is less than background and elevated in the perched water zone and groundwater. These data suggest that naturally occurring arsenic may be leached out of the soil by the percolating wastewater and affecting the underlying perched water zone and groundwater as indicated by concentrations above background. Significant concentrations of arsenic were not detected in the 216-U-14 Ditch waste streams. Arsenic may not have been detected in the waste stream because the detection limit used for effluent monitoring is not low enough for comparison with the GQC.

4.3.2 Aroclor-1254

Between one and two rounds of data are available to assess the concentration of aroclor-1254 in the perched water zone and groundwater. The GQC is 0.01 ppb in groundwater. A background standard has not been established for sediments and groundwater.

Aroclor-1254 was detected at a concentration of 7 ppb in one sediment sample from ETP-1 at a depth of 6 ft. Aroclor was not detected in the perched water zone or groundwater.

4.3.3 Barium

Two rounds of data are currently available to assess the impact of barium in the perched water zone. Between one and eleven rounds of data are available to assess the concentration of barium in the groundwater. The GQC and PGB is 1,000 and 68.5 ppb, respectively. The sitewide threshold background value for barium is 171,000 ppb in the soil column.

Figure 23. Areal Distribution of Nonradioactive Contaminants in the 200 West Groundwater (Ford 1993).

Sediment samples from perched and groundwater monitoring wells indicate that barium is below sitewide threshold background values in the soil column. The concentration of barium from sediment samples from wells are between 72,000 and 110,000 ppb. The concentrations detected in test pit sediment samples range between 63,000 and 86,000 ppb beneath the ditch.

The concentration of barium in all perched water wells sampled during the June-July 1993 campaign indicate that this contaminant does not exceed the assessment criteria. The concentration in all filtered samples collected, including those collected during drilling, are no greater than 48 ppb. Unfiltered samples are as high as 270 ppb.

Two unfiltered perched water samples collected in 1992 from well 299-W19-91 suggest that barium may exceed the GQC. The concentrations in the perched water zone in 1992 were 7,200 and 1,100 ppb. Samples collected since that time show a consistent downward trend in the level of unfiltered barium in the perched water zone (Figure 24). In addition, unfiltered samples from other perched wells near the ditch do not exceed 410 ppb. After remediation, purging and sampling, the concentration of unfiltered barium in well 299-W19-91 is 70 ppb. The elevated concentrations in this well in the past may be due to improper sampling methods and poor well condition.

Barium does not exceed background levels in the groundwater. The range of barium contamination in the groundwater is 16 to 56 ppb in filtered samples and 16 to 37 ppb in unfiltered samples.

Because this contaminant does not exceed the GQC or background in either the sediment column or the perched water zone or groundwater, barium is not a vadose or groundwater contaminant of interest.

4.3.4 Bis-(2-ethyhexyl) Phthalate

Between one and three rounds of data are available to assess the concentration of bis-(2-ethyhexyl) phthalate in the perched water zone and groundwater. The GQC is 6 ppb in groundwater. A background standard has not been established for sediments and groundwater.

Bis-(2-ethyhexyl) phthalate was detected at a depth of 6 ft at a concentration of 94 ppb in one sediment sample from ETP-1. Bis-(2-ethyhexyl) phthalate was not detected in the perched water zone or groundwater.

4.3.5 Cadmium

Between one and seven rounds of data are currently available to assess the impact of cadmium in the perched water zone. Between one and eleven rounds of data are available to assess the concentration of cadmium in the groundwater. The GQC is 10 ppb for cadmium. Provisional and sitewide background values have not been established for this contaminant in groundwater or sediments.

Cadmium was not detected in sediment samples collected at the 216-U-14 Ditch.

Figure 24. Unfiltered Concentration of Barium in the Perched Water Zone Versus Time in Wells 299-W19-91, 299-W19-92, and 299-W19-93.

Cadmium was detected in one unfiltered groundwater sample from well 299-W19-1 in 1990 at a concentration of 94 ppb. Cadmium was not detected in the remaining filtered and unfiltered samples collected at the ditch. Because well 299-W19-1 is an upgradient well, unfiltered samples are not representative of the concentrations in the groundwater and cadmium was not detected in the downgradient groundwater, it is not a contaminant of interest.

4.3.6 Carbon Tetrachloride

As many as eight rounds of data are available to assess the concentration of carbon tetrachloride in the perched water zone. Between one and thirteen rounds of data are available to assess the concentration of carbon tetrachloride in the groundwater. The GQC is 0.3 ppb. A background standard has not been established for sediments and groundwater.

Carbon tetrachloride was not detected in sediment or perched water samples collected at the ditch.

The concentration of carbon tetrachloride in the groundwater ranges between 1.4 and 140 ppb; 140 ppb was detected in well 299-W18-15 at U Pond during the June-July 1993 timeframe. This contaminant ranges between 1.4 and 17 ppb in downgradient wells at the ditch.

Carbon tetrachloride does not appear to be a 216-U-14 Ditch contaminant of interest because the contaminant was not detected above the water table. Carbon tetrachloride in the groundwater is associated with past-practice activities at the Plutonium Finishing Plant.

4.3.7 Chromium

Between one and seven rounds of data are available to assess the concentration of chromium in the perched water zone. Up to eleven rounds of data are available to assess the concentration of chromium in the groundwater. The GQC and PGB is 50 and less than 30 ppb, respectively. The sitewide threshold background value for chromium is 28,000 ppb in the sediment column.

Sediment samples from perched and groundwater monitoring wells indicate that chromium is below sitewide threshold background values in the soil column. The concentration of chromium in the sediment column from wells is between 5,000 and 17,500 ppb. The concentrations from test pits on the eastern end of the ditch are between 5,800 and 6,700 ppb.

Chromium was not detected in filtered samples from the perched water zone. The concentration of unfiltered chromium in the perched water zone on the western end of the ditch is 40 ppb. Unfiltered samples collected from the perched water zone on the eastern end of the ditch range between 50 and 110 ppb.

Chromium was not detected in filtered samples from downgradient groundwater monitoring wells. Chromium in the groundwater was detected at concentrations between 20 and 34 ppb in unfiltered samples from the western

end of the ditch and 24 to 29 ppb on the eastern end of the ditch. The concentration of filtered chromium from upgradient wells is between 20 and 34 ppb and 149 to 360 ppb in unfiltered samples.

Chromium is not a contaminant of interest because all soil samples collected are below the background standard. Chromium was also not detected in filtered samples from the perched water zone or groundwater.

4.3.8 Gross Alpha

Between one and eight rounds of data are available to assess the concentration of gross alpha in the perched water zone. As many as 30 rounds of data are available to assess the concentration of gross alpha in the groundwater. The GQC for gross alpha contamination is 15 pCi/L in groundwater. Provisional and sitewide background values have not been established for this contaminant in groundwater or sediments.

Data are not available to evaluate the distribution of gross alpha contamination in the sediment column.

The range of gross alpha contamination in the perched water zone is between 12.2 and 900 pCi/L. Concentrations between 17.7 and 29.4 pCi/L are observed on the western end of the ditch. Higher concentrations of gross alpha contamination ranging between 12.2 and 900 pCi/L (average concentration equals 93.6 pCi/L) are observed on the eastern end of the ditch. A downward trend in the level of contamination with time is apparent (Figure 25). If the 900 pCi/L measurement is considered an outlier, then the range is 12.2 to 182 pCi/L (average concentration 53 pCi/L). All perched water samples collected during the June-July 1993 sampling campaign exceed the GQC criteria.

Gross alpha in downgradient groundwater monitoring wells on the eastern end of the ditch range between 4.25 and 26.3 pCi/L (average concentration 13.3 pCi/L) and increase over time (Figure 26). The contaminant concentration ranges between 2.5 and 11.9 ppb on the western end of the ditch (average concentration 6.08 pCi/L) except well 299-W18-15, which monitors downgradient water quality from U Pond. The range of contamination for well 299-W18-15 is between 7 and 334 ppb; more than 86 of the 89 rounds of sampling exceed the GQC of 15 pCi/L. The average concentration of detected gross alpha contamination in upgradient wells to the north is 4.5 pCi/L. The distribution of gross alpha contamination is depicted in Figure 27.

The presence of gross alpha in the groundwater appears to be largely associated with U Pond. However, concentrations observed in the perched water zone also suggest significant contributions of alpha emitting contamination from the ditch.

4.3.9 Gross Beta

Between one and eight rounds of data are available to assess the concentration of gross beta contamination in the perched water zone. As many as 27 rounds of data are available to assess the concentration of this

Figure 25. Gross Alpha Contamination in the Perched Water Zone Versus Time in Wells 299-W19-91, 299-W19-92, and 299-W19-93.

Figure 26. Gross Alpha Contamination in the Groundwater Versus Time in Wells 299-W19-21 and 299-W19-27.

Figure 27. Areal Distribution of Radioactive Contaminant Indicators in the 200 West Area (Ford 1993).

contaminant in the groundwater. The GQC for gross beta contamination is 50 pCi/L. Provisional and sitewide background values have not been established for this contaminant in groundwater or sediments.

Data are not available at this time to evaluate the distribution of gross beta contamination in the sediment column.

The range of gross beta contamination in the perched water zone is between 10 and 413 pCi/L. Contaminant levels on the western end of the ditch are below the GQC and range between 18.9 and 33.6 pCi/L in wells 299-W18-250 and 299-W18-251. Contamination on the eastern end of the ditch are between 10 and 413 pCi/L (average concentration 61 pCi/L) and a downward trend in the concentration of gross beta is apparent (Figure 28). Samples collected during the last five rounds on the eastern end of the ditch indicate the range of contamination is between 10.1 and 65.1 pCi/L (average concentration 28.64 pCi/L). Well 299-W19-92 had the highest measurement and may be associated with the arrival of strontium-90 in the perched water zone.

Gross beta contamination detected in downgradient groundwater wells on the eastern end of the ditch ranges between 3.32 and 81.8 pCi/L (average concentration 14.7 pCi/L). The higher measurements (greater than 25 pCi/L) are samples collected before 1987 and indicate a downward trend in the level of gross beta contamination subsequent to that date (Figure 29). The concentrations are 10.3 and 12.5 pCi/L in downgradient wells 299-W23-16 and 299-W23-17 on the western end of the ditch.

Gross beta in well 299-W18-15 ranges between 4.8 and 68.2 pCi/L (average 22 pCi/L) from 1967 through 1993; the average measurements are slightly higher than measurements closer to the ditch. Well 299-W18-15 also shows a downward trend in contaminant levels (Figure 29) that corresponds with the decommissioning of U Pond. Well 299-W19-32 indicates an upgradient source of gross beta contamination as denoted by a measurement of 430 pCi/L from the July 1993 campaign. A plume map of gross beta contamination is shown in Figure 27.

The source of gross beta contamination in the groundwater are U Pond, an undetermined upgradient facility, and the 216-U-14 Ditch. Before 1987, U Pond and the 216-U-14 Ditch were major sources of the contaminant, but current trends indicate a decrease in the level of contamination. The major source of gross beta contamination near the ditch appears to be from an undetermined upgradient facility.

4.3.10 Iron

Between one and seven rounds of data are available to assess the concentration of iron in the perched water zone. One to ten rounds of data are available to assess the concentration of iron in the groundwater. The GQC is 300 ppb and the PGB value is 86 ppb. The provisional threshold background value is 39,160,000 ppb in sediments.

Figure 28. Gross Beta Contamination in the Perched Water Zone Versus Time in Wells 299-W19-91, 299-W19-92, and 299-W19-93.

Figure 29. Gross Beta Contamination in the Groundwater Versus Time in Wells 299-W18-15, 299-W19-21, and 299-W19-27.

Monitoring well sediment samples indicate that iron is below sitewide background in the soil column. The concentration of iron in monitoring wells on the western end of the ditch ranges between 19,000,000 and 28,000,000 ppb. Data are not available to evaluate the distribution of iron in test pit sediment samples.

Iron was not detected in filtered samples collected from the perched water zone on the western end of the ditch. The concentration in unfiltered samples collected after development is 190 ppb. Unfiltered samples collected while drilling contained iron between 5,300 and 54,000 ppb, but are not representative because of extremely high turbidity.

Filtered samples were not available to assess the concentration of iron in the perched water zone of the eastern end of the ditch. The concentration of iron in unfiltered samples ranges between 5,200 and 630,000 ppb. After these wells were remediated (e.g., scrubbed, purged), results from the June-July 1993 sampling campaign indicate that the level of iron decreased. This suggests that iron is associated with casing effects.

Filtered samples from downgradient wells indicate that iron is below the GQC and PGB in the groundwater. Concentrations between 24 and 54 ppb were detected in filtered samples. The range in unfiltered samples is between 30 and 490 ppb. Upgradient wells display higher concentrations of iron than downgradient wells and were as high as 768 ppb in well 299-W19-1. The concentration of iron is between 20 and 230 ppb in well 299-W19-32. Iron was detected in one filtered sample from well 299-W18-15 at a concentration of 29 ppb.

Iron is not a contaminant of interest at the ditch because sediment and filtered perched water zone and groundwater samples are below background levels or the assessment criteria.

4.3.11 Manganese

Between one and seven rounds of data are available to assess the concentration of manganese in the perched water zone. One to ten rounds of data are available to assess the concentration of manganese in the groundwater. The provisional threshold background value is 612,000 in sediments. The GQC is 50 ppb in groundwater. The PGB standard is 24.5 ppb.

Monitoring well and test pit sediment samples indicate that manganese is below sitewide background in the soil column. The concentration of manganese in the sediment column from monitoring wells on the western end of the ditch ranges between 280,000 and 470,000 ppb. Sediment samples from test pits on the eastern end of the ditch are between 220,000 and 310,000 ppb.

The perched water zone beneath the western end of the ditch contains elevated concentrations of manganese above background, but the GQC is not exceeded. Manganese is as high as 44 and 500 ppb in filtered and unfiltered samples, respectively. The concentration of manganese in unfiltered samples from the eastern end of the ditch are between 70 and 15,000 ppb. Data are not available to determine the filtered concentration on the eastern end of the ditch.

Filtered samples from downgradient groundwater wells of the western end of the ditch indicate that manganese is slightly above the GQC in one out of two wells sampled. The concentration in well 299-W23-16 is 51 ppb and 13 ppb in well 299-W23-17. The concentrations observed in unfiltered samples are 63 ppb and 25 ppb in wells 299-W23-16 and 299-23-17, respectively. This contaminant is not detected in well 299-W18-15.

Manganese was not detected in filtered samples from downgradient wells on the eastern end of the ditch. The highest concentration detected is 9 ppb in an unfiltered sample. The concentration of manganese in filtered samples from upgradient wells are between 53 and 230 ppb. Unfiltered samples from upgradient wells contain concentrations between 280 and 1,300 ppb.

Manganese exceeds the assessment criteria by 1 ppb in the groundwater at well 299-W23-16. Manganese is associated with the ditch as reflected by the concentration above background in the perched water zone and the lack of an apparent upgradient source.

4.3.12 Nitrate

Between one and seven rounds of data are available to assess the concentration of nitrate in the perched water zone. Nineteen rounds of data are available to assess the concentration of nitrate in the groundwater. The GQC and PGB is 10,000 and 12,400 ppb for nitrate, respectively. The sitewide threshold background value for nitrate is 199,000 ppb in the soil column.

Monitoring well and test pit sediment samples indicate that nitrate is below sitewide background in the soil column. The concentration of nitrate in sediment samples from monitoring wells on the western end of the ditch ranges between 200 and 7,000 ppb. Data are not available to evaluate the distribution of nitrate in test pit sediment samples.

The available data indicate that the concentration of nitrate in the perched water zone ranges between 200 and 1,900 ppb. Samples collected during June and July 1993 indicate that nitrate is between 300 and 700 ppb.

Significant concentrations of nitrate were detected in the groundwater in upgradient well 299-W19-1 between 1957 and 1963. The concentrations ranged between 360 and 210,000 ppb (average 20,000 ppb). Concentration between 2,400 and 5,500 ppb are seen in upgradient wells (299-W18-33, 299-W19-32) in 1993.

Concentrations observed in the groundwater in all downgradient wells at the ditch are less than 3,000 ppb and a downward trend in the concentration of nitrate is apparent (Figure 30). Nitrate ranged between 400 and 600 ppb in downgradient wells at the ditch during June and July 1993.

Nitrate does not exceed background levels or the GQC at the ditch.

Figure 30. Nitrate Contamination in the Groundwater Versus Time in Wells 299-W19-21 and 299-W19-27.

4.3.13 Americium-241

Between one and three rounds of data are available to assess the presence of americium-241 in the perched water zone. Between one and four rounds of data are available to assess the concentration of americium-241 in the groundwater. The DCG for americium-241 is 1.2 pCi/L in groundwater. The provisional threshold background value sediment has not been determined.

Americium-241 was not detected in any sediment sample (e.g., recent well samples) collected adjacent to the ditch. The contaminant concentration ranges between 0.5 and 1.6 pCi/g in sediment samples collected from test pit excavation on the western end of the ditch. Sediment samples from the eastern end of the ditch range were as high as 1 pCi/g. Americium-241 was detected in the perched water zone during one round of sampling in 1993 at a concentration of 0.05 pCi/L in well 299-W18-251. Americium was not detected in downgradient groundwater monitoring wells.

Americium-241 has a limited distribution in the subsurface and appears to be associated only with sediment in the bottom of the ditch.

4.3.14 Cesium-137

Between one and three rounds of data are available to assess the concentration of cesium-137 in the perched water zone. Twenty-two rounds of data are available to assess the concentration of cesium-137 in the groundwater. The DCG for cesium-137 is 120 pCi/L in groundwater. The provisional threshold background value for this contaminant has not been determined for sediments and groundwater.

Cesium-137 ranges between 0.4 and 1,600 pCi/g in sediment samples collected on the western end of the ditch from test pit excavations. The major concentration of this contaminant is located within 0.3 m (1 ft) of the bottom of the ditch and is between 36 and 1,600 pCi/g. These data are comparable to data collected during the 1980's (see Figure 6), which show a similar range of cesium contamination (2.3 to 1,500 pCi/g) in the bottom of the ditch. Recent sampling indicates that contamination ranges between 0.12 and 10.4 pCi/g (average 1.6 pCi/g) greater than 0.3 m (1 ft) but less than 3 m (10 ft) below the surface on the western end of the ditch.

Only one data point is available to assess the distribution of cesium-137 from test pit samples on the eastern end of the ditch. A sample from ETP-1, 0 to 0.1 m (0 to 0.5 ft) indicates the level of cesium-137 is as high as 2,740 pCi/g.

Cesium-137 was not detected in sediment samples collected from perched and groundwater monitoring wells drilled at the 216-U-14 Ditch, nor was it detected in the perched water zone beneath the ditch.

Cesium-137 was not detected in the groundwater on the western end of the ditch except well 299-W18-15. Cesium-137 was detected at a maximum concentration of 35 pCi/L in 1983 at well 299-W18-15. Cesium-137 was also detected in the groundwater during one round of sampling in 1987 on the eastern end of the ditch at a level of 6.89 pCi/L.

The extent of cesium-137 contamination suggests a limited distribution in the subsurface. Contamination is limited to within a few feet of the ditch bottom and has not been detected in the perched water zone. The concentration detected at the water table does not appear to be associated with the 216-U-14 Ditch.

4.3.15 Cobalt-60

Between one and five rounds of data are available to assess the concentration of cobalt-90 in the perched water zone. Nineteen rounds of data are available to assess the concentration of cobalt-60 in the groundwater. The groundwater DCG for cobalt-60 is 200 pCi/L. The provisional threshold background value for sediments has not been determined.

Cobalt-60 was detected in one sediment sample from test pits excavated on the western end of the ditch at a concentration of 2.3 pCi/g. However, these results do not agree with data from the 1980's that suggest cobalt-60 is widely distributed in the bottom of the ditch. Contaminant levels during the 1980's range between 1.6 and 290 pCi/g (average concentration 34 pCi/g (see Figure 5)). The current lack of detectable cobalt-60 in the sediment column near the surface is an indicator of contaminant migration in the subsurface. Data are not available to determine contaminant levels on the eastern end of the ditch.

Cobalt-60 was detected in the perched water zone on the western end of the ditch at a concentration of 5.28 pCi/L. Cobalt-60 was not detected in the perched water zone on the eastern end of the ditch or in the downgradient groundwater. The concentration of cobalt-60 in wells 299-W15-18 and 299-W19-32 have been as high as 9.0 pCi/L; however, the contaminant was not detected in the last four rounds of sampling.

Historical sediment data indicate that substantial concentrations of cobalt-60 entered the ditch. The current lack of substantial concentration near the surface currently is an indicator that this contaminant is mobile. Detection of this contaminant in the perched water zone on the western end of the ditch confirms vertical migration; however, the concentration is less than the assessment criteria. Cobalt-60 was not detected in the downgradient groundwater.

4.3.16 Plutonium-238, -239, -240

One to two rounds of data are available to assess the concentration of plutonium in the perched water zone. Fourteen rounds of data are available to assess the concentration of plutonium in the groundwater. The DCG for plutonium-239 and -240 is 1.2 pCi/L in groundwater. Provisional background values have not been determined for these constituents.

Plutonium was not detected in sediment samples from wells recently drilled at the ditch. The concentration of plutonium detected in sediments from the bottom of the ditch on the western end range between 0.26 and 2.1 pCi/g. Data from the bottom of the ditch on the eastern end indicate that contaminant levels are as high as 10 pCi/g. Plutonium-239 and -240 were not

detected in the perched water zone. Plutonium-238 was only detected in the groundwater during one round of sampling in well 299-W19-21 at a concentration of 0.05 pCi/L in 1986. However, because 0.05 pCi/L is below the current detection limit of 0.1 pCi/L, it is assumed that the detected value is an error.

The extent of plutonium-239 and -240 contamination is limited to the sediment column above the perched water zone. Plutonium-238 and -240 is not detected at the perched water zone or water table.

4.3.17 Ruthenium-106

As many as four rounds of data are available to assess the concentration of ruthenium-106 in the perched water zone. As many as 20 rounds of data are available to assess the concentration of ruthenium-106 in the groundwater. The DCG is 240 pCi/L. A background standard has not been established for sediments and groundwater.

Data are not available to assess the distribution of this contaminant in sediments.

Ruthenium-106 has only been detected in the perched water zone at well 299-W19-92 on the eastern end of the ditch. The concentration in the perched water zone is 49.1 to 68.8 pCi/L.

Ruthenium-106 has not been detected in the downgradient groundwater since 1987. Before 1987 ruthenium was detected in only three rounds of sampling at a concentration between 53.6 and 72.8 pCi/L. Ruthenium-106 has not been detected in the upgradient well to the north. Concentrations in the groundwater at U Pond range to 68.3 pCi/L but has not been detected since 1988.

4.3.18 Strontium-90

Between one and three rounds of data are available to assess the concentration of strontium-90 in the perched water zone. As many as 19 rounds of data are available to assess the concentration of strontium-90 in the groundwater. The GQC for strontium-90 is 8 pCi/L and the DCG is 40 pCi/L in groundwater. The provisional threshold background value for this contaminant has not been determined for sediments and groundwater.

The available test pit data indicate that strontium-90 is between 0.47 and 6.6 pCi/g on the western end of the ditch and no greater than 1 pCi/g on the east end. Strontium-90 ranges between less than 0.1 and 5.7 pCi/g in well sediments collected and typically does not exceed 1 pCi/g. Two samples collected from monitoring wells exceed 1 pCi/g. In well 299-W18-251, 5.7 pCi/g was detected at a depth of 46 ft. In upgradient well 299-W18-33, 3.1 pCi/g was detected at a depth of 26 ft.

An increase in the level of strontium-90 was recently observed in the perched water zone. Strontium-90 was first detected in well 299-W19-92 at concentrations of 14.3 and 24.6 pCi/L in 1992 and early 1993, respectively.

These data alone suggest breakthrough to the perched water zone; however, adjacent perched wells at the time did not confirm arrival. During the June-July 1993 timeframe strontium-90 was detected at a concentration of 7,820 pCi/L in well 299-W19-91, 3.68 pCi/L in well 299-W19-92, and 1.68 pCi/L in well 299-W19-93. The value of 7,820 pCi/L is likely erroneous because the beta activity associated with strontium-90 is not closely correlative. Detection of this contaminant in well 299-W19-93 and possibly well 299-W19-91 confirms the arrival of strontium-90 in the perched water zone; however, current contaminant levels do not exceed the GQC. Strontium-90 was not detected in the perched water zone on the western end of the ditch. Strontium-90 was not detected at the water table.

Strontium-90 is elevated in the soil column to a depth of at least 17 m (57 ft). Data from the perched water zone on the eastern end of the ditch indicate that strontium-90 extends to the perched water zone, and exceeds the GQC in two out of the last three rounds of sampling. Strontium-90 was not detected in the groundwater.

4.3.19 Technetium-99

One round of data are available to assess the concentration of technetium-99 in the perched water zone. About five rounds of data are available to assess the concentration of technetium-99 in the groundwater. The DCG for technetium-99 is 4,000 pCi/L in groundwater. Provisional background values have not been determined for these constituents.

Technetium-99 was detected in one sample from the bottom of the ditch at a concentration of at least 12 pCi/g. Technetium-99 was not detected in the perched water zone beneath the ditch.

Technetium-99 was detected in the groundwater at a concentration of 3.37 pCi/L in well 299-W19-21. Higher concentrations of this contaminant ranging to 1,970 pCi/L were seen in upgradient wells (299-W19-1 and 299-W19-32).

Technetium-99 appears to have a very limited distribution in the vadose zone and contamination does not appear to extend to the perched water zone. An upgradient facility source is likely the major source of technetium in the groundwater near the ditch.

4.3.20 Tritium

One to eight rounds of data are available to assess the concentration of tritium in the perched water zone. Twenty-six rounds of data are available to assess the concentration of tritium in the groundwater. The GQC for tritium is 20,000 pCi/L in groundwater. Provisional background values have not been determined for these constituents.

Tritium was detected in the perched water zone at a concentration of 537 pCi/L on the eastern end of the ditch during a single round of sampling in 1986. Tritium was not detected in the perched water zone on the western end of the ditch.

Tritium has only been detected once in the groundwater at the ditch. In well 299-W19-27, tritium was detected at a concentration of 219 pCi/L in 1991. Upgradient concentrations in well 299-W19-32 are at least 1,550 pCi/L.

The primary source of tritium near the ditch appears to be from an upgradient facility. Tritium was detected in one round of sampling from the perched water zone, which suggest that the ditch may be a minor source.

4.3.21 Uranium-238

Between one and nine rounds of data are available to assess the concentration of uranium-238 in the perched water zone. Twenty-two rounds of data are available to assess the concentration of uranium-238 in the groundwater. The DCG for uranium in groundwater is 24 pCi/L. A background value has not been established for soils.

Samples collected from test pit excavations on the western end of the ditch indicate that uranium beneath the ditch ranges between 1.0 and 178 pCi/g¹ to a depth of 3 m (10 ft). The greatest levels are concentrated within 1.2 m (4 ft) of the ditch bottom and range between 24 and 178 pCi/g (average concentration to a depth of 1.2 m [4 ft] is 29 pCi/g). The concentration range below 1.2 m (4 ft) is between 1 and 7 pCi/g (average concentration is 3 pCi/g). A limited amount of data are available from the eastern end of the ditch. The data indicates the uranium-238 is as high as 94 pCi/g on the eastern end of the ditch.

Sediment samples collected from wells on the western end of the ditch indicate that uranium is typically less than 0.2 pCi/g. However, two samples collected in well 299-W23-16 at a depth of 15 and 61 m (50 and 200 ft) indicate that the concentrations of uranium are 115,830 and 66,990 pCi/g, respectively. Because these two samples were screened in the field with the Ludlum beta/gamma and alpha probe for total activity (a measurement of alpha, beta, and gamma activity) and significant activity (e.g., above background) was not detected, it is assumed that these measurements are erroneous. Borehole geophysical data also confirms that significant activity is not present.

Uranium-238 concentrations range between less than 1 and 42.6 pCi/L in the perched water zone at the ditch. The higher concentrations were detected in the perched water zone on the eastern end of the ditch and a decrease in the level of uranium-238 is seen over time (Figure 31). Only one well point (299-W18-251) is available to assess the distribution in the perched water zone on the western end of the ditch. The level of contamination in well 299-W18-251 is 14 pCi/L.

Uranium-238 in the groundwater ranges between 4.0 and 13.5 pCi/L in downgradient wells 299-W19-21 and 299-W19-27. Samples analyzed during the June-July 1993 sampling campaign indicate that the maximum concentration of

¹Values reported in the Groundwater Impact Assessment Plan are corrected in this report.

Figure 31. Uranium-238 Contamination in the Perched Water Zone Versus Time in Wells 299-W19-91, 299-W19-92, and 299-W19-93.

uranium-238 in the groundwater is 11.2 pCi/L and largely associated with the last stabilization run at UO₃/U Plant. Before the stabilization run, uranium-238 was approximately 6 pCi/L and contaminant levels were declining. A plot of uranium-238 concentrations indicate that contaminant levels are increasing over time (Figure 32), however, the GQC has not been exceeded. Uranium-238 in the groundwater on the western end of the ditch is 5 pCi/L. Greater concentrations of uranium-238 have been observed in well 299-W18-15 at U Pond. The maximum concentration at U Pond was 24.4 pCi/L in 1988 and a downward trend in the contaminant concentration to 15 pCi/L is evident.

The Ditch and U Pond are sources of uranium near the ditch.

A summary of primary and secondary Washington water quality contaminants, carcinogens and radioactive contaminants, and non-Washington water quality contaminants detected is provided in Tables 6, 7, and 8.

4.4 SPECTRAL GAMMA RAY LOGGING

Wells in the network were logged with the gross gamma-ray system or radionuclide logging system (RLS). No manmade radionuclides were identified with the gross gamma-ray system above the detection threshold. The maximum activity detected with the RLS does not exceed 5 pCi/g. Cesium-137 was detected at a maximum activity of 4.5 pCi/g at a depth of 0.3 m (1 ft) in well 299-W18-15. In perched water monitoring wells adjacent to the ditch, the maximum activity is 1.2 pCi/g at a depth of 3.5 m (11.5 ft) in well 299-W19-91.

4.5 LOCAL INFLUENCES ON GROUNDWATER QUALITY

Because of the large chemical and radiological inventory and its location west of the Ditch, U Pond's influence on downgradient water quality is significant. Water quality at the ditch is also potentially affected by waste management facilities north of the site, based on the location of the current groundwater mound.

Groundwater data from well 299-W18-15 provides an indicator of groundwater contamination from U Pond. Contaminant data from this well indicate that gross alpha, gross beta, uranium, carbon tetrachloride, and arsenic are elevated. Because groundwater flow direction was to the east before 1985, it is reasonable to expect that contamination in the groundwater is in part due to influence from U Pond.

Based on the past and current location of the groundwater mound north of the ditch, upgradient contaminants such as carbon tetrachloride, manganese, nitrate, strontium-90, technetium-99, and gross beta may influence groundwater quality at the ditch. Of these contaminants only carbon tetrachloride is detected at elevated levels in the groundwater at the ditch. An internal letter (Barrington 1993) suggests that carbon tetrachloride may have been disposed of at the 216-U-14 Ditch. Because carbon tetrachloride was not detected in the perched water or soil samples, it is possible that the quantities disposed were small and substantial dilution and/or decomposition volatilization have occurred.

Figure 32. Uranium-238 Contamination in the Groundwater Versus Time in Wells 299-W19-21 and 299-W19-27.

Table 6. Summary of Primary and Secondary Washington Water Quality Contaminants Detected at U Pond and the 216-U-14 Ditch.
(sheet 1 of 2)

	Primary and secondary contaminants	Units	Well 299-W18-15 U Pond min-max.	216-U-14 Ditch 1982-1992 max.	216-U-14 Ditch 1993 max.	Background/assessment criteria
Test pits	Barium	ppb	ND	ND	86,000	171,000/NE
Well sediments	--	--	ND	ND	110,000	171,000/NE
Perched water zone	--	--	ND	ND	48	68.5/1,000
Groundwater	--	--	20-25	33/56 ^a	33/50 ^a	68.5/1,000
Test Pits	Chloride	ppb	ND	ND	ND	NE
Well sediments	--	--	ND	ND	41,000	NE
Perched water zone	--	--	ND	1,500	1,800	NE/250,000
Groundwater	--	--	3,100-3,800	1,600/17,000 ^a	1,300/2,100 ^a	NE/250,000
Test Pits	Chromium	ppb	ND	ND	8,800	28,000/NE
Well sediments	--	--	ND	ND	17,500	28,000/NE
Perched water zone	--	--	ND	ND	UD	<30/50
Groundwater	--	--	UD-7.6	UD/34 ^a	UD/30 ^a	<30/50
Test pits	Copper	ppb	ND	ND	15,000	28,000/NE
Well sediments	--	--	ND	ND	15,000	28,000/NE
Perched water zone	--	--	ND	UD	UD	<30/1,000
Groundwater	--	--	UD-3.3	UD	UD/2.7 ^a	<30/1,000
Test pits	Fluoride	ppb	ND	ND	ND	NE
Well sediments	--	--	ND	ND	3,000	NE
Perched water zone	--	--	ND	200	900	1,340/4,000
Groundwater	--	--	300	400/800 ^a	600/700 ^a	1,340/4,000
Test pits	Iron	ppb	ND	ND	ND	3.9 E7/NE
Well sediments	--	--	ND	ND	2.8 E7	3.0 E7/NE
Perched water zone	--	--	ND	ND	UD	86-LOW/300
Groundwater	--	--	UD-29	39/230 ^a	54/40 ^a	86-LOW/300
Test pits	Lead	ppb	ND	ND	3,600	14,800/NE
Well sediments	--	--	ND	ND	5,700	14,800/NE
Perched water zone	--	--	ND	UD	UD	<5/50
Groundwater	--	--	UD-5	UD	UD	<5/50
Test pits	Manganese	ppb	ND	ND	330,000	612,000/NE

Table 6. Summary of Primary and Secondary Washington Water Quality Contaminants Detected at U Pond and the 216-U-14 Ditch.
(sheet 2 of 2)

	Primary and secondary contaminants	Units	Well 299-W18-15 U Pond min-max.	216-U-14 Ditch 1982-1992 max.	216-U-14 Ditch 1993 max.	Background/assessment criteria
Well sediments	--	--	ND	ND	470,000	612,000/NE
Perched water zone	--	--	ND	ND	44	24.5-LOW/50
Groundwater	--	--	UD-10	UD/53 ^a	51/210 ^a	24.5-LOW/50
Test pits	Nitrate	ppb	ND	ND	ND	NE
Well sediments	--	--	ND	ND	7,000	NE
Perched water zone	--	--	ND	1,400	1,900	1.2 E4/1.0 E4
Groundwater	--	--	UD-27,600	3,440/7,000 ^a	600/18,000 ^a	1.2 E4/1.0 E4
Test pits	Silver	ppb	ND	ND	3,300	2,700/NE
Well sediments	--	--	ND	ND	UD	2,700/NE
Perched water zone	--	--	ND	ND	UD	10/50
Groundwater	--	--	UD	3	UD	10/50
Test pits	Sulfate	ppb	ND	ND	ND	1.3 E6/NE
Well sediments	--	--	ND	ND	34,000	1.3 E6/NE
Perched water zone	--	--	ND	15,000	14,000	90,500/250,000
Groundwater	--	--	12,500-16,000	13,200/28,000 ^a	11,000/28,000 ^a	90,500/250,000
Test pits	Zinc	ppb	ND	ND	46,000	79,000/NE
Well sediments	--	--	ND	ND	54,000	79,000/NE
Perched water zone	--	--	ND	ND	ND	NE/5,000
Groundwater	--	--	UD-28	46/11 ^a	60/12 ^a	NE/5,000

^aUpgradient concentration.

NA = Not applicable.

ND = No data available.

NE = A GQC, background, or DCG has not been established.

UD = Undetected.

Shading denotes the contaminant exceeds the background, GQC, DCG, or is potentially significant.

Table 7. Summary of Washington Water Quality Carcinogens and Radionuclides Detected at the 216-U-14 Ditch. (sheet 1 of 3)

	Carcinogens	Units	Well 299-W18-15 U Pond min.-max.	216-U-14 Ditch 1980-1992 max.	216-U-14 Ditch 1993 max.	Background/ assessment criteria
Test pits	Aroclor-1254	ppb	ND	ND	7	NE
Well sediments	--	--	ND	ND	UD	NE
Perched water zone	--	--	ND	ND	UD	NE/0.01
Groundwater	--	--	UD	ND	UD	NE/0.01
Test pits	Arsenic	ppb	ND	ND	2,200	8,900/NE
Well sediments	--	--	ND	ND	3,700	8,900/NE
Perched water zone	--	--	ND	ND	22	10/0.05
Groundwater	--	--	10-12	14	14	10/0.05
Test pits	Bis-(2-ethyl hexyl) phthalate	ppb	ND	ND	97	NE
Well sediments	--	--	ND	ND	UD	NE
Perched water zone	--	--	ND	UD	UD	NE/6
Groundwater	--	--	UD	UD	UD	NE/6
Test pits	Carbon tetrachloride	ppb	ND	ND	UD	NE
Well sediments	--	--	ND	UD	UD	NE
Perched water zone	--	--	ND	UD	UD	NE/0.3
Groundwater	--	--	89-140	17/8.2 ^d	9.2/14	NE/0.3
--	Radionuclides	--	--	--	--	--
Test pits	Americium-241	pCi/g	ND	100/1.6 ^a	1	NE/NE
Well sediments	--	--	ND	ND	UD	NE/NE
Perched water zone	--	--	ND	UD	0.05	NE/10
Groundwater	--	--	UD	UD/0.77 ^d	UD	NE/10
Test pits	Cobalt-60	pCi/g	ND	290/2.3 ^a	1	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	UD	5.28	NE/200
Groundwater	--	--	UN-9.2	UD/5.93 ^d	UD	NE/200
Test pits	Cesium-137	pCi/g	ND	1,500/1,600 ^a	2,740	NE
Well sediments	--	--	ND	ND	UD	NE
Perched water zone	--	pCi/L	UD	UD	UD	120

Table 7. Summary of Washington Water Quality Carcinogens and Radionuclides Detected at the 216-U-14 Ditch. (sheet 2 of 3)

	Radionuclides	Units	Well 299-W18-15 U Pond min.-max.	216-U-14 Ditch 1980-1992 max.	216-U-14 Ditch 1993 max.	Background/ assessment criteria
Groundwater	--	--	UD-34	UD	UD	120
Test pits	Gross alpha	pCi/g	ND	ND	ND	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	182 ^c	70.2	15
Groundwater	--	--	23-334	25.3/6.26 ^d	18.1/4.6 ^d	15
Test pits	Gross beta	pCi/g	ND	ND	ND	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	413	67.8	50
Groundwater	--	--	6.5-68.2	81.8/127 ^d	17.7/430 ^d	50
Test pits	Plutonium-238, -239, -240	pCi/g	ND	2.1	10	NE
Well sediments	--	--	ND	ND	UD	NE
Perched water zone	--	pCi/L	UD	UD	UD	1.6-1.2/NE
Groundwater	--	--	UD	UD	UD	1.6-1.2/NE
Test pits	Ruthenium-106	pCi/g	ND	ND	ND	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	49.1	68.8	240
Groundwater	--	--	UD-68.3	72.8/47.1 ^d	UD	240
Test pits	Strontium-90	pCi/g	ND	6.6	1	NE
Well sediments	--	--	ND	ND	0.97	NE
Perched water zone	--	pCi/L	ND	14.3	24.6 ^c	8
Groundwater	--	--	0.10-0.60	UD	UD	8
Test pits	Technetium-99	pCi/g	ND	ND	12	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	UD	UD	4,000
Groundwater	--	--	UD	3.73/521 ^d	UD/1,970 ^d	4,000
Test pits	Tritium	NA	NA	NA	NA	NA
Well sediments	--	NA	NA	NA	NA	NA
Perched water zone	--	pCi/L	ND	537	UD	20,000
Groundwater	--	--	42-3,200	219/1,550 ^{c,d}	UD/582 ^d	20,000

Table 7. Summary of Washington Water Quality Carcinogens and Radionuclides Detected at the 216-U-14 Ditch. (sheet 3 of 3)

	Radionuclides	Units	Well 299-W18-15 U Pond min.-max.	216-U-14 Ditch 1980-1992 max.	216-U-14 Ditch 1993 max.	Background/ assessment criteria
Test pits	Uranium-234	ND	ND	ND	ND	NE
Well sediments	--	ND	ND	ND	ND	NE
Perched water zone	--	pCi/L	ND	ND	14.2	20
Groundwater	--	--	15.5-23.5	8.65	10.5	20
Test pits	Uranium-238	pCi/g	ND	178	94	NE
Well sediments	--	--	ND	ND	<1	NE
Perched water zone	--	pCi/L	ND	ND	42.2	24
Groundwater	--	--	15.8-24.5	13.5	11/3.6 ^a	24

^aGreater concentrations of the contaminant were reported before 1980. Much of the contaminant burden was removed by dredging before 1980. The two values reported are 1982 and 1992 data, respectively.

^bOutliers removed.

^cA data point from 1966 indicate that tritium was as high as 6,800 pCi/L.

^dUpgradient concentration.

NA = Not applicable.

ND = No data available.

NE = A GQC, background, or DCG has not been established.

UD = Undetected.

Shading denotes that contaminant exceeds the background, GQC, DCG, or is potentially significant.

Table 8. Summary of Non-Washington Water Quality Contaminants Detected at U Pond and the 216-U-14 Ditch.

	Non-Washington water quality contaminants	Units	Well 299-W18-15 U Pond min.-max.	216-U-14 Ditch 1982-1992 max.	216-U-14 Ditch 1993 max.	Background/assessment criteria
Test pits	2,6, Bis(1, 1-dimethylethyl) -4-methyl phen	--	ND	ND	ND	NE
Well sediments	--	--	ND	ND	ND	NE
Perched water zone	--	--	ND	ND	ND	NE
Groundwater	--	--	ND	20	ND	NE
Test pits	Acetone	ppb	ND	ND	12	NE
Well sediments	--	--	ND	ND	16	NE
Perched water zone	--	--	ND	UD	UD	NE
Groundwater	--	--	UD	UD	UD	NE
Test pits	Nickel	ppb	ND	ND	11,000	25,000/NE
Well sediments	--	--	ND	ND	69,000	25,000/NE
Perched water zone	--	--	ND	ND	UD	NE
Groundwater	--	--	UD	UD	UD	NE
Test pits	Methyl ethyl ketone	ppb	ND	ND	UD	NE
Sediments	--	--	ND	ND	47	NE
Perched water zone	--	--	ND	UD	UD	NE
Groundwater	--	--	UD	UD	UD	NE
Test pits	Pyridine	ppb	ND	ND	ND	NE
Well sediments	--	--	ND	ND	210	NE
Perched water zone	--	--	ND	ND	ND	NE
Groundwater	--	--	ND	ND	ND	NE
Test pits	Tetrahydrofuran	ppb	ND	ND	UD	NE
Sediments	--	--	ND	ND	25	NE
Perched water zone	--	--	ND	UD	UD	NE
Groundwater	--	--	UD	UD	UD	NE
Test pits	Vanadium	ppb	ND	ND	68,000	111,000/NE
Well sediments	--	--	ND	ND	69,000	111,000/NE
Perched water zone	--	--	ND	ND	37	15/NE
Groundwater	--	--	21	40	35	15/NE

NA = Not applicable.

ND = No data available.

NE = A GQC, background, or DCG has not been established.

UD = Undetected.

Shading denotes that contaminant exceeds the background, GQC, DCG, or is potentially significant.

The localized influence of discharge on groundwater quality can also be seen in the distribution of specific conductivity (Figure 33). The areal distribution shows the dilution effect of wastewater from discharge on the local groundwater (e.g., cooling water from the ditch has an average specific conductivity of 127 microsiemens per centimeter [uS/cm] as compared to 150 to 300 uS/cm for the groundwater). Higher measurements (380 uS/cm) of specific conductivity are observed in upgradient well 299-W19-32 north of the site.

4.6 RESPONSE OF URANIUM-238 AND GROSS ALPHA CONTAMINATION TO EFFLUENT DISCHARGE AT THE WATER TABLE

Hydrologic response to effluent discharge was described in Section 4.2. A similar relationship is observed at the water table by comparison of discharge data and the concentration of uranium-238 and gross alpha contamination at the water table (Figure 34). Figure 34 indicates that peak periods of discharge correspond to increased uranium-238 and gross alpha contamination at the water table. Discharge greater than 568 L/minute (150 gal/minute) generally reflects an increase in uranium-238 and gross alpha concentrations. Conversely, a decrease in the levels of contamination are observed at discharge rates less than 568 L/minute (150 gal/minute). With current levels of discharge about 378 L/minute (100 gal/minute), a downward trend in the level of contamination is expected in the future, provided discharge is not greater than 568 L/minute (150 gal/minute). With discharge greater than 568 L/minute (150 gal/minute) (the current Tri-Party Agreement discharge limited is 757 L/minute [200 gal/minute] until termination in 1994) exceedence of the GQC is only expected for gross alpha contamination. Furthermore, the correlation between discharge and concentration changes at the water table are sharp. The relationship between discharge and rapid change in contaminant concentration suggests there is a significant hydrologic and contaminant pathway between sediments above the early Palouse/Plio-Pleistocene unit and the underlaying groundwater. The higher concentrations seen in well 299-W19-21 also indicate that most of the contamination migrates vertically down through the sediment column at the westernmost end of the eastern end of the ditch.

4.7 SOIL COLUMN CHEMICAL FACTORS

4.7.1 Calcium Carbonate

Calcium carbonate ranges between about 1 to 9.6 percent in the vadose zone with the greatest concentrations occurring within the Plio-Pleistocene unit. The distribution of calcium carbonate in the vadose is significant because it is a natural buffer to the groundwater system and can influence contaminant mobility. Buffers neutralize hydrogen ions in the percolating groundwater as well as wastewater and maintain a slightly alkaline pH in the subsurface. The buffering capacity of sediments is significant at the ditch because of documented releases of acid.

Figure 33. Specific Conductivity of Groundwater in the 200 West Area.

Discharge to the Ditch.

Gross Alpha Contamination in the Groundwater.

Figure 34. Comparison of Effluent Discharge and Changes in Uranium-238 and Gross Alpha Contamination at the Water Table.

Uranium-238 Contamination in the Groundwater.

4.7.2 Detergents

A soil of basic pH is conducive to retention of many metals and radionuclides. However, early studies (Knoll 1957) showed a marked reduction in radionuclides sorption by Hanford Site soil in the presence of laundry (see discussion of laundry effluent, Chapter 2) detergents and related decontamination chemicals. For example, 0.1 weight percent solutions of various detergents reduced distribution coefficients (K_d values) significantly for cesium-137, strontium-90, and plutonium-239. Apparently, detergents either form a complex with radionuclides or block the sorption sites on the soil and may enhance contaminant mobility.

4.8 SUMMARY AND CONCEPTUAL MODEL

This section summarizes the preceding chapters and describes the conceptual model of past and present hydrologic and contaminant impacts at the 216-U-14 Ditch. A schematic of the conceptual model is shown in Figure 35.

- Since 1985, the 216-U-14 Ditch received 42% (average discharge equal 160 gpm) of the discharge to the sediment column in the 200 West Area. Before 1985 the infiltration rate into the sediment column beneath the ditch is unknown.
- The chemical and radiological waste stream inventory is not complete.
- Wastewater moves vertically downward in the sediment column and spreads laterally within the lower unit of the Hanford formation and on top of the Plio-Pleistocene unit.
- A vertically extensive perched water zone (i.e., 17 m [56 ft] thick) has developed beneath the eastern end of the ditch. The thickness of the perched water zone varies and is associated with the quantity of effluent discharged. The thickness of the perched water zone decreases shortly after discharge of less than 150 gpm (average) and may be indicative of a preferential pathway (e.g., clastic dikes, faulty well seal) to the underlying groundwater. The extent of perching appears to be limited to the vicinity of the ditch.
- The water table is approximately 64 m (210 ft) below ground surface. Correlation between discharge and changes in water table elevation as well as discharge and gross alpha/uranium contamination is indicative of the presence of a preferential pathway to the underlying groundwater.
- Subsurface contaminants attributed to the 216-U-14 Ditch are americium-241, arsenic, aroclor-1254, bis-(2-ethylhexyl) phthalate, cesium-137, cobalt-60, gross alpha and gross beta, manganese, plutonium, strontium-90, technetium-99, and uranium-238. Arsenic, cobalt-60, gross alpha and gross beta, manganese, strontium-90, and uranium-238 contamination extends to the perched water zone. Only arsenic, carbon tetrachloride, manganese, and uranium-238 were

Figure 35. Schematic Illustration of Contaminant and Wastewater Transport Beneath the 216-U-14 Ditch.

detected in the groundwater. Of the groundwater contaminants, arsenic, manganese, and uranium-238 are due to operation at the ditch and only arsenic and manganese exceeds the GQC. Carbon tetrachloride is not attributed to the 216-U-14 Ditch, but rather to past practice activities at Z Plant.

- Calcium carbonate concentrations within the background range for local sediments were detected, or are assumed to be present beneath the ditch because of the slightly basic pH in the subsurface. Due to detection of several radionuclides in the perched water zone and/or groundwater, additional factors may influence contaminant mobility. Detergents in noncontemporary (e.g., laundry effluent) waste streams may enhance radionuclide mobility.

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5.0 IMPACT ASSESSMENT

Evaluation of impacts from continued use of the 216-U-14 Ditch must consider hydrologic impacts and transport of contaminants. Hydrologic factors relevant to the current status of 216-U-14 Ditch are discussed first, followed by contaminant transport analysis.

5.1 HYDROLOGIC IMPACTS

The two principal hydrologic impacts attributed to effluent discharge at the 216-U-14 Ditch are development of perched water zones and maintenance of the 200 West Area groundwater mound. A vertically extensive ephemeral perched water zone has developed beneath the eastern end of the ditch. This perched water zone dissipates shortly after periods of peak discharge. Average discharge over a calendar month greater than 1,363 L/minute (360 gal/minute) results in a measured rise of 30 to 45 ft in thickness of the perched water zone. Perched water elevations typically decline when discharge is less than 378 to 568 L/minute (100 to 150 gal/minute). Water level measurements indicate that the wastewater percolates downward through the sediment column beneath the western most end of the UO₃/U Plant end of the ditch and flows away from the perched water mound created. The perched water zone beneath the western end of the ditch is limited to several saturated horizons 0.9 to 2 m (3 to 7 ft) thick that are controlled by interbedded finer grained sediments within the lower Hanford unit.

Development of the groundwater mound in the 200 West Area is in part due to 1.62E+11 L (4.28E+10 gal) of effluent discharged to U Pond between 1944 and 1984. After U Pond was decommissioned in 1984, the 216-U-14 Ditch and 216-Z-20 Ditch received approximately 42 and 28%, respectively, of the 4.16E+9 L (1.10E+9 gal) of effluent discharge to the sediment column in the 200 West Area between 1985 and 1993. The remaining 30% of the wastewater was discharged to the 216-S-10, 216-S-26, 216-U-12, 216-U-16, 216-U-17, 216-LWC Cribs and the 284-WB Powerhouse Pond. The net effects of decommissioning U Pond and discharging into the 216-U-14 Ditch, 216-Z-20 Crib and other minor facilities, are maintenance and migration of the declining groundwater mound toward these remaining primary sources of discharge.

Correlation between observed changes in water table elevation and discharge suggest that the aquifer responds immediately to influx into the ditch. A rise in water table elevation of at least 0.5 m (1.5 ft) at an average discharge rate of 1,363 L/minute (360 gal/minute) was observed during the 1993 stabilization run. The rise in water table elevation is indicative of a preferential flow path to the groundwater through the Plio-Pleistocene unit. With current Tri-Party Agreement limits of 756 L/minute (250 gal/minute) and actual discharge of 378 L/minute (100 gal/minute) since the end of the 216-U-14 Ditch stabilization run, the mound should shift toward the major sources of discharge in the 200 West Area and drainage should overshadow the influence of discharge at the ditch. Furthermore, as the water table falls, the distance for downward migrating contaminants in the sediment column is increased; so downward travel times for contaminants may also increase.

5.2 CONTAMINANT IMPACTS

Contaminant impacts from the 216-U-14 Ditch are based on (1) model predictions of transport in the vadose zone of radionuclides and Washington water quality contaminants that are elevated and (2) comparison of observed contaminant concentrations in the soil column, perched water zone, and groundwater with the GQC, DCG or background standard as applicable. Modeling of contaminant transport was attempted using one and two-dimensional models: the unit gradient model and PORFLO-3. PORFLO-3 results are reported in Appendix J. The unit gradient transport analysis provides results to assess impact from continued use of the site.

5.2.1 Analytical Technique

The one-dimensional unit gradient method described in the *Liquid Effluent Study Final Project Report* (WHC 1990a) estimates the rate of moisture and contaminant movement through the soil column beneath the 216-U-14 Ditch. The method considers flow only in the vertical direction and does not account for lateral spreading. Thus, calculated contaminant migration rates are considered more conservative (faster) than actual contaminant migration rates.

The method used is based on steady-state flow conditions in the unsaturated zone and assumes a unit hydraulic gradient. The basic equation for any layer of sediments is

$$t = L \times \theta / q \quad (1)$$

where:

- t = time of travel through layer, years
- L = thickness of layer, meters
- θ = moisture content of sediment, related to hydraulic conductivity
- q = Darcy velocity or moisture flux in layer, meters/year.

The total travel time, T, is determined as the summation of the travel times for each of the "i" layers:

$$T = \sum_{i=1}^n L_i \times \theta_i / q_i \quad (2)$$

where n is the number of sediment layers. For transport calculation purposes, the soil column beneath the ditch was treated as a three-layer system of 61 m (200 ft) depth. Figure 36 illustrates the soil column used in the original analytical solution.

Figure 36. Lithology of Well 299-W19-27 at 216-U-14 Ditch (WHC 1990a).

Drilled Depth = 230'
Well Completed 4/87

Logged by Geologist

S9007025.20

The relationship between hydraulic conductivity, K , and moisture content, θ , is described graphically in Figure 37. These curves were derived empirically from laboratory tests on more than 20 different Hanford Site sediment types and established five major sediment types.

The one-dimensional flow analysis embodied in equation 2 was carried out on a computer spreadsheet. The total travel time, T , obtained with equation 2 is divided into the vadose zone thickness to provide an estimate of the rate of moisture migration from the disposal facility to the groundwater.

To obtain an estimate of the rate of contaminant migration, the retardation factor, R_f , for each contaminant identified was estimated from the following approximation for Hanford soils:

$$R_f = 1 + 5K_d \quad (3)$$

Conservative K_d values (i.e., at the lower end of observed ranges) were selected from the Ames and Serne (1991) tabulation for effluent described as "low salt, low organic, and neutral pH." When the rate of moisture migration is divided by the R_f for the contaminant of interest, the result is an estimate of the contaminant migration rate.

The effluent discharge rate was entered as liters per month in the spreadsheet computational method. Effluent volumes through 1987 listed in the *Waste Stream Characterization Report* (WHC 1989), were updated to include 1988 and 1989 data for the Liquid Effluent Study (WHC 1990a; the same average infiltration rate was also assumed for the time period subsequent to 1989). The total volume (liters) was divided by the corresponding operating period (months) to establish an average rate of inflow (L/month). This effluent discharge rate was divided by the ditch area to obtain an estimate of the average infiltration rate. More details and an illustrative example for application of the overall computational approach are provided in the *Liquid Effluent Study Final Project Report* (WHC 1990a).

5.2.2 Results of Initial Analytical Solution

The following discussion summarizes the results from the *Liquid Effluent Study Final Project Report* (WHC 1990a).

Based on general effluent characteristics and corresponding sorption parameters (Section 5.2.1) for the key constituents identified in Tables 9 and 10, the calculated migration rates in the vadose zone were determined. The migration rate is listed below from the most mobile to least mobile contaminant. Input parameters and travel times to the water table are summarized in Table 11. Based on estimated travel times only breakthrough of uranium is expected.

- 7.7 cm/day (3 in./day) for uranium
- 3.1 cm/day (1.2 in./day) for strontium-90
- 0.8 cm/day (0.3 in./day) for plutonium-239
- 0.5 cm/day (0.2 in./day) for cesium-137

Figure 37. Hydraulic Conductivity Versus Moisture Content (WHC 1990a).

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Table 9. Effluent Stream Sampling Data for UO₃/U Plant Wastewater - Key Constituents (WHC 1990a).

Key constituents	Detection limit ^a	Detection/ analyses	Sample concentration (90% CI) ^a	Detection limit ^a	Detection/ analyses	Sample concentration (90% CI) ^a
--	9/85 to 1/87, during routine operation			10/89 to 3/90, during routine operation		
Strontium-90	30	2/NA	1,800	0.1	ND	ND
Plutonium-239	50	19/NA	17	0.001	1/3	0.006 ^b
Uranium (isotopes) ^c	20	46/NA	41	NA	4/4	2.2 ^d
Americium-241	40	1/NA	260	0.001	ND	ND

^aUnits: Chemical = Parts per billion (ppb).

Radionuclides = Picocurie per liter (pCi/L).

^bConcentrations below Group A study guidelines (WHC 1990a, Appendix A); values given for comparison purposes.

^cUranium-234 Group A study guideline used as the most restrictive for determination of key constituents.

^dConsists of 0.16 pCi/L uranium-234, 0.13 pCi/L uranium-235, and 0.87 pCi/L uranium-238.

CI = Confidence interval.

NA = Not available.

ND = Not detected.

Table 10. Effluent Stream Sampling Data for 242-S Evaporator Steam Condensate - Key Constituents (WHC 1990a).

Key constituents	Detection limit ^a	Detection/analyses	Sample concentration (90% CI) ^a	Detection limit ^a	Detection/analyses	Sample concentration (90% CI) ^a
--	10/86 to 5/87, during air sampling pump shutdown mode			10/89 to 3/90, during air sampling pump shutdown mode		
	No chemicals			No chemicals		
	1986 to 1987, during evaporator (1976 to 1980) and shutdown modes (1980 to 1987)			10/89 to 3/90, during air sampling pump shutdown mode		
Cesium-137	80	6/NA	150	1	ND	ND
Strontium-90	30	9/NA	72	0.1	1/2	0.24 ^b
Ruthenium-106	600	1/NA	820	0.5	ND	ND
Cerium-144	NA	1/NA	920	NA	ND	ND
Uranium (isotopes) ^c	20	3/NA	110	NA	3/3	0.32 ^{b,d}

^aUnits: Chemical = Parts per billion (ppb).

Radionuclides = Picocurie per liter (pCi/L).

^bConcentrations below Group A study guidelines (WHC 1990a, Appendix A); values given for comparison purposes.

^cUranium-234 Group A study guideline used as the most restrictive for determination of key constituents.

^dConsists of 0.20 pCi/L uranium-234 and 0.12 pCi/L uranium-238.

CI = Confidence interval.

NA = Not available.

ND = Not detected.

- 0.4 cm/day (0.16 in./day) for ruthenium-106
- 0.2 cm/day (0.08 in./day) for cerium-144
- 0.1 cm/day (0.04 in./day) for americium-241.

5.2.3 Results of Revised Analytical Solution

The one-dimensional unit gradient model is revised to include moisture characteristic curves and the soil profile defined on the basis of recent characterization efforts at the 216-U-14 Ditch. As will be discussed subsequently, the available information provides the opportunity for some sensitivity analyses.

The infiltration rate beneath the 216-U-14 Ditch varies over time because of modifications made to the U Pond disposal facility. Estimated infiltration rates beneath the 216-U-14 Ditch range from 15 to 622 m/yr (1 to 42 gal/day/sq ft). 622 m/yr (42 gal/day/sq ft), as a maximum average infiltration rate, is applicable to the last 8 years or 12% of the operational history of the ditch. 15 m/yr (1 gal/day/sq ft) is applicable from 1944 to 1985. An infiltration rate of 74 m/yr (5 gal/day/sq ft) is applied in the unit gradient model. 74 m/yr (5 gal/day/sq ft) is equal to half the design infiltration capacity of many ponds, ditches, and cribs in the 200 Area. A cross section through the eastern end of the ditch is shown in Figure 38.

Hydrologic properties in the vadose zone are described by moisture characteristic curves, a set of matrix potential versus moisture content, and unsaturated hydraulic conductivity versus moisture content curves. Curves for seven of the zones under investigation are shown in Figures 39 through 44. Regarding the unit gradient model, it is the saturated hydraulic conductivity that is of interest; this is a laboratory determined property that is shown as a point on the upper end of the hydraulic conductivity versus moisture content curve in Figures 39 through 44.

The soil profile representing the 216-U-14 Ditch (Figure 38) is generally based on samples collected from 3 boreholes: 299-W19-91, 299-W19-92, and 299-W19-93. Each borehole has a slightly different soil profile. Therefore, in performing the unit gradient analysis for moisture migration, the soil profile was used from results shown in Tables 12, 13, and 14. The estimated time for moisture to travel from the ditch to the water table ranges from about 117 years at borehole 299-W19-93 to about 165 years at borehole 299-W19-92. Inspection of Tables 12, 13, and 14 indicate that the primary contributor to the estimated travel times is zone 10 with a saturated hydraulic conductivity of 0.05 m/year (0.15 ft/year), accounting for about 111 years of the estimated 117-year travel time for borehole 299-W19-93 and about 160 years of the estimated 165 years for borehole 299-W19-92.

Because determination of the saturated hydraulic conductivity is difficult, several other determinations were used to perform a sensitivity analysis. Results from recent sediment samples from wells on the western end of the ditch yielded estimates of saturated hydraulic conductivities for soils in zone 10 of 0.034 m/year (0.1 ft/year), 12.0 m/year (36 ft/year), and 22.05 m/year (66 ft/year). The latter two estimates are considerably greater than the 0.05 m/year (0.15 ft/year) used in the unit gradient analysis.

Table 11. Initial Analytical Solution Results for the 216-U-14 Ditch From the
Liquid Effluent Study Final Project Report (WHC 1990a).

Table 1.							
--	--	--	--	--	--	--	--

Figure 38. Cross Section Through Wells 299-W19-91, 299-W19-92, and 299-W19-93 at the 216-U-14 Ditch.

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Figure 39. Moisture Characteristic Curves Zones 5 and 6.

Figure 40. Moisture Characteristic Curves Zones 8.

Figure 41. Moisture Characteristic Curves Zones 9.

Figure 42. Moisture Characteristic Curves Zones 10.

3-0822.vgp

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Figure 43. Moisture Characteristic Curves Zones 11.

Figure 44. Moisture Characteristic Curves Zones 12.

Table 12. Revised Unit Gradient Model for the 216-U-14 Ditch
at Well 299-W19-91.

Well 299-19-91 units	Thickness (m)	Hydraulic conductivity at theta (m/year)	Volumetric moisture content	Moisture travel time (years)
Layer 1	3.05	0.72	0.39	1.6510
Layer 3	3.05	0.72	0.19	0.8170
Layer 4	1.52	1.22	0.25	0.3172
Layer 5	6.10	1.17	0.39	2.0320
Layer 7	2.74	8,520.00	0.39	0.0001
Layer 9	6.40	9.28	0.37	0.2520
Layer 10	7.62	0.05	0.43	66.0959
Layer 9	1.52	9.28	0.37	0.0600
Layer 10	9.14	0.05	0.43	79.3151
Layer 11	8.23	1.12	0.40	2.6988
Layer 12	12.63	987.8	0.11	0.00016
Total	--	--	--	153.24 years at 5 gal/day/sq ft

All units except 2, 7, and 12 are saturated.

Table 13. Revised Unit Gradient Model for the 216-U-14 Ditch
at Well 299-W19-92.

Well 299-19-92 units	Thickness (m)	Hydraulic conductivity at theta (m/year)	Volumetric moisture content	Moisture travel time (years)
Layer 1	1.83	0.72	0.19	0.4826
Layer 2	1.22	8,520.00	0.39	0.0001
Layer 4	7.01	1.22	0.25	1.4366
Layer 7	7.01	8,520.00	0.39	0.0003
Layer 9	2.74	9.28	0.37	0.1094
Layer 8	1.52	19.79	0.37	0.0285
Layer 9	1.22	9.28	0.37	0.0486
Layer 10	18.59	0.05	0.43	159.8981
Layer 11	8.23	1.21	0.40	2.7205
Layer 12	15.54	987.80	0.11	0.0017
Total	--	--	--	164.73 years at 5 gal/day/sq ft

All units except 2, 7, and 12 are saturated.

Table 14. Revised Unit Gradient Model for the 216-U-14 Ditch
at Well 299-W19-93.

Well 299-19-93 units	Thickness (m)	Hydraulic conductivity at theta (m/year)	Volumetric moisture content	Moisture travel time (years)
Layer 2	6.10	8,520.00	0.39	0.0003
Layer 3	1.52	0.72	0.19	0.4085
Layer 4	2.74	1.22	0.25	0.5709
Layer 6	5.49	1.17	0.39	1.8288
Layer 7	3.05	8,520.00	0.39	0.0001
Layer 8	1.52	19.79	0.37	0.0284
Layer 9	5.18	9.28	0.37	0.2040
Layer 10	1.83	22.05	0.43	0.0360
Layer 9	2.74	9.28	0.37	0.1080
Layer 10	10.97	22.05	0.43	0.2158
Layer 11	8.23	1.21	0.40	2.6988
Layer 12	14.63	987.80	0.11	0.0016
Totals	64.008	--	--	116.89 years at 5 gal/day/sq ft

All units except 2, 7, and 12 are saturated.

discussed in the previous paragraph. To provide an estimated travel time that would be a lower bound, the unit gradient analysis for borehole 299-W19-93 was repeated using a saturated hydraulic conductivity for zone 10 of 22.05 m/year (66 ft/year) instead of the 0.05 m/year (0.15 ft/year) used previously. As shown in Table 15, this higher conductivity yields an estimated moisture travel time of about 6 years, significantly less than the previously estimated 117 years.

As noted in Section 5.2.1, equation 3, an estimate of contaminant travel times may be developed on the bases of the retardation factor. Using the same retardation factors as used in the Liquid Effluent Study with exception of strontium-90, cobalt-60, and five chemical contaminants, estimates of the travel times for contaminants to reach the water table are determined (see Table 16).

Detergents from the laundry facility were discharged to the 216-U-14 Ditch until 1982. Detergents have been shown to reduce the retardation factor, R_f , in equation 3 and reduce contaminant travel times. The travel times shown in Table 16 are therefore revised in Table 17 to reflect the lower estimates of R_f for selected contaminants in the presence of detergents. Where comparison between revised contaminant travel times (Table 16) and contaminant transport in the presence of detergents (Table 17) can be made, travel times are increased 2 to 15 times. The migration rates using modified retardation factors also correspond better with groundwater data, although travel times based on observation of discharge and plots of uranium-238 and gross alpha concentrations versus time suggest much shorter travel times. The discrepancy exists because model limitations do not account for preferential pathways (e.g., clastic dikes, soil heterogeneities, poor well seals).

5.2.4 Actual Field Conditions and Indications

5.2.4.1 Sediments. Thirteen contaminants were identified in the sediment column that may potentially impact groundwater quality. Potential for impact is based on detection above background or simply detection in the case of manmade chemicals and radionuclides because a standard has not been established. Contaminants detected above background in the sediment column are silver and nickel. Silver and nickel are 1.2 and 2.75 greater than background, respectively. Additional contaminants detected in the sediment column that may potentially impact the underlying groundwater are acetone, aroclor-1254, bis-(ethlyhexyl) phthalate, methyl ethyl ketone, pyridine, tetrahydrofuran, americium-241, cobalt-60, cesium-137, isotopic plutonium, strontium-90, technetium-99, and uranium-238. However, chemical contaminants and technetium-99 generally have a limited distribution (e.g., one detection) in the sediment column. Maximum contaminant levels for sediment column contaminants are given in Chapter 4.0, Tables 6, 7, and 8.

5.2.4.2 Perched Water. Seven contaminants (arsenic, cobalt-60, gross alpha, gross beta, manganese, strontium-90, and uranium-238) were identified in the perched water zone beneath the ditch. Detection of contaminants in the perched water zone is significant as an indicator of the vertical extent of contamination beneath the ditch. Of the six contaminants in the perched water zone all exceed the GQC except manganese and may potentially impact the

Table 15. Revised Unit Gradient Model with High Hydraulic Conductivity for Layer 10 at Well 299-W19-93.

Well 299-19-93 units	Thickness (m)	Hydraulic conductivity at theta (m/year)	Volumetric moisture content	Moisture travel time (years)
Layer 2	6.10	8,520.00	0.39	0.0003
Layer 3	1.52	0.72	0.19	0.4085
Layer 4	2.74	1.22	0.25	0.5709
Layer 6	5.49	1.17	0.39	1.8288
Layer 7	3.05	8,520.00	0.39	0.0001
Layer 8	1.52	19.79	0.37	0.0284
Layer 9	5.18	9.28	0.37	0.2040
Layer 10	1.83	22.05	0.43	0.0360
Layer 9	2.74	9.28	0.37	0.1080
Layer 10	10.97	22.05	0.43	0.2158
Layer 11	8.23	1.21	0.40	2.6988
Layer 12	14.63	987.80	0.11	0.0016
Totals	64.008	--	--	6.10 years at 5 gal/day/sq ft

Table 16. Retardation Factor and Revised Contaminant Travel Times Based on Data in Table 15.

Contaminants	Retardation factor R_f	Transport to water table years
Americium-241	1,000	6,101
Cesium-137	150	915
Cerium-144	500	3,051
Cobalt-60	250	1,525
Plutonium-239	100	610
Ruthenium-106	200	1,220
Strontium-90	125	763
Uranium	10	61
Arsenic	6	37
Aroclor-1254	1	6
Bis-(2-ethylhexyl) phthalate	1	6
Manganese	250	1,525
Silver	150	915

Table 17. Detergent Revised Retardation Factor and Contaminant Travel Times Based on Data in Table 15.

Contaminants	Retardation factor (R_f)	Transport to water table years
Americium-241	100	610
Cesium-137	10	61
Cerium-144*	500	3,051
Cobalt-60	25	152
Plutonium-239	50	305
Ruthenium-106*	200	1,220
Strontium-90	6	37
Uranium	6	37
Arsenic	1	6
Aroclor-1254*	1	6
Bis-(2-ethylhexyl) phthalate*	1	6
Manganese	10	61
Silver*	150	915

*Modified retardation factor not available for these contaminants.

groundwater. Data from the perched water zone, as an early detection system, also indicates that many contaminants identified in Section 5.2.4.1 do not extend to the perching horizons.

5.2.4.3 Groundwater. Three contaminants (arsenic, manganese, and gross alpha) exceed the GQC or DCG at the water table and are associated with the 216-U-14 Ditch. Arsenic was detected on each end of the ditch and is attributed to discharge from the 242-S Evaporator and UO_3/U Plant. Manganese was detected in the groundwater beneath the western end of the ditch and is attributed to discharge from the 242-S Evaporator. Gross alpha was detected on the eastern end of the ditch and is attributed to discharge from UO_3/U Plant. Carbon tetrachloride also exceeds the GQC at the water table; however, the contaminant was not detected in the perched water zone or sediment samples and is therefore not associated with the ditch. In addition, uranium is the primary contaminant of interest at the ditch. The available data indicates that uranium-238 does not exceed the DCG at the water table and was detected at its greater concentration (13.5 pCi/L) in 1987. The highest concentration of uranium-238 detected (11.2 pCi/L) recently was during the 1993 UO_3/U Plant stabilization.

5.2.4.4 Contaminant Impact from Continued Use. Predictions of contaminant travel times to groundwater in Table 17 indicate breakthrough of arsenic, aroclor-1254, bis-(2-ethylhexyl) phthalate, cesium-137, manganese, strontium-90, and uranium should occur at the water table. Evaluation of groundwater water data indicates that breakthrough is only apparent for arsenic, gross alpha associated with uranium, gross beta, and manganese. Breakthrough of aroclor-1254 and bis-(2-ethylhexyl) phthalate may also occur based on detergent revised retardation factors; however, the potential is small because the distribution of these contaminants is limited. The prediction of 61 years for breakthrough of cesium-137 is not a good estimate of travel time because none was detected in the perched water zone. Travel times of 37 and 150 years to the water table may be a close approximation for strontium-90 and cobalt-60, respectively, based on detection observed in the perched water zone. Significant impact by comparison with the GQC from 242-S Evaporator discharge is denoted by the presence of arsenic and manganese at the water table on the western end of the ditch. Arsenic and gross alpha contamination on the eastern end of the ditch exceed the GQC because of UO_3/U Plant discharge.

Information in the preceding paragraph, contaminant trends described in Section 4.3, and the current rate of flow (less than 568 L/minute [150 gal/minute]) into the ditch suggest that contaminant impacts from continued use should be lessened or commensurate in comparison with the current extent of contamination, except for strontium-90 and cobalt-60. Based on the occurrence in the perched zone, strontium-90 may breakthrough to the water table within 15 years. Cobalt-60 may breakthrough within 100 years. However, travel times for strontium-90, cobalt-60, and other contaminants should subsequently increase since discharge to the sediment column will cease in 1995 and depth to the water table will increase. An increase in uranium concentrations is observed over time at the water table and can be generally associated with discharge greater than 568 L/minute (150 gal/minute). As discharge decreases, so should uranium-238 concentrations. Assessment of the

above predictions can only be confirmed by long-term monitoring. Therefore, contaminants identified as elevated should be included in long-term operational groundwater water monitoring strategies.

5.3 EVALUATION OF MONITORING NETWORK ADEQUACY

5.3.1 Groundwater Monitoring Well Placement

5.3.1.1 Adequacy of Groundwater Monitoring Network. Wells in the 216-U-14 Ditch groundwater monitoring network are placed to maximize the potential for detecting contaminants. Perched water monitoring wells intersect the perched water on the downslope side of the ditch and provide adequate coverage for water quality on the eastern and western ends of the ditch. However, the placement of perched wells is not adequate to determine the lateral extent of the perched water zone at the ditch. In addition, perched water monitoring wells also serve as an early warning detection system for the underlying groundwater.

Groundwater monitoring wells provide coverage to assess upgradient and downgradient water quality on the eastern and western ends of the ditch as well as groundwater flow direction. The placement of these wells determine the nature and extent of contamination in the area of the ditch and are used in conjunction with perched water wells to determine impact.

The water table is currently declining at a rate of 0.3 m/year (1 ft/year). With reductions in and eventual termination of discharge schedule in June 1995, the rate of decline will increase and the existing groundwater mound will dissipate. Groundwater flow direction will assume the regional groundwater flow direction to the east. With future changes in groundwater flow direction in the vicinity of the 216-U-14 Ditch, the network should provide adequate coverage for assessments of impact, provided the screen interval in monitoring wells intersect water producing zones.

5.3.2 Reporting of Monitoring Data

All hydrochemical monitoring data are reported in the HEIS database, which is publicly accessible. Groundwater quality at the 216-U-14 Ditch is described in the annual *Westinghouse Hanford Operational Groundwater Status Report* (Johnson 1993b).

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6.0 CONCLUSION

The evaluation of existing and recent data presented in this report leads to the following conclusions about the impacts of discharge to the 216-U-14 Ditch.

The 216-U-14 Ditch is currently used to manage effluent discharge from the 242-S Evaporator and UO_3/U Plant. Before 1985, the ditch also received effluent from six other facilities that were mainly uncharacterized. Because noncontemporary effluent streams were not well characterized and the contaminant burden was periodically reduced by dredging sediments out of the ditch, the radiological and chemical inventory is undetermined.

Hydrologic impacts attributed to effluent discharge are development of perching horizons and maintenance of the 200 West Area groundwater mound. Correlation between discharge and changes in water table elevation suggest a preferential pathway to the water table through fine-grained horizons (e.g., lower Hanford, Plio-Pleistocene unit) beneath the ditch.

Ten Washington water quality contaminants or radionuclides were identified in sediment samples collected during recent data collection efforts that may potentially impact groundwater. Sediment column contaminants are aroclor-1254, bis-(ethlyhexyl) phthalate, silver, americium-241, cesium-137, cobalt-60, isotopic plutonium, strontium-90, technetium-99, and uranium-238. Sediment samples collected indicate that most of the contaminant distribution is within several feet of the ditch bottom. Seven contaminants (arsenic, cobalt-60, gross alpha, gross beta, manganese, strontium-90, and uranium-238) were identified in the perched water zone that may impact groundwater quality.

Operation of the 216-U-14 Ditch contributes contaminants to the 200 West Area groundwater. Five contaminants were detected in the groundwater denoting breakthrough due to operation of the ditch. Groundwater contaminants are arsenic, gross alpha, gross beta, manganese, and uranium-238. Only arsenic, manganese, and gross alpha contamination associated with uranium exceed the assessment criteria at the water table and represent significant impact. Arsenic is linked to discharge from the 242-S Evaporator, UO_3/U Plant, and U Pond. Manganese is linked to 242-S Evaporator discharge. Gross alpha contamination is associated with UO_3/U Plant discharge.

The current mode of operations at the ditch suggest that impacts from continued use should generally be less than or consistent with present contaminant levels, except for strontium-90 and cobalt-60. Strontium-90 may breakthrough to the water table within 15 years. Cobalt-60 may breakthrough within 100 years. Estimates of breakthrough for strontium-90 and cobalt-60 are based on the current depth of the water table and continued discharge of 74 m/yr (5 gal/day/sq ft). Predictions of breakthrough are, therefore, very conservative.

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APPENDIX A
GEOLOGIC SUMMARY AND AS-BUILT

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WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Not documented</u> Driller's Name: <u>L. Bultena</u> Drilling Company: <u>Not documented</u> Date Started: <u>12Mar80</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>25Apr80</u>	WELL NUMBER: <u>299-W18-15</u> TEMPORARY WELL NO: _____ Hanford Coordinates: N/S <u>N 36,990</u> E/W <u>W 77,152</u> State Coordinates: N <u>442,094</u> E <u>2,218,078</u> Start Card #: <u>Not documented</u> T _____ R _____ S _____ Elevation Ground surface (ft): <u>659.5 Estimated</u>	
Depth to water: <u>188-ft Apr80</u> (Ground surface) <u>194.5-ft 07Dec92</u> GENERALIZED STRATIGRAPHY Geologist's Log (Several)		Elevation of reference point: <u>[660.76-ft]</u> (top of casing) Height of reference point above <u>[1.3-ft]</u> ground surface Depth of surface seal <u>[20.0-ft]</u> Type of surface seal: <u>Cement grout around 8-in casing</u> I.D. of surface casing <u>[ND]</u> (If present) 11-in nominal hole to 20-ft I.D. of riser pipe: <u>[8-in]</u> Type of riser pipe: <u>Carbon steel</u> Diameter of borehole: <u>[9-in nom]</u> Set plug at 195-ft Perforated 137-140-ft. Filled hole with cement and pressured with mud pump. Drilled cement out to bottom. Depth top of perforations: <u>[170.0-ft]</u> Description of perforations: <u>Perforations done after pressure grouting of 137-140-ft zone</u> Bottom of perforations: <u>[243-ft]</u> Cement plug 243-248-ft Depth bottom of casing: <u>[248.0-ft]</u> Depth bottom of borehole: <u>[248.0-ft]</u>	
0-8: SAND 8-10: Gravelly SAND 10-14: SAND 14-15: Gravelly SAND 15-20: Silty sandy GRAVEL 20-23: Silty SAND to SAND 23-29: Sandy GRAVEL 29-98: SAND 98-101: Silty SAND 101-105: SAND 105-107: Slightly gravelly silty SAND 107-110: Slightly gravelly SAND 110-115: Sandy GRAVEL (Perched water?) 115-119: SAND 119-131: SILT 131-140: Sandy SILT 140-145: Silty SAND 145-150: Silty sandy GRAVEL 150-155: Sandy COBBLES 155-165: Sandy PEBBLES 165-170: Not documented 170-175: vc mSAND 175-180: Silty sandy GRAVEL (Water at 175-ft) 180-190: Slightly silty SAND (Matrix of GRAVEL?) 190-194: Silty sandy GRAVEL 194-206: Sandy GRAVEL 206-220: Gravelly-sil gravelly SAND 220-225: Slightly silty gravelly SAND 225-230: Silty sandy GRAVEL 230-235: Gravelly silty SAND 235-240: Slightly silty gravelly SAND 240-246: Sandy GRAVEL 246 : Slightly silty SAND			
Drawing By: <u>RKL/2W18-15.ASB</u> Date: <u>19Apr93</u> Reference: <u>HANFORD WELLS</u>

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Fluid Used: <u>Water</u> Driller's Name: <u>Cordon</u> Company: <u>Associated Drilling</u> Date Started: <u>02Apr87</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>01May87</u>	WELL NUMBER: <u>299-W19-27</u> Hanford Coordinates: N/S <u>N 37,629</u> E/W <u>W 75,072</u> State Coordinates: N <u>442,738</u> E <u>2,220,157</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>680.55 Brass cap</u>	
Depth to water: <u>208-ft Apr87</u> (Ground surface) <u>215.0-ft 07Dec92</u>			
GENERALIZED STRATIGRAPHY Geologist's Log		Elevation of reference point: <u>[683.65-ft]</u> (top of 10-in casing) Height of reference point above ground surface <u>[3.10-ft]</u>	
5: Silty, gravelly vf-m SAND 10: Sandy GRAVEL 15: Gravelly SAND 20: Slightly silty SAND 25: Slightly silty sandy GRAVEL 30: Slightly silty vf-m SAND 35: Slightly silty sandy GRAVEL 40: Sandy GRAVEL 45: Slightly silty sandy GRAVEL 50: Silty sandy GRAVEL 55, 60, 65: Sandy GRAVEL 70, 75: Gravelly m-c SAND 80: Slightly gravelly m-c SAND 85: Slightly gravelly f-c SAND 90: f-m SAND 95: Slightly silty vf-f to f-c SAND 100: Silty vf-f SAND, 105: m SAND 110: Slightly silty vf-f SAND 115: vf-f SAND 120: Silty vf SAND-mica. silty vf-f SAND 125: Slightly silty m-c SAND 130: Slightly silty f-m SAND 135, 140: Slightly silty vf-m SAND 145: Sandy SILT to silty vf SAND 150, 155: Silty vf SAND w/CALICHE 160: Slightly silty f-m SAND w/CALICHE 162: No sample (basaltic GRAVEL) 165, 170: Clayey basaltic GRAVEL 175, 180: Sandy GRAVEL (BOULDER @ 180 ft) 185, 190, 195, 200, 205: Slightly silty sandy GRAVEL 210, 215: Slightly silty gravelly SAND 220: Gravelly f-c SAND 225: Slightly silty sandy GRAVEL to slightly silty gravelly SAND 230: GRAVEL		Depth of surface seal <u>[0-21-ft]</u> 6-ft of 10-in casing left in hole Type of surface seal: <u>4-ftx4-ft surface pad</u> <u>Cement grout to 21-ft</u> I.D. of surface casing <u>[10-in]</u> (If present) <u>Pulled</u>	
		11-in nominal hole to 101-ft	
		I.D. of riser pipe: <u>[5-in]</u> Type of riser pipe: <u>Stainless steel</u>	
		Diameter of borehole: <u>[9-in nom]</u>	
		Type of filler: <u>Granular bentonite</u>	
		No plug documented	
		Depth top of sand pack: <u>[ND]</u> <u>8-12 mesh</u>	
		Depth top of screen: <u>[208-ft]</u> <u>5-in, #20-slot</u> <u>stainless steel</u>	
		Depth bottom of screen <u>[228-ft]</u>	
		Depth bottom of borehole: <u>[230-ft]</u>	
Drawing By: <u>RKL/2W19-27.ASB</u> Date: <u>20Apr93</u>			
Reference: <u>HANFORD WELLS</u>			

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Raw water</u> Driller's <u>L Bultena/B Strode</u> Name: <u>D Ludtke/M Thoresen</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>08Nov89</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>None</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Hanford</u> Date Complete: <u>03Jan91</u>	WELL NUMBER: <u>299-W19-32</u> TEMPORARY WELL NO: <u>None</u> Hanford Coordinates: N/S <u>N 37,887</u> E/W <u>W 75,459</u> State NAD83 <u>135,009.29m</u> <u>566,896.55m</u> Coordinates: N <u>442,995</u> E <u>2,219,769</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>671.92</u> Brass cap	
Depth to water: <u>202.4-ft Nov90</u> (Ground surface) <u>206.5-ft 26Mar93</u>			
GENERALIZED Geologist's STRATIGRAPHY Log Sl=slightly			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 0~5: (Not documented) 5~15: Sandy GRAVEL 15~17.5: Gravelly SAND ▲(Drilling stopped 10Nov89)▲ ▼(Drilling resumed, 22Oct90)▼ 17.5~22.5: Gravelly SAND 22.5~23: Sandy SILT 23~41: Sandy GRAVEL 41~43: Gravelly SAND 43~47: Sandy GRAVEL 47~65: Sl gravelly SAND 65~80: SAND 80~85: Sl gravelly SAND 85~90: SAND 90~95: Sl silty SAND 95~110: Sl gravelly SAND 110~132: SAND 132~133: SILT 133~140: Sandy SILT 140~145: SAND 145~150: Sl silty SAND (CALICHE @ 145-ft) 150~200: Sandy GRAVEL 200~223.1: Silty sandy GRAVEL </div> <div style="width: 50%; border-left: 1px solid black; padding-left: 10px;"> <div style="position: relative; height: 500px; margin-bottom: 20px;"> <div style="position: absolute; top: 0; right: 0; text-align: right;"> Elevation of reference point: [<u>674.90-ft</u>] (top of casing) Height of reference point above [<u>2.98-ft</u>] ground surface Depth of surface seal [<u>0~20.3-ft</u>] Type of surface seal: <u>Pre-mix concrete</u> <u>4x4-ft x 6-in surface pad to 3.1-ft</u> <u>4 equidistant protective posts</u> <u>Cement grout, 3.1~20.3-ft</u> </div> <div style="position: absolute; top: 40%; right: 0; text-align: right;"> I.D. of riser pipe: [<u>4-in</u>] Type of riser pipe: <u>Stainless steel</u> </div> <div style="position: absolute; top: 46%; right: 0; text-align: right;"> 8~20-mesh Bentonite crumbles, 20.3~190.0-ft </div> <div style="position: absolute; top: 50%; right: 0; text-align: right;"> Diameter of borehole, 0~140.3-ft, 11-in nominal 135.9~223.1-ft, 9-in nominal </div> </div> <div style="margin-top: 20px;"> Depth top of seal: [<u>190.0-ft</u>] Type of seal: <u>3/8~1/2-in bentonite pellets</u> Depth top of sand pack: [<u>195.4-ft</u>] <u>20~40-mesh silica sand</u> Depth top of screen: [<u>201.7-ft</u>] <u>4-in, #10-slot, stainless steel</u> <u>with channel pack</u> Depth bottom of screen [<u>222.4-ft</u>] Depth to bottom of borehole: [<u>223.1-ft</u>] </div> </div> </div>			
Drawing By: <u>RKL/2W19-32.ASB</u> Date: <u>20Apr93</u>			
Reference: <u>WHC-SD-EN-DP-041</u>			

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Water</u> Driller's Name: <u>Cordon</u> Drilling Company: <u>Associated Drilling</u> Date Started: <u>11Mar87</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>01Apr87</u>	WELL NUMBER: <u>299-W19-91</u> Hanford Coordinates: N/S <u>N 37,617</u> E/W <u>W 75,269</u> State Coordinates: N <u>442,726</u> E <u>2,219,960</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>675.42 Brass cap</u>	
Depth to water: <u>102-ft Apr87</u> (Ground surface) <u>110.6-ft 09Mar93</u>			
GENERALIZED STRATIGRAPHY Geologist's Log 5: Silty gravelly SAND 10: Silty vf SAND to silty, grav. SAND 15, 20: c-vc SAND 25: Silty vf-f SAND 30: Slightly silty sandy GRAVEL 35: Sandy GRAVEL 40, 45: Slightly silty sandy GRAVEL 50: Silty sandy GRAVEL 55: Slightly silty gravelly m-c SAND 60: Gravelly c-vc SAND 63-63.5: Silty vf SAND (very damp) 65: m-c SAND 70: c-vc SAND 72: 2 in silty vf-f SAND (wet) 75: m-c SAND, 80: m SAND 85: Silty vf-f SAND 90: Silty vf-f>slightly silty vf-m SAND 95: Slightly silty vf-m SAND 100: Silty vf-f SAND 105, 110: Slightly silty SAND 115: m-c SAND, (Hit water between 110-115 ft) 120: Silty SAND 125: Silty f-c SAND 130: Silty vf-m SAND 135: Silty vf SAND to sandy SILT 140, 145: Sandy SILT to silty vf SAND 150: Silty vf SAND		<div style="margin-top: 10px;"> Elevation of reference point: [677.90-ft] (top of casing) Height of reference point above [2.48-ft] ground surface Depth of surface seal [0-18-ft] Type of surface seal: <u>Cement grout outside 8-in casing</u> I.D. of surface casing [ND] (If present) I.D. of riser pipe: [8-in] Type of riser pipe: <u>Carbon steel</u> Diameter of borehole to 101-ft: [11-in nom] Type of filler: <u>Granular bentonite</u> Sand plug, top not documented <u>8-12 mesh</u> Bottom 8-in casing [105-ft] Diameter of borehole: [9-in nom] 8-in telescoping screen 109-119-ft, #10-slot, stainless blank section 99-109-ft, 6-in carbon steel w/packer Gravel packed inside telescoping screen Depth bottom of borehole: [150-ft] </div>	
Drawing By: <u>RKL/2W19-91.ASB</u> Date: <u>20Apr93</u> Reference: <u>HANFORD WELLS</u>			

WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Water</u> Driller's Name: <u>Amos</u> Drilling Company: <u>Associated Drilling</u> Date Started: <u>11Mar87</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Not documented</u> Date Complete: <u>01Apr87</u>	WELL NUMBER: <u>299-W19-92</u> Hanford Coordinates: N/S <u>N 37,492</u> E/W <u>W 75,319</u> State Coordinates: N <u>442,600</u> E <u>2,219,910</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>676.0 Estimated</u>
Depth to water: <u>103-ft Apr87</u> (Ground surface) <u>110.0-ft 09Mar93</u>		
GENERALIZED STRATIGRAPHY	Geologist's Log	Diagram and Notes
5: Silty gravelly SAND 10: Sandy GRAVEL 11: 2 in of silty vf-f SAND 15: Slightly gravelly c-vc SAND 20: c-vc SAND, 25: Gravelly c-vc SAND 29: Silty vf-f & silty gravelly m-vc SAND w/CALICHE (wet) 30: Sandy silty GRAVEL 35: Silty vf-f SAND 40: Slightly silty sandy GRAVEL 45: Silty sandy GRAVEL 50, 55: Gravelly c-vc SAND 60: Gravelly c SAND 65, 70: m-c SAND 74-76: Silty vf-f to silty vf SAND 80: f-m SAND, 85: Silty vf-f SAND 90: Silty vf-f SAND 95: Slightly silty m-c SAND 100: Slightly silty vf-m SAND 105: Silty vf-m SAND 110: Slightly silty SAND 115, 120, 125: Slightly silty vf-m SAND (Water at 108.5 ft) 130, 135: Silty vf-m SAND w/SILT 140: Silty vf SAND to sandy SILT 145: Silty vf SAND w/chunks of sandy SILT 150: Sandy SILT		
Drawing By: <u>RKL/2W19-92.ASB</u> Date: <u>20Apr93</u> Reference: <u>HANFORD WELLS</u>		

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Water</u> Driller's Name: <u>Amos</u> Drilling Company: <u>Associated Drilling</u> Date Started: <u>02Apr87</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>20Apr87</u>	WELL NUMBER: <u>299-W19-93</u> Hanford Coordinates: N/S <u>N 37,289</u> E/W <u>W 75,431</u> State Coordinates: N <u>442,397</u> E <u>2,219,798</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>675.0 Estimated</u>	
Depth to water: <u>70-ft Apr87</u> (Ground surface) <u>94.0-ft 09Mar93</u>			
GENERALIZED STRATIGRAPHY Geologist's Log		Elevation of reference point: <u>[677.43-ft]</u> (top of casing) Height of reference point above ground surface <u>[2.45-ft]</u> Depth of surface seal <u>[0-18-ft]</u> Type of surface seal: <u>4-ft by 4-ft surface pad,</u> <u>Cement grout outside 8-in casing</u>	
5: Slightly silty sandy GRAVEL 10: Slightly silty sandy GRAVEL to slightly silty gravelly SAND 15: Slightly gravelly SAND 20: Gravelly c-vc SAND 25: c-vc SAND (Water at 28 ft) 30: Slightly silty gravelly c-vc SAND 35: Silty vf>slightly silty vf-f SAND 40: Slightly silty sandy GRAVEL 44: Silty sandy GRAVEL (very wet) 45: Silty sandy GRAVEL 50: Slightly silty>slightly sandy GRAVEL 55: Silty sandy GRAVEL 60: Gravelly c-vc SAND 65: Silty gravelly SAND (heaving) 70: m-c SAND (saturated) 75: Slightly silty vf-f SAND (wet) 80: m-c SAND, 85: c SAND 90: f-m SAND, 95: Slightly silty SAND 100: f-c SAND, 105: m-c SAND 110: Slightly silty f-c SAND 115, 120: Slightly silty vf-m SAND (stopped drilling because of heaving sand)		I.D. of riser pipe: <u>[8-in]</u> Type of riser pipe: <u>Carbon steel</u> Diameter of borehole to 85-ft: <u>[11-in nom]</u> Type of filler: <u>Granular bentonite</u> Bottom 8-in casing <u>[101-ft]</u> Diameter of borehole: <u>[9-in nom]</u> 8-in telescoping screen 105-115 ft, #10-slot, stainless blank section 95-105-ft, 6-in carbon steel w/packer @-95 ft Depth to bottom, 113.2-ft, 02May91 Depth bottom of borehole: <u>[120-ft]</u>	
Drawing By: <u>RKL/2W19-93.ASB</u> Date: <u>20Apr93</u>			
Reference: <u>HANFORD WELLS</u>			

WELL SUMMARY SHEET		Boring or Well No. 299-W18-33	
		Northing	Easting
		Sheet	1 of 1
Location <u>216-U-14 Ditch</u>		Project <u>W-0152</u>	
Elevation <u>666.0 BC</u>		Drilling Contractor <u>KEH</u>	
Driller <u>KEH-L. Watkins</u>		Drilling Method and Equipment <u>Cable Tool HO-22-5659</u>	
Prepared by <u>M. Mehlhorn</u> <small>(Sign/Print Name)</small>		Reviewed By _____ Date <u>6-28-93</u> <small>(Sign/Print Name)</small>	
CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA
Description	Well Construction	Graphic Log	Lithologic Description
Cement grout 2.5' to 10.2' 17.66' of 16" temporary cs casing set @ 17.11'		10	0-7' Sand
		20	7-25.5' sandy Gravel
		30	25.5-125' Sand
		40	
		50	
		60	
		70	
		80	
		90	
		100	
		110	
		120	
		130	125-146' interbedded sands and silts (Touchet beds)
		140	
		150	146-147' sandy Gravel
		160	147-152' silty sandy Gravel
		170	152-174' sandy Gravel
		180	174-200' silty sandy Gravel
		190	
		200	200.85 Static Water Level
		210	200-207' sandy Gravel
		220	207-231.46 sandy Gravel
		230	Total Depth - 231.46
		240	
		250	
		260	
		270	
		280	
Stainless steel riser 198.47' bgs to 1.3' ags 147.69' of 12" cs temporary casing set @ 146.39' Bentonite crumbles 10.2' to 189.7' 1/4" bentonite pellets 189.7' to 193.4' 20 slot ss screen 198.47' to 228.82' 10-20 silica sand 193.4' to 229.76' 235.00' of 8" cs temporary casing set @ 231.46' Hole slough 229.76' to 231.46' *All cs temporary casing removed from well	28 20 12 8 4 0 4 8 12 20 28 Inches	C/Z S P C/B	

WELL SUMMARY SHEET		Boring or Well No. 299-W18-250	
		North	Easting
		Sheet	1 of 1
Location	216-U-14 Ditch		
Elevation	665.8 BC		
Driller	KEH-L. Watkins		
Prepared by	M. Mehlhorn		
		Project	W-0152
		Drilling Contractor	KEH
		Drilling Method and Equipment	Cable Tool HQ-22-14101
		Reviewed By	Date 5-7-93
CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA
Description	Well Construction		Lithologic Description
			0-7' Sand
		10	7-16' gravelly sand
		20	16-41' sandy Gravel
		30	
		40	41-55' silty Sand
		50	
		60	55-63' Sand
		70	63-67.7' Sand w/silty sand laminations Touchet (?) 63.9' Perched Water Level
		80	
Cement grout 1.51' to 8.6'			
21.58' of 10" cs temporary casing set @ 21.04'			
Stainless steel riser 55.3'bgs to 2.8' ags			
Bentonite crumbles 8.6' to 48.2'			
1/4" bentonite pellets 48.2' to 51.5'			
20-40 silica sand 51.5' to 66.8'			
61.66' of 8" cs temporary casing set @ 59.96			
Hole slough 66.8' to 67.7'			
* All cs temporary casing removed from well			

inches

CZ S P C/B

WELL SUMMARY SHEET		Boring or Well No. 299-W18-251	
		Northing	Easting
		Sheet 1 of 1	
Location <u>216-U-14 Ditch</u>		Project <u>W-0152</u>	
Elevation <u>665.0 BC</u>		Drilling Contractor <u>KEH</u>	
Driller <u>KEH-D. Ludke</u>		Drilling Method and Equipment <u>Cable Tool HO-22-5305</u>	
Prepared by <u>MD Sweeney</u>		Reviewed By _____ Date <u>5-5-93</u>	
(Sign/Print Name)		(Sign/Print Name)	

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Well Construction		Graphic Log	Lithologic Description
Cement grout 1.5' to 10.1'		10		0-8' Sand
20.23' of 10" cs temporary casing set @ 19.96'		20		8-18' pebbly Sand
		30		18-45' sandy Gravel
		40		
		50		45-89' silty Sand
Stainless steel riser 108.6' bgs to 2.55 ags		60		
		70		
		80		
Bentonite crumbles 10.1' to 78.9'		90		89-107' interbedded sands and silts (Touchet beds)
1/4" bentonite pellets 78.9' to 81.9'		100		99.3' Perched Water Level
10 slot ss screen 85.5' to 106.1'		110		107-120' sandy pebble/cobble Gravel
20-40 silica sand 81.9' to 106.3'		120		120-123' coarse Sand
		130		123-128 silty Sand
		140		128-148' silty Sand
Bentonite plug 106.3' to 146.8'		150		148-151' Caliche
155.4' of 8" cs temporary casing set @ 146.7'		160		Total Depth - 151'
Hole slough 151' to 146.8'		170		
		180		

*All cs temporary casing removed from well

Inches

C/Z S P C/B

WELL SUMMARY SHEET		Boring or Well No. 299-W23-16	
		Northing	Easting
		Sheet 1 of 1	
Location <u>216-U-14 Ditch</u>		Project <u>W-0152</u>	
Elevation <u>670.7 BC</u>		Drilling Contractor <u>KEH</u>	
Driller <u>KEH-K. Olsen</u>		Drilling Method and Equipment <u>Cable Tool HO-22-5659</u>	
Prepared by <u>MD Sweeney/DJ Anderson</u>		Reviewed By _____ Date <u>6-15-93</u>	
(Sign/Print Name)		(Sign/Print Name)	

CONSTRUCTION DATA		Depth in Feet	Graphic Log	GEOLOGIC/HYDROLOGIC DATA
Description	Well Construction			Lithologic Description
Cement grout 2.0' to 8.3'		10		0-7' Sand w/pebble lag
18.91' of 16" cs temporary casing set @ 18.31'		20		7-18' slightly silty Sand
		30		18-25 silty sandy Gravel
		40		25-30' Sand
		50		30-47' sandy Gravel
		60		47-51' slightly gravelly sand
		70		51-87' Sand
		80		
		90		87-92' sandy Gravel
Stainless steel riser 202.98' bgs to 1.7' ags		100		92-112.5' Sand (minor silt)
		110		
		120		112.5-125' sandy Gravel
		130		125-153' silty Sand
		140		Touchet (?)
Bentonite crumbles 8.3' to 197.6'		150		
150.79' of 12" cs temporary casing set @ 147.79'		160		153-153.7 Caliche
157.4' of 10" cs temporary casing set @ 155.1'		170		153.7-179 sandy Gravel
		180		
		190		179-204 Gravel
		200		
3/8" bentonite pellets 194.8' to 197.6'		210		204-215' silty sandy Gravel
		220		206' Static Water Level
20 slot ss screen 202.98' to 233.5'		230		215-237' Gravel
10-20 silica sand 233.9' to 197.6'	240			
242.75' of 8" cs temporary casing set @ 236.0'	250	Total Depth - 237' .M = PCB T = 1		
Hole slough 233.7' to 233.9'	260			
*All cs temporary casing removed from well	270			
	280			

inches

C/Z S P C/B

WELL SUMMARY SHEET		Boring or Well No. 299-W23-17	
		Northing	Easting
		Sheet 1 of 1	
Location <u>216-U-14 Ditch</u>		Project <u>W-0152</u>	
Elevation <u>663.0 BC</u>		Drilling Contractor <u>KEH</u>	
Driller <u>KEH-L. Watkins</u>		Drilling Method and Equipment <u>Cable Tool HO-22-5659</u>	
Prepared by <u>M. Mehlhorn</u> <small>(Sign/Print Name)</small>		Reviewed By _____ Date <u>6-11-93</u> <small>(Sign/Print Name)</small>	
CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA
Description	Well Construction	Graphic Log	Lithologic Description
Cement grout 2.0' to 11.0' 20.5' of 16" cs temporary casing set @ 19.85' Stainless steel riser 194.3' bgs to 3.5' ags 150.57' of 12" cs temporary casing set @ 148.87' Bentonite crumbles 11.0' to 186.2' 1/2" bentonite pellets 186.2' to 189.3' 20 slot ss screen 194.3' to 224.4' 10-20 silica sand 189.3' to 232.2' Hole slough 232.2' to 232.8' *All cs temporary casing removed from well			0-12' Sand 12-23' sandy Gravel 23-43' Sand 43-75' slightly silty sand 75-83' Sand 83-115' interbedded silts and silts 115-118' sandy Gravel 118-130' Sand 130-145' sandy Gravel 145-148' Caliche 148-173' sandy Gravel 173-182' silty sandy Gravel 182-192' sandy Gravel 192-195' gravelly Sand 195-204' sandy Gravel 199.06 Static Water Level 204-220' silty sandy Gravel 220-228' sandy Gravel 228-232.8 silty sandy Gravel Total Depth - 232.8' .M = SISPC T = 1
		10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280	
Inches 28 20 12 8 4 0 4 8 12 20 28		C/Z S P C/B	

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Fluid Used: <u>Not documented</u> Driller's Name: <u>Row/Roberts</u> Company: <u>Not documented</u> Date Started: <u>15Apr57</u>	Sample Method: <u>Hard tool (nom)</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>02May57</u>	WELL NUMBER: <u>299-W19-1</u> Hanford Coordinates: N/S <u>N 37,613</u> E/W <u>W 75,491</u> State NAD83 N <u>134,925.91m</u> E <u>566,887.27m</u> Coordinates: N <u>442,721</u> E <u>2,219,738</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>672.17 Brass capped</u>	
Depth to water: <u>204-ft May57</u> (Ground surface) <u>Dry 08Dec92</u>			
GENERALIZED STRATIGRAPHY Driller's Log
0-10: TOP SOIL, SAND, GRAVEL & SILT 10-25: GRAVEL & BOULDERS 25-30: SAND, GRAVEL & SILT 30-40: GRAVEL 40-45: SAND & GRAVEL 45-50: GRAVEL 50-55: GRAVEL & SAND 55-70: SAND & SILT 70-75: SAND, GRAVEL & SILT 75-150: SAND & SILT 150-155: SILT, SAND, CALICHE & GRAVEL 155-198: GRAVEL & SAND 198-210: SAND, BOULDERS & GRAVEL 210-215: SAND & GRAVEL 215-230: SAND, GRAVEL & SILT 230-240: GRAVEL, SAND, SILT & CONGLOMERATION 240-245: BOULDERS, GRAVEL, SAND, SILT & CONGLOMERATION 245-260: SAND & GRAVEL 260-275: SAND, GRAVEL & SILT 275-285: MUCK 285-301: SAND & GRAVEL		Elevation of reference point: <u>[673.77-ft]</u> (top of casing) Height of reference point above ground surface: <u>[1.60-ft]</u> Depth of surface seal: <u>[ND]</u> Type of surface seal: <u>None documented</u> I.D. of surface casing (if present): <u>[ND]</u> I.D. of riser pipe: <u>[8 in]</u> Type of riser pipe: <u>Carbon steel</u> Diameter of borehole: <u>[9-in]</u> Type of filler: <u>Not documented</u> Elevation/depth top of seal: <u>Not documented</u> Type of seal: <u>Not documented</u> Depth top of perforations: <u>[178-ft]</u> Description of perforations: <u>1 hole/ft</u> Depth to bottom, 205.8-ft, 07Jan93 Fill to ~206-ft No cement plug documented Depth bottom of perforations: <u>[299-ft]</u> Depth bottom of casing: <u>[301-ft]</u> Depth bottom of borehole: <u>[301-ft]</u>	
DRILLER NOTE: Sand heaved back to 287-ft			
Drawing By: <u>RKL/2W19-01.ASB</u> Date: <u>19Apr93</u> Reference: <u>HANFORD WELLS</u>			

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Water</u> Driller's Name: <u>Garcia</u> Drilling Company: <u>Onwego Drilling</u> Date Started: <u>21May86</u>	Sample Drive barrel Method: <u>Hard tool</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Kennewick, WA</u> Date Complete: <u>10Jun86</u>	WELL NUMBER: <u>299-W19-22</u> TEMPORARY WELL NO: _____ Hanford Coordinates: N/S <u>N 37,628</u> E/W <u>W 74,796</u> State Coordinates: N <u>442,738</u> E <u>2,220,433</u> Start Card #: <u>Not documented</u> T _____ R _____ S _____ Elevation Ground surface (ft): <u>686.14 Brass cap</u>	
Depth to water: <u>Dry Jun86</u> (Ground surface) <u>Dry 09Mar93</u>			
GENERALIZED Geologist's STRATIGRAPHY Log Summarization of % fractions			
0-3: Gravelly vf-c SAND 3-5: vf-m SAND 6-8: vf-c SAND 8-10: Sandy GRAVEL 13-15: Slightly gravelly f-m SAND 15-20: Variable, vf SAND to GRAVEL 25,30: Slightly gravelly f-c SAND 35: Slightly silty vf-f SAND 40,45: Slightly silty, gravelly SAND 50: Gravelly SAND 55: Slightly gravelly SAND 58: Layer of silty/clayey GRAVEL, wet 60,65,70: Silty, sandy GRAVEL 75: Sandy GRAVEL to gravelly SAND 78,85: f-c SAND 85: f-c SAND 88: Clayey SILT lens alternating w/lenses of silty vf-f SAND 95& 96-99: vf-c SAND 102-104: vf SAND 104 : c-vc SAND 110,115: f-c SAND 120 : Mostly silty vf SAND 123 : f-vc SAND 130,135: m-c SAND 140-142: SILT/vfSAND			
Drawing By: <u>RKL/2W19-22.ASB</u> Date: <u>20Apr93</u>			
Reference: <u>HANFORD WELLS</u>			

APPENDIX B
SOIL PROPERTY DATA*

*Moisture retention data is included in Chapter 5.

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0998	N/A	215.8-216.3	299-W18-33	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	31.4
3-1079	N/A	5	299-W18-33	N/R	N/R	N/R	N/R	6.86	N/R	N/R	<1	N/R
3-1080-1	N/A	10	299-W18-33	N/R	N/R	N/R	N/R	2.34	N/R	N/R	<1	N/R
3-1080-2	N/A	10	299-W18-33	N/R	N/R	N/R	N/R	N/R	N/R	N/R	<1	30.3
3-1081	N/A	15	299-W18-33	N/R	N/R	N/R	N/R	2.11	N/R	N/R	<1	N/R
3-1082	N/A	20	299-W18-33	N/R	N/R	N/R	N/R	2.22	N/R	N/R	<1	N/R
3-1083	N/A	25	299-W18-33	N/R	N/R	N/R	N/R	2.42	N/R	N/R	<1	N/R
3-1084	N/A	25.5-26	299-W18-33	N/R	N/R	N/R	N/R	2.81	N/R	N/R	<1	N/R
3-1085	N/A	26-26.5	299-W18-33	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	65.4
3-1086	N/A	30	299-W18-33	N/R	N/R	N/R	N/R	4.69	N/R	N/R	<1	N/R
3-1087	N/A	35	299-W18-33	N/R	N/R	N/R	N/R	6.93	N/R	N/R	<1	N/R
3-1088	N/A	39.8	299-W18-33	N/R	N/R	N/R	N/R	5.42	N/R	N/R	<1	N/R
3-1089-1	N/A	43	299-W18-33	N/R	N/R	N/R	N/R	5.67	N/R	N/R	<1	N/R
3-1089-2	N/A	43	299-W18-33	N/R	N/R	N/R	N/R	6.72	N/R	N/R	1.0	N/R
3-1089-3	N/A	43	299-W18-33	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	85.2
3-1090	N/A	45	299-W18-33	N/R	N/R	N/R	N/R	7.92	N/R	N/R	<1	N/R
3-1091	N/A	50	299-W18-33	N/R	N/R	N/R	N/R	5.11	N/R	N/R	<1	N/R
3-1092	N/A	55	299-W18-33	N/R	N/R	N/R	N/R	2.58	N/R	N/R	<1	N/R
3-1093	N/A	57	299-W18-33	N/R	N/R	N/R	N/R	2.62	N/R	N/R	<1	N/R
3-1094	N/A	60	299-W18-33	N/R	N/R	N/R	N/R	2.70	N/R	N/R	1.0	N/R
3-1095	N/A	65	299-W18-33	N/R	N/R	N/R	N/R	2.53	N/R	N/R	<1	N/R
3-1096	N/A	70	299-W18-33	N/R	N/R	N/R	N/R	3.73	N/R	N/R	1.0	N/R
3-1097	N/A	75	299-W18-33	N/R	N/R	N/R	N/R	4.40	N/R	N/R	1.15	N/R
3-1098	N/A	80	299-W18-33	N/R	N/R	N/R	N/R	2.84	N/R	N/R	1.5	N/R
3-1099	N/A	85	299-W18-33	N/R	N/R	N/R	N/R	6.07	N/R	N/R	<1	N/R
3-1100	N/A	90	299-W18-33	N/R	N/R	N/R	N/R	3.86	N/R	N/R	1.0	N/R
3-1101	N/A	95	299-W18-33	N/R	N/R	N/R	N/R	4.86	N/R	N/R	1.0	N/R
3-1102	N/A	100	299-W18-33	N/R	N/R	N/R	N/R	6.32	N/R	N/R	1.0	N/R
3-1103	N/A	105	299-W18-33	N/R	N/R	N/R	N/R	7.87	N/R	N/R	1.0	N/R
3-1104	N/A	110	299-W18-33	N/R	N/R	N/R	N/R	10.12	N/R	N/R	1.5	N/R

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-1105	N/A	115	299-W18-33	N/R	N/R	N/R	N/R	6.89	N/R	N/R	1.5	N/R
3-1106	N/A	120	299-W18-33	N/R	N/R	N/R	N/R	8.86	N/R	N/R	1.8	N/R
3-1107	N/A	125	299-W18-33	N/R	N/R	N/R	N/R	10.06	N/R	N/R	1.5	N/R
3-1108	N/A	130	299-W18-33	N/R	N/R	N/R	N/R	15.52	N/R	N/R	3.15	N/R
3-1109	N/A	135	299-W18-33	N/R	N/R	N/R	N/R	9.85	N/R	N/R	1.65	N/R
3-1110	N/A	139.5	299-W18-33	N/R	N/R	N/R	N/R	13.92	N/R	N/R	1.8	N/R
3-1111	N/A	146	299-W18-33	N/R	N/R	N/R	N/R	13.22	N/R	N/R	5.4	N/R
3-1112	N/A	150	299-W18-33	N/R	N/R	N/R	N/R	15.26	N/R	N/R	1.2	N/R
3-1113	N/A	154.5	299-W18-33	N/R	N/R	N/R	N/R	2.93	N/R	N/R	<1	N/R
3-1114	N/A	160	299-W18-33	N/R	N/R	N/R	N/R	6.29	N/R	N/R	<1	N/R
3-1115	N/A	165	299-W18-33	N/R	N/R	N/R	N/R	14.75	N/R	N/R	<1	N/R
3-1116	N/A	170	299-W18-33	N/R	N/R	N/R	N/R	3.14	N/R	N/R	<1	N/R
3-1117	N/A	174	299-W18-33	N/R	N/R	N/R	N/R	3.09	N/R	N/R	<1	N/R
3-1118	N/A	180	299-W18-33	N/R	N/R	N/R	N/R	6.75	N/R	N/R	<1	N/R
3-1119	N/A	185	299-W18-33	N/R	N/R	N/R	N/R	14.0	N/R	N/R	<1	N/R
3-1120	N/A	190	299-W18-33	N/R	N/R	N/R	N/R	13.81	N/R	N/R	<1	N/R
3-1121	N/A	195	299-W18-33	N/R	N/R	N/R	N/R	18.28	N/R	N/R	<1	N/R
3-1122	N/A	200	299-W18-33	N/R	N/R	N/R	N/R	23.01	N/R	N/R	<1	N/R
3-1123	N/A	205	299-W18-33	N/R	N/R	N/R	N/R	18.05	N/R	N/R	<1	N/R
3-1124	N/A	210	299-W18-33	N/R	N/R	N/R	N/R	32.10	N/R	N/R	<1	N/R
3-1125	N/A	215.3-215.8	299-W18-33	N/R	N/R	N/R	N/R	7.25	N/R	N/R	<1	N/R
3-1126	N/A	220	299-W18-33	N/R	N/R	N/R	N/R	23.07	N/R	N/R	<1	N/R
3-1127	N/A	225	299-W18-33	N/R	N/R	N/R	N/R	28.28	N/R	N/R	<1	N/R
3-1128	N/A	230	299-W18-33	N/R	N/R	N/R	N/R	50.5	N/R	N/R	<1	N/R
3-1129-1	N/A	108.1-108.6	299-W18-33	3.8E-05	2.71	N/A	N/A	4.68	42.47	1.56	1.0	100
3-1129-2	N/A	108.6-109.1	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1129-3	N/A	109.1-109.6	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1130-1	N/A	129.75-130.25	299-W18-33	5.5E-06	2.70	N/A	N/A	11.1	41.49	1.58	1.6	100
3-1130-2	N/A	130.25-130.75	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1130-3	N/A	130.75-131.25	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1131-1	N/A	145.5-146	299-W18-33	2.58E-3	2.48	2.69	2.57	7.74	32.25	1.79	7.9	40.9

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WELL #299-W18-33

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-1131-2	N/A	146.5-147	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1131-3	N/A	147-147.5	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1132-1	N/A	170	299-W18-33	4.08E-03	2.29	2.69	2.52	4.13	31.24	1.91	<1	61.0
3-1132-2	N/A	170-170.5	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1132-3	N/A	170.5-171	299-W18-33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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WELL #299-W18-250

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0721	n/a	5	299-W18-250	N/R	N/R	N/R	N/R	8.70	N/R	N/R	1.3	
3-0722	n/a	10	299-W18-250	N/R	N/R	N/R	N/R	2.81	N/R	N/R	<1	
3-0723	n/a	15	299-W18-250	N/R	N/R	N/R	N/R	3.27	N/R	N/R	<1	
3-0724	n/a	20	299-W18-250	N/R	N/R	N/R	N/R	2.70	N/R	N/R	<1	
3-0725	n/a	30	299-W18-250	N/R	N/R	N/R	N/R	3.40	N/R	N/R	<1	
3-0726	n/a	35	299-W18-250	N/R	N/R	N/R	N/R	4.94	N/R	N/R	<1	
3-0727	n/a	40	299-W18-250	N/R	N/R	N/R	N/R	4.87	N/R	N/R	<1	
3-0728	n/a	41	299-W18-250	N/R	N/R	N/R	N/R	14.57	N/R	N/R	<1	
3-0729	n/a	45	299-W18-250	N/R	N/R	N/R	N/R	17.24	N/R	N/R	<1	
3-0730	n/a	50	299-W18-250	N/R	N/R	N/R	N/R	21.05	N/R	N/R	1.5	
3-0731	n/a	55	299-W18-250	N/R	N/R	N/R	N/R	12.06	N/R	N/R	<1	
3-0732	n/a	60	299-W18-250	N/R	N/R	N/R	N/R	8.82	N/R	N/R	<1	
3-0733	n/a	65	299-W18-250	N/R	N/R	N/R	N/R	31.55	N/R	N/R	1.6	
3-0734		66.1-66.6	299-W18-250	N/R	N/R	N/R	N/R	15.27	N/R	N/R	1.0	
3-0735-1	n/a	24.6	299-W18-250	N/R	N/R	N/R	N/R	3.15	N/R	N/R	<1	
3-0735-2	n/a	24.6	299-W18-250	N/R	N/R	N/R	N/R	N/A	N/R	N/R	N/A	
3-0736-1	n/a	50-50.5	299-W18-250	N/R	N/R	N/R	N/R	N/A	N/R	N/R	N/A	
3-0736-2	n/a	50.5-51	299-W18-250	N/R	N/R	N/R	N/R	11.68	N/R	N/R	1.3	
3-0737-1		66.1-66.6	299-W18-250	N/R	N/R	N/R	N/R	N/A	N/R	N/R	N/A	
3-0737-2		66.6-67.1	299-W18-250	N/R	N/R	N/R	N/R	N/A	N/R	N/R	N/A	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0788	N/A	5	299-W18-251	N/R	N/R	N/R	N/R	8.08	N/R	N/R	2.3	
3-0789	N/A	10	299-W18-251	N/R	N/R	N/R	N/R	17.28	N/R	N/R	1.0	
3-0790	N/A	15	299-W18-251	N/R	N/R	N/R	N/R	3.32	N/R	N/R	<1	
3-0791	N/A	20	299-W18-251	N/R	N/R	N/R	N/R	3.32	N/R	N/R	<1	
3-0792	N/A	25	299-W18-251	N/R	N/R	N/R	N/R	3.75	N/R	N/R	<1	
3-0793	N/A	30	299-W18-251	N/R	N/R	N/R	N/R	3.45	N/R	N/R	<1	
3-0794	N/A	35	299-W18-251	N/R	N/R	N/R	N/R	4.94	N/R	N/R	<1	
3-0795	N/A	40	299-W18-251	N/R	N/R	N/R	N/R	3.13	N/R	N/R	<1	
3-0796	N/A	45	299-W18-251	N/R	N/R	N/R	N/R	3.88	N/R	N/R	<1	
3-0797	N/A	46	299-W18-251	N/R	N/R	N/R	N/R	5.91	N/R	N/R	<1	
3-0798-1	N/A	50	299-W18-251	N/R	N/R	N/R	N/R	11.6	N/R	N/R	<1	
3-0798-2	N/A	50	299-W18-251	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
3-0799	N/A	55	299-W18-251	N/R	N/R	N/R	N/R	7.34	N/R	N/R	<1	
3-0800	N/A	60	299-W18-251	N/R	N/R	N/R	N/R	6.34	N/R	N/R	<1	
3-0801	N/A	65	299-W18-251	N/R	N/R	N/R	N/R	10.81	N/R	N/R	<1	
3-0802	N/A	70	299-W18-251	N/R	N/R	N/R	N/R	4.68	N/R	N/R	<1	
3-0803	N/A	75	299-W18-251	N/R	N/R	N/R	N/R	7.07	N/R	N/R	<1	
3-0804	N/A	80	299-W18-251	N/R	N/R	N/R	N/R	4.49	N/R	N/R	<1	
3-0805	N/A	85	299-W18-251	N/R	N/R	N/R	N/R	5.54	N/R	N/R	<1	
3-0806	N/A	90	299-W18-251	N/R	N/R	N/R	N/R	15.00	N/R	N/R	<1	
3-0807	N/A	95	299-W18-251	N/R	N/R	N/R	N/R	15.17	N/R	N/R	1.3	
3-0808-1	N/A	98.5-99	299-W18-251	N/R	N/R	N/R	N/R	22.35	N/R	N/R	<1	
3-0808-2	N/A	98.5-99	299-W18-251	N/R	N/R	N/R	N/R	N/A	N/R	N/R	N/A	
3-0809	N/A	100	299-W18-251	N/R	N/R	N/R	N/R	16.25	N/R	N/R	1.3	
3-0810	N/A	105	299-W18-251	N/R	N/R	N/R	N/R	21.37	N/R	N/R	<1	
3-0811	N/A	107	299-W18-251	N/R	N/R	N/R	N/R	5.94	N/R	N/R	<1	
3-0812	N/A	110	299-W18-251	N/R	N/R	N/R	N/R	5.11	N/R	N/R	<1	
3-0813	N/A	115	299-W18-251	N/R	N/R	N/R	N/R	2.93	N/R	N/R	<1	
3-0814	N/A	120	299-W18-251	N/R	N/R	N/R	N/R	3.20	N/R	N/R	<1	
3-0815	N/A	125	299-W18-251	N/R	N/R	N/R	N/R	7.18	N/R	N/R	1.8	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0816	N/A	130	299-W18-251	N/R	N/R	N/R	N/R	15.74	N/R	N/R	2.3	
3-0817	N/A	135	299-W18-251	N/R	N/R	N/R	N/R	19.57	N/R	N/R	2.3	
3-0818	N/A	140	299-W18-251	N/R	N/R	N/R	N/R	24.79	N/R	N/R	1.5	
3-0819	N/A	145	299-W18-251	N/R	N/R	N/R	N/R	22.39	N/R	N/R	2.0	
3-0820	N/A	150	299-W18-251	N/R	N/R	N/R	N/R	9.31	N/R	N/R	1.0	
3-0821	N/A	151	299-W18-251	N/R	N/R	N/R	N/R	11.91	N/R	N/R	7.3	
3-0822	N/A	97-97.5	299-W18-251	1.09E-07	2.73	N/R	N/R	19.81	36.14	1.74	N/R	
3-0823	N/A	150-150.5	299-W18-251	2.75E-04	2.66	2.42	2.54	7.7	31.78	1.81	1.0	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0965	N/A	232	299-W23-16	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	39.3
3-1029	N/A	5	299-W23-16	N/R	N/R	N/R	N/R	5.63	N/R	N/R	<1	
3-1030-1	N/A	10	299-W23-16	N/R	N/R	N/R	N/R	2.75	N/R	N/R	<1	
3-1030-2	N/A	10	299-W23-16	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	94.0
3-1031	N/A	15	299-W23-16	N/R	N/R	N/R	N/R	2.41	N/R	N/R	<1	
3-1032	N/A	20	299-W23-16	N/R	N/R	N/R	N/R	2.78	N/R	N/R	<1	
3-1033-1	N/A	25	299-W23-16	N/R	N/R	N/R	N/R	5.22	N/R	N/R	<1	
3-1033-2	N/A	25	299-W23-16	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	100.0
3-1034	N/A	30	299-W23-16	N/R	N/R	N/R	N/R	6.75	N/R	N/R	<1	
3-1035	N/A	35	299-W23-16	N/R	N/R	N/R	N/R	3.28	N/R	N/R	<1	
3-1036	N/A	40	299-W23-16	N/R	N/R	N/R	N/R	2.90	N/R	N/R	<1	
3-1037	N/A	45	299-W23-16	N/R	N/R	N/R	N/R	3.13	N/R	N/R	<1	
3-1038-1	N/A	50	299-W23-16	N/R	N/R	N/R	N/R	3.80	N/R	N/R	<1	
3-1038-2	N/A	50	299-W23-16	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	100.0
3-1039	N/A	55	299-W23-16	N/R	N/R	N/R	N/R	8.23	N/R	N/R	1.2	
3-1040	N/A	60	299-W23-16	N/R	N/R	N/R	N/R	8.94	N/R	N/R	<1	
3-1041	N/A	65	299-W23-16	N/R	N/R	N/R	N/R	8.76	N/R	N/R	<1	
3-1042	N/A	70	299-W23-16	N/R	N/R	N/R	N/R	5.68	N/R	N/R	1.0	
3-1043	N/A	75	299-W23-16	N/R	N/R	N/R	N/R	6.45	N/R	N/R	<1	
3-1044	N/A	76	299-W23-16	N/R	N/R	N/R	N/R	18.99	N/R	N/R	1.5	
3-1045	N/A	80	299-W23-16	N/R	N/R	N/R	N/R	5.54	N/R	N/R	<1	
3-1046	N/A	85	299-W23-16	N/R	N/R	N/R	N/R	7.27	N/R	N/R	2.0	
3-1047	N/A	90	299-W23-16	N/R	N/R	N/R	N/R	3.40	N/R	N/R	1.0	
3-1048	N/A	95	299-W23-16	N/R	N/R	N/R	N/R	22.52	N/R	N/R	1.3	
3-1049	N/A	100	299-W23-16	N/R	N/R	N/R	N/R	13.07	N/R	N/R	1.4	
3-1050	N/A	105	299-W23-16	N/R	N/R	N/R	N/R	22.45	N/R	N/R	1.5	
3-1051	N/A	110	299-W23-16	N/R	N/R	N/R	N/R	16.94	N/R	N/R	1.2	
3-1052	N/A	115	299-W23-16	N/R	N/R	N/R	N/R	18.64	N/R	N/R	2.0	
3-1053	N/A	120	299-W23-16	N/R	N/R	N/R	N/R	15.54	N/R	N/R	1.8	
3-1054	N/A	125	299-W23-16	N/R	N/R	N/R	N/R	14.12	N/R	N/R	<1	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-1055	N/A	130	299-W23-16	N/R	N/R	N/R	N/R	26.47	N/R	N/R	1.9	
3-1056	N/A	135	299-W23-16	N/R	N/R	N/R	N/R	22.82	N/R	N/R	2.4	
3-1057	N/A	140	299-W23-16	N/R	N/R	N/R	N/R	21.29	N/R	N/R	1.8	
3-1058	N/A	145	299-W23-16	N/R	N/R	N/R	N/R	21.64	N/R	N/R	2.4	
3-1059	N/A	150	299-W23-16	N/R	N/R	N/R	N/R	23.13	N/R	N/R	2.7	
3-1060	N/A	154	299-W23-16	N/R	N/R	N/R	N/R	21.90	N/R	N/R	9.3	
3-1061	N/A	160	299-W23-16	N/R	N/R	N/R	N/R	5.42	N/R	N/R	2.8	
3-1062	N/A	165	299-W23-16	N/R	N/R	N/R	N/R	3.70	N/R	N/R	<1	
3-1063	N/A	170	299-W23-16	N/R	N/R	N/R	N/R	4.92	N/R	N/R	<1	
3-1064	N/A	175	299-W23-16	N/R	N/R	N/R	N/R	4.55	N/R	N/R	<1	
3-1065	N/A	180	299-W23-16	N/R	N/R	N/R	N/R	4.99	N/R	N/R	<1	
3-1066	N/A	185	299-W23-16	N/R	N/R	N/R	N/R	14.98	N/R	N/R	<1	
3-1067	N/A	190	299-W23-16	N/R	N/R	N/R	N/R	14.47	N/R	N/R	<1	
3-1068	N/A	195	299-W23-16	N/R	N/R	N/R	N/R	17.28	N/R	N/R	<1	
3-1069	N/A	200	299-W23-16	N/R	N/R	N/R	N/R	14.43	N/R	N/R	<1	
3-1070	N/A	210	299-W23-16	N/R	N/R	N/R	N/R	24.55	N/R	N/R	<1	
3-1071	N/A	215	299-W23-16	N/R	N/R	N/R	N/R	61.71	N/R	N/R	<1	
3-1072	N/A	220	299-W23-16	N/R	N/R	N/R	N/R	25.34	N/R	N/R	<1	
3-1073	N/A	225	299-W23-16	N/R	N/R	N/R	N/R	22.24	N/R	N/R	<1	
3-1074	N/A	230	299-W23-16	N/R	N/R	N/R	N/R	21.80	N/R	N/R	<1	
3-1075	N/A	232	299-W23-16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-1076	N/A	235	299-W23-16	N/R	N/R	N/R	N/R	20.87	N/R	N/R	<1	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0859	N/A	217.8-218.3	299-W23-17	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
3-0908	N/A	5	299-W23-17	N/R	N/R	N/R	N/R	9.54	N/R	N/R	3.0	
3-0909-1	N/A	10	299-W23-17	N/R	N/R	N/R	N/R	10.74	N/R	N/R	<1	
3-0909-2	N/A	10	299-W23-17	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	92.1
3-0910	N/A	15	299-W23-17	N/R	N/R	N/R	N/R	2.47	N/R	N/R	1.5	
3-0911	N/A	20	299-W23-17	N/R	N/R	N/R	N/R	2.25	N/R	N/R	1.3	
3-0912	N/A	25	299-W23-17	N/R	N/R	N/R	N/R	16.41	N/R	N/R	<1	
3-0913	N/A	25.1-25.6	299-W23-17	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	99.6
3-0914	N/A	26.6-27.1	299-W23-17	N/R	N/R	N/R	N/R	6.11	N/R	N/R	<1	
3-0915	N/A	30	299-W23-17	N/R	N/R	N/R	N/R	2.92	N/R	N/R	<1	
3-0916	N/A	35	299-W23-17	N/R	N/R	N/R	N/R	3.14	N/R	N/R	<1	
3-0917	N/A	40	299-W23-17	N/R	N/R	N/R	N/R	4.25	N/R	N/R	<1	
3-0918	N/A	44	299-W23-17	N/R	N/R	N/R	N/R	17.70	N/R	N/R	<1	
3-0919-1	N/A	44.8	299-W23-17	N/R	N/R	N/R	N/R	6.14	N/R	N/R	<1	
3-0919-2	N/A	44.8-45.3	299-W23-17	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	99.6
3-0920	N/A	50	299-W23-17	N/R	N/R	N/R	N/R	6.14	N/R	N/R	<1	
3-0921	N/A	55	299-W23-17	N/R	N/R	N/R	N/R	5.54	N/R	N/R	<1	
3-0922	N/A	60	299-W23-17	N/R	N/R	N/R	N/R	9.01	N/R	N/R	<1	
3-0923	N/A	65	299-W23-17	N/R	N/R	N/R	N/R	10.99	N/R	N/R	<1	
3-0924	N/A	70	299-W23-17	N/R	N/R	N/R	N/R	4.54	N/R	N/R	<1	
3-0925	N/A	75	299-W23-17	N/R	N/R	N/R	N/R	10.52	N/R	N/R	<1	
3-0926	N/A	80	299-W23-17	N/R	N/R	N/R	N/R	9.11	N/R	N/R	<1	
3-0927	N/A	83	299-W23-17	N/R	N/R	N/R	N/R	21.40	N/R	N/R	1.3	
3-0928	N/A	84.2-84.7	299-W23-17	6.99E-05	2.78	N/A	N/A	11.73	40.37	1.66	1.5	
3-0929	N/A	84.7-85.2	299-W23-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3-0930	N/A	85.2-85.7	299-W23-17	N/R	N/R	N/R	N/R	19.0	N/R	N/R	1.5	
3-0931	N/A	90	299-W23-17	N/R	N/R	N/R	N/R	5.40	N/R	N/R	<1	
3-0932	N/A	95	299-W23-17	N/R	N/R	N/R	N/R	16.03	N/R	N/R	<1	
3-0933	N/A	100	299-W23-17	N/R	N/R	N/R	N/R	13.84	N/R	N/R	<1	
3-0934	N/A	105	299-W23-17	N/R	N/R	N/R	N/R	23.26	N/R	N/R	1.0	

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Sample No.	HEIS No.	Depth	Well No.	Sat K (cm/s)	SpG/F	SpG/C	SpG/Avg	Mois (%)	Por (%)	Den/D (g/cc)	CC (%)	Fines -10(%)
3-0935	N/A	110	299-W23-17	N/R	N/R	N/R	N/R	22.81	N/R	N/R	1.0	
3-0936	N/A	115	299-W23-17	N/R	N/R	N/R	N/R	3.12	N/R	N/R	<1	
3-0937	N/A	118	299-W23-17	N/R	N/R	N/R	N/R	16.42	N/R	N/R	<1	
3-0938	N/A	120	299-W23-17	N/R	N/R	N/R	N/R	16.34	N/R	N/R	1.0	
3-0939	N/A	125	299-W23-17	N/R	N/R	N/R	N/R	18.39	N/R	N/R	<1	
3-0940	N/A	130	299-W23-17	N/R	N/R	N/R	N/R	17.03	N/R	N/R	<1	
3-0941	N/A	135	299-W23-17	N/R	N/R	N/R	N/R	23.03	N/R	N/R	1.8	
3-0942	N/A	140	299-W23-17	N/R	N/R	N/R	N/R	21.25	N/R	N/R	1.8	
3-0943	N/A	145	299-W23-17	N/R	N/R	N/R	N/R	19.31	N/R	N/R	1.8	
3-0944	N/A	149.8-150.3	299-W23-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3-0945	N/A	150.3-150.8	299-W23-17	6.1E-04	2.78	2.61	2.64	4.18	24.66	2.09	6.3	
3-0946	N/A	150.8-151.3	299-W23-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3-0947	N/A	155	299-W23-17	N/R	N/R	N/R	N/R	5.40	N/R	N/R	<1	
3-0948	N/A	160	299-W23-17	N/R	N/R	N/R	N/R	34.29	N/R	N/R	<1	
3-0949	N/A	165	299-W23-17	N/R	N/R	N/R	N/R	28.97	N/R	N/R	<1	
3-0950	N/A	170	299-W23-17	N/R	N/R	N/R	N/R	17.53	N/R	N/R	<1	
3-0951	N/A	175	299-W23-17	N/R	N/R	N/R	N/R	6.88	N/R	N/R	<1	
3-0952	N/A	180	299-W23-17	N/R	N/R	N/R	N/R	14.40	N/P	N/R	<1	
3-0953	N/A	185	299-W23-17	N/R	N/R	N/R	N/R	12.82	N/R	N/R	<1	
3-0954	N/A	190	299-W23-17	N/R	N/R	N/R	N/R	15.37	N/R	N/R	<1	
3-0955	N/A	195	299-W23-17	N/R	N/R	N/R	N/R	14.21	N/R	N/R	<1	
3-0956	N/A	200	299-W23-17	N/R	N/R	N/R	N/R	19.49	N/R	N/R	<1	
3-0957	N/A	205	299-W23-17	N/R	N/R	N/R	N/R	18.42	N/R	N/R	<1	
3-0958	N/A	210	299-W23-17	N/R	N/R	N/R	N/R	29.72	N/R	N/R	<1	
3-0959	N/A	215	299-W23-17	N/R	N/R	N/R	N/R	42.65	N/R	N/R	<1	
3-0960	N/A	220	299-W23-17	N/R	N/R	N/R	N/R	33.61	N/R	N/R	<1	
3-0961	N/A	225	299-W23-17	N/R	N/R	N/R	N/R	31.74	N/R	N/R	<1	
3-0962	N/A	230	299-W23-17	N/R	N/R	N/R	N/R	22.06	N/R	N/R	<1	
3-0963	N/A	148	299-W23-17	N/R	N/R	N/R	N/R	10.0	N/R	N/R	6.5	
3-0964	N/A	25	299-W23-17	N/A	N/R	N/R	N/R	N/R	N/R	N/R	N/R	

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APPENDIX C
WELL SEDIMENT CHEMISTRY DATA

***** = Data not available.
B = Blank.
U = Undetected.
XYZ = Other.

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93			UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,1,1,2-Tetrachloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,1,1-Trichloroethane	0	UG/L	16	J
299-W18-250	25	B08CB5	3/30/93	1,1,2,2-Tetrachloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,1,2-Trichloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,1-Dichloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,1-Dichloroethene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,2,3-Trichloropropane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,2,4,5-Tetrachlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,2,4-Trichlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,2-Dibromo-3-chloropropane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,2-Dibromoethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,2-Dichlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,2-Dichloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,2-Dichloropropane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,3-Dichlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,4-Dichloro-2-butene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,4-Dichlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1,4-Dichlorobenzene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,4-Dioxane	200	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	1,4-Naphtoquinone		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	1-Naphthylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,3,4,6-Tetrachlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-250	25	B08CB5	3/30/93	2,4,5-T	2	UG/L	49	U
299-W18-250	25	B08CB5	3/30/93	2,4,5-TP	2	UG/L	49	U
299-W18-250	25	B08CB5	3/30/93	2,4,5-Trichlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,4,6-Trichlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,4-D	10	UG/L	49	U
299-W18-250	25	B08CB5	3/30/93	2,4-Dichlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,4-Dimethylphenol		UG/L	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	2,4-Dinitrophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,4-Dinitrotoluene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,6-Dichlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2,6-Dinitrotoluene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Acetylaminofluorene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Chloronaphthalene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Chlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Hexanone	50	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	2-Methylnaphthalene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Methylphenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Naphthylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Nitroaniline		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Nitrophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	2-Picoline	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/L	49	U
299-W18-250	25	B08CB5	3/30/93	3,3'-Dichlorobenzidine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	3,3'-Dimethylbenzidine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	3-Methylcholanthrene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	3-Nitroaniline		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4,4'-DDD	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	4,4'-DDE	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	4,4'-DDT	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	4,6-Dinitro-2-methylphenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Aminobiphenyl		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Bromophenylphenyl ether		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Chloro-3-methylphenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Chloroaniline		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Chlorophenylphenyl ether		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Methyl-2-pentanone		UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	4-Methylphenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Nitroaniline		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	4-Nitrophenol		UG/L	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	4-Nitroquinoline-1-oxide		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	7,12-Dimethylbenz[a]anthracene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Acenaphthene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Acenaphthylene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Acetone	7	UG/L	16	
299-W18-250	25	B08CB5	3/30/93	Acetonitrile	200	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Acetophenone		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Acrolein	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Acrylonitrile	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Aldrin	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Alpha, alpha-Dimethylphenethyl		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Alpha-BHC	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aniline		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Anthracene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Antimony		UG/KG	34	U
299-W18-250	25	B08CB5	3/30/93	Aramite		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1016	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1221	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1232	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1242	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1248	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1254	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Aroclor-1260	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Barium	72000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Benzene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Benzo(a)anthracene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Benzo(a)pyrene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Benzo(b)fluoranthene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Benzo(ghi)perylene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Benzo(k)fluoranthene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Benzyl alcohol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Beryllium	600	UG/KG	34	

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	Beta-BHC	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Bis(2-Chloroethoxy)methane		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Bis(2-chloroethyl) ether		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Bis(2-chloroisopropyl) ether		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Bis(2-ethylhexyl) phthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Bromide	500	UG/KG	124	U
299-W18-250	25	B08CB5	3/30/93	Bromodichloromethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Bromoform	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Butylbenzylphthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Cadmium		UG/KG	34	U
299-W18-250	25	B08CB5	3/30/93	Calcium	*****	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Carbon disulfide	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Carbon tetrachloride	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Chlordane	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Chloride	200	UG/KG	124	U
299-W18-250	25	B08CB5	3/30/93	Chlorobenzene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Chlorobenzilate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Chloroethane	10	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Chloroform	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Chloroprene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Chromium	17000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Chrysene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Cobalt	13000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Copper	15000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Delta-BHC	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Di-n-butylphthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Di-n-octylphthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Diallate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Dibenz[a,h]anthracene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Dibenzofuran		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Dibromochloromethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Dibromomethane	5	UG/L	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	Dichlorodifluoromethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Dieldrin	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Diethyl phthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Dimethoate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Dimethyl phthalate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Diphenylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Endosulfan I	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Endosulfan II	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Endosulfan sulfate	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Endrin	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Endrin Aldehyde	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Ethyl cyanide	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Ethyl methacrylate	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Ethyl methanesulfonate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Ethylbenzene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Famphur		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Fluoranthene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Fluorene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Fluoride	300	UG/KG	124	
299-W18-250	25	B08CB5	3/30/93	Heptachlor	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Heptachlor epoxide	1	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Hexachlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Hexachlorobutadiene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Hexachlorocyclopentadiene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Hexachloroethane		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Hexachlorophene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Hexachloropropene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Indeno(1.2.3-cd)pyrene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Iron	*****	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Isobutyl alcohol	200	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Isodrin		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Isophorone		UG/L	19	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	Isosafrole		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Kepone		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Kerosene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Magnesium	*****	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Manganese	290000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Methacrylonitrile	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methapyrilene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Methoxychlor	2	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Methyl Iodide	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methyl bromide	10	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methyl chloride	10	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methyl ethyl ketone	100	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methyl methacrylate	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Methyl methanesulfonate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Methylene chloride	2	UG/L	16	B
299-W18-250	25	B08CB5	3/30/93	N-Nitroso-di-n-dipropylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosodi-n-butylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosodiethylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosodimethylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosodiphenylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosomethylethylamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosomorpholine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	N-Nitrosopiperidine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Naphthalene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Nickel	69000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Nitrate	200	UG/KG	124	U
299-W18-250	25	B08CB5	3/30/93	Nitrite	200	UG/KG	124	U
299-W18-250	25	B08CB5	3/30/93	Nitrobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Nitrosopyrrolidine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	O,O,O-Triethyl phosphorothio		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	O,O-diethylO-2-pyrazinylphos		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	PCDDs		UG/KG	51	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	PCDFs		UG/KG	51	U
299-W18-250	25	B08CB5	3/30/93	Parathion		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Pentachlorobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Pentachloroethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Pentachloronitrobenzene (PCN)		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Pentachlorophenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Phenacetin		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Phenanthrene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Phenol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Phosphate	400	UG/KG	124	U
299-W18-250	25	B08CB5	3/30/93	Potassium	700000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Pronamide		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Pyrene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Pyridine	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Safrol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Silver		UG/KG	34	U
299-W18-250	25	B08CB5	3/30/93	Sodium	480000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Styrene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Sulfate	2000	UG/KG	124	
299-W18-250	25	B08CB5	3/30/93	Tetrachloroethene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Tetraethyldithiopyrophosphat		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Tetrahydrofuran		UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Tin		UG/KG	34	U
299-W18-250	25	B08CB5	3/30/93	Toluene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Toxaphene	2	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	Tributyl Phosphate		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	Trichloroethene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Trichloromonofluoromethane	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Vanadium	64000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	Vinyl acetate	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Vinyl chloride	10	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Xylene(m)	5	UG/L	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	25	B08CB5	3/30/93	Xylene(o)	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Xylene(p)	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	Zinc	45000	UG/KG	34	
299-W18-250	25	B08CB5	3/30/93	allylchloride	100	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	cis-1,3-Dichloropropene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	gamma-BHC (Lindane)	0	UG/L	17	U
299-W18-250	25	B08CB5	3/30/93	m-Cresol		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	m-dinitrobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	o-Toluidine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	p-Dimethylaminoazobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	p-Phenylenediamine		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	sym-Trinitrobenzene		UG/L	19	U
299-W18-250	25	B08CB5	3/30/93	trans-1,2-Dichloroethylene	5	UG/L	16	U
299-W18-250	25	B08CB5	3/30/93	trans-1,3-Dichloropropene	5	UG/L	16	U
299-W18-250	46	B08CD0	4/01/93	1,2-Dichlorobenzene	10	UG/KG	19	U
299-W18-250	50	B08CB7	3/30/93			UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,1,1,2-Tetrachloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,1,1-Trichloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,1,2,2-Tetrachloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,1,2-Trichloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,1-Dichloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,1-Dichloroethene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,2,3-Trichloropropane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,2,4,5-Tetrachlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,2,4-Trichlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,2-Dibromo-3-chloropropane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,2-Dibromoethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,2-Dichlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,2-Dichloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,2-Dichloropropane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,3-Dichlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,4-Dichloro-2-butene	5	UG/L	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	1,4-Dichlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1,4-Dichlorobenzene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,4-Dioxane	200	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	1,4-Naphthoquinone		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	1-Naphthylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,3,4,6-Tetrachlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-250	50	B08CB7	3/30/93	2,4,5-T	2	UG/L	49	U
299-W18-250	50	B08CB7	3/30/93	2,4,5-TP	2	UG/L	49	U
299-W18-250	50	B08CB7	3/30/93	2,4,5-Trichlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,4,6-Trichlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,4-D	10	UG/L	49	U
299-W18-250	50	B08CB7	3/30/93	2,4-Dichlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,4-Dimethylphenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,4-Dinitrophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,4-Dinitrotoluene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,6-Dichlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2,6-Dinitrotoluene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Acetylaminofluorene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Chloronaphthalene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Chlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Hexanone	50	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	2-Methylnaphthalene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Methylphenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Naphthylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Nitroaniline		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Nitrophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	2-Picoline	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/L	49	U
299-W18-250	50	B08CB7	3/30/93	3,3'-Dichlorobenzidine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	3,3'-Dimethylbenzidine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	3-Methylcholanthrene		UG/L	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	3-Nitroaniline		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4,4'-DDD	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	4,4'-DDE	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	4,4'-DDT	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	4,6-Dinitro-2-methylphenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Aminobiphenyl		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Bromophenylphenyl ether		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Chloro-3-methylphenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Chloroaniline		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Chlorophenylphenyl ether		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Methyl-2-pentanone		UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	4-Methylphenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Nitroaniline		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Nitrophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	4-Nitroquinoline-1-oxide		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	7,12-Dimethylbenz[a]anthracene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Acenaphthene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Acenaphthylene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Acetone	6	UG/L	16	
299-W18-250	50	B08CB7	3/30/93	Acetonitrile	200	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Acetophenone		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Acrolein	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Acrylonitrile	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Aldrin	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Alpha, alpha-Dimethylphenethyl		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Alpha-BHC	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aniline		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Anthracene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Antimony		UG/KG	34	U
299-W18-250	50	B08CB7	3/30/93	Aramite		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1016	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1221	1	UG/L	17	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	Aroclor-1232	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1242	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1248	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1254	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Aroclor-1260	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Barium	110000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Benzene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Benzo(a)anthracene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Benzo(a)pyrene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Benzo(b)fluoranthene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Benzo(ghi)perylene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Benzo(k)fluoranthene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Benzyl alcohol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Beryllium	800	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Beta-BHC	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Bis(2-Chloroethoxy)methane		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Bis(2-chloroethyl) ether		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Bis(2-chloroisopropyl) ether		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Bis(2-ethylhexyl) phthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Bromide	500	UG/KG	124	U
299-W18-250	50	B08CB7	3/30/93	Bromodichloromethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Bromoform	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Butylbenzylphthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Cadmium		UG/KG	34	U
299-W18-250	50	B08CB7	3/30/93	Calcium	*****	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Carbon disulfide	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Carbon tetrachloride	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Chlordane	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Chloride	500	UG/KG	124	
299-W18-250	50	B08CB7	3/30/93	Chlorobenzene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Chlorobenzilate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Chloroethane	10	UG/L	16	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	Chloroform	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Chloroprene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Chromium	12000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Chrysene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Cobalt	12000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Copper	15000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Delta-BHC	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Di-n-butylphthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Di-n-octylphthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Diallate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Dibenz[a,h]anthracene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Dibenzofuran		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Dibromochloromethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Dibromomethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Dichlorodifluoromethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Dieldrin	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Diethyl phthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Dimethoate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Dimethyl phthalate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Diphenylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Endosulfan I	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Endosulfan II	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Endosulfan sulfate	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Endrin	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Endrin Aldehyde	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Ethyl cyanide	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Ethyl methacrylate	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Ethyl methanesulfonate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Ethylbenzene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Famphur		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Fluoranthene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Fluorene		UG/L	19	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	Fluoride	100	UG/KG	124	U
299-W18-250	50	B08CB7	3/30/93	Heptachlor	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Heptachlor epoxide	1	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Hexachlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Hexachlorobutadiene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Hexachlorocyclopentadiene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Hexachloroethane		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Hexachlorophene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Hexachloropropene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Indeno(1.2.3-cd)pyrene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Iron	*****	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Isobutyl alcohol	200	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Isodrin		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Isophorone		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Isosafrole		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Kepone		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Kerosene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Magnesium	*****	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Manganese	470000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Methacrylonitrile	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methapyrilene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Methoxychlor	2	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Methyl Iodide	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methyl bromide	10	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methyl chloride	10	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methyl ethyl ketone	100	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methyl methacrylate	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Methyl methanesulfonate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Methylene chloride	2	UG/L	16	B
299-W18-250	50	B08CB7	3/30/93	N-Nitroso-di-n-dipropylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosodi-n-butylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosodiethylamine		UG/L	19	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	N-Nitrosodimethylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosodiphenylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosomethylethylamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosomorpholine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	N-Nitrosopiperidine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Naphthalene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Nickel	14000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Nitrate	200	UG/KG	124	U
299-W18-250	50	B08CB7	3/30/93	Nitrite	200	UG/KG	124	U
299-W18-250	50	B08CB7	3/30/93	Nitrobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Nitrosopyrrolidine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	O.O.O-Triethyl phosphorothio		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	O.O-diethylO-2-pyrazinylphos		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	PCDDs		UG/KG	51	U
299-W18-250	50	B08CB7	3/30/93	PCDFs		UG/KG	51	U
299-W18-250	50	B08CB7	3/30/93	Parathion		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Pentachlorobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Pentachloroethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Pentachloronitrobenzene (PCN		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Pentachlorophenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Phenacetin		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Phenanthrene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Phenol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Phosphate	400	UG/KG	124	U
299-W18-250	50	B08CB7	3/30/93	Potassium	*****	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Pronamide		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Pyrene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Pyridine	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Safrol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Silver		UG/KG	34	U
299-W18-250	50	B08CB7	3/30/93	Sodium	320000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Styrene	5	UG/L	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-250	50	B08CB7	3/30/93	Sulfate	2000	UG/KG	124	
299-W18-250	50	B08CB7	3/30/93	Tetrachloroethene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Tetraethyldithiopyrophosphat		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Tetrahydrofuran		UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Tin		UG/KG	34	U
299-W18-250	50	B08CB7	3/30/93	Toluene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Toxaphene	2	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	Tributyl Phosphate		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	Trichloroethene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Trichloromonofluoromethane	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Vanadium	66000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	Vinyl acetate	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Vinyl chloride	10	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Xylene(m)	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Xylene(o)	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Xylene(p)	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	Zinc	50000	UG/KG	34	
299-W18-250	50	B08CB7	3/30/93	allylchloride	100	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	cis-1,3-Dichloropropene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	gamma-BHC (Lindane)	0	UG/L	17	U
299-W18-250	50	B08CB7	3/30/93	m-Cresol		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	m-dinitrobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	o-Toluidine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	p-Dimethylaminoazobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	p-Phenylenediamine		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	sym-Trinitrobenzene		UG/L	19	U
299-W18-250	50	B08CB7	3/30/93	trans-1,2-Dichloroethylene	5	UG/L	16	U
299-W18-250	50	B08CB7	3/30/93	trans-1,3-Dichloropropene	5	UG/L	16	U
299-W18-251	25	B08CC8	4/01/93			UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1,2,4,5-Tetrachlorobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1,2,4-Trichlorobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1,2-Dichlorobenzene	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	1,3-Dichlorobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1,4-Dichlorobenzene	5	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1,4-Naphtoquinone	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	1-Naphthylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,3,4,6-Tetrachloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-251	25	B08CC8	4/01/93	2,4,5-T	2	UG/KG	49	U
299-W18-251	25	B08CC8	4/01/93	2,4,5-TP	2	UG/KG	49	U
299-W18-251	25	B08CC8	4/01/93	2,4,5-Trichloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,4,6-Trichloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,4-D	10	UG/KG	49	U
299-W18-251	25	B08CC8	4/01/93	2,4-Dichloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,4-Dimethylpheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,4-Dinitrophenol	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,4-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,6-Dichloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2,6-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Acetylaminofluorene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Chloronaphthalene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Chloropheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Methylnaphthalene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Methylpheno1	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Naphthylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Nitroaniline	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-Nitrophenol	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W18-251	25	B08CC8	4/01/93	3,3'-Dichlorobenzidine	20	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	3,3'-Dimethylbenzidine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	3-Methylcholanthrene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	3-Nitroaniline	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4,4'-DDD	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	4,4'-DDE	0	UG/L	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	4,4'-DDT	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	4,6-Dinitro-2-methylphenol	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Aminobiphenyl	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Bromophenylphenyl ether	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Chloro-3-methylphenol	20	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Chloroaniline	20	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Chlorophenylphenyl ether	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Methylphenol	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Nitroaniline	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Nitrophenol	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	4-Nitroquinoline-1-oxide	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	7,12-Dimethylbenz[a]anthracene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Acenaphthene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Acenaphthylene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Acetophenone	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Aldrin	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Alpha, alpha-Dimethylphenethyl	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Alpha-BHC	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aniline	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Anthracene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Antimony	200	UG/KG	34	U
299-W18-251	25	B08CC8	4/01/93	Aramite	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1016	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1221	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1232	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1242	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1248	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1254	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Aroclor-1260	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Barium	75000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Benzo(a)anthracene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Benzo(a)pyrene	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	Benzo(b)fluoranthene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Benzo(ghi)perylene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Benzo(k)fluoranthene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Benzyl alcohol	20	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Beryllium	600	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Beta-BHC	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Bis(2-Chloroethoxy)methane	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Bis(2-chloroethyl) ether	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Bis(2-chloroisopropyl) ether	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Bis(2-ethylhexyl) phthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Bromide	500	UG/KG	124	U
299-W18-251	25	B08CC8	4/01/93	Butylbenzylphthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Cadmium	10	UG/KG	34	U
299-W18-251	25	B08CC8	4/01/93	Calcium	*****	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Chlordane	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Chloride	700	UG/KG	124	
299-W18-251	25	B08CC8	4/01/93	Chlorobenzilate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Chromium	5000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Chrysene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Cobalt	10000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Copper	15000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Delta-BHC	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Di-n-butylphthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Di-n-octylphthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Diallylate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Dibenz[a,h]anthracene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Dibenzofuran	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Dieldrin	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Diethyl phthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Dimethoate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Dimethyl phthalate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Diphenylamine	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	Endosulfan I	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Endosulfan II	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Endosulfan sulfate	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Endrin	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Endrin Aldehyde	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Ethyl methanesulfonate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Famphur	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Fluoranthene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Fluorene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Fluoride	300	UG/KG	124	
299-W18-251	25	B08CC8	4/01/93	Heptachlor	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Heptachlor epoxide	1	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Hexachlorobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Hexachlorobutadiene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Hexachlorocyclopentadiene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Hexachloroethane	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Hexachlorophene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Hexachloropropene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Indeno(1,2,3-cd)pyrene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Iron	*****	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Isodrin	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Isophorone	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Isosafrole	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Kepone	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Kerosene	10000	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Magnesium	*****	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Manganese	310000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Methapyrilene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Methoxychlor	2	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Methyl methanesulfonate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitroso-di-n-dipropylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosodi-n-butylamine	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	N-Nitrosodiethylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosodimethylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosodiphenylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosomethylethylamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosomorpholine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	N-Nitrosopiperidine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Naphthalene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Nickel	5000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Nitrate	500	UG/KG	124	
299-W18-251	25	B08CC8	4/01/93	Nitrite	200	UG/KG	124	U
299-W18-251	25	B08CC8	4/01/93	Nitrobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Nitrosopyrrolidine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	O.O.O-Triethyl phosphorothio	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	O.O-diethyl0-2-pyrazinylphos	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	PCDDs		UG/KG	51	U
299-W18-251	25	B08CC8	4/01/93	PCDFs		UG/KG	51	U
299-W18-251	25	B08CC8	4/01/93	Parathion	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Pentachlorobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Pentachloronitrobenzene (PCN	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Pentachlorophenol	50	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Phenacetin	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Phenanthrene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Phenol	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Phosphate	400	UG/KG	124	U
299-W18-251	25	B08CC8	4/01/93	Potassium	620000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Pronamide	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Pyrene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Safrol	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Silver	20	UG/KG	34	U
299-W18-251	25	B08CC8	4/01/93	Sodium	390000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Sulfate	4000	UG/KG	124	
299-W18-251	25	B08CC8	4/01/93	Sulfide		UG/KG	63	XYZU

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	25	B08CC8	4/01/93	Tetraethyldithiopyrophosphat	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Tin	100	UG/KG	34	U
299-W18-251	25	B08CC8	4/01/93	Toxaphene	2	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	Tributyl Phosphate	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	Vanadium	59000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	Zinc	46000	UG/KG	34	
299-W18-251	25	B08CC8	4/01/93	gamma-BHC (Lindane)	0	UG/L	17	U
299-W18-251	25	B08CC8	4/01/93	m-Cresol	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	m-dinitrobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	o-Toluidine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	p-Dimethylaminoazobenzene	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	p-Phenylenediamine	10	UG/KG	19	U
299-W18-251	25	B08CC8	4/01/93	sym-Trinitrobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93			UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1,2,4,5-Tetrachlorobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1,2,4-Trichlorobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1,3-Dichlorobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1,4-Dichlorobenzene	5	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1,4-Naphtoquinone	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	1-Naphthylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,3,4,6-Tetrachlorophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-251	46	B08CD0	4/01/93	2,4,5-T	2	UG/KG	49	U
299-W18-251	46	B08CD0	4/01/93	2,4,5-TP	2	UG/KG	49	U
299-W18-251	46	B08CD0	4/01/93	2,4,5-Trichlorophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,4,6-Trichlorophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,4-D	10	UG/KG	49	U
299-W18-251	46	B08CD0	4/01/93	2,4-Dichlorophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,4-Dimethylphenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,4-Dinitrophenol	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,4-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2,6-Dichlorophenol	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	46	B08CD0	4/01/93	2,6-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Acetylaminofluorene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Chloronaphthalene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Chlorophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Methylnaphthalene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Methylphenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Naphthylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Nitroaniline	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-Nitrophenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W18-251	46	B08CD0	4/01/93	3,3'-Dichlorobenzidine	20	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	3,3'-Dimethylbenzidine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	3-Methylcholanthrene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	3-Nitroaniline	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4,4'-DDD	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	4,4'-DDE	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	4,4'-DDT	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	4,6-Dinitro-2-methylphenol	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Aminobiphenyl	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Bromophenylphenyl ether	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Chloro-3-methylphenol	20	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Chloroaniline	20	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Chlorophenylphenyl ether	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Methylphenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Nitroaniline	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Nitrophenol	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	4-Nitroquinoline-1-oxide	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	7,12-Dimethylbenz[a]anthracene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Acenaphthene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Acenaphthylene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Acetophenone	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Aldrin	0	UG/L	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	46	B08CD0	4/01/93	Alpha, alpha-Dimethylphenethy	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Alpha-BHC	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aniline	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Anthracene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Antimony	200	UG/KG	34	U
299-W18-251	46	B08CD0	4/01/93	Aramite	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1016	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1221	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1232	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1242	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1248	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1254	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Aroclor-1260	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Barium	87000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Benzo(a)anthracene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Benzo(a)pyrene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Benzo(b)fluoranthene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Benzo(ghi)perylene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Benzo(k)fluoranthene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Benzyl alcohol	20	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Beryllium	600	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Beta-BHC	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Bis(2-Chloroethoxy)methane	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Bis(2-chloroethyl) ether	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Bis(2-chloroisopropyl) ether	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Bis(2-ethylhexyl) phthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Bromide	500	UG/KG	124	U
299-W18-251	46	B08CD0	4/01/93	Butylbenzylphthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Cadmium	10	UG/KG	34	U
299-W18-251	46	B08CD0	4/01/93	Calcium	*****	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Chlordane	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Chloride	200	UG/KG	124	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	46	B08CD0	4/01/93	Chlorobenzilate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Chromium	9000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Chrysene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Cobalt	10000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Copper	12000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Delta-BHC	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Di-n-butylphthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Di-n-octylphthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Diallate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Dibenz[a,h]anthracene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Dibenzofuran	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Dieldrin	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Diethyl phthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Dimethoate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Dimethyl phthalate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Diphenylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Endosulfan I	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Endosulfan II	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Endosulfan sulfate	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Endrin	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Endrin Aldehyde	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Ethyl methanesulfonate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Famphur	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Fluoranthene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Fluorene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Fluoride	100	UG/KG	124	U
299-W18-251	46	B08CD0	4/01/93	Heptachlor	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Heptachlor epoxide	1	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Hexachlorobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Hexachlorobutadiene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Hexachlorocyclopentadiene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Hexachloroethane	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	46	B08CD0	4/01/93	Hexachlorophene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Hexachloropropene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Indeno(1,2,3-cd)pyrene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Iron	*****	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Isodrin	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Isophorone	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Isosafrole	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Kepone	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Kerosene	10000	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Magnesium	*****	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Manganese	400000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Methapyrilene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Methoxychlor	2	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Methyl methanesulfonate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitroso-di-n-dipropylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosodi-n-butylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosodiethylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosodimethylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosodiphenylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosomethylethylamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosomorpholine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	N-Nitrosopiperidine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Naphthalene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Nickel	8000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Nitrate	200	UG/KG	124	U
299-W18-251	46	B08CD0	4/01/93	Nitrite	200	UG/KG	124	U
299-W18-251	46	B08CD0	4/01/93	Nitrobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Nitrosopyrrolidine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	O,O,O-Triethyl phosphorothio	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	O,O-diethylO-2-pyrazinylphos	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	PCDDs		UG/KG	51	U
299-W18-251	46	B08CD0	4/01/93	PCDFs		UG/KG	51	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	46	B08CD0	4/01/93	Parathion	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Pentachlorobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Pentachloronitrobenzene (PCN)	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Pentachlorophenol	50	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Phenacetin	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Phenanthrene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Phenol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Phosphate	400	UG/KG	124	U
299-W18-251	46	B08CD0	4/01/93	Potassium	*****	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Pronamide	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Pyrene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Safrol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Silver	20	UG/KG	34	U
299-W18-251	46	B08CD0	4/01/93	Sodium	230000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Sulfate	1000	UG/KG	124	
299-W18-251	46	B08CD0	4/01/93	Sulfide		UG/KG	63	XYZU
299-W18-251	46	B08CD0	4/01/93	Tetraethyldithiopyrophosphat	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Tin	100	UG/KG	34	U
299-W18-251	46	B08CD0	4/01/93	Toxaphene	2	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	Tributyl Phosphate	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	Vanadium	64000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	Zinc	44000	UG/KG	34	
299-W18-251	46	B08CD0	4/01/93	gamma-BHC (Lindane)	0	UG/L	17	U
299-W18-251	46	B08CD0	4/01/93	m-Cresol	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	m-dinitrobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	o-Toluidine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	p-Dimethylaminoazobenzene	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	p-Phenylenediamine	10	UG/KG	19	U
299-W18-251	46	B08CD0	4/01/93	sym-Trinitrobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93			UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1,2,4,5-Tetrachlorobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1,2,4-Trichlorobenzene	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	1,2-Dichlorobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1,3-Dichlorobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1,4-Dichlorobenzene	5	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1,4-Naphthoquinone	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	1-Naphthylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,3,4,6-Tetrachlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-251	97.5	B08CC0	4/06/93	2,4,5-T	2	UG/KG	49	U
299-W18-251	97.5	B08CC0	4/06/93	2,4,5-TP	2	UG/KG	49	U
299-W18-251	97.5	B08CC0	4/06/93	2,4,5-Trichlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,4,6-Trichlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,4-D	10	UG/KG	49	U
299-W18-251	97.5	B08CC0	4/06/93	2,4-Dichlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,4-Dimethylphenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,4-Dinitrophenol	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,4-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,6-Dichlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2,6-Dinitrotoluene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Acetylaminofluorene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Chloronaphthalene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Chlorophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Methylnaphthalene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Methylphenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Naphthylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Nitroaniline	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-Nitrophenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W18-251	97.5	B08CC0	4/06/93	3,3'-Dichlorobenzidine	20	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	3,3'-Dimethylbenzidine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	3-Methylcholanthrene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	3-Nitroaniline	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4,4'-DDD	0	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	4,4'-DDE	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	4,4'-DDT	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	4,6-Dinitro-2-methylphenol	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Aminobiphenyl	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Bromophenylphenyl ether	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Chloro-3-methylphenol	20	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Chloroaniline	20	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Chlorophenylphenyl ether	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Methylphenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Nitroaniline	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Nitrophenol	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	4-Nitroquinoline-1-oxide	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	7,12-Dimethylbenz[a]anthracene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Acenaphthene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Acenaphthylene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Acetophenone	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Aldrin	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Alpha, alpha-Dimethylphenethy	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Alpha-BHC	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aniline	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Anthracene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Antimony	200	UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Aramite	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1016	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1221	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1232	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1242	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1248	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1254	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Aroclor-1260	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Arsenic	3700	UG/KG	43	
299-W18-251	97.5	B08CC0	4/06/93	Barium	100000	UG/KG	34	

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	Benzo(a)anthracene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Benzo(a)pyrene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Benzo(b)fluoranthene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Benzo(ghi)perylene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Benzo(k)fluoranthene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Benzyl alcohol	20	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Beryllium	400	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Beta-BHC	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Bis(2-Chloroethoxy)methane	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Bis(2-chloroethyl) ether	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Bis(2-chloroisopropyl) ether	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Bis(2-ethylhexyl) phthalate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Bromide	500	UG/KG	124	U
299-W18-251	97.5	B08CC0	4/06/93	Butylbenzylphthalate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Cadmium	10	UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Calcium	*****	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Chlordane	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Chloride	200	UG/KG	124	U
299-W18-251	97.5	B08CC0	4/06/93	Chlorobenzilate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Chromium	17000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Chrysene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Cobalt	8000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Copper	13000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Cyanide	20	UG/KG	56	U
299-W18-251	97.5	B08CC0	4/06/93	Delta-BHC	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Di-n-butylphthalate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Di-n-octylphthalate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Diallate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Dibenz[a,h]anthracene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Dibenzofuran	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Dieldrin	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Diethyl phthalate	10	UG/KG	19	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	Dimethoate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Dimethyl phthalate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Diphenylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Endosulfan I	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Endosulfan II	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Endosulfan sulfate	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Endrin	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Endrin Aldehyde	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Ethyl methanesulfonate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Famphur	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Fluoranthene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Fluorene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Fluoride	300	UG/KG	124	
299-W18-251	97.5	B08CC0	4/06/93	Heptachlor	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Heptachlor epoxide	1	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachlorobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachlorobutadiene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachlorocyclopentadiene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachloroethane	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachlorophene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Hexachloropropene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Indeno(1,2,3-cd)pyrene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Iron	*****	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Isodrin	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Isophorone	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Isosafrole	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Kepone	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Kerosene	10000	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Lead	5700	UG/KG	40	
299-W18-251	97.5	B08CC0	4/06/93	Magnesium	*****	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Manganese	270000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Methapyrilene	10	UG/KG	19	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	Methoxychlor	2	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Methyl methanesulfonate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitroso-di-n-dipropylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosodi-n-butylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosodiethylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosodimethylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosodiphenylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosomethylethylamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosomorpholine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	N-Nitrosopiperidine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Naphthalene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Nickel	15000	UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Nitrate	200	UG/KG	124	U
299-W18-251	97.5	B08CC0	4/06/93	Nitrite	200	UG/KG	124	U
299-W18-251	97.5	B08CC0	4/06/93	Nitrobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Nitrosopyrrolidine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	O,O,O-Triethyl phosphorothio	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	O,O-diethylO-2-pyrazinylphos	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	PCDDs		UG/KG	51	U
299-W18-251	97.5	B08CC0	4/06/93	PCDFs		UG/KG	51	U
299-W18-251	97.5	B08CC0	4/06/93	Parathion	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Pentachlorobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Pentachloronitrobenzene (PCN	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Pentachlorophenol	50	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Phenacetin	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Phenanthrene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Phenol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Phosphate	400	UG/KG	124	U
299-W18-251	97.5	B08CC0	4/06/93	Potassium	*****	UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Pronamide	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Pyrene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Safrol	10	UG/KG	19	U

Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	97.5	B08CC0	4/06/93	Selenium	10	UG/KG	48	U
299-W18-251	97.5	B08CC0	4/06/93	Silver	20	UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Sodium	240000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Sulfate	2000	UG/KG	124	
299-W18-251	97.5	B08CC0	4/06/93	Sulfide	10000	UG/KG	63	U
299-W18-251	97.5	B08CC0	4/06/93	Tetraethyldithiopyrophosphat	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Thallium	5	UG/KG	42	U
299-W18-251	97.5	B08CC0	4/06/93	Tin		UG/KG	34	U
299-W18-251	97.5	B08CC0	4/06/93	Toxaphene	2	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	Tributyl Phosphate	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	Vanadium	35000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	Zinc	45000	UG/KG	34	
299-W18-251	97.5	B08CC0	4/06/93	gamma-BHC (Lindane)	0	UG/KG	17	U
299-W18-251	97.5	B08CC0	4/06/93	m-Cresol	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	m-dinitrobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	o-Toluidine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	p-Dimethylaminoazobenzene	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	p-Phenylenediamine	10	UG/KG	19	U
299-W18-251	97.5	B08CC0	4/06/93	sym-Trinitrobenzene	10	UG/KG	19	U
299-W18-251	149	B08CD3	4/13/93	1,1,1,2-Tetrachloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,1,1-Trichloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,1,2,2-Tetrachloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,1,2-Trichloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,1-Dichloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,1-Dichloroethene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,2,3-Trichloropropane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,2-Dibromo-3-chloropropane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,2-Dibromoethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,2-Dichloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,2-Dichloropropane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,4-Dichloro-2-butene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	1,4-Dichlorobenzene	5	UG/KG	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	149	B08CD3	4/13/93	1,4-Dioxane	200	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W18-251	149	B08CD3	4/13/93	2,4,5-T	2	UG/KG	49	U
299-W18-251	149	B08CD3	4/13/93	2,4,5-TP	2	UG/KG	49	U
299-W18-251	149	B08CD3	4/13/93	2,4-D	10	UG/KG	49	U
299-W18-251	149	B08CD3	4/13/93	2-Hexanone	50	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	2-Picoline	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	2-sec-Butyl-4,6-dinitropheno	1	UG/KG	49	U
299-W18-251	149	B08CD3	4/13/93	4,4'-DDD	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	4,4'-DDE	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	4,4'-DDT	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	4-Methyl-2-pentanone		UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Acetone	16	UG/KG	16	
299-W18-251	149	B08CD3	4/13/93	Acetonitrile	200	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Acrolein	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Acrylonitrile	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Aldrin	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Alpha-BHC	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Antimony	200	UG/KG	34	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1016	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1221	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1232	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1242	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1248	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1254	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Aroclor-1260	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Arsenic	2400	UG/KG	43	
299-W18-251	149	B08CD3	4/13/93	Barium	95000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Benzene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Beryllium	3	UG/KG	34	U
299-W18-251	149	B08CD3	4/13/93	Beta-BHC	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Bromide	500	UG/KG	124	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	149	B08CD3	4/13/93	Bromodichloromethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Bromoform	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Cadmium	10	UG/KG	34	U
299-W18-251	149	B08CD3	4/13/93	Calcium	*****	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Carbon disulfide	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Carbon tetrachloride	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Chlordane	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Chloride	1000	UG/KG	124	
299-W18-251	149	B08CD3	4/13/93	Chlorobenzene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Chloroethane	10	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Chloroform	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Chloroprene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Chromium	14000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Cobalt	8000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Copper	10000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Cyanide	20	UG/KG	56	U
299-W18-251	149	B08CD3	4/13/93	Delta-BHC	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Dibromochloromethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Dibromomethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Dichlorodifluoromethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Dieldrin	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Endosulfan I	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Endosulfan II	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Endosulfan sulfate	1	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Endrin	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Endrin Aldehyde	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Ethyl cyanide	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Ethyl methacrylate	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Ethylbenzene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Fluoride	600	UG/KG	124	
299-W18-251	149	B08CD3	4/13/93	Heptachlor	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Heptachlor epoxide	1	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	149	B08CD3	4/13/93	Iron	*****	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Isobutyl alcohol	200	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Lead	2500	UG/KG	40	
299-W18-251	149	B08CD3	4/13/93	Magnesium	*****	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Manganese	280000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Methacrylonitrile	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Methoxychlor	2	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Methyl Iodide	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Methyl bromide	10	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Methyl chloride	10	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Methyl ethyl ketone	39	UG/KG	16	
299-W18-251	149	B08CD3	4/13/93	Methyl methacrylate	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Methylene chloride	2	UG/KG	16	B
299-W18-251	149	B08CD3	4/13/93	Nickel	13000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Nitrate	400	UG/KG	124	
299-W18-251	149	B08CD3	4/13/93	Nitrite	200	UG/KG	124	U
299-W18-251	149	B08CD3	4/13/93	PCDDs		UG/KG	51	U
299-W18-251	149	B08CD3	4/13/93	PCDFs		UG/KG	51	U
299-W18-251	149	B08CD3	4/13/93	Pentachloroethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Phosphate	400	UG/KG	124	U
299-W18-251	149	B08CD3	4/13/93	Potassium	*****	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Pyridine	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Selenium	10	UG/KG	48	U
299-W18-251	149	B08CD3	4/13/93	Silver	20	UG/KG	34	U
299-W18-251	149	B08CD3	4/13/93	Sodium	560000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Styrene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Sulfate	7000	UG/KG	124	
299-W18-251	149	B08CD3	4/13/93	Sulfide	10000	UG/KG	63	U
299-W18-251	149	B08CD3	4/13/93	Tetrachloroethene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Tetrahydrofuran	21	UG/KG	16	
299-W18-251	149	B08CD3	4/13/93	Thallium	5	UG/KG	42	U
299-W18-251	149	B08CD3	4/13/93	Tin		UG/KG	34	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W18-251	149	B08CD3	4/13/93	Toluene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Toxaphene	2	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	Trichloroethene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Trichloromonofluoromethane	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Vanadium	55000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	Vinyl acetate	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Vinyl chloride	10	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Xylene(m)	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Xylene(o)	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Xylene(p)	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	Zinc	40000	UG/KG	34	
299-W18-251	149	B08CD3	4/13/93	allylchloride	100	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	cis-1,3-Dichloropropene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	gamma-BHC (Lindane)	0	UG/KG	17	U
299-W18-251	149	B08CD3	4/13/93	trans-1,2-Dichloroethylene	5	UG/KG	16	U
299-W18-251	149	B08CD3	4/13/93	trans-1,3-Dichloropropene	5	UG/KG	16	U
299-W18-33	26	B08CL1	5/12/93	Mercury		UG/KG	41	U
299-W18-33	26	B08CL1	5/12/93	Sulfide	20000	UG/KG	63	L
299-W18-33	50	B08CL4	5/13/93	Mercury		UG/KG	41	U
299-W18-33	50	B08CL4	5/13/93	Sulfide	20000	UG/KG	63	L
299-W18-33	145	B08CL8	5/19/93	Mercury		UG/KG	41	U
299-W23-16	25	B08CF5	4/20/93	2,4,5-T	2	UG/KG	49	U
299-W23-16	25	B08CF5	4/20/93	2,4,5-TP	2	UG/KG	49	U
299-W23-16	25	B08CF5	4/20/93	2,4-D	10	UG/KG	49	U
299-W23-16	25	B08CF5	4/20/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W23-16	25	B08CF5	4/20/93	Antimony	200	UG/KG	34	U
299-W23-16	25	B08CF5	4/20/93	Arsenic	1400	UG/KG	43	
299-W23-16	25	B08CF5	4/20/93	Barium	92000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Beryllium	3	UG/KG	34	U
299-W23-16	25	B08CF5	4/20/93	Bromide	500	UG/KG	124	U
299-W23-16	25	B08CF5	4/20/93	Cadmium	10	UG/KG	34	U
299-W23-16	25	B08CF5	4/20/93	Calcium	*****	UG/KG	34	

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-16	25	B08CF5	4/20/93	Chloride	600	UG/KG	124	
299-W23-16	25	B08CF5	4/20/93	Chromium	9000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Cobalt	10000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Copper	10000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Cyanide	20	UG/KG	56	U
299-W23-16	25	B08CF5	4/20/93	Fluoride	300	UG/KG	124	
299-W23-16	25	B08CF5	4/20/93	Iron	*****	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Lead	4000	UG/KG	40	
299-W23-16	25	B08CF5	4/20/93	Magnesium	*****	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Manganese	420000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Mercury	0	UG/KG	41	U
299-W23-16	25	B08CF5	4/20/93	Nickel	10000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Nitrate	7000	UG/KG	124	
299-W23-16	25	B08CF5	4/20/93	Nitrite	200	UG/KG	124	U
299-W23-16	25	B08CF5	4/20/93	Phosphate	400	UG/KG	124	U
299-W23-16	25	B08CF5	4/20/93	Potassium	*****	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Selenium	10	UG/KG	48	U
299-W23-16	25	B08CF5	4/20/93	Silver	20	UG/KG	34	U
299-W23-16	25	B08CF5	4/20/93	Sodium	390000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Sulfate	9000	UG/KG	124	
299-W23-16	25	B08CF5	4/20/93	Sulfide	10000	UG/KG	63	U
299-W23-16	25	B08CF5	4/20/93	Thallium	5	UG/KG	42	U
299-W23-16	25	B08CF5	4/20/93	Tin		UG/KG	34	U
299-W23-16	25	B08CF5	4/20/93	Vanadium	69000	UG/KG	34	
299-W23-16	25	B08CF5	4/20/93	Zinc	54000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	2,4,5-T	2	UG/KG	49	U
299-W23-16	50	B08CF6	4/21/93	2,4,5-TP	2	UG/KG	49	U
299-W23-16	50	B08CF6	4/21/93	2,4-D	10	UG/KG	49	U
299-W23-16	50	B08CF6	4/21/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W23-16	50	B08CF6	4/21/93	Antimony	200	UG/KG	34	U
299-W23-16	50	B08CF6	4/21/93	Arsenic	1300	UG/KG	43	
299-W23-16	50	B08CF6	4/21/93	Barium	95000	UG/KG	34	

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-16	50	B08CF6	4/21/93	Beryllium	3	UG/KG	34	U
299-W23-16	50	B08CF6	4/21/93	Bromide	500	UG/KG	124	U
299-W23-16	50	B08CF6	4/21/93	Cadmium	10	UG/KG	34	U
299-W23-16	50	B08CF6	4/21/93	Calcium	*****	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Chloride	500	UG/KG	124	
299-W23-16	50	B08CF6	4/21/93	Chromium	9000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Cobalt	9000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Copper	9000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Cyanide	20	UG/KG	56	U
299-W23-16	50	B08CF6	4/21/93	Fluoride	100	UG/KG	124	U
299-W23-16	50	B08CF6	4/21/93	Iron	*****	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Lead	3400	UG/KG	40	
299-W23-16	50	B08CF6	4/21/93	Magnesium	*****	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Manganese	360000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Mercury	0	UG/KG	41	U
299-W23-16	50	B08CF6	4/21/93	Nickel	11000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Nitrate	500	UG/KG	124	
299-W23-16	50	B08CF6	4/21/93	Nitrite	200	UG/KG	124	U
299-W23-16	50	B08CF6	4/21/93	Phosphate	400	UG/KG	124	U
299-W23-16	50	B08CF6	4/21/93	Potassium	*****	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Selenium	10	UG/KG	48	U
299-W23-16	50	B08CF6	4/21/93	Silver	20	UG/KG	34	U
299-W23-16	50	B08CF6	4/21/93	Sodium	290000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Sulfate	1000	UG/KG	124	
299-W23-16	50	B08CF6	4/21/93	Sulfide	10000	UG/KG	63	U
299-W23-16	50	B08CF6	4/21/93	Thallium	5	UG/KG	42	U
299-W23-16	50	B08CF6	4/21/93	Tin		UG/KG	34	U
299-W23-16	50	B08CF6	4/21/93	Vanadium	67000	UG/KG	34	
299-W23-16	50	B08CF6	4/21/93	Zinc	46000	UG/KG	34	
299-W23-16	200	B08CL5	5/17/93	Mercury		UG/KG	41	U
299-W23-17	25	B08CD7	4/12/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W23-17	25	B08CD7	4/12/93	2,4,5-T	2	UG/KG	49	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	25	B08CD7	4/12/93	2,4,5-TP	2	UG/KG	49	U
299-W23-17	25	B08CD7	4/12/93	2,4-D	10	UG/KG	49	U
299-W23-17	25	B08CD7	4/12/93	2-sec-Butyl-4,6-dinitropheno	1	UG/KG	49	U
299-W23-17	25	B08CD7	4/12/93	4,4'-DDD	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	4,4'-DDE	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	4,4'-DDT	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aldrin	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Alpha-BHC	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Antimony	200	UG/KG	34	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1016	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1221	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1232	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1242	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1248	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1254	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Aroclor-1260	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Arsenic	3100	UG/KG	43	
299-W23-17	25	B08CD7	4/12/93	Barium	100000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Beryllium	3	UG/KG	34	U
299-W23-17	25	B08CD7	4/12/93	Beta-BHC	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Bromide	500	UG/KG	124	U
299-W23-17	25	B08CD7	4/12/93	Cadmium	10	UG/KG	34	U
299-W23-17	25	B08CD7	4/12/93	Calcium	*****	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Chlordane	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Chloride	41000	UG/KG	124	
299-W23-17	25	B08CD7	4/12/93	Chromium	9000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Cobalt	10000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Copper	12000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Cyanide	20	UG/KG	56	U
299-W23-17	25	B08CD7	4/12/93	Delta-BHC	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Dieldrin	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Endosulfan I	0	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	25	B08CD7	4/12/93	Endosulfan II	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Endosulfan sulfate	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Endrin	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Endrin Aldehyde	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Fluoride	300	UG/KG	124	
299-W23-17	25	B08CD7	4/12/93	Heptachlor	0	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Heptachlor epoxide	1	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Iron	*****	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Lead	5000	UG/KG	40	
299-W23-17	25	B08CD7	4/12/93	Magnesium	*****	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Manganese	390000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Methoxychlor	2	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Nickel	12000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Nitrate	2100	UG/KG	124	
299-W23-17	25	B08CD7	4/12/93	Nitrite	200	UG/KG	124	U
299-W23-17	25	B08CD7	4/12/93	PCDDs		UG/KG	51	U
299-W23-17	25	B08CD7	4/12/93	PCDFs		UG/KG	51	U
299-W23-17	25	B08CD7	4/12/93	Phosphate	400	UG/KG	124	U
299-W23-17	25	B08CD7	4/12/93	Potassium	*****	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Selenium	10	UG/KG	48	U
299-W23-17	25	B08CD7	4/12/93	Silver	20	UG/KG	34	U
299-W23-17	25	B08CD7	4/12/93	Sodium	400000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Sulfate	34000	UG/KG	124	
299-W23-17	25	B08CD7	4/12/93	Sulfide	10000	UG/KG	63	U
299-W23-17	25	B08CD7	4/12/93	Thallium	5	UG/KG	42	U
299-W23-17	25	B08CD7	4/12/93	Tin		UG/KG	34	U
299-W23-17	25	B08CD7	4/12/93	Toxaphene	2	UG/KG	17	U
299-W23-17	25	B08CD7	4/12/93	Vanadium	63000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	Zinc	52000	UG/KG	34	
299-W23-17	25	B08CD7	4/12/93	gamma-BHC (Lindane)	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	1,1,1,2-Tetrachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,1,1-Trichloroethane	5	UG/KG	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF3	4/13/93	1,1,2,2-Tetrachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,1,2-Trichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,1-Dichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,1-Dichloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,2,3-Trichloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,2-Dibromo-3-chloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,2-Dibromoethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,2-Dichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,2-Dichloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,4-Dichloro-2-butene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,4-Dichlorobenzene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	1,4-Dioxane	200	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W23-17	45	B08CF3	4/13/93	2,4,5-T	2	UG/KG	49	U
299-W23-17	45	B08CF3	4/13/93	2,4,5-TP	2	UG/KG	49	U
299-W23-17	45	B08CF3	4/13/93	2,4-D	10	UG/KG	49	U
299-W23-17	45	B08CF3	4/13/93	2-Hexanone	50	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	2-Picoline	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W23-17	45	B08CF3	4/13/93	4,4'-DDD	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	4,4'-DDE	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	4,4'-DDT	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	4-Methyl-2-pentanone		UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Acetone	100	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Acetonitrile	200	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Acrolein	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Acrylonitrile	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Aldrin	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Alpha-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Antimony	200	UG/KG	34	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1016	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1221	1	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF3	4/13/93	Aroclor-1232	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1242	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1248	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1254	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Aroclor-1260	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Arsenic	2700	UG/KG	43	
299-W23-17	45	B08CF3	4/13/93	Barium	89000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Benzene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Beryllium	3	UG/KG	34	U
299-W23-17	45	B08CF3	4/13/93	Beta-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Bromide	500	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	Bromodichloromethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Bromoform	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Cadmium	10	UG/KG	34	U
299-W23-17	45	B08CF3	4/13/93	Calcium	*****	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Carbon disulfide	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Carbon tetrachloride	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Chlordane	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Chloride	400	UG/KG	124	
299-W23-17	45	B08CF3	4/13/93	Chlorobenzene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Chloroethane	10	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Chloroform	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Chloroprene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Chromium	11000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Cobalt	8000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Copper	10000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Cyanide	20	UG/KG	56	U
299-W23-17	45	B08CF3	4/13/93	Delta-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Dibromochloromethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Dibromomethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Dichlorodifluoromethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Dieldrin	0	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF3	4/13/93	Endosulfan I	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Endosulfan II	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Endosulfan sulfate	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Endrin	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Endrin Aldehyde	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Ethyl cyanide	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Ethyl methacrylate	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Ethylbenzene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Fluoride	100	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	Heptachlor	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Heptachlor epoxide	1	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Iron	*****	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Isobutyl alcohol	200	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Lead	3700	UG/KG	40	
299-W23-17	45	B08CF3	4/13/93	Magnesium	*****	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Manganese	400000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Methacrylonitrile	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Methoxychlor	2	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Methyl Iodide	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Methyl bromide	10	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Methyl chloride	10	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Methyl ethyl ketone	33	UG/KG	16	
299-W23-17	45	B08CF3	4/13/93	Methyl methacrylate	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Methylene chloride	2	UG/KG	16	B
299-W23-17	45	B08CF3	4/13/93	Nickel	13000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Nitrate	200	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	Nitrite	200	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	PCDDs		UG/KG	51	U
299-W23-17	45	B08CF3	4/13/93	PCDFs		UG/KG	51	U
299-W23-17	45	B08CF3	4/13/93	Pentachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Phosphate	400	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	Potassium	*****	UG/KG	34	

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF3	4/13/93	Pyridine	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Selenium	10	UG/KG	48	U
299-W23-17	45	B08CF3	4/13/93	Silver	20	UG/KG	34	U
299-W23-17	45	B08CF3	4/13/93	Sodium	250000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Styrene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Sulfate	500	UG/KG	124	U
299-W23-17	45	B08CF3	4/13/93	Sulfide	10000	UG/KG	63	U
299-W23-17	45	B08CF3	4/13/93	Tetrachloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Tetrahydrofuran	18	UG/KG	16	
299-W23-17	45	B08CF3	4/13/93	Thallium	5	UG/KG	42	U
299-W23-17	45	B08CF3	4/13/93	Tin		UG/KG	34	U
299-W23-17	45	B08CF3	4/13/93	Toluene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Toxaphene	2	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	Trichloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Trichloromonofluoromethane	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Vanadium	60000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	Vinyl acetate	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Vinyl chloride	10	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Xylene(m)	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Xylene(o)	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Xylene(p)	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	Zinc	42000	UG/KG	34	
299-W23-17	45	B08CF3	4/13/93	allylchloride	100	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	cis-1,3-Dichloropropene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	gamma-BHC (Lindane)	0	UG/KG	17	U
299-W23-17	45	B08CF3	4/13/93	trans-1,2-Dichloroethylene	5	UG/KG	16	U
299-W23-17	45	B08CF3	4/13/93	trans-1,3-Dichloropropene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,1,1,2-Tetrachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,1,1-Trichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,1,2,2-Tetrachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,1,2-Trichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,1-Dichloroethane	5	UG/KG	16	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF4	4/13/93	1,1-Dichloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,2,3-Trichloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,2-Dibromo-3-chloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,2-Dibromoethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,2-Dichloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,2-Dichloropropane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,4-Dichloro-2-butene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,4-Dichlorobenzene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	1,4-Dioxane	200	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	2,3,7,8-TCDD	0	UG/KG	51	U
299-W23-17	45	B08CF4	4/13/93	2,4,5-T	2	UG/KG	49	U
299-W23-17	45	B08CF4	4/13/93	2,4,5-TP	2	UG/KG	49	U
299-W23-17	45	B08CF4	4/13/93	2,4-D	10	UG/KG	49	U
299-W23-17	45	B08CF4	4/13/93	2-Hexanone	50	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	2-Picoline	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	2-sec-Butyl-4,6-dinitrophenol	1	UG/KG	49	U
299-W23-17	45	B08CF4	4/13/93	4,4'-DDD	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	4,4'-DDE	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	4,4'-DDT	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	4-Methyl-2-pentanone		UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Acetone	100	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Acetonitrile	200	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Acrolein	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Acrylonitrile	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Aldrin	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Alpha-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Antimony	200	UG/KG	34	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1016	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1221	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1232	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1242	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1248	1	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF4	4/13/93	Aroclor-1254	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Aroclor-1260	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Arsenic	2100	UG/KG	43	
299-W23-17	45	B08CF4	4/13/93	Barium	94000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Benzene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Beryllium	3	UG/KG	34	U
299-W23-17	45	B08CF4	4/13/93	Beta-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Bromide	500	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	Bromodichloromethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Bromoform	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Cadmium	10	UG/KG	34	U
299-W23-17	45	B08CF4	4/13/93	Calcium	*****	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Carbon disulfide	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Carbon tetrachloride	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Chlordane	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Chloride	200	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	Chlorobenzene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Chloroethane	10	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Chloroform	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Chloroprene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Chromium	11000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Cobalt	9000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Copper	9000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Cyanide	20	UG/KG	56	U
299-W23-17	45	B08CF4	4/13/93	Delta-BHC	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Dibromochloromethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Dibromomethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Dichlorodifluoromethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Dieldrin	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Endosulfan I	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Endosulfan II	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Endosulfan sulfate	1	UG/KG	17	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF4	4/13/93	Endrin	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Endrin Aldehyde	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Ethyl cyanide	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Ethyl methacrylate	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Ethylbenzene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Fluoride	100	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	Heptachlor	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Heptachlor epoxide	1	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Iron	*****	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Isobutyl alcohol	200	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Lead	3600	UG/KG	40	
299-W23-17	45	B08CF4	4/13/93	Magnesium	*****	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Manganese	390000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Methacrylonitrile	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Methoxychlor	2	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Methyl Iodide	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Methyl bromide	10	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Methyl chloride	10	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Methyl ethyl ketone	47	UG/KG	16	
299-W23-17	45	B08CF4	4/13/93	Methyl methacrylate	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Methylene chloride	3	UG/KG	16	B
299-W23-17	45	B08CF4	4/13/93	Nickel	14000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Nitrate	200	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	Nitrite	200	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	PCDDs		UG/KG	51	U
299-W23-17	45	B08CF4	4/13/93	PCDFs		UG/KG	51	U
299-W23-17	45	B08CF4	4/13/93	Pentachloroethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Phosphate	400	UG/KG	124	U
299-W23-17	45	B08CF4	4/13/93	Potassium	*****	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Pyridine	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Selenium	10	UG/KG	48	U
299-W23-17	45	B08CF4	4/13/93	Silver	20	UG/KG	34	U

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Well	Depth in Feet	Sample No	Collect Date	Compound	Result	Units	Method	Qualifier
299-W23-17	45	B08CF4	4/13/93	Sodium	230000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Styrene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Sulfate	1000	UG/KG	124	
299-W23-17	45	B08CF4	4/13/93	Sulfide	10000	UG/KG	63	U
299-W23-17	45	B08CF4	4/13/93	Tetrachloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Tetrahydrofuran	25	UG/KG	16	
299-W23-17	45	B08CF4	4/13/93	Thallium	5	UG/KG	42	U
299-W23-17	45	B08CF4	4/13/93	Tin		UG/KG	34	U
299-W23-17	45	B08CF4	4/13/93	Toluene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Toxaphene	2	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	Trichloroethene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Trichloromonofluoromethane	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Vanadium	58000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	Vinyl acetate	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Vinyl chloride	10	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Xylene(m)	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Xylene(o)	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Xylene(p)	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	Zinc	44000	UG/KG	34	
299-W23-17	45	B08CF4	4/13/93	allylchloride	100	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	cis-1,3-Dichloropropene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	gamma-BHC (Lindane)	0	UG/KG	17	U
299-W23-17	45	B08CF4	4/13/93	trans-1,2-Dichloroethylene	5	UG/KG	16	U
299-W23-17	45	B08CF4	4/13/93	trans-1,3-Dichloropropene	5	UG/KG	16	U

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APPENDIX D
RADIOLOGICAL WELL SEDIMENT DATA

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Groundwater Monitoring Well 299-23-17

Feet BGS	Am-241	Ac-226	Bi-212 /214	Cs-137	K-40	Pb-212 214	Tl-208	Pu-239	Sr-90	*U-238
5	<0.9	0.84	--/0.81	<0.05	16.	0.9/214	0.30	<0.5	<0.50	0.18
10	<0.9	0.64	0.65/--	<0.04	13.	--/0.6	0.21	<0.4	<0.73	0.12
20	<0.8	0.46	--/0.48	<0.04	10	--/0.5	0.17	<0.4	<0.62	0.13
25	<1.0	ND	--	<0.11	--	--	--	<0.5	0.29	0.50
25	<1.0	ND	--	<0.14	--	--	--	<0.4	0.29	0.17
30	<0.8	0.38	--/0.41	<0.03	10	--/0.4	0.13	<0.4	0.45	0.05
40	<1.0	0.46	0.48/--	<0.05	15	--/0.6	0.2	<0.5	<0.41	0.10
45	<1.0	0.78	0.80/--	<0.05	15	--/0.9	0.25	<0.5	7.0E ⁻⁷	0.11
135	<1.0	1.01	--/0.68	<0.04	15	0.9/0.8	0.33	<0.5	0.93	0.24
149	<0.9	0.56	--/0.60	<0.04	8.9	--/0.7	0.17	<0.4	0.34	0.22
200	<0.8	0.49	0.36/--	<0.03	131	0.4/--	<0.1	<0.4	<0.39	0.10

Units equal picocuries/gram.

< Less than Detection

-- No Data.

* Total uranium in grams/gram converted to U-238. Specific activity is 3.3E⁻⁷ curies/gram.

Groundwater Monitoring Well 299-18-33

Feet BGS	Am-241	Ac-228	Bi-212 /214	Cs-137	K-40	Pb-212 /214	Tl-208	Pu-239	Sr-90	*U-238
5	<1.0	0.85	--/0.58	<0.05	16.	--/0.6	0.26	<0.5	0.5	0.18
10	<0.9	0.47	0.38/--	<0.04	14.	--/0.5	0.19	<0.4	<0.31	1.14
20	<0.8	0.51	--/0.48	<0.04	111	--/0.5	0.17	<0.4	<0.36	0.13
26	<0.9	0.49	0.44/--	<0.03	12	0.47/--	0.17	<0.5	0.40	0.11
26	<1.0	0.69	0.39/--	<0.04	12	0.54/--	0.18	<0.5	3.1	0.08
30	<0.9	0.66	--/0.39	<0.04	130	0.5/0.4	0.21	<0.4	0.43	0.07
40	<0.9	0.46	0.46/--	<0.17	13	0.5/0.5	0.2	<0.8	0.46	0.08
50	<0.9	0.50	0.39/0.4	<0.03	12	0.5/0.5	0.15	<0.4	0.67	0.09
50	<0.9	0.70	--/0.57	0.18	179	0.6/0.7	0.22	<0.5	0.72	0.07
135	<1.0	1.29	--/1.13	<0.07	19	--/1.1	0.4	<0.5	0.67	0.50
145	<0.9	0.62	0.78/--	<0.05	8.8	0.8/0.8	0.26	1.4	0.59	0.30
200	--	--	--	--	--	--/--	--	--	--	--

Perched Water Monitoring Well 299-W18-250

Feet BGS	Am-241	Ac-228	Bi-212 /214	Cs-137	K-40	Pb-212 /214	Tl-208	Pu-239	Sr-90	U-238*
5	<0.9	--	--	<0.16	--	--	--	<6.1	<6.1E ⁻⁷	0.21
11	<0.8	--	--	<0.15	--	--	--	<0.4	5.8E ⁻⁷	0.11
14	<0.9	--	--	<0.12	--	--	--	<0.5	<2.5E ⁻⁷	0.17
16	<0.9	--	--	<0.14	--	--	--	<0.4	<7.1E ⁻⁷	0.20
18	<1.0	--	--	<0.14	--	--	--	<0.4	4.1E ⁻⁷	0.17
20	<1.0	--	--	<0.14	--	--	--	<0.5	<0.82	0.21
25	<1.0	--	--	<0.11	--	--	--	<0.5	<5.2E ⁻⁷	0.12
50	<0.9	--	--	<0.15	--	--	--	<0.4	0.45	0.21
65	<0.8	0.6	--/0.5	<.038	1.4	5.0/5.7	0.23	<0.4	0.17	0.10

Units equal picocuries/gram.

< Less than Detection

-- No Data.

* Total uranium in grams/gram converted to U-238. Specific activity is 3.3E⁻⁷ curies/gram.

Perched Water Monitoring Well 299-W18-251

Feet BGS	Am-241	Ac-228	Bi-212 /214	Cs-137	K-40	Pb-212 /214	Tl-208	Pu-239	Sr-90	*U-238
5	<0.9	0.78	0.62/0.7	<0.04	16.	0.7/0.7	0.24	<0.8	<0.4	0.40
11	<0.8	0.70	--/0.58	<0.04	13.	0.7/0.6	0.23	<0.4	<0.4	0.14
14	<0.9	0.46	0.41/0.4	<0.04	13	0.7/0.4	0.17	<0.5	<0.3	0.12
16	<1.0	<0.6	--/0.39	<0.04	12	0.5/0.4	0.17	<0.5	<0.3	0.11
18	<0.9	0.3	--/0.38	<0.04	12	0.5/0.4	0.15	<0.4	0.8	0.13
20	<1.0	0.54	--/0.45	<0.04	12	0.5/0.4	0.17	<0.5	<0.5	0.11
25	<0.9	0.56	--/0.45	<0.03	11	0.5/0.5	0.2	<0.5	<0.4	0.10
25	<1.0	0.54	--/0.47	<0.04	12	0.5/0.5	0.16	<0.5	<0.8	0.83
46	<1.0	0.75	--/0.38	<0.05	14	0.6/0.7	0.2	<0.5	5.7	0.76
98	<1.0	0.94	--/0.58	<0.05	--	0.7/0.8	0.29	<0.5	0.5	0.14
128	<1.0	--	--	<0.09	--	--	--	<0.5	0.6	0.17
149	<0.8	--	--	<0.09	--	--	--	<0.4	0.4	0.07

Groundwater Monitoring Well 299-23-16

Feet BGS	Am-241	Ac-228	Bi-212/ 214	Cs-137	K-40	Pb-212 /214	Tl-208	Pu-239	Sr-90	*U-238
5	<0.9	0.63	--/0.48	<0.04	12.	--/0.5	0.16	<0.4	0.25	0.80
10	<1.0	0.82		<0.04	16.	--/0.6	0.28	<0.5	<0.50	0.19
20	<1.0	0.61	--/0.49	<0.03	12	--/0.2	0.17	<0.5	<0.40	0.90
25	<1.0	<0.7	0.60/--	<0.05	17	--/0.7	0.23	<0.5	<0.66	0.13
30	<1.0	0.7	--/0.59	<0.04	15	--/0.6	0.29	<0.5	0.62	0.15
40	<1.0	0.51	--/0.37	<0.04	11	--/0.4	0.13	<0.5	0.32	0.15
50	<1.0	0.76	0.46/--	<0.04	13	--/0.5	0.2	<0.5	<0.67	1.15E5
135	<0.9	1.00	0.63/--	<0.05	17	--/0.7	0.33	<0.5	0.97	0.02
154	<1.0	0.83	--/0.92	<0.04	13	0.9/--	0.28	<0.5	0.55	0.50
200	<0.9	0.44	--/0.48	<0.03	107	0.4/0.6	0.16	<0.4	0.55	6.7E4
EB	<0.9	--	--	<0.03	--	--	<0.3	<0.5	<0.20	0.01

Units equal picocuries/gram.

< Less than Detection

-- No Data.

* Total uranium in grams/gram converted to U-238. Specific activity is 3.3E^{-7} curies/gram.

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APPENDIX E
PERCHED WATER DATA

B = Blank.
J = Concentration is estimated.
L = Concentration is below CRQL but above the MDL.
pCi/L = Picocuries/Liter.
U = Undetected.
Y = Filtered sample.

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Perched Water Data for Well 299-W18-250

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	1,1,1-Trichloroethane	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,1,1-Trichloroethane	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1,1,2-Trichloroethane	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,1,2-Trichloroethane	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1,1-Dichloroethane	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,1-Dichloroethane	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1,2-Dichloroethane	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,2-Dichloroethane	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1,2-Dichloroethene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,2-Dichloroethene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1,4-Dichlorobenzene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	1,4-Dichlorobenzene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	1-Butanol	4/05/93	16	1000			U	ppb	1000	B08CD4	SW-846 8240
299-W18-250	1-Butanol	4/08/93	16	1000			U	ppb	1000	B08CD9	SW-846 8240
299-W18-250	2,3,7,8-TCDD	4/05/93	51	0			U	ppb	0	B08CD4	SW-846 8280
299-W18-250	2,3,7,8-TCDD	4/08/93	51	0			U	ppb	0	B08CD9	SW-846 8280
299-W18-250	2,4,5-T	4/05/93	49	2			U	ppb	2	B08CD4	SW-846 8150
299-W18-250	2,4,5-T	4/08/93	49	2			U	ppb	2	B08CD9	SW-846 8150
299-W18-250	2,4,5-T	4/22/93	49	0			U	ppb	2	B08CG8	SW-846 8150
299-W18-250	2,4,5-TP	4/05/93	49	2			U	ppb	2	B08CD4	SW-846 8150
299-W18-250	2,4,5-TP	4/08/93	49	2			U	ppb	2	B08CD9	SW-846 8150
299-W18-250	2,4,5-TP	4/22/93	49	0			U	ppb	2	B08CG8	SW-846 8150
299-W18-250	2,4-D	4/05/93	49	10			U	ppb	10	B08CD4	SW-846 8150
299-W18-250	2,4-D	4/08/93	49	10			U	ppb	10	B08CD9	SW-846 8150
299-W18-250	2,4-D	4/22/93	49	0			U	ppb	10	B08CG8	SW-846 8150
299-W18-250	2-sec-Butyl-4,6-dinitrophenol (DNBP)	4/05/93	49	1			U	ppb	1	B08CD4	SW-846 8150
299-W18-250	2-sec-Butyl-4,6-dinitrophenol (DNBP)	4/08/93	49	1			U	ppb	1	B08CD9	SW-846 8150
299-W18-250	2-sec-Butyl-4,6-dinitrophenol (DNBP)	4/22/93	49	0			U	ppb	1	B08CG8	SW-846 8150
299-W18-250	4,4'-DDD	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	4,4'-DDD	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	4,4'-DDE	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	4,4'-DDE	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	4,4'-DDT	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	4,4'-DDT	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	4-Methyl-2-pentanone	4/05/93	16				U	ppb	50	B08CD4	SW-846 8240
299-W18-250	4-Methyl-2-pentanone	4/08/93	16				U	ppb	50	B08CD9	SW-846 8240
299-W18-250	Acetone	4/05/93	16	100			U	ppb	100	B08CD4	SW-846 8240
299-W18-250	Acetone	4/08/93	16	100			U	ppb	100	B08CD9	SW-846 8240
299-W18-250	Aldrin	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Aldrin	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Alkalinity	4/05/93	52	80				ppm	50	B08CD4	ASTM D-1067-A
299-W18-250	Alkalinity	4/08/93	52	100				ppm	50	B08CD9	ASTM D-1067-A
299-W18-250	Alpha-BHC	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Alpha-BHC	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Americium-241	4/05/93	147	0	0		U	pCi/L	0	B08CD4	ITAS Am-241
299-W18-250	Americium-241	4/08/93	147	0	0		U	pCi/L	0	B08CD9	ITAS Am-241
299-W18-250	Ammonium ion	4/05/93	54	100			U	ppb	100	B08CD4	ASTM D-1426-D
299-W18-250	Ammonium ion	4/08/93	54	100			U	ppb	100	B08CD9	ASTM D-1426-D
299-W18-250	Antimony	4/05/93	34	200			U	ppb	200	B08CD4	SW-846 6010
299-W18-250	Antimony	4/08/93	34	200			U	ppb	200	B08CD9	SW-846 6010
299-W18-250	Antimony-125	4/05/93	140	-9	14		U	pCi/L		B08CD4	ITAS Gamma Scan
299-W18-250	Antimony-125	4/08/93	140	-14	16		U	pCi/L		B08CD9	ITAS Gamma Scan
299-W18-250	Aroclor-1016	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1016	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1221	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1221	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1232	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1232	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1242	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1242	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1248	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1248	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1254	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Aroclor-1254	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Aroclor-1260	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Aroclor-1260	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Arsenic	4/05/93	43	7	6			ppb	5	B08CD4	SW-846 7060
299-W18-250	Arsenic	4/08/93	43	23	18			ppb	5	B08CD9	SW-846 7060
299-W18-250	Barium	4/05/93	34	240	1			ppb	20	B08CD4	SW-846 6010
299-W18-250	Barium	4/08/93	34	60	0			ppb	20	B08CD9	SW-846 6010
299-W18-250	Benzene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Benzene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Beryllium	4/05/93	34	3			U	ppb	3	B08CD4	SW-846 6010
299-W18-250	Beryllium	4/08/93	34	3			U	ppb	3	B08CD9	SW-846 6010
299-W18-250	Beta-BHC	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Beta-BHC	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Bromide	4/05/93	124	500			U	ppb	500	B08CD4	ASTM D-4327-88
299-W18-250	Bromide	4/08/93	124	500			U	ppb	500	B08CD9	ASTM D-4327-88
299-W18-250	Bromide	4/22/93	124	53			U	ppb	500	B08CG8	ASTM D-4327-88
299-W18-250	Bromide	5/19/93	124	53			U	ppb	500	B08CL8	ASTM D-4327-88
299-W18-250	Cadmium	4/05/93	34	10			U	ppb	10	B08CD4	SW-846 6010
299-W18-250	Cadmium	4/08/93	34	10			U	ppb	10	B08CD9	SW-846 6010
299-W18-250	Calcium	4/05/93	34	41000	12400			ppb	100	B08CD4	SW-846 6010
299-W18-250	Calcium	4/08/93	34	28000	8480			ppb	100	B08CD9	SW-846 6010
299-W18-250	Carbon tetrachloride	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Carbon tetrachloride	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Cesium-137	4/05/93	140	1	5		U	pCi/L	20	B08CD4	ITAS Gamma Scan
299-W18-250	Cesium-137	4/08/93	140	5	7		U	pCi/L	20	B08CD9	ITAS Gamma Scan
299-W18-250	Chlordane	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Chlordane	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Chloride	4/05/93	124	1500	248			ppb	200	B08CD4	ASTM D-4327-88
299-W18-250	Chloride	4/08/93	124	1300	215			ppb	200	B08CD9	ASTM D-4327-88
299-W18-250	Chloride	4/22/93	124	300	32		L	ppb	200	B08CG8	ASTM D-4327-88
299-W18-250	Chloride	5/19/93	124	1200	128			ppb	200	B08CL8	ASTM D-4327-88
299-W18-250	Chloroform	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Chloroform	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Chromium	4/05/93	34	40	10			ppb	20	B08CD4	SW-846 6010
299-W18-250	Chromium	4/08/93	34	40	10			ppb	20	B08CD9	SW-846 6010
299-W18-250	Cobalt	4/05/93	34	20	4			ppb	20	B08CD4	SW-846 6010
299-W18-250	Cobalt	4/08/93	34	20			U	ppb	20	B08CD9	SW-846 6010
299-W18-250	Cobalt-60	4/05/93	140	-5	7		U	pCi/L		B08CD4	ITAS Gamma Scan
299-W18-250	Cobalt-60	4/08/93	140	5	4			pCi/L		B08CD9	ITAS Gamma Scan
299-W18-250	Copper	4/05/93	34	50	7			ppb	20	B08CD4	SW-846 6010
299-W18-250	Copper	4/08/93	34	20			U	ppb	20	B08CD9	SW-846 6010
299-W18-250	Cyanide	4/05/93	56	20			U	ppb	20	B08CD4	SW-846 9010
299-W18-250	Cyanide	4/08/93	56	20			U	ppb	20	B08CD9	SW-846 9010
299-W18-250	Cyanide	4/22/93	56	1			U	ppb	20	B08CG8	SW-846 9010
299-W18-250	Cyanide	5/12/93	56	1			U	ppb	20	B08CL1	SW-846 9010
299-W18-250	Delta-BHC	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Delta-BHC	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Dieldrin	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Dieldrin	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Disulfoton	4/05/93	29	2			U	ppb	2	B08CD4	SW-846 8140
299-W18-250	Disulfoton	4/08/93	29	2			U	ppb	2	B08CD9	SW-846 8140
299-W18-250	Disulfoton	5/12/93	29	0			U	ppb	2	B08CL1	SW-846 8140
299-W18-250	Disulfoton	5/13/93	29	0			U	ppb	2	B08CL4	SW-846 8140
299-W18-250	Endosulfan I	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Endosulfan I	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Endosulfan II	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Endosulfan II	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Endosulfan sulfate	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Endosulfan sulfate	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Endrin	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Endrin	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Endrin Aldehyde	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Endrin Aldehyde	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Fluoride	4/05/93	124	100	7			ppb	100	B08CD4	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Fluoride	4/08/93	124	300	20			ppb	100	B08CD9	ASTM D-4327-88
299-W18-250	Fluoride	4/22/93	124	300	53			ppb	100	B08CG8	ASTM D-4327-88
299-W18-250	Fluoride	5/19/93	124	900	158			ppb	100	B08CL8	ASTM D-4327-88
299-W18-250	Gross alpha	4/05/93	135	31	11			pCi/L	4	B08CD4	SW-846 9310. Alpha
299-W18-250	Gross alpha	4/08/93	135	18	6			pCi/L	4	B08CD9	SW-846 9310. Alpha
299-W18-250	Gross alpha	4/22/93	135	7	3			pCi/L	4	B08CG8	SW-846 9310. Alpha
299-W18-250	Gross beta	4/05/93	136	34	6			pCi/L	8	B08CD4	SW-846 9310. Beta
299-W18-250	Gross beta	4/08/93	136	22	4			pCi/L	8	B08CD9	SW-846 9310. Beta
299-W18-250	Gross beta	4/22/93	136	14	2			pCi/L	8	B08CG8	SW-846 9310. Beta
299-W18-250	Heptachlor	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	Heptachlor	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080
299-W18-250	Heptachlor epoxide	4/05/93	17	1			U	ppb	1	B08CD4	SW-846 8080
299-W18-250	Heptachlor epoxide	4/08/93	17	1			U	ppb	1	B08CD9	SW-846 8080
299-W18-250	Iron	4/05/93	34	54000	24100			ppb	20	B08CD4	SW-846 6010
299-W18-250	Iron	4/08/93	34	5300	2370			ppb	20	B08CD9	SW-846 6010
299-W18-250	Lead	4/05/93	40	16	3			ppb	5	B08CD4	SW-846 7421
299-W18-250	Lead	4/08/93	40	5			U	ppb	5	B08CD9	SW-846 7421
299-W18-250	Magnesium	4/05/93	34	14000	7350			ppb	100	B08CD4	SW-846 6010
299-W18-250	Magnesium	4/08/93	34	6300	3310			ppb	100	B08CD9	SW-846 6010
299-W18-250	Manganese	4/05/93	34	1000	280			ppb	10	B08CD4	SW-846 6010
299-W18-250	Manganese	4/08/93	34	120	34			ppb	10	B08CD9	SW-846 6010
299-W18-250	Mercury	4/22/93	41	0			U	ppb	0	B08CG8	SW-846 7470
299-W18-250	Methoxychlor	4/05/93	17	2			U	ppb	2	B08CD4	SW-846 8080
299-W18-250	Methoxychlor	4/08/93	17	2			U	ppb	2	B08CD9	SW-846 8080
299-W18-250	Methyl ethyl ketone	4/05/93	16	100			U	ppb	100	B08CD4	SW-846 8240
299-W18-250	Methyl ethyl ketone	4/08/93	16	100			U	ppb	100	B08CD9	SW-846 8240
299-W18-250	Methyl parathion	4/05/93	29	1			U	ppb	1	B08CD4	SW-846 8140
299-W18-250	Methyl parathion	4/08/93	29	1			U	ppb	1	B08CD9	SW-846 8140
299-W18-250	Methyl parathion	5/12/93	29	0			U	ppb	1	B08CL1	SW-846 8140
299-W18-250	Methyl parathion	5/13/93	29	0			U	ppb	1	B08CL4	SW-846 8140
299-W18-250	Methylene chloride	4/05/93	16	2			BU	ppb	5	B08CD4	SW-846 8240
299-W18-250	Methylene chloride	4/08/93	16	2			BU	ppb	5	B08CD9	SW-846 8240

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Perched Water Data for Well 299-W18-250

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Nickel	4/05/93	34	40	11			ppb	30	B08CD4	SW-846 6010
299-W18-250	Nickel	4/08/93	34	90	24			ppb	30	B08CD9	SW-846 6010
299-W18-250	Nitrate	4/05/93	124	1100	95			ppb	200	B08CD4	ASTM D-4327-88
299-W18-250	Nitrate	4/08/93	124	400	35			ppb	200	B08CD9	ASTM D-4327-88
299-W18-250	Nitrate	4/22/93	124	44			U	ppb	200	B08CG8	ASTM D-4327-88
299-W18-250	Nitrate	5/19/93	124	700	129			ppb	200	B08CL8	ASTM D-4327-88
299-W18-250	Nitrite	4/05/93	124	500	38			ppb	200	B08CD4	ASTM D-4327-88
299-W18-250	Nitrite	4/08/93	124	200			U	ppb	200	B08CD9	ASTM D-4327-88
299-W18-250	Nitrite	4/22/93	124	38			U	ppb	200	B08CG8	ASTM D-4327-88
299-W18-250	Nitrite	5/19/93	124	38			U	ppb	200	B08CL8	ASTM D-4327-88
299-W18-250	PCDDs	4/05/93	51	0			U	ppb	0	B08CD4	SW-846 8280
299-W18-250	PCDDs	4/08/93	51	0			U	ppb	0	B08CD9	SW-846 8280
299-W18-250	PCDFs	4/05/93	51	0			U	ppb	0	B08CD4	SW-846 8280
299-W18-250	PCDFs	4/08/93	51	0			U	ppb	0	B08CD9	SW-846 8280
299-W18-250	Phorate	4/05/93	29	2			U	ppb	2	B08CD4	SW-846 8140
299-W18-250	Phorate	4/08/93	29	2			U	ppb	2	B08CD9	SW-846 8140
299-W18-250	Phorate	5/12/93	29	0			U	ppb	2	B08CL1	SW-846 8140
299-W18-250	Phorate	5/13/93	29	0			U	ppb	2	B08CL4	SW-846 8140
299-W18-250	Phosphate	4/05/93	124	400			U	ppb	400	B08CD4	ASTM D-4327-88
299-W18-250	Phosphate	4/05/93	124	400			U	ppb	500	B08CD4	ASTM D-4327-88
299-W18-250	Phosphate	4/08/93	124	400			U	ppb	400	B08CD9	ASTM D-4327-88
299-W18-250	Phosphate	4/08/93	124	400			U	ppb	500	B08CD9	ASTM D-4327-88
299-W18-250	Phosphate	4/22/93	124	700	54		L	ppb	400	B08CG8	ASTM D-4327-88
299-W18-250	Phosphate	4/22/93	124	700	54		L	ppb	500	B08CG8	ASTM D-4327-88
299-W18-250	Phosphate	5/19/93	124	400	31		L	ppb	400	B08CL8	ASTM D-4327-88
299-W18-250	Phosphate	5/19/93	124	400	31		L	ppb	500	B08CL8	ASTM D-4327-88
299-W18-250	Plutonium-238	4/05/93	146	-0	0		U	pCi/L	0	B08CD4	ITAS Isotopic Pu
299-W18-250	Plutonium-238	4/08/93	146	-0	0		U	pCi/L	0	B08CD9	ITAS Isotopic Pu
299-W18-250	Plutonium-239/40	4/05/93	146	-0	0		U	pCi/L	0	B08CD4	ITAS Isotopic Pu
299-W18-250	Plutonium-239/40	4/08/93	146	0	0		U	pCi/L	0	B08CD9	ITAS Isotopic Pu
299-W18-250	Potassium	4/05/93	34	7000	6700			ppb	300	B08CD4	SW-846 6010
299-W18-250	Potassium	4/05/93	34	7000	6700			ppb	1000	B08CD4	SW-846 6010

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Perched Water Data for Well 299-W18-250

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Potassium	4/08/93	34	4300	4120			ppb	300	B08CD9	SW-846 6010
299-W18-250	Potassium	4/08/93	34	4300	4120			ppb	1000	B08CD9	SW-846 6010
299-W18-250	Radium	4/05/93	137	0	0		U	pCi/L	1	B08CD4	SW-846 9315, Radium
299-W18-250	Radium	4/08/93	137	1	0		U	pCi/L	1	B08CD9	SW-846 9315, Radium
299-W18-250	Radium	4/22/93	137	1	0			pCi/L	1	B08CG8	SW-846 9315, Radium
299-W18-250	Radium	5/19/93	137	2	0			pCi/L	1	B08CL8	SW-846 9315, Radium
299-W18-250	Ruthenium-106	4/05/93	140	13	46		U	pCi/L		B08CD4	ITAS Gamma Scan
299-W18-250	Ruthenium-106	4/08/93	140	26	53		U	pCi/L		B08CD9	ITAS Gamma Scan
299-W18-250	Selenium	4/05/93	48	10			U	ppb	10	B08CD4	SW-846 7740
299-W18-250	Selenium	4/08/93	48	10			U	ppb	10	B08CD9	SW-846 7740
299-W18-250	Silver	4/05/93	34	20			U	ppb	20	B08CD4	SW-846 6010
299-W18-250	Silver	4/08/93	34	20			U	ppb	20	B08CD9	SW-846 6010
299-W18-250	Sodium	4/05/93	34	6100	1900			ppb	300	B08CD4	SW-846 6010
299-W18-250	Sodium	4/08/93	34	11000	3430			ppb	300	B08CD9	SW-846 6010
299-W18-250	Sulfate	4/05/93	124	6100	296			ppb	500	B08CD4	ASTM D-4327-88
299-W18-250	Sulfate	4/08/93	124	11000	535			ppb	500	B08CD9	ASTM D-4327-88
299-W18-250	Sulfate	4/22/93	124	2000	227			ppb	500	B08CG8	ASTM D-4327-88
299-W18-250	Sulfate	5/19/93	124	8000	851			ppb	500	B08CL8	ASTM D-4327-88
299-W18-250	Sulfide	4/05/93	63	10000			U	ppb	10000	B08CD4	SW-846 9030
299-W18-250	Sulfide	4/08/93	63	10000			U	ppb	10000	B08CD9	SW-846 9030
299-W18-250	Sulfide	5/17/93	63	40000	5710		BL	ppb	10000	B08CL5	SW-846 9030
299-W18-250	Sulfide	5/19/93	63	30000	4280		BL	ppb	10000	B08CL8	SW-846 9030
299-W18-250	Technetium-99	4/05/93	143	-2	2		U	pCi/L	15	B08CD4	ITAS Tc-99
299-W18-250	Technetium-99	4/08/93	143	-1	2		U	pCi/L	15	B08CD9	ITAS Tc-99
299-W18-250	Tetrachloroethene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Tetrachloroethene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Tetrahydrofuran	4/05/93	16				U	ppb	10	B08CD4	SW-846 8240
299-W18-250	Tetrahydrofuran	4/08/93	16				U	ppb	10	B08CD9	SW-846 8240
299-W18-250	Thallium	4/05/93	42	5			U	ppb	5	B08CD4	SW-846 7841
299-W18-250	Thallium	4/08/93	42	5			U	ppb	5	B08CD9	SW-846 7841
299-W18-250	Tin	4/05/93	34	100			U	ppb	100	B08CD4	SW-846 6010
299-W18-250	Tin	4/08/93	34	100			U	ppb	100	B08CD9	SW-846 6010

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Perched Water Data for Well 299-W18-250

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-250	Toluene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Toluene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Total Dissolved Solids	4/05/93	65	140			B	ppm	10	B08CD4	Std Meth #209B
299-W18-250	Total Dissolved Solids	4/08/93	65	160			B	ppm	10	B08CD9	Std Meth #209B
299-W18-250	Total Organic Carbon	4/05/93	122	1000			U	ppb	1000	B08CD4	SW-846 9060
299-W18-250	Total Organic Carbon	4/08/93	122	1000			U	ppb	1000	B08CD9	SW-846 9060
299-W18-250	Total Organic Halogen	4/05/93	67	10			U	ppb	10	B08CD4	SW-846 9020
299-W18-250	Total Organic Halogen	4/08/93	67	10			U	ppb	10	B08CD9	SW-846 9020
299-W18-250	Toxaphene	4/05/93	17	2			U	ppb	2	B08CD4	SW-846 8080
299-W18-250	Toxaphene	4/08/93	17	2			U	ppb	2	B08CD9	SW-846 8080
299-W18-250	Trichloroethene	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Trichloroethene	4/08/93	16	5			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Tritium	4/05/93	142	102	224		U	pCi/L	500	B08CD4	ITAS H-3
299-W18-250	Tritium	4/08/93	142	-27	217		U	pCi/L	500	B08CD9	ITAS H-3
299-W18-250	Turbidity	4/05/93	126	100				NTU	0	B08CD4	Std Meth #214A
299-W18-250	Turbidity	4/08/93	126	9				NTU	0	B08CD9	Std Meth #214A
299-W18-250	Uranium	4/05/93	145	1			U	ppb	1	B08CD4	ITAS Gross U
299-W18-250	Uranium	4/08/93	145	1			U	ppb	1	B08CD9	ITAS Gross U
299-W18-250	Vanadium	4/05/93	34	80	17			ppb	30	B08CD4	SW-846 6010
299-W18-250	Vanadium	4/08/93	34	50	10			ppb	30	B08CD9	SW-846 6010
299-W18-250	Vinyl chloride	4/05/93	16	10			U	ppb	10	B08CD4	SW-846 8240
299-W18-250	Vinyl chloride	4/08/93	16	10			U	ppb	10	B08CD9	SW-846 8240
299-W18-250	Xylenes (total)	4/05/93	16	5			U	ppb	5	B08CD4	SW-846 8240
299-W18-250	Xylenes (total)	4/08/93	16	3			U	ppb	5	B08CD9	SW-846 8240
299-W18-250	Zinc	4/05/93	34	120	37			ppb	10	B08CD4	SW-846 6010
299-W18-250	Zinc	4/08/93	34	10			U	ppb	10	B08CD9	SW-846 6010
299-W18-250	gamma-BHC (Lindane)	4/05/93	17	0			U	ppb	0	B08CD4	SW-846 8080
299-W18-250	gamma-BHC (Lindane)	4/08/93	17	0			U	ppb	0	B08CD9	SW-846 8080

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Perch Water Data for Well 299-W18-251

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-251	2,4,5-T	6/16/93	49	0			U	ppb	2	B08NH6	SW-846 8150
299-W18-251	2,4,5-TP	6/16/93	49	0			U	ppb	2	B08NH6	SW-846 8150
299-W18-251	2,4-D	6/16/93	49	0			U	ppb	10	B08NH6	SW-846 8150
299-W18-251	2-sec-Butyl-4,6-dinitrophenol(DNBP)	6/16/93	49	0			U	ppb	1	B08NH6	SW-846 8150
299-W18-251	4,4'-DDD	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	4,4'-DDE	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	4,4'-DDT	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Aldrin	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Alkalinity	6/16/93	52	100				ppm	50	B08NH6	ASTM D-1067-A
299-W18-251	Alpha-BHC	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Aluminum	6/16/93	34	33		Y	U	ppb	200	B08NH7	SW-846 6010
299-W18-251	Aluminum	6/16/93	34	100			L	ppb	200	B08NH6	SW-846 6010
299-W18-251	Americium-241	6/16/93	147	0	0			pCi/L	0	B08NH6	ITAS Am-241
299-W18-251	Ammonium ion	6/16/93	54	39			U	ppb	100	B08NH6	ASTM D-1426-D
299-W18-251	Antimony	6/16/93	34	69			U	ppb	200	B08NH6	SW-846 6010
299-W18-251	Antimony, filtered	6/16/93	34	69		Y	U	ppb	200	B08NH7	SW-846 6010
299-W18-251	Antimony-125	6/16/93	140	-3	16		U	pCi/L		B08NH6	ITAS Gamma Scan
299-W18-251	Aroclor-1016	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1221	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1232	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1242	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1248	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1254	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Aroclor-1260	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Arsenic	6/16/93	43	23	18			ppb	5	B08NH6	SW-846 7060
299-W18-251	Arsenic, filtered	6/16/93	43	22	18	Y		ppb	5	B08NH7	SW-846 7060
299-W18-251	Barium	6/16/93	34	48	0			ppb	20	B08NH6	SW-846 6010
299-W18-251	Barium, filtered	6/16/93	34	48	0	Y		ppb	20	B08NH7	SW-846 6010
299-W18-251	Beryllium	6/16/93	34	1			U	ppb	3	B08NH6	SW-846 6010
299-W18-251	Beryllium, filtered	6/16/93	34	1		Y	U	ppb	3	B08NH7	SW-846 6010
299-W18-251	Beta-BHC	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080

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Perch Water Data for Well 299-W18-251

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-251	Bromide	6/16/93	124	53			U	ppb	500	B08NH6	ASTM D-432, d8
299-W18-251	Cadmium	6/16/93	34	5			U	ppb	10	B08NH6	SW-846 6010
299-W18-251	Cadmium, filtered	6/16/93	34	5		Y	U	ppb	10	B08NH7	SW-846 6010
299-W18-251	Calcium	6/16/93	34	29000	8790			ppb	100	B08NH6	SW-846 6010
299-W18-251	Calcium, filtered	6/16/93	34	27000	8180	Y		ppb	100	B08NH7	SW-846 6010
299-W18-251	Cesium-137	6/16/93	140	-2	6		U	pCi/L	20	B08NH6	ITAS Gamma Scan
299-W18-251	Chlordane	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Chloride	6/16/93	124	1800	298			ppb	200	B08NH6	ASTM D-4327-88
299-W18-251	Chromium	6/16/93	34	5			U	ppb	20	B08NH6	SW-846 6010
299-W18-251	Chromium, filtered	6/16/93	34	5		Y	U	ppb	20	B08NH7	SW-846 6010
299-W18-251	Cobalt	6/16/93	34	4			U	ppb	20	B08NH6	SW-846 6010
299-W18-251	Cobalt, filtered	6/16/93	34	4		Y	U	ppb	20	B08NH7	SW-846 6010
299-W18-251	Cobalt-60	6/16/93	140	5	4			pCi/L		B08NH6	ITAS Gamma Scan
299-W18-251	Copper	6/16/93	34	3			U	ppb	20	B08NH6	SW-846 6010
299-W18-251	Copper, filtered	6/16/93	34	3		Y	U	ppb	20	B08NH7	SW-846 6010
299-W18-251	Cyanide	6/16/93	56	1			U	ppb	20	B08NH6	SW-846 9010
299-W18-251	Delta-BHC	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Dieldrin	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Disulfoton	6/16/93	29	0			U	ppb	2	B08NH6	SW-846 8140
299-W18-251	Endosulfan I	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Endosulfan II	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Endosulfan sulfate	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Endrin	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Endrin Aldehyde	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Fluoride	6/16/93	124	300	20			ppb	100	B08NH6	ASTM D-4327-88
299-W18-251	Gross alpha	6/16/93	135	29	7			pCi/L	4	B08NH6	SW-846 9310, Alpha
299-W18-251	Gross beta	6/16/93	136	19	4			pCi/L	8	B08NH6	SW-846 9310, Beta
299-W18-251	Heptachlor	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	Heptachlor epoxide	6/16/93	17	0			U	ppb	1	B08NH6	SW-846 8080
299-W18-251	Iron	6/16/93	34	190	85			ppb	20	B08NH6	SW-846 6010
299-W18-251	Iron, filtered	6/16/93	34	10		Y	U	ppb	20	B08NH7	SW-846 6010
299-W18-251	Lead	6/16/93	40	1	0		L	ppb	5	B08NH6	SW-846 742i

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Perch Water Data for Well 299-W18-251

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-251	Lead, filtered	6/16/93	40	1		Y	U	ppb	5	B08NH7	SW-846 7421
299-W18-251	Magnesium	6/16/93	34	6200	3250			ppb	100	B08NH6	SW-846 6010
299-W18-251	Magnesium, filtered	6/16/93	34	6000	3150	Y		ppb	100	B08NH7	SW-846 6010
299-W18-251	Manganese	6/16/93	34	50	14			ppb	10	B08NH6	SW-846 6010
299-W18-251	Manganese, filtered	6/16/93	34	44	12	Y		ppb	10	B08NH7	SW-846 6010
299-W18-251	Mercury	6/16/93	41	0			U	ppb	0	B08NH6	SW-846 7470
299-W18-251	Mercury, filtered	6/16/93	41	0		Y	U	ppb	0	B08NH7	SW-846 7470
299-W18-251	Methoxychlor	6/16/93	17	0			U	ppb	2	B08NH6	SW-846 8080
299-W18-251	Methyl parathion	6/16/93	29	0			U	ppb	1	B08NH6	SW-846 8140
299-W18-251	Nickel	6/16/93	34	18			U	ppb	30	B08NH6	SW-846 6010
299-W18-251	Nickel, filtered	6/16/93	34	18		Y	U	ppb	30	B08NH7	SW-846 6010
299-W18-251	Nitrate	6/16/93	124	700	61			ppb	200	B08NH6	ASTM D-4327-88
299-W18-251	Nitrite	6/16/93	124	38			U	ppb	200	B08NH6	ASTM D-4327-88
299-W18-251	Phorate	6/16/93	29	0			U	ppb	2	B08NH6	SW-846 8140
299-W18-251	Phosphate	6/16/93	124	147			U	ppb	400	B08NH6	ASTM D-4327-88
299-W18-251	Phosphate	6/16/93	124	147			U	ppb	500	B08NH6	ASTM D-4327-88
299-W18-251	Plutonium-238	6/16/93	146	0	0		U	pCi/L	0	B08NH6	ITAS Isotopic Pu
299-W18-251	Plutonium-239/40	6/16/93	146	0	0		U	pCi/L	0	B08NH6	ITAS Isotopic Pu
299-W18-251	Potassium	6/16/93	34	4500	4310			ppb	300	B08NH6	SW-846 6010
299-W18-251	Potassium	6/16/93	34	4500	4310			ppb	1000	B08NH6	SW-846 6010
299-W18-251	Potassium, filtered	6/16/93	34	4400	4210	Y		ppb	300	B08NH7	SW-846 6010
299-W18-251	Potassium, filtered	6/16/93	34	4400	4210	Y		ppb	1000	B08NH7	SW-846 6010
299-W18-251	Ruthenium-106	6/16/93	140	-4	52		U	pCi/L		B08NH6	ITAS Gamma Scan
299-W18-251	Selenium	6/16/93	48	1			U	ppb	10	B08NH6	SW-846 7740
299-W18-251	Selenium, filtered	6/16/93	48	1		Y	U	ppb	10	B08NH7	SW-846 7740
299-W18-251	Silver	6/16/93	34	3			U	ppb	20	B08NH6	SW-846 6010
299-W18-251	Silver, filtered	6/16/93	34	3		Y	U	ppb	20	B08NH7	SW-846 6010
299-W18-251	Sodium	6/16/93	34	7900	2460			ppb	300	B08NH6	SW-846 6010
299-W18-251	Sodium, filtered	6/16/93	34	8900	2780	Y		ppb	300	B08NH7	SW-846 6010
299-W18-251	Specific conductance	6/16/93	73	220				umhos		B08NH6	ASTM D-1125-A
299-W18-251	Strontium-90	6/16/93	141	0	0		U	pCi/L	5	B08NH6	ITAS Sr-90
299-W18-251	Sulfate	6/16/93	124	13000	632			ppb	500	B08NH6	ASTM D-4327-88

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Perch Water Data for Well 299-W18-251

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-251	Sulfide	6/16/93	63	10000			U	ppb	10000	B08NH6	SW-846 9030
299-W18-251	Technetium-99	6/16/93	143	1	2		U	pCi/L	15	B08NH6	ITAS Tc-99
299-W18-251	Thallium	6/16/93	42	1			U	ppb	5	B08NH6	SW-846 7841
299-W18-251	Thallium, filtered	6/16/93	42	1		Y	U	ppb	5	B08NH7	SW-846 7841
299-W18-251	Tin	6/16/93	34	51			U	ppb	100	B08NH6	SW-846 6010
299-W18-251	Tin, filtered	6/16/93	34	51		Y	U	ppb	100	B08NH7	SW-846 6010
299-W18-251	Total Dissolved Solids	6/16/93	65	170			B	ppm	10	B08NH6	Std Meth #209B
299-W18-251	Total Organic Carbon	6/16/93	122	600			L	ppb	1000	B08NH6	SW-846 9060
299-W18-251	Total Organic Halogen	6/16/93	67	8			U	ppb	10	B08NH6	SW-846 9020
299-W18-251	Toxaphene	6/16/93	17	1			U	ppb	2	B08NH6	SW-846 8080
299-W18-251	Tritium	6/16/93	142	65	240		U	pCi/L	500	B08NH6	ITAS H-3
299-W18-251	Uranium-234	6/16/93	148	14	1			pCi/L	0	B08NH6	ITAS Isotopic U
299-W18-251	Uranium-235	6/16/93	148	1	0			pCi/L	0	B08NH6	ITAS Isotopic U
299-W18-251	Uranium-238	6/16/93	148	15	2			pCi/L	0	B08NH6	ITAS Isotopic U
299-W18-251	Vanadium	6/16/93	34	33	7			ppb	30	B08NH6	SW-846 6010
299-W18-251	Vanadium, filtered	6/16/93	34	37	8	Y		ppb	30	B08NH7	SW-846 6010
299-W18-251	Zinc	6/16/93	34	3			U	ppb	10	B08NH6	SW-846 6010
299-W18-251	Zinc, filtered	6/16/93	34	3		Y	U	ppb	10	B08NH7	SW-846 6010
299-W18-251	gamma-BHC (Lindane)	6/16/93	17	0			U	ppb	0	B08NH6	SW-846 8080
299-W18-251	pH	6/16/93	125	8				pH		B08NH6	ASTM D-1293

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Perched Water Data for Well 299-W19-91

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	1.1.1.2-Tetrachloroethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1.1.1-Trichloroethane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.1.2.2-Tetrachloroethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	5/05/93	16	0			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1.1.2-Trichloroethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.1-Dichloroethane	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	1.1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	1.1-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	1.1-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	1.1-Dichloroethane	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	1.1-Dichloroethane	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1.1-Dichloroethane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.1-Dichloroethene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.2.3-Trichloropropane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.2-Dibromo-3-chloropropane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.2-Dibromoethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1.2-Dichloroethane	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	1.2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	1.2-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	1.2-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	1,2-Dichloroethane	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	1,2-Dichloroethane	5/05/93	16	0			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1,2-Dichloroethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1,2-Dichloroethene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1,2-Dichloroethene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1,2-Dichloropropane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	1,4-Dichlorobenzene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	1,4-Dioxane	7/27/93	16	44			U	ppb	200	B08MQ8	SW-846 8240
299-W19-91	1-Butanol	3/25/92	16	1000			U	ppb	1000	B06544	SW-846 8240
299-W19-91	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074N5	SW-846 8240
299-W19-91	1-Butanol	10/16/92	16	1000			U	ppb	1000	B07J90	SW-846 8240
299-W19-91	1-Butanol	12/01/92	16	1000			U	ppb	1000	B07QG5	SW-846 8240
299-W19-91	1-Butanol	2/03/93	16	1000			U	ppb	1000	B08417	SW-846 8240
299-W19-91	1-Butanol	5/05/93	16	13			U	ppb	1000	B08HT3	SW-846 8240
299-W19-91	1-Butanol	7/27/93	16	13			U	ppb	1000	B08MQ8	SW-846 8240
299-W19-91	2-Hexanone	7/27/93	16	1			U	ppb	50	B08MQ8	SW-846 8240
299-W19-91	4,4'-DDD	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	4,4'-DDE	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	4,4'-DDT	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	4-Methyl-2-pentanone	3/25/92	16	50			U	ppb	50	B06544	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074N5	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	10/16/92	16	50			U	ppb	50	B07J90	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	12/01/92	16	50			U	ppb	50	B07QG5	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	2/03/93	16	50			U	ppb	50	B08417	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	5/05/93	16	1			U	ppb	50	B08HT3	SW-846 8240
299-W19-91	4-Methyl-2-pentanone	7/27/93	16	1			U	ppb	50	B08MQ8	SW-846 8240
299-W19-91	Acetone	3/25/92	16	100			U	ppb	100	B06544	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Acetone	8/12/92	16	100			U	ppb	100	B074N5	SW-846 8240
299-W19-91	Acetone	10/16/92	16	100			U	ppb	100	B07J90	SW-846 8240
299-W19-91	Acetone	12/01/92	16	71			B	ppb	100	B07Q65	SW-846 8240
299-W19-91	Acetone	2/03/93	16	100			U	ppb	100	B08417	SW-846 8240
299-W19-91	Acetone	5/05/93	16	13			U	ppb	100	B08HT3	SW-846 8240
299-W19-91	Acetone	7/27/93	16	13			U	ppb	100	B08MQ8	SW-846 8240
299-W19-91	Acetonitrile	7/27/93	16	19			U	ppb	200	B08MQ8	SW-846 8240
299-W19-91	Acrolein	7/27/93	16	10			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Acrylonitrile	7/27/93	16	4			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Aldrin	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Alkalinity	7/27/93	52	80				ppm	50	B08MQ8	ASTM D-1067-A
299-W19-91	Alpha-BHC	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Aluminum	5/05/93	34	500				ppb	200	B08HT3	SW-846 6010
299-W19-91	Aluminum	8/30/93	34	290				ppb	200	B091J0	SW-846 6010
299-W19-91	Americium-241	10/16/92	147	-0	0		U	pCi/L	0	B07J90	ITAS Am-241
299-W19-91	Americium-241	2/03/93	147	-0	0		U	pCi/L	0	B08417	ITAS Am-241
299-W19-91	Americium-241	7/27/93	147	-0	0		U	pCi/L	0	B08MQ8	ITAS Am-241
299-W19-91	Ammonium ion	7/27/93	54	39			U	ppb	100	B08MQ8	ASTM D-1426-D
299-W19-91	Antimony	3/25/92	34	200			U	ppb	200	B06544	SW-846 6010
299-W19-91	Antimony	10/16/92	34	200			U	ppb	200	B07J90	SW-846 6010
299-W19-91	Antimony	12/01/92	34	200			U	ppb	200	B07Q65	SW-846 6010
299-W19-91	Antimony	2/03/93	34	200			U	ppb	200	B08417	SW-846 6010
299-W19-91	Antimony	5/05/93	34	69			U	ppb	200	B08HT3	SW-846 6010
299-W19-91	Antimony	8/30/93	34	69			U	ppb	200	B091J0	SW-846 6010
299-W19-91	Antimony-125	10/16/92	140	-9	16		U	pCi/L		B07J90	ITAS Gamma Scan
299-W19-91	Antimony-125	2/03/93	140	-12	17		U	pCi/L		B08417	ITAS Gamma Scan
299-W19-91	Antimony-125	7/27/93	140	7	13		U	pCi/L		B08MQ8	ITAS Gamma Scan
299-W19-91	Aroclor-1016	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Aroclor-1221	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Aroclor-1232	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Aroclor-1242	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Aroclor-1248	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Aroclor-1254	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Aroclor-1260	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Arsenic	7/27/93	43	15	12			ppb	5	B08MQ8	SW-846 7060
299-W19-91	Barium	3/25/92	34	7200	994			ppb	20	B06544	SW-846 6010
299-W19-91	Barium	10/16/92	34	1100	152			ppb	20	B07J90	SW-846 6010
299-W19-91	Barium	12/01/92	34	720	99			ppb	20	B07QG5	SW-846 6010
299-W19-91	Barium	2/03/93	34	400	55			ppb	20	B08417	SW-846 6010
299-W19-91	Barium	5/05/93	34	70	0			ppb	20	B08HT3	SW-846 6010
299-W19-91	Barium	8/30/93	34	42	0			ppb	20	B091J0	SW-846 6010
299-W19-91	Benzene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Benzene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Benzene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Benzene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Benzene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Benzene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Benzene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Beryllium	3/25/92	34	5	1			ppb	3	B06544	SW-846 6010
299-W19-91	Beryllium	10/16/92	34	3			U	ppb	3	B07J90	SW-846 6010
299-W19-91	Beryllium	12/01/92	34	3			U	ppb	3	B07QG5	SW-846 6010
299-W19-91	Beryllium	2/03/93	34	3			U	ppb	3	B08417	SW-846 6010
299-W19-91	Beryllium	5/05/93	34	1			U	ppb	3	B08HT3	SW-846 6010
299-W19-91	Beryllium	8/30/93	34	2	0		L	ppb	3	B091J0	SW-846 6010
299-W19-91	Beta-BHC	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Bromide	3/25/92	124	500			U	ppb	500	B06544	ASTM D-4327-88
299-W19-91	Bromide	5/05/92	124	500			U	ppb	500	B06DY5	ASTM D-4327-88
299-W19-91	Bromide	8/12/92	124	500			U	ppb	500	B074N5	ASTM D-4327-88
299-W19-91	Bromide	10/16/92	124	500			U	ppb	500	B07J90	ASTM D-4327-88
299-W19-91	Bromide	12/01/92	124	500			U	ppb	500	B07QG5	ASTM D-4327-88
299-W19-91	Bromide	2/03/93	124	500			U	ppb	500	B08417	ASTM D-4327-88
299-W19-91	Bromide	5/05/93	124	53			U	ppb	500	B08HT3	ASTM D-4327-88
299-W19-91	Bromodichloromethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Bromoform	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Cadmium	3/25/92	34	10			U	ppb	10	B06544	SW-846 6010
299-W19-91	Cadmium	10/16/92	34	10			U	ppb	10	B07J90	SW-846 6010
299-W19-91	Cadmium	12/01/92	34	10			U	ppb	10	B07QG5	SW-846 6010
299-W19-91	Cadmium	2/03/93	34	10			U	ppb	10	B08417	SW-846 6010
299-W19-91	Cadmium	5/05/93	34	5			U	ppb	10	B08HT3	SW-846 6010
299-W19-91	Cadmium	8/30/93	34	5			U	ppb	10	B091J0	SW-846 6010
299-W19-91	Calcium	3/25/92	34	290000				ppb	100	B06544	SW-846 6010
299-W19-91	Calcium	10/16/92	34	58000				ppb	100	B07J90	SW-846 6010
299-W19-91	Calcium	12/01/92	34	44000				ppb	100	B07QG5	SW-846 6010
299-W19-91	Calcium	2/03/93	34	37000				ppb	100	B08417	SW-846 6010
299-W19-91	Calcium	5/05/93	34	28000	8480			ppb	100	B08HT3	SW-846 6010
299-W19-91	Calcium	8/30/93	34	14000	4240			ppb	100	B091J0	SW-846 6010
299-W19-91	Carbon disulfide	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Carbon disulfide	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Carbon tetrachloride	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Carbon tetrachloride	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Carbon tetrachloride	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Carbon tetrachloride	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Carbon tetrachloride	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Carbon tetrachloride	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Carbon tetrachloride	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Cesium-137	10/16/92	140	2	7		U	pCi/L	20	B07J90	ITAS Gamma Scan
299-W19-91	Cesium-137	2/03/93	140	0	6		U	pCi/L	20	B08417	ITAS Gamma Scan
299-W19-91	Cesium-137	7/27/93	140	-4	6		U	pCi/L	20	B08MQ8	ITAS Gamma Scan
299-W19-91	Chlordane	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Chloride	3/25/92	124	1400	471			ppb	200	B06544	ASTM D-4327-88
299-W19-91	Chloride	5/05/92	124	1400	471			ppb	200	B06DY5	ASTM D-4327-88
299-W19-91	Chloride	8/12/92	124	1500	505			ppb	200	B074N5	ASTM D-4327-88
299-W19-91	Chloride	10/16/92	124	1300	438			ppb	200	B07J90	ASTM D-4327-88
299-W19-91	Chloride	12/01/92	124	1000	337			ppb	200	B07QG5	ASTM D-4327-88
299-W19-91	Chloride	2/03/93	124	1200	404			ppb	200	B08417	ASTM D-4327-88
299-W19-91	Chloride	5/05/93	124	1200	199			ppb	200	B08HT3	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Chlorobenzene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Chloroethane	7/27/93	16	1			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Chloroform	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Chloroform	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Chloroform	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Chloroform	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Chloroform	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Chloroform	5/05/93	16	0			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Chloroform	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Chloroprene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Chromium	3/25/92	34	56	33			ppb	20	B06544	SW-846 6010
299-W19-91	Chromium	10/16/92	34	50	30			ppb	20	B07J90	SW-846 6010
299-W19-91	Chromium	12/01/92	34	50	30			ppb	20	B07QG5	SW-846 6010
299-W19-91	Chromium	2/03/93	34	110	66			ppb	20	B08417	SW-846 6010
299-W19-91	Chromium	5/05/93	34	5			U	ppb	20	B08HT3	SW-846 6010
299-W19-91	Chromium	8/30/93	34	26	7			ppb	20	B091J0	SW-846 6010
299-W19-91	Cobalt	3/25/92	34	68	8			ppb	20	B06544	SW-846 6010
299-W19-91	Cobalt	10/16/92	34	20			U	ppb	20	B07J90	SW-846 6010
299-W19-91	Cobalt	12/01/92	34	20	2			ppb	20	B07QG5	SW-846 6010
299-W19-91	Cobalt	2/03/93	34	20			U	ppb	20	B08417	SW-846 6010
299-W19-91	Cobalt	5/05/93	34	4			U	ppb	20	B08HT3	SW-846 6010
299-W19-91	Cobalt	8/30/93	34	4			U	ppb	20	B091J0	SW-846 6010
299-W19-91	Cobalt-60	10/16/92	140	-0	8		U	pCi/L		B07J90	ITAS Gamma Scan
299-W19-91	Cobalt-60	2/03/93	140	-0	8		U	pCi/L		B08417	ITAS Gamma Scan
299-W19-91	Cobalt-60	7/27/93	140	-2	8		U	pCi/L		B08MQ8	ITAS Gamma Scan
299-W19-91	Copper	3/25/92	34	250	51			ppb	20	B06544	SW-846 6010
299-W19-91	Copper	10/16/92	34	40	8			ppb	20	B07J90	SW-846 6010
299-W19-91	Copper	12/01/92	34	30	6			ppb	20	B07QG5	SW-846 6010
299-W19-91	Copper	2/03/93	34	20			U	ppb	20	B08417	SW-846 6010
299-W19-91	Copper	5/05/93	34	3			U	ppb	20	B08HT3	SW-846 6010
299-W19-91	Copper	8/30/93	34	9	1		L	ppb	20	B091J0	SW-846 6010
299-W19-91	Cyanide	7/27/93	358	1			U	ppb	20	B08MQ8	SW-846 9012

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Delta-BHC	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Dibromochloromethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Dibromomethane	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Dichlorodifluoromethane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Dieldrin	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Disulfoton	7/27/93	29	0			U	ppb	2	B08MQ8	SW-846 8140
299-W19-91	Endosulfan I	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Endosulfan II	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Endosulfan sulfate	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Endrin	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Endrin Aldehyde	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Ethyl cyanide	5/05/93	16	4			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Ethyl cyanide	5/05/93	16	4			U	ppb	10	B08HT3	SW-846 8240
299-W19-91	Ethyl cyanide	7/27/93	16	4			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Ethyl cyanide	7/27/93	16	4			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Ethyl methacrylate	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Ethylbenzene	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Fluoride	3/25/92	124	100	21			ppb	100	B06544	ASTM D-4327-88
299-W19-91	Fluoride	5/05/92	124	100			U	ppb	100	B06DY5	ASTM D-4327-88
299-W19-91	Fluoride	8/12/92	124	100	21			ppb	100	B074N5	ASTM D-4327-88
299-W19-91	Fluoride	10/16/92	124	100	21			ppb	100	B07J90	ASTM D-4327-88
299-W19-91	Fluoride	12/01/92	124	100	21			ppb	100	B07QG5	ASTM D-4327-88
299-W19-91	Fluoride	2/03/93	124	200	42			ppb	100	B08417	ASTM D-4327-88
299-W19-91	Fluoride	5/05/93	124	200	13			ppb	100	B08HT3	ASTM D-4327-88
299-W19-91	Gross alpha	3/25/92	135	900	239			pCi/L	4	B06544	SW-846 9310. Alpha
299-W19-91	Gross alpha	5/05/92	135	77	16			pCi/L	4	B06DY5	SW-846 9310. Alpha
299-W19-91	Gross alpha	8/12/92	135	126	29			pCi/L	4	B074N5	SW-846 9310. Alpha
299-W19-91	Gross alpha	10/16/92	135	37	9			pCi/L	4	B07J90	SW-846 9310. Alpha
299-W19-91	Gross alpha	12/01/92	135	35	8			pCi/L	4	B07QG5	SW-846 9310. Alpha
299-W19-91	Gross alpha	2/03/93	135	12	4			pCi/L	4	B08417	SW-846 9310. Alpha
299-W19-91	Gross alpha	5/05/93	135	43	11			pCi/L	4	B08HT3	SW-846 9310. Alpha
299-W19-91	Gross alpha	8/30/93	135	2	1			pCi/L	4	B091J0	SW-846 9310. Alpha

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Gross beta	3/25/92	136	413	44			pCi/L	8	B06544	SW-846 9310. Beta
299-W19-91	Gross beta	5/05/92	136	27	5			pCi/L	8	B06DY5	SW-846 9310. Beta
299-W19-91	Gross beta	8/12/92	136	43	7			pCi/L	8	B074N5	SW-846 9310. Beta
299-W19-91	Gross beta	10/16/92	136	15	4			pCi/L	8	B07J90	SW-846 9310. Beta
299-W19-91	Gross beta	12/01/92	136	14	3			pCi/L	8	B07QG5	SW-846 9310. Beta
299-W19-91	Gross beta	2/03/93	136	10	3			pCi/L	8	B08417	SW-846 9310. Beta
299-W19-91	Gross beta	5/05/93	136	34	5			pCi/L	8	B08HT3	SW-846 9310. Beta
299-W19-91	Gross beta	8/30/93	136	5	3			pCi/L	8	B091J0	SW-846 9310. Beta
299-W19-91	Heptachlor	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080
299-W19-91	Heptachlor epoxide	7/27/93	17	0			U	ppb	1	B08MQ8	SW-846 8080
299-W19-91	Iron	3/25/92	34	600000	516000			ppb	20	B06544	SW-846 6010
299-W19-91	Iron	10/16/92	34	630000	542000			ppb	20	B07J90	SW-846 6010
299-W19-91	Iron	12/01/92	34	420000	361000			ppb	20	B07QG5	SW-846 6010
299-W19-91	Iron	2/03/93	34	210000	181000			ppb	20	B08417	SW-846 6010
299-W19-91	Iron	5/05/93	34	49000	21900			ppb	20	B08HT3	SW-846 6010
299-W19-91	Iron	8/30/93	34	26000	11600			ppb	20	B091J0	SW-846 6010
299-W19-91	Isobutyl alcohol	7/27/93	16	27			U	ppb	200	B08MQ8	SW-846 8240
299-W19-91	Lead	7/27/93	40	7	1			ppb	5	B08MQ8	SW-846 7421
299-W19-91	Magnesium	3/25/92	34	35000				ppb	100	B06544	SW-846 6010
299-W19-91	Magnesium	10/16/92	34	10000				ppb	100	B07J90	SW-846 6010
299-W19-91	Magnesium	12/01/92	34	8600				ppb	100	B07QG5	SW-846 6010
299-W19-91	Magnesium	2/03/93	34	7000				ppb	100	B08417	SW-846 6010
299-W19-91	Magnesium	5/05/93	34	5000	2630			ppb	100	B08HT3	SW-846 6010
299-W19-91	Magnesium	8/30/93	34	3800	1990			ppb	100	B091J0	SW-846 6010
299-W19-91	Manganese	3/25/92	34	15000	2290			ppb	10	B06544	SW-846 6010
299-W19-91	Manganese	10/16/92	34	6400	977			ppb	10	B07J90	SW-846 6010
299-W19-91	Manganese	12/01/92	34	5400	825			ppb	10	B07QG5	SW-846 6010
299-W19-91	Manganese	2/03/93	34	4100	626			ppb	10	B08417	SW-846 6010
299-W19-91	Manganese	5/05/93	34	690	193			ppb	10	B08HT3	SW-846 6010
299-W19-91	Manganese	8/30/93	34	350	98			ppb	10	B091J0	SW-846 6010
299-W19-91	Methacrylonitrile	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Methoxychlor	7/27/93	17	0			U	ppb	2	B08MQ8	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Methyl Iodide	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Methyl bromide	7/27/93	16	1			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Methyl chloride	7/27/93	16	1			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Methyl ethyl ketone	3/25/92	16	100			U	ppb	100	B06544	SW-846 8240
299-W19-91	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074N5	SW-846 8240
299-W19-91	Methyl ethyl ketone	10/16/92	16	100			U	ppb	100	B07J90	SW-846 8240
299-W19-91	Methyl ethyl ketone	12/01/92	16	100			U	ppb	100	B07QG5	SW-846 8240
299-W19-91	Methyl ethyl ketone	2/03/93	16	100			U	ppb	100	B08417	SW-846 8240
299-W19-91	Methyl ethyl ketone	5/05/93	16	4			U	ppb	100	B08HT3	SW-846 8240
299-W19-91	Methyl ethyl ketone	7/27/93	16	4			U	ppb	100	B08MQ8	SW-846 8240
299-W19-91	Methyl methacrylate	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Methyl parathion	7/27/93	29	0			U	ppb	1	B08MQ8	SW-846 8140
299-W19-91	Methylene chloride	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Methylene chloride	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Methylene chloride	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Methylene chloride	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Methylene chloride	2/03/93	16	2			BJU	ppb	5	B08417	SW-846 8240
299-W19-91	Methylene chloride	5/05/93	16	1			LB	ppb	5	B08HT3	SW-846 8240
299-W19-91	Methylene chloride	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Nickel	3/25/92	34	380	80			ppb	30	B06544	SW-846 6010
299-W19-91	Nickel	10/16/92	34	140	29			ppb	30	B07J90	SW-846 6010
299-W19-91	Nickel	12/01/92	34	90	19			ppb	30	B07QG5	SW-846 6010
299-W19-91	Nickel	2/03/93	34	120	25			ppb	30	B08417	SW-846 6010
299-W19-91	Nickel	5/05/93	34	18			U	ppb	30	B08HT3	SW-846 6010
299-W19-91	Nickel	8/30/93	34	20	5		L	ppb	30	B091J0	SW-846 6010
299-W19-91	Nitrate	3/25/92	124	1400	788			ppb	200	B06544	ASTM D-4327-88
299-W19-91	Nitrate	5/05/92	124	600	338			ppb	200	B06DY5	ASTM D-4327-88
299-W19-91	Nitrate	8/12/92	124	600	338			ppb	200	B074N5	ASTM D-4327-88
299-W19-91	Nitrate	10/16/92	124	500	281			ppb	200	B07J90	ASTM D-4327-88
299-W19-91	Nitrate	12/01/92	124	400	225			ppb	200	B07QG5	ASTM D-4327-88
299-W19-91	Nitrate	2/03/93	124	1900	1070			ppb	200	B08417	ASTM D-4327-88
299-W19-91	Nitrate	5/05/93	124	600	52			ppb	200	B08HT3	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Nitrite	3/25/92	124	200			U	ppb	200	B06544	ASTM D-4327-88
299-W19-91	Nitrite	5/05/92	124	200			U	ppb	200	B06DY5	ASTM D-4327-88
299-W19-91	Nitrite	8/12/92	124	200			U	ppb	200	B074N5	ASTM D-4327-88
299-W19-91	Nitrite	10/16/92	124	200			U	ppb	200	B07J90	ASTM D-4327-88
299-W19-91	Nitrite	12/01/92	124	200			U	ppb	200	B07QG5	ASTM D-4327-88
299-W19-91	Nitrite	2/03/93	124	200			U	ppb	200	B08417	ASTM D-4327-88
299-W19-91	Nitrite	5/05/93	124	38			U	ppb	200	B08HT3	ASTM D-4327-88
299-W19-91	Pentachloroethane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Phorate	7/27/93	29	0			U	ppb	2	B08MQ8	SW-846 8140
299-W19-91	Phosphate	3/25/92	124	1000	272			ppb	400	B06544	ASTM D-4327-88
299-W19-91	Phosphate	3/25/92	124	1000	272			ppb	500	B06544	ASTM D-4327-88
299-W19-91	Phosphate	5/05/92	124	500	136			ppb	400	B06DY5	ASTM D-4327-88
299-W19-91	Phosphate	5/05/92	124	500	136			ppb	500	B06DY5	ASTM D-4327-88
299-W19-91	Phosphate	8/12/92	124	700	190			ppb	400	B074N5	ASTM D-4327-88
299-W19-91	Phosphate	8/12/92	124	700	190			ppb	500	B074N5	ASTM D-4327-88
299-W19-91	Phosphate	10/16/92	124	400			U	ppb	400	B07J90	ASTM D-4327-88
299-W19-91	Phosphate	10/16/92	124	400			U	ppb	500	B07J90	ASTM D-4327-88
299-W19-91	Phosphate	12/01/92	124	400			U	ppb	400	B07QG5	ASTM D-4327-88
299-W19-91	Phosphate	12/01/92	124	400			U	ppb	500	B07QG5	ASTM D-4327-88
299-W19-91	Phosphate	2/03/93	124	400			U	ppb	400	B08417	ASTM D-4327-88
299-W19-91	Phosphate	2/03/93	124	400			U	ppb	500	B08417	ASTM D-4327-88
299-W19-91	Phosphate	5/05/93	124	200	29		L	ppb	400	B08HT3	ASTM D-4327-88
299-W19-91	Phosphate	5/05/93	124	200	29		L	ppb	500	B08HT3	ASTM D-4327-88
299-W19-91	Plutonium-238	7/27/93	146	-0	0		U	pCi/L	0	B08MQ8	ITAS Isotopic Pu
299-W19-91	Plutonium-239/40	7/27/93	146	0	0		U	pCi/L	0	B08MQ8	ITAS Isotopic Pu
299-W19-91	Potassium	3/25/92	34	9100				ppb	300	B06544	SW-846 6010
299-W19-91	Potassium	3/25/92	34	9100				ppb	1000	B06544	SW-846 6010
299-W19-91	Potassium	10/16/92	34	3900				ppb	300	B07J90	SW-846 6010
299-W19-91	Potassium	10/16/92	34	3900				ppb	1000	B07J90	SW-846 6010
299-W19-91	Potassium	12/01/92	34	3600				ppb	300	B07QG5	SW-846 6010
299-W19-91	Potassium	12/01/92	34	3600				ppb	1000	B07QG5	SW-846 6010
299-W19-91	Potassium	2/03/93	34	3900				ppb	300	B08417	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Potassium	2/03/93	34	3900				ppb	1000	B08417	SW-846 6010
299-W19-91	Potassium	5/05/93	34	2000	1910			ppb	300	B08HT3	SW-846 6010
299-W19-91	Potassium	5/05/93	34	2000	1910			ppb	1000	B08HT3	SW-846 6010
299-W19-91	Potassium	8/30/93	34	2900	2780			ppb	300	B091J0	SW-846 6010
299-W19-91	Potassium	8/30/93	34	2900	2780			ppb	1000	B091J0	SW-846 6010
299-W19-91	Ruthenium-106	10/16/92	140	-9	61		U	pCi/L		B07J90	ITAS Gamma Scan
299-W19-91	Ruthenium-106	2/03/93	140	15	56		U	pCi/L		B08417	ITAS Gamma Scan
299-W19-91	Ruthenium-106	7/27/93	140	34	52		U	pCi/L		B08MQ8	ITAS Gamma Scan
299-W19-91	Selenium	7/27/93	48	1			U	ppb	10	B08MQ8	SW-846 7740
299-W19-91	Silver	3/25/92	34	20			U	ppb	20	B06544	SW-846 6010
299-W19-91	Silver	10/16/92	34	20			U	ppb	20	B07J90	SW-846 6010
299-W19-91	Silver	12/01/92	34	20			U	ppb	20	B07QG5	SW-846 6010
299-W19-91	Silver	2/03/93	34	20			U	ppb	20	B08417	SW-846 6010
299-W19-91	Silver	5/05/93	34	3			U	ppb	20	B08HT3	SW-846 6010
299-W19-91	Silver	8/30/93	34	3			U	ppb	20	B091J0	SW-846 6010
299-W19-91	Sodium	3/25/92	34	6100				ppb	300	B06544	SW-846 6010
299-W19-91	Sodium	10/16/92	34	3700				ppb	300	B07J90	SW-846 6010
299-W19-91	Sodium	12/01/92	34	3700				ppb	300	B07QG5	SW-846 6010
299-W19-91	Sodium	2/03/93	34	3600				ppb	300	B08417	SW-846 6010
299-W19-91	Sodium	5/05/93	34	2900	905			ppb	300	B08HT3	SW-846 6010
299-W19-91	Sodium	8/30/93	34	3000	936			ppb	300	B091J0	SW-846 6010
299-W19-91	Sodium	3/25/92	73	190				umhos		B06544	ASTM D-1125-A
299-W19-91	Specific conductance	3/25/92	94	232				umhos	1	B06544	Probe. Conductivity
299-W19-91	Specific conductance	5/05/92	94	179				umhos	1	B06DY5	Probe. Conductivity
299-W19-91	Specific conductance	8/12/92	73	200				umhos		B074N5	ASTM D-1125-A
299-W19-91	Specific conductance	8/12/92	94	194				umhos	1	B074N5	Probe. Conductivity
299-W19-91	Specific conductance	10/16/92	73	200				umhos		B07J90	ASTM D-1125-A
299-W19-91	Specific conductance	10/16/92	94	194				umhos	1	B07J90	Probe. Conductivity
299-W19-91	Specific conductance	12/01/92	73	190				umhos		B07QG5	ASTM D-1125-A
299-W19-91	Specific conductance	12/01/92	94	201				umhos	1	B07QG5	Probe. Conductivity
299-W19-91	Specific conductance	2/03/93	73	200				umhos		B08417	ASTM D-1125-A
299-W19-91	Specific conductance	2/03/93	94	196				umhos	1	B08417	Probe. Conductivity

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299-W19-91	Specific conductance	5/05/93	73	190				umhos		B08HT3	ASTM D-1125-A
299-W19-91	Specific conductance	5/05/93	94	178				umhos	1	B08HT3	Probe. Conductivity
299-W19-91	Specific conductance	7/27/93	73	170				umhos		B08MQ8	ASTM D-1125-A
299-W19-91	Specific conductance	8/30/93	94	119				umhos	1	B091J0	Probe. Conductivity
299-W19-91	Strontium-90	10/16/92	141	0	0		U	pCi/L	5	B07J90	ITAS Sr-90
299-W19-91	Strontium-90	2/03/93	141	-0	1		U	pCi/L	5	B08417	ITAS Sr-90
299-W19-91	Strontium-90	7/27/93	141	7820	1463			pCi/L	5	B08MQ8	ITAS Sr-90
299-W19-91	Styrene	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Sulfate	3/25/92	124	11000	10600			ppb	500	B06544	ASTM D-4327-88
299-W19-91	Sulfate	5/05/92	124	15000	14500			ppb	500	B06DY5	ASTM D-4327-88
299-W19-91	Sulfate	8/12/92	124	11000	10600			ppb	500	B074N5	ASTM D-4327-88
299-W19-91	Sulfate	10/16/92	124	7900	7620			ppb	500	B07J90	ASTM D-4327-88
299-W19-91	Sulfate	12/01/92	124	6600	6370			ppb	500	B07QG5	ASTM D-4327-88
299-W19-91	Sulfate	2/03/93	124	9200	8880			ppb	500	B08417	ASTM D-4327-88
299-W19-91	Sulfate	5/05/93	124	13000	632			ppb	500	B08HT3	ASTM D-4327-88
299-W19-91	Sulfide	7/27/93	63	300			U	ppb	10000	B08MQ8	SW-846 9030
299-W19-91	Technetium-99	7/27/93	143	1	2		U	pCi/L	15	B08MQ8	ITAS Tc-99
299-W19-91	Temperature, field	3/25/92	170	18				DegC	0	B06544	Probe. temperature
299-W19-91	Temperature, field	5/05/92	170	18				DegC	0	B06DY5	Probe. temperature
299-W19-91	Temperature, field	8/12/92	170	16				DegC	0	B074N5	Probe. temperature
299-W19-91	Temperature, field	10/16/92	170	15				DegC	0	B07J90	Probe. temperature
299-W19-91	Temperature, field	12/01/92	170	15				DegC	0	B07QG5	Probe. temperature
299-W19-91	Temperature, field	2/03/93	170	18				DegC	0	B08417	Probe. temperature
299-W19-91	Temperature, field	5/05/93	170	15				DegC	0	B08HT3	Probe. temperature
299-W19-91	Temperature, field	8/30/93	170	22				DegC	0	B091J0	Probe. temperature
299-W19-91	Tetrachloroethene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Tetrachloroethene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Tetrachloroethene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Tetrachloroethene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Tetrachloroethene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Tetrachloroethene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Tetrahydrofuran	3/25/92	16	10			U	ppb	10	B06544	SW-846 8240
299-W19-91	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074N5	SW-846 8240
299-W19-91	Tetrahydrofuran	10/16/92	16	10			U	ppb	10	B07J90	SW-846 8240
299-W19-91	Tetrahydrofuran	12/01/92	16	10			U	ppb	10	B07QG5	SW-846 8240
299-W19-91	Tetrahydrofuran	2/03/93	16	10			U	ppb	10	B08417	SW-846 8240
299-W19-91	Tetrahydrofuran	5/05/93	16	4			U	ppb	10	B08HT3	SW-846 8240
299-W19-91	Tetrahydrofuran	7/27/93	16	4			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Thallium	7/27/93		1			U	ppb	5	B08MQ8	SW-846 7841
299-W19-91	Tin	3/25/92		100			U	ppb	100	B06544	SW-846 6010
299-W19-91	Tin	10/16/92		100			U	ppb	100	B07J90	SW-846 6010
299-W19-91	Tin	12/01/92		100			U	ppb	100	B07QG5	SW-846 6010
299-W19-91	Tin	2/03/93	34	100			U	ppb	100	B08417	SW-846 6010
299-W19-91	Tin	5/05/93	34	51			U	ppb	100	B08HT3	SW-846 6010
299-W19-91	Tin	8/30/93	34	51			U	ppb	100	B091J0	SW-846 6010
299-W19-91	Toluene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Toluene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Toluene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Toluene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Toluene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Toluene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Toluene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Total Dissolved Solids	7/27/93	65	130			B	ppm	10	B08MQ8	Std Meth #209B
299-W19-91	Total Organic Carbon	3/25/92	122	2000				ppb	1000	B06544	SW-846 9060
299-W19-91	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074N5	SW-846 9060
299-W19-91	Total Organic Carbon	10/16/92	122	1000			U	ppb	1000	B07J90	SW-846 9060
299-W19-91	Total Organic Carbon	12/01/92	122	1000			U	ppb	1000	B07QG5	SW-846 9060
299-W19-91	Total Organic Carbon	2/03/93	122	1000			U	ppb	1000	B08417	SW-846 9060
299-W19-91	Total Organic Carbon	5/05/93	122	400			L	ppb	1000	B08HT3	SW-846 9060
299-W19-91	Total Organic Carbon	8/30/93	122	900			L	ppb	1000	B091J0	SW-846 9060
299-W19-91	Total Organic Halogen	3/25/92	67	20				ppb	10	B06544	SW-846 9020
299-W19-91	Total Organic Halogen	3/25/92	67	40				ppb	10	B06544	SW-846 9020
299-W19-91	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074N5	SW-846 9020

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Total Organic Halogen	10/16/92	67	10			U	ppb	10	B07J90	SW-846 9020
299-W19-91	Total Organic Halogen	12/01/92	67				U	ppb	10	B07QG5	SW-846 9020
299-W19-91	Total Organic Halogen	12/01/92	67	10			U	ppb	10	B07QG5	SW-846 9020
299-W19-91	Total Organic Halogen	2/03/93	67	10			U	ppb	10	B08417	SW-846 9020
299-W19-91	Total Organic Halogen	5/05/93	67	8			U	ppb	10	B08HT3	SW-846 9020
299-W19-91	Total Organic Halogen	8/30/93	67	20	11			ppb	10	B091J0	SW-846 9020
299-W19-91	Toxaphene	7/27/93	17	1			U	ppb	2	B08MQ8	SW-846 8080
299-W19-91	Trichloroethene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Trichloroethene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Trichloroethene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Trichloroethene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Trichloroethene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Trichloroethene	5/05/93	16	1			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Trichloroethene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Trichloromonofluoromethane	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Tritium	3/25/92	142	182	264		U	pCi/L	500	B06544	ITAS H-3
299-W19-91	Tritium	5/05/92	142	69	229		U	pCi/L	500	B06DY5	ITAS H-3
299-W19-91	Tritium	8/12/92	142	-8	219		U	pCi/L	500	B074N5	ITAS H-3
299-W19-91	Tritium	10/16/92	142	61	241		U	pCi/L	500	B07J90	ITAS H-3
299-W19-91	Tritium	12/01/92	142	86	270		U	pCi/L	500	B07QG5	ITAS H-3
299-W19-91	Tritium	2/03/93	142	191	220		U	pCi/L	500	B08417	ITAS H-3
299-W19-91	Tritium	5/05/93	142	60	211		U	pCi/L	500	B08HT3	ITAS H-3
299-W19-91	Tritium	8/30/93	142	-33	246		U	pCi/L	500	B091J0	ITAS H-3
299-W19-91	Uranium	3/25/92	145	90	23			ppb	1	B06544	ITAS Gross U
299-W19-91	Uranium	5/05/92	145	101	29			ppb	1	B06DY5	ITAS Gross U
299-W19-91	Uranium	8/12/92	145	25	7			ppb	1	B074N5	ITAS Gross U
299-W19-91	Uranium	10/16/92	145	37	10			ppb	1	B07J90	ITAS Gross U
299-W19-91	Uranium	12/01/92	145	41	11			ppb	1	B07QG5	ITAS Gross U
299-W19-91	Uranium	5/05/93	145	38	12			ppb	1	B08HT3	ITAS Gross U
299-W19-91	Uranium	8/30/93	145	1	0			ppb	1	B091J0	ITAS Gross U
299-W19-91	Uranium-234	7/27/93	148	5	1			pCi/L	0	B08MQ8	ITAS Isotopic U
299-W19-91	Uranium-235	7/27/93	148	0	0			pCi/L	0	B08MQ8	ITAS Isotopic U

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	Uranium-238	2/03/93	145	18	5			ppb	1	B08417	ITAS Gross U
299-W19-91	Uranium-238	7/27/93	148	4	1			pCi/L	0	B08MQ8	ITAS Isotopic U
299-W19-91	Vanadium	3/25/92	34	330	42			ppb	30	B06544	SW-846 6010
299-W19-91	Vanadium	10/16/92	34	290	37			ppb	30	B07J90	SW-846 6010
299-W19-91	Vanadium	12/01/92	34	230	29			ppb	30	B07QG5	SW-846 6010
299-W19-91	Vanadium	2/03/93	34	110	14			ppb	30	B08417	SW-846 6010
299-W19-91	Vanadium	5/05/93	34	4			U	ppb	30	B08HT3	SW-846 6010
299-W19-91	Vanadium	8/30/93	34	5	1		L	ppb	30	B091J0	SW-846 6010
299-W19-91	Vinyl acetate	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Vinyl chloride	3/25/92	16	10			U	ppb	10	B06544	SW-846 8240
299-W19-91	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074N5	SW-846 8240
299-W19-91	Vinyl chloride	10/16/92	16	10			U	ppb	10	B07J90	SW-846 8240
299-W19-91	Vinyl chloride	12/01/92	16	10			U	ppb	10	B07QG5	SW-846 8240
299-W19-91	Vinyl chloride	2/03/93	16	10			U	ppb	10	B08417	SW-846 8240
299-W19-91	Vinyl chloride	5/05/93	16	1			U	ppb	10	B08HT3	SW-846 8240
299-W19-91	Vinyl chloride	7/27/93	16	1			U	ppb	10	B08MQ8	SW-846 8240
299-W19-91	Xylenes (total)	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	Xylenes (total)	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	Xylenes (total)	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	Xylenes (total)	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	Xylenes (total)	5/05/93	16	2			U	ppb	5	B08HT3	SW-846 8240
299-W19-91	Xylenes (total)	7/27/93	16	2			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	Zinc	3/25/92	34	660	84			ppb	10	B06544	SW-846 6010
299-W19-91	Zinc	10/16/92	34	120	15			ppb	10	B07J90	SW-846 6010
299-W19-91	Zinc	12/01/92	34	130	17			ppb	10	B07QG5	SW-846 6010
299-W19-91	Zinc	2/03/93	34	90	12			ppb	10	B08417	SW-846 6010
299-W19-91	Zinc	5/05/93	34	30	9			ppb	10	B08HT3	SW-846 6010
299-W19-91	Zinc	8/30/93	34	18	6			ppb	10	B091J0	SW-846 6010
299-W19-91	allylchloride	7/27/93	16	1			U	ppb	100	B08MQ8	SW-846 8240
299-W19-91	cis-1,3-Dichloropropene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	gamma-BHC (Lindane)	7/27/93	17	0			U	ppb	0	B08MQ8	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-91	pH	3/25/92	125	8				pH		B06544	ASTM D-1293
299-W19-91	pH	3/25/92	93	8					0	B06544	Probe, pH
299-W19-91	pH	5/05/92	93	8					0	B06DY5	Probe, pH
299-W19-91	pH	8/12/92	125	8				pH		B074N5	ASTM D-1293
299-W19-91	pH	8/12/92	93	8					0	B074N5	Probe, pH
299-W19-91	pH	10/16/92	125	8				pH		B07J90	ASTM D-1293
299-W19-91	pH	10/16/92	93	8					0	B07J90	Probe, pH
299-W19-91	pH	12/01/92	125	8				pH		B07QG5	ASTM D-1293
299-W19-91	pH	12/01/92	93	8					0	B07QG5	Probe, pH
299-W19-91	pH	2/03/93	125	8				pH		B08417	ASTM D-1293
299-W19-91	pH	2/03/93	93	8					0	B08417	Probe, pH
299-W19-91	pH	5/05/93	125	8				pH		B08HT3	ASTM D-1293
299-W19-91	pH	5/05/93	93	7					0	B08HT3	Probe, pH
299-W19-91	pH	7/27/93	125	8				pH		B08MQ8	ASTM D-1293
299-W19-91	pH	8/30/93	125	8				pH		B091J0	ASTM D-1293
299-W19-91	pH	8/30/93	93	8					0	B091J0	Probe, pH
299-W19-91	trans-1,2-Dichloroethylene	3/25/92	16	5			U	ppb	5	B06544	SW-846 8240
299-W19-91	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074N5	SW-846 8240
299-W19-91	trans-1,2-Dichloroethylene	10/16/92	16	5			U	ppb	5	B07J90	SW-846 8240
299-W19-91	trans-1,2-Dichloroethylene	12/01/92	16	5			U	ppb	5	B07QG5	SW-846 8240
299-W19-91	trans-1,2-Dichloroethylene	2/03/93	16	5			U	ppb	5	B08417	SW-846 8240
299-W19-91	trans-1,3-Dichloropropene	7/27/93	16	0			U	ppb	5	B08MQ8	SW-846 8240
299-W19-91	trans-1,4-dichloro-2-butene	7/27/93	16	1			U	ppb	5	B08MQ8	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	1.1.1.2-Tetrachloroethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1.1.1-Trichloroethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.1.2.2-Tetrachloroethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	5/05/93	16	0			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1.1.2-Trichloroethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.1-Dichloroethane	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	1.1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	1.1-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	1.1-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	1.1-Dichloroethane	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	1.1-Dichloroethane	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1.1-Dichloroethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.1-Dichloroethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.2.3-Trichloropropane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.2-Dibromo-3-chloropropane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.2-Dibromoethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1.2-Dichloroethane	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	1.2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	1.2-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	1.2-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	1,2-Dichloroethane	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	1,2-Dichloroethane	5/05/93	16	0			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1,2-Dichloroethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1,2-Dichloroethene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1,2-Dichloroethene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1,2-Dichloropropane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	1,4-Dichlorobenzene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	1,4-Dioxane	7/26/93	16	44			U	ppb	200	B08MR3	SW-846 8240
299-W19-92	1-Butanol	3/25/92	16	1000			U	ppb	1000	B06546	SW-846 8240
299-W19-92	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074N6	SW-846 8240
299-W19-92	1-Butanol	10/16/92	16	1000			U	ppb	1000	B07J92	SW-846 8240
299-W19-92	1-Butanol	12/01/92	16	1000			U	ppb	1000	B07QG6	SW-846 8240
299-W19-92	1-Butanol	2/03/93	16	1000			U	ppb	1000	B08418	SW-846 8240
299-W19-92	1-Butanol	5/05/93	16	13			U	ppb	1000	B08HT4	SW-846 8240
299-W19-92	1-Butanol	7/26/93	16	13			U	ppb	1000	B08MR3	SW-846 8240
299-W19-92	2,4,5-T	7/26/93	49	0			U	ppb	2	B08MR3	SW-846 8150
299-W19-92	2,4,5-TP	7/26/93	49	0			U	ppb	2	B08MR3	SW-846 8150
299-W19-92	2,4-D	7/26/93	49	0			U	ppb	10	B08MR3	SW-846 8150
299-W19-92	2-Hexanone	7/26/93	16	1			U	ppb	50	B08MR3	SW-846 8240
299-W19-92	2-sec-Butyl-4,6-dinitrophenol (DNBP)	7/26/93	49	0			U	ppb	1	B08MR3	SW-846 8150
299-W19-92	4,4'-DDD	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	4,4'-DDE	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	4,4'-DDT	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	4-Methyl-2-pentanone	3/25/92	16	50			U	ppb	50	B06546	SW-846 8240
299-W19-92	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074N6	SW-846 8240
299-W19-92	4-Methyl-2-pentanone	10/16/92	16	50			U	ppb	50	B07J92	SW-846 8240
299-W19-92	4-Methyl-2-pentanone	12/01/92	16	50			U	ppb	50	B07QG6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	4-Methyl-2-pentanone	2/03/93	16	50			U	ppb	50	B08418	SW-846 8240
299-W19-92	4-Methyl-2-pentanone	5/05/93	16	1			U	ppb	50	B08HT4	SW-846 8240
299-W19-92	4-Methyl-2-pentanone	7/26/93	16	1			U	ppb	50	B08MR3	SW-846 8240
299-W19-92	Acetone	3/25/92	16	100			U	ppb	100	B06546	SW-846 8240
299-W19-92	Acetone	8/12/92	16	100			U	ppb	100	B074N6	SW-846 8240
299-W19-92	Acetone	10/16/92	16	100			U	ppb	100	B07J92	SW-846 8240
299-W19-92	Acetone	12/01/92	16	74			B	ppb	100	B07QG6	SW-846 8240
299-W19-92	Acetone	2/03/93	16	100			U	ppb	100	B08418	SW-846 8240
299-W19-92	Acetone	5/05/93	16	13			U	ppb	100	B08HT4	SW-846 8240
299-W19-92	Acetone	7/26/93	16	13			U	ppb	100	B08MR3	SW-846 8240
299-W19-92	Acetonitrile	7/26/93	16	19			U	ppb	200	B08MR3	SW-846 8240
299-W19-92	Acrolein	7/26/93	16	10			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Acrylonitrile	7/26/93	16	4			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Aldrin	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Alkalinity	7/26/93	52	110				ppm	50	B08MR3	ASTM D-1067-A
299-W19-92	Alpha-BHC	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Aluminum	5/05/93	34	400				ppb	200	B08HT4	SW-846 6010
299-W19-92	Americium-241	10/16/92	147	-0	0		U	pCi/L	0	B07J92	ITAS Am-241
299-W19-92	Americium-241	2/03/93	147	0	0		U	pCi/L	0	B08418	ITAS Am-241
299-W19-92	Americium-241	7/26/93	147	0	0		U	pCi/L	0	B08MR3	ITAS Am-241
299-W19-92	Ammonium ion	7/26/93	54	39			U	ppb	100	B08MR3	ASTM D-1426-D
299-W19-92	Antimony	3/25/92	34	200			U	ppb	200	B06546	SW-846 6010
299-W19-92	Antimony	10/16/92	34	200			U	ppb	200	B07J92	SW-846 6010
299-W19-92	Antimony	12/01/92	34	200			U	ppb	200	B07QG6	SW-846 6010
299-W19-92	Antimony	2/03/93	34	200			U	ppb	200	B08418	SW-846 6010
299-W19-92	Antimony	5/05/93	34	69			U	ppb	200	B08HT4	SW-846 6010
299-W19-92	Antimony-125	10/16/92	140	1	13		U	pCi/L		B07J92	ITAS Gamma Scan
299-W19-92	Antimony-125	2/03/93	140	8	16		U	pCi/L		B08418	ITAS Gamma Scan
299-W19-92	Antimony-125	7/26/93	140	-2	17		U	pCi/L		B08MR3	ITAS Gamma Scan
299-W19-92	Aroclor-1016	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Aroclor-1221	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Aroclor-1232	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Aroclor-1242	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Aroclor-1248	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Aroclor-1254	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Aroclor-1260	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Barium	3/25/92	34	210	29			ppb	20	B06546	SW-846 6010
299-W19-92	Barium	10/16/92	34	80	11			ppb	20	B07J92	SW-846 6010
299-W19-92	Barium	12/01/92	34	50	7			ppb	20	B07QG6	SW-846 6010
299-W19-92	Barium	2/03/93	34	240	33			ppb	20	B08418	SW-846 6010
299-W19-92	Barium	5/05/93	34	270	1			ppb	20	B08HT4	SW-846 6010
299-W19-92	Benzene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Benzene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Benzene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Benzene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Benzene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Benzene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Benzene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Beryllium	3/25/92	34	3			U	ppb	3	B06546	SW-846 6010
299-W19-92	Beryllium	10/16/92	34	3			U	ppb	3	B07J92	SW-846 6010
299-W19-92	Beryllium	12/01/92	34	3			U	ppb	3	B07QG6	SW-846 6010
299-W19-92	Beryllium	2/03/93	34	3			U	ppb	3	B08418	SW-846 6010
299-W19-92	Beryllium	5/05/93	34	1			U	ppb	3	B08HT4	SW-846 6010
299-W19-92	Beta-BHC	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Bromide	3/25/92	124	500			U	ppb	500	B06546	ASTM D-4327-88
299-W19-92	Bromide	5/05/92	124	500			U	ppb	500	B06DY6	ASTM D-4327-88
299-W19-92	Bromide	8/12/92	124	500			U	ppb	500	B074N6	ASTM D-4327-88
299-W19-92	Bromide	10/16/92	124	500			U	ppb	500	B07J92	ASTM D-4327-88
299-W19-92	Bromide	12/01/92	124	500			U	ppb	500	B07QG6	ASTM D-4327-88
299-W19-92	Bromide	2/03/93	124	500			U	ppb	500	B08418	ASTM D-4327-88
299-W19-92	Bromide	5/05/93	124	53			U	ppb	500	B08HT4	ASTM D-4327-88
299-W19-92	Bromodichloromethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Bromoform	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Cadmium	3/25/92	34	10			U	ppb	10	B06546	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Cadmium	10/16/92	34	10			U	ppb	10	B07J92	SW-846 6010
299-W19-92	Cadmium	12/01/92	34	10			U	ppb	10	B07QG6	SW-846 6010
299-W19-92	Cadmium	2/03/93	34	10			U	ppb	10	B08418	SW-846 6010
299-W19-92	Cadmium	5/05/93	34	5			U	ppb	10	B08HT4	SW-846 6010
299-W19-92	Calcium	3/25/92	34	30000				ppb	100	B06546	SW-846 6010
299-W19-92	Calcium	10/16/92	34	34000				ppb	100	B07J92	SW-846 6010
299-W19-92	Calcium	12/01/92	34	33000				ppb	100	B07QG6	SW-846 6010
299-W19-92	Calcium	2/03/93	34	35000				ppb	100	B08418	SW-846 6010
299-W19-92	Calcium	5/05/93	34	32000	9700			ppb	100	B08HT4	SW-846 6010
299-W19-92	Carbon disulfide	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Carbon disulfide	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Carbon tetrachloride	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Carbon tetrachloride	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Carbon tetrachloride	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Carbon tetrachloride	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Carbon tetrachloride	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Carbon tetrachloride	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Carbon tetrachloride	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Cesium-137	10/16/92	140	3	6		U	pCi/L	20	B07J92	ITAS Gamma Scan
299-W19-92	Cesium-137	2/03/93	140	-1	7		U	pCi/L	20	B08418	ITAS Gamma Scan
299-W19-92	Cesium-137	7/26/93	140	3	6		U	pCi/L	20	B08MR3	ITAS Gamma Scan
299-W19-92	Chlordane	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Chloride	3/25/92	124	1300	438			ppb	200	B06546	ASTM D-4327-88
299-W19-92	Chloride	5/05/92	124	1500	505			ppb	200	B06DY6	ASTM D-4327-88
299-W19-92	Chloride	8/12/92	124	1500	505			ppb	200	B074N6	ASTM D-4327-88
299-W19-92	Chloride	10/16/92	124	1200	404			ppb	200	B07J92	ASTM D-4327-88
299-W19-92	Chloride	12/01/92	124	1100	370			ppb	200	B07QG6	ASTM D-4327-88
299-W19-92	Chloride	2/03/93	124	1100	370			ppb	200	B08418	ASTM D-4327-88
299-W19-92	Chloride	5/05/93	124	1200	199			ppb	200	B08HT4	ASTM D-4327-88
299-W19-92	Chlorobenzene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Chloroethane	7/26/93	16	1			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Chloroform	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Chloroform	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Chloroform	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Chloroform	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Chloroform	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Chloroform	5/05/93	16	0			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Chloroform	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Chloroprene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Chromium	3/25/92	34	20			U	ppb	20	B06546	SW-846 6010
299-W19-92	Chromium	10/16/92	34	20			U	ppb	20	B07J92	SW-846 6010
299-W19-92	Chromium	12/01/92	34	20			U	ppb	20	B07QG6	SW-846 6010
299-W19-92	Chromium	2/03/93	34	30	18			ppb	20	B08418	SW-846 6010
299-W19-92	Chromium	5/05/93	34	5			U	ppb	20	B08HT4	SW-846 6010
299-W19-92	Cobalt	3/25/92	34	20			U	ppb	20	B06546	SW-846 6010
299-W19-92	Cobalt	10/16/92	34	20			U	ppb	20	B07J92	SW-846 6010
299-W19-92	Cobalt	12/01/92	34	20			U	ppb	20	B07QG6	SW-846 6010
299-W19-92	Cobalt	2/03/93	34	20			U	ppb	20	B08418	SW-846 6010
299-W19-92	Cobalt	5/05/93	34	4			U	ppb	20	B08HT4	SW-846 6010
299-W19-92	Cobalt-60	10/16/92	140	-2	9		U	pCi/L		B07J92	ITAS Gamma Scan
299-W19-92	Cobalt-60	2/03/93	140	-4	8		U	pCi/L		B08418	ITAS Gamma Scan
299-W19-92	Cobalt-60	7/26/93	140	-1	8		U	pCi/L		B08MR3	ITAS Gamma Scan
299-W19-92	Copper	3/25/92	34	20			U	ppb	20	B06546	SW-846 6010
299-W19-92	Copper	10/16/92	34	60	12			ppb	20	B07J92	SW-846 6010
299-W19-92	Copper	12/01/92	34	20			U	ppb	20	B07QG6	SW-846 6010
299-W19-92	Copper	2/03/93	34	20			U	ppb	20	B08418	SW-846 6010
299-W19-92	Copper	5/05/93	34	3			U	ppb	20	B08HT4	SW-846 6010
299-W19-92	Cyanide	7/26/93	358	1			U	ppb	20	B08MR3	SW-846 9012
299-W19-92	Delta-BHC	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Dibromochloromethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Dibromomethane	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Dichlorodifluoromethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Dieldrin	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Disulfoton	7/26/93	29	0			U	ppb	2	B08MR3	SW-846 8140

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Endosulfan I	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Endosulfan II	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Endosulfan sulfate	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Endrin	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Endrin Aldehyde	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Ethyl cyanide	5/05/93	16	4			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Ethyl cyanide	5/05/93	16	4			U	ppb	10	B08HT4	SW-846 8240
299-W19-92	Ethyl cyanide	7/26/93	16	4			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Ethyl cyanide	7/26/93	16	4			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Ethyl methacrylate	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Ethylbenzene	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Fluoride	3/25/92	124	200	42			ppb	100	B06546	ASTM D-4327-88
299-W19-92	Fluoride	5/05/92	124	100	21			ppb	100	B06DY6	ASTM D-4327-88
299-W19-92	Fluoride	8/12/92	124	100	21			ppb	100	B074N6	ASTM D-4327-88
299-W19-92	Fluoride	10/16/92	124	100	21			ppb	100	B07J92	ASTM D-4327-88
299-W19-92	Fluoride	12/01/92	124	100	21			ppb	100	B07QG6	ASTM D-4327-88
299-W19-92	Fluoride	2/03/93	124	200	42			ppb	100	B08418	ASTM D-4327-88
299-W19-92	Fluoride	5/05/93	124	100	7		L	ppb	100	B08HT4	ASTM D-4327-88
299-W19-92	Gross alpha	3/25/92	135	182	38			pCi/L	4	B06546	SW-846 9310. Alpha
299-W19-92	Gross alpha	5/05/92	135	42	10			pCi/L	4	B06DY6	SW-846 9310. Alpha
299-W19-92	Gross alpha	8/12/92	135	33	7			pCi/L	4	B074N6	SW-846 9310. Alpha
299-W19-92	Gross alpha	10/16/92	135	23	6			pCi/L	4	B07J92	SW-846 9310. Alpha
299-W19-92	Gross alpha	12/01/92	135	21	6			pCi/L	4	B07QG6	SW-846 9310. Alpha
299-W19-92	Gross alpha	2/03/93	135	52	12			pCi/L	4	B08418	SW-846 9310. Alpha
299-W19-92	Gross alpha	5/05/93	135	44	10			pCi/L	4	B08HT4	SW-846 9310. Alpha
299-W19-92	Gross alpha	9/29/93	135	12	4			pCi/L	4	B091J2	SW-846 9310. Alpha
299-W19-92	Gross beta	3/25/92	136	166	14			pCi/L	8	B06546	SW-846 9310. Beta
299-W19-92	Gross beta	5/05/92	136	49	6			pCi/L	8	B06DY6	SW-846 9310. Beta
299-W19-92	Gross beta	8/12/92	136	38	5			pCi/L	8	B074N6	SW-846 9310. Beta
299-W19-92	Gross beta	10/16/92	136	34	5			pCi/L	8	B07J92	SW-846 9310. Beta
299-W19-92	Gross beta	12/01/92	136	42	6			pCi/L	8	B07QG6	SW-846 9310. Beta
299-W19-92	Gross beta	2/03/93	136	65	8			pCi/L	8	B08418	SW-846 9310. Beta

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299-W19-92	Gross beta	5/05/93	136	68	8			pCi/L	8	B08HT4	SW-846 9310. Beta
299-W19-92	Gross beta	9/29/93	136	30	5			pCi/L	8	B091J2	SW-846 9310. Beta
299-W19-92	Heptachlor	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	Heptachlor epoxide	7/26/93	17	0			U	ppb	1	B08MR3	SW-846 8080
299-W19-92	Iron	3/25/92	34	29000	25000			ppb	20	B06546	SW-846 6010
299-W19-92	Iron	10/16/92	34	62000	53300			ppb	20	B07J92	SW-846 6010
299-W19-92	Iron	12/01/92	34	12000	10300			ppb	20	B07QG6	SW-846 6010
299-W19-92	Iron	2/03/93	34	110000	94600			ppb	20	B08418	SW-846 6010
299-W19-92	Iron	5/05/93	34	72000	32200			ppb	20	B08HT4	SW-846 6010
299-W19-92	Isobutyl alcohol	7/26/93	16	27			U	ppb	200	B08MR3	SW-846 8240
299-W19-92	Lead	7/26/93	40	2	0		L	ppb	5	B08MR3	SW-846 7421
299-W19-92	Magnesium	3/25/92	34	4300				ppb	100	B06546	SW-846 6010
299-W19-92	Magnesium	10/16/92	34	5200				ppb	100	B07J92	SW-846 6010
299-W19-92	Magnesium	12/01/92	34	4900				ppb	100	B07QG6	SW-846 6010
299-W19-92	Magnesium	2/03/93	34	5300				ppb	100	B08418	SW-846 6010
299-W19-92	Magnesium	5/05/93	34	4800	2520			ppb	100	B08HT4	SW-846 6010
299-W19-92	Manganese	3/25/92	34	380	58			ppb	10	B06546	SW-846 6010
299-W19-92	Manganese	10/16/92	34	890	136			ppb	10	B07J92	SW-846 6010
299-W19-92	Manganese	12/01/92	34	210	32			ppb	10	B07QG6	SW-846 6010
299-W19-92	Manganese	2/03/93	34	1700	260			ppb	10	B08418	SW-846 6010
299-W19-92	Manganese	5/05/93	34	1900	532			ppb	10	B08HT4	SW-846 6010
299-W19-92	Methacrylonitrile	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Methoxychlor	7/26/93	17	0			U	ppb	2	B08MR3	SW-846 8080
299-W19-92	Methyl Iodide	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Methyl bromide	7/26/93	16	1			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Methyl chloride	7/26/93	16	1			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Methyl ethyl ketone	3/25/92	16	100			U	ppb	100	B06546	SW-846 8240
299-W19-92	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074N6	SW-846 8240
299-W19-92	Methyl ethyl ketone	10/16/92	16	100			U	ppb	100	B07J92	SW-846 8240
299-W19-92	Methyl ethyl ketone	12/01/92	16	100			U	ppb	100	B07QG6	SW-846 8240
299-W19-92	Methyl ethyl ketone	2/03/93	16	100			U	ppb	100	B08418	SW-846 8240
299-W19-92	Methyl ethyl ketone	5/05/93	16	4			U	ppb	100	B08HT4	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Methyl ethyl ketone	7/26/93	16	4			U	ppb	100	B08MR3	SW-846 8240
299-W19-92	Methyl methacrylate	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Methyl parathion	7/26/93	29	0			U	ppb	1	B08MR3	SW-846 8140
299-W19-92	Methylene chloride	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Methylene chloride	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Methylene chloride	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Methylene chloride	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Methylene chloride	2/03/93	16	2			BJU	ppb	5	B08418	SW-846 8240
299-W19-92	Methylene chloride	5/05/93	16	1			LB	ppb	5	B08HT4	SW-846 8240
299-W19-92	Methylene chloride	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Nickel	3/25/92	34	30			U	ppb	30	B06546	SW-846 6010
299-W19-92	Nickel	10/16/92	34	30			U	ppb	30	B07J92	SW-846 6010
299-W19-92	Nickel	12/01/92	34	30	6			ppb	30	B07QG6	SW-846 6010
299-W19-92	Nickel	2/03/93	34	40	8			ppb	30	B08418	SW-846 6010
299-W19-92	Nickel	5/05/93	34	18			U	ppb	30	B08HT4	SW-846 6010
299-W19-92	Nitrate	3/25/92	124	300	169			ppb	200	B06546	ASTM D-4327-88
299-W19-92	Nitrate	5/05/92	124	200	113			ppb	200	B06DY6	ASTM D-4327-88
299-W19-92	Nitrate	8/12/92	124	300	169			ppb	200	B074N6	ASTM D-4327-88
299-W19-92	Nitrate	10/16/92	124	300	169			ppb	200	B07J92	ASTM D-4327-88
299-W19-92	Nitrate	12/01/92	124	300	169			ppb	200	B07QG6	ASTM D-4327-88
299-W19-92	Nitrate	2/03/93	124	200	113			ppb	200	B08418	ASTM D-4327-88
299-W19-92	Nitrate	5/05/93	124	300	26			ppb	200	B08HT4	ASTM D-4327-88
299-W19-92	Nitrite	3/25/92	124	200			U	ppb	200	B06546	ASTM D-4327-88
299-W19-92	Nitrite	5/05/92	124	200			U	ppb	200	B06DY6	ASTM D-4327-88
299-W19-92	Nitrite	8/12/92	124	200			U	ppb	200	B074N6	ASTM D-4327-88
299-W19-92	Nitrite	10/16/92	124	200			U	ppb	200	B07J92	ASTM D-4327-88
299-W19-92	Nitrite	12/01/92	124	200			U	ppb	200	B07QG6	ASTM D-4327-88
299-W19-92	Nitrite	2/03/93	124	200			U	ppb	200	B08418	ASTM D-4327-88
299-W19-92	Nitrite	5/05/93	124	38			U	ppb	200	B08HT4	ASTM D-4327-88
299-W19-92	Pentachloroethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Phorate	7/26/93	29	0			U	ppb	2	B08MR3	SW-846 8140
299-W19-92	Phosphate	3/25/92	124	600	163			ppb	400	B06546	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Phosphate	3/25/92	124	600	163			ppb	500	B06546	ASTM D-4327-88
299-W19-92	Phosphate	5/05/92	124	400			U	ppb	400	B06DY6	ASTM D-4327-88
299-W19-92	Phosphate	5/05/92	124	400			U	ppb	500	B06DY6	ASTM D-4327-88
299-W19-92	Phosphate	8/12/92	124	400			U	ppb	400	B074N6	ASTM D-4327-88
299-W19-92	Phosphate	8/12/92	124	400			U	ppb	500	B074N6	ASTM D-4327-88
299-W19-92	Phosphate	10/16/92	124	400			U	ppb	400	B07J92	ASTM D-4327-88
299-W19-92	Phosphate	10/16/92	124	400			U	ppb	500	B07J92	ASTM D-4327-88
299-W19-92	Phosphate	12/01/92	124	400			U	ppb	400	B07QG6	ASTM D-4327-88
299-W19-92	Phosphate	12/01/92	124	400			U	ppb	500	B07QG6	ASTM D-4327-88
299-W19-92	Phosphate	2/03/93	124	400			U	ppb	400	B08418	ASTM D-4327-88
299-W19-92	Phosphate	2/03/93	124	400			U	ppb	500	B08418	ASTM D-4327-88
299-W19-92	Phosphate	5/05/93	124	200	29		L	ppb	400	B08HT4	ASTM D-4327-88
299-W19-92	Phosphate	5/05/93	124	200	29		L	ppb	500	B08HT4	ASTM D-4327-88
299-W19-92	Plutonium-238	7/26/93	146	-0	0		U	pCi/L	0	B08MR3	ITAS Isotopic Pu
299-W19-92	Plutonium-239/40	7/26/93	146	0	0		U	pCi/L	0	B08MR3	ITAS Isotopic Pu
299-W19-92	Potassium	3/25/92	34	2400				ppb	300	B06546	SW-846 6010
299-W19-92	Potassium	3/25/92	34	2400				ppb	1000	B06546	SW-846 6010
299-W19-92	Potassium	10/16/92	34	2700				ppb	300	B07J92	SW-846 6010
299-W19-92	Potassium	10/16/92	34	2700				ppb	1000	B07J92	SW-846 6010
299-W19-92	Potassium	12/01/92	34	2300				ppb	300	B07QG6	SW-846 6010
299-W19-92	Potassium	12/01/92	34	2300				ppb	1000	B07QG6	SW-846 6010
299-W19-92	Potassium	2/03/93	34	3600				ppb	300	B08418	SW-846 6010
299-W19-92	Potassium	2/03/93	34	3600				ppb	1000	B08418	SW-846 6010
299-W19-92	Potassium	5/05/93	34	2000	2010			ppb	300	B08HT4	SW-846 6010
299-W19-92	Potassium	5/05/93	34	2000	2010			ppb	1000	B08HT4	SW-846 6010
299-W19-92	Ruthenium-106	10/16/92	140	49	36			pCi/L		B07J92	ITAS Gamma Scan
299-W19-92	Ruthenium-106	2/03/93	140	4	59		U	pCi/L		B08418	ITAS Gamma Scan
299-W19-92	Ruthenium-106	7/26/93	140	69	56			pCi/L		B08MR3	ITAS Gamma Scan
299-W19-92	Silver	3/25/92	34	20			U	ppb	20	B06546	SW-846 6010
299-W19-92	Silver	10/16/92	34	20			U	ppb	20	B07J92	SW-846 6010
299-W19-92	Silver	12/01/92	34	20			U	ppb	20	B07QG6	SW-846 6010
299-W19-92	Silver	2/03/93	34	20			U	ppb	20	B08418	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Silver	5/05/93	34	3			U	ppb	20	B08HT4	SW-846 6010
299-W19-92	Sodium	3/25/92	34	3200				ppb	300	B06546	SW-846 6010
299-W19-92	Sodium	10/16/92	34	3400				ppb	300	B07J92	SW-846 6010
299-W19-92	Sodium	12/01/92	34	3400				ppb	300	B07QG6	SW-846 6010
299-W19-92	Sodium	2/03/93	34	3700				ppb	300	B08418	SW-846 6010
299-W19-92	Sodium	5/05/93	34	2600	811			ppb	300	B08HT4	SW-846 6010
299-W19-92	Specific conductance	3/25/92	73	190				umhos		B06546	ASTM D-1125-A
299-W19-92	Specific conductance	3/25/92	94	208				umhos	1	B06546	Probe, Conductivity
299-W19-92	Specific conductance	5/05/92	94	167				umhos	1	B06DY6	Probe, Conductivity
299-W19-92	Specific conductance	8/12/92	73	200				umhos		B074N6	ASTM D-1125-A
299-W19-92	Specific conductance	8/12/92	94	197				umhos	1	B074N6	Probe, Conductivity
299-W19-92	Specific conductance	10/16/92	73	210				umhos		B07J92	ASTM D-1125-A
299-W19-92	Specific conductance	10/16/92	94	214				umhos	1	B07J92	Probe, Conductivity
299-W19-92	Specific conductance	12/01/92	73	210				umhos		B07QG6	ASTM D-1125-A
299-W19-92	Specific conductance	12/01/92	94	223				umhos	1	B07QG6	Probe, Conductivity
299-W19-92	Specific conductance	2/03/93	73	200				umhos		B08418	ASTM D-1125-A
299-W19-92	Specific conductance	2/03/93	94	198				umhos	1	B08418	Probe, Conductivity
299-W19-92	Specific conductance	5/05/93	73	190				umhos		B08HT4	ASTM D-1125-A
299-W19-92	Specific conductance	5/05/93	94	188				umhos	1	B08HT4	Probe, Conductivity
299-W19-92	Specific conductance	9/29/93	94	199				umhos	1	B091J2	Probe, Conductivity
299-W19-92	Strontium-90	10/16/92	141	14	3			pCi/L	5	B07J92	ITAS Sr-90
299-W19-92	Strontium-90	2/03/93	141	25	5			pCi/L	5	B08418	ITAS Sr-90
299-W19-92	Strontium-90	7/26/93	141	4	1			pCi/L	5	B08MR3	ITAS Sr-90
299-W19-92	Styrene	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Sulfate	3/25/92	124	12000	11600			ppb	500	B06546	ASTM D-4327-88
299-W19-92	Sulfate	5/05/92	124	13000	12500			ppb	500	B06DY6	ASTM D-4327-88
299-W19-92	Sulfate	8/12/92	124	10000	9650			ppb	500	B074N6	ASTM D-4327-88
299-W19-92	Sulfate	10/16/92	124	7100	6850			ppb	500	B07J92	ASTM D-4327-88
299-W19-92	Sulfate	12/01/92	124	7900	7620			ppb	500	B07QG6	ASTM D-4327-88
299-W19-92	Sulfate	2/03/93	124	8700	8390			ppb	500	B08418	ASTM D-4327-88
299-W19-92	Sulfate	5/05/93	124	14000	680			ppb	500	B08HT4	ASTM D-4327-88
299-W19-92	Sulfide	7/26/93	63	300	97		L	ppb	10000	B08MR3	SW-846 9030

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Technetium-99	7/26/93	143	0	2		U	pCi/L	15	B08MR3	ITAS Tc-99
299-W19-92	Temperature, field	3/25/92	170	19				DegC	0	B06546	Probe, temperature
299-W19-92	Temperature, field	5/05/92	170	14				DegC	0	B06DY6	Probe, temperature
299-W19-92	Temperature, field	8/12/92	170	15				DegC	0	B074N6	Probe, temperature
299-W19-92	Temperature, field	10/16/92	170	16				DegC	0	B07J92	Probe, temperature
299-W19-92	Temperature, field	12/01/92	170	18				DegC	0	B07QG6	Probe, temperature
299-W19-92	Temperature, field	2/03/93	170	21				DegC	0	B08418	Probe, temperature
299-W19-92	Temperature, field	5/05/93	170	13				DegC	0	B08HT4	Probe, temperature
299-W19-92	Temperature, field	9/29/93	170	21				DegC	0	B091J2	Probe, temperature
299-W19-92	Tetrachloroethene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Tetrachloroethene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Tetrachloroethene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Tetrachloroethene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Tetrachloroethene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Tetrachloroethene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Tetrahydrofuran	3/25/92	16	10			U	ppb	10	B06546	SW-846 8240
299-W19-92	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074N6	SW-846 8240
299-W19-92	Tetrahydrofuran	10/16/92	16	10			U	ppb	10	B07J92	SW-846 8240
299-W19-92	Tetrahydrofuran	12/01/92	16	10			U	ppb	10	B07QG6	SW-846 8240
299-W19-92	Tetrahydrofuran	2/03/93	16	10			U	ppb	10	B08418	SW-846 8240
299-W19-92	Tetrahydrofuran	5/05/93	16	4			U	ppb	10	B08HT4	SW-846 8240
299-W19-92	Tetrahydrofuran	7/26/93	16	4			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Thallium	7/26/93	42	1			U	ppb	5	B08MR3	SW-846 7841
299-W19-92	Tin	3/25/92	34	100			U	ppb	100	B06546	SW-846 6010
299-W19-92	Tin	10/16/92	34	100			U	ppb	100	B07J92	SW-846 6010
299-W19-92	Tin	12/01/92	34	100			U	ppb	100	B07QG6	SW-846 6010
299-W19-92	Tin	2/03/93	34	100			U	ppb	100	B08418	SW-846 6010
299-W19-92	Tin	5/05/93	34	51			U	ppb	100	B08HT4	SW-846 6010
299-W19-92	Toluene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Toluene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Toluene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240

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299-W19-92	Toluene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Toluene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Toluene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Toluene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Total Dissolved Solids	7/26/93	65	140			B	ppm	10	B08MR3	Std Meth #209B
299-W19-92	Total Organic Carbon	3/25/92	122	1000			U	ppb	1000	B06546	SW-846 9060
299-W19-92	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074N6	SW-846 9060
299-W19-92	Total Organic Carbon	10/16/92	122	1000			U	ppb	1000	B07J92	SW-846 9060
299-W19-92	Total Organic Carbon	12/01/92	122	1000			U	ppb	1000	B07QG6	SW-846 9060
299-W19-92	Total Organic Carbon	2/03/93	122	1000			U	ppb	1000	B08418	SW-846 9060
299-W19-92	Total Organic Carbon	5/05/93	122	500			L	ppb	1000	B08HT4	SW-846 9060
299-W19-92	Total Organic Halogen	3/25/92	67	10			U	ppb	10	B06546	SW-846 9020
299-W19-92	Total Organic Halogen	3/25/92	67	20				ppb	10	B06546	SW-846 9020
299-W19-92	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074N6	SW-846 9020
299-W19-92	Total Organic Halogen	10/16/92	67	10			U	ppb	10	B07J92	SW-846 9020
299-W19-92	Total Organic Halogen	12/01/92	67				U	ppb	10	B07QG6	SW-846 9020
299-W19-92	Total Organic Halogen	12/01/92	67	10			U	ppb	10	B07QG6	SW-846 9020
299-W19-92	Total Organic Halogen	2/03/93	67	10			U	ppb	10	B08418	SW-846 9020
299-W19-92	Total Organic Halogen	5/05/93	67	8			U	ppb	10	B08HT4	SW-846 9020
299-W19-92	Toxaphene	7/26/93	17	1			U	ppb	2	B08MR3	SW-846 8080
299-W19-92	Trichloroethene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Trichloroethene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Trichloroethene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Trichloroethene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	Trichloroethene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Trichloroethene	5/05/93	16	1			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Trichloroethene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Trichloromonofluoromethane	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Tritium	3/25/92	142	134	262		U	pCi/L	500	B06546	ITAS H-3
299-W19-92	Tritium	5/05/92	142	131	232		U	pCi/L	500	B06DY6	ITAS H-3
299-W19-92	Tritium	8/12/92	142	119	225		U	pCi/L	500	B074N6	ITAS H-3
299-W19-92	Tritium	10/16/92	142	109	244		U	pCi/L	500	B07J92	ITAS H-3

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Tritium	12/01/92	142	537	263			pCi/L	500	B07QG6	ITAS H-3
299-W19-92	Tritium	2/03/93	142	107	216		U	pCi/L	500	B08418	ITAS H-3
299-W19-92	Tritium	5/05/93	142	78	213		U	pCi/L	500	B08HT4	ITAS H-3
299-W19-92	Tritium	9/29/93	142	88	204		U	pCi/L	500	B091J2	ITAS H-3
299-W19-92	Uranium	3/25/92	145	28	8			ppb	1	B06546	ITAS Gross U
299-W19-92	Uranium	5/05/92	145	93	26			ppb	1	B06DY6	ITAS Gross U
299-W19-92	Uranium	8/12/92	145	5	2			ppb	1	B074N6	ITAS Gross U
299-W19-92	Uranium	10/16/92	145	35	9			ppb	1	B07J92	ITAS Gross U
299-W19-92	Uranium	12/01/92	145	25	7			ppb	1	B07QG6	ITAS Gross U
299-W19-92	Uranium	5/05/93	145	14	5			ppb	1	B08HT4	ITAS Gross U
299-W19-92	Uranium	9/29/93	145	17	5			ppb	1	B091J2	ITAS Gross U
299-W19-92	Uranium-234	7/26/93	148	12	1			pCi/L	0	B08MR3	ITAS Isotopic U
299-W19-92	Uranium-235	7/26/93	148	1	0			pCi/L	0	B08MR3	ITAS Isotopic U
299-W19-92	Uranium-238	2/03/93	145	48	15			ppb	1	B08418	ITAS Gross U
299-W19-92	Uranium-238	7/26/93	148	10	1			pCi/L	0	B08MR3	ITAS Isotopic U
299-W19-92	Vanadium	3/25/92	34	39	5			ppb	30	B06546	SW-846 6010
299-W19-92	Vanadium	10/16/92	34	30			U	ppb	30	B07J92	SW-846 6010
299-W19-92	Vanadium	12/01/92	34	30			U	ppb	30	B07QG6	SW-846 6010
299-W19-92	Vanadium	2/03/93	34	90	12			ppb	30	B08418	SW-846 6010
299-W19-92	Vanadium	5/05/93	34	90	18			ppb	30	B08HT4	SW-846 6010
299-W19-92	Vinyl acetate	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Vinyl chloride	3/25/92	16	10			U	ppb	10	B06546	SW-846 8240
299-W19-92	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074N6	SW-846 8240
299-W19-92	Vinyl chloride	10/16/92	16	10			U	ppb	10	B07J92	SW-846 8240
299-W19-92	Vinyl chloride	12/01/92	16	10			U	ppb	10	B07QG6	SW-846 8240
299-W19-92	Vinyl chloride	2/03/93	16	10			U	ppb	10	B08418	SW-846 8240
299-W19-92	Vinyl chloride	5/05/93	16	1			U	ppb	10	B08HT4	SW-846 8240
299-W19-92	Vinyl chloride	7/26/93	16	1			U	ppb	10	B08MR3	SW-846 8240
299-W19-92	Xylenes (total)	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	Xylenes (total)	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	Xylenes (total)	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	Xylenes (total)	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	Xylenes (total)	5/05/93	16	2			U	ppb	5	B08HT4	SW-846 8240
299-W19-92	Xylenes (total)	7/26/93	16	2			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	Zinc	3/25/92	34	10			U	ppb	10	B06546	SW-846 6010
299-W19-92	Zinc	10/16/92	34	10			U	ppb	10	B07J92	SW-846 6010
299-W19-92	Zinc	12/01/92	34	10			U	ppb	10	B07QG6	SW-846 6010
299-W19-92	Zinc	2/03/93	34	20	3			ppb	10	B08418	SW-846 6010
299-W19-92	Zinc	5/05/93	34	20	5			ppb	10	B08HT4	SW-846 6010
299-W19-92	allylchloride	7/26/93	16	1			U	ppb	100	B08MR3	SW-846 8240
299-W19-92	cis-1,3-Dichloropropene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240
299-W19-92	gamma-BHC (Lindane)	7/26/93	17	0			U	ppb	0	B08MR3	SW-846 8080
299-W19-92	pH	3/25/92	125	8				pH		B06546	ASTM D-1293
299-W19-92	pH	3/25/92	93	8					0	B06546	Probe, pH
299-W19-92	pH	5/05/92	93	8					0	B06DY6	Probe, pH
299-W19-92	pH	8/12/92	125	8				pH		B074N6	ASTM D-1293
299-W19-92	pH	8/12/92	93	8					0	B074N6	Probe, pH
299-W19-92	pH	10/16/92	125	8				pH		B07J92	ASTM D-1293
299-W19-92	pH	10/16/92	93	8					0	B07J92	Probe, pH
299-W19-92	pH	12/01/92	125	8				pH		B07QG6	ASTM D-1293
299-W19-92	pH	12/01/92	93	8					0	B07QG6	Probe, pH
299-W19-92	pH	2/03/93	125	8				pH		B08418	ASTM D-1293
299-W19-92	pH	2/03/93	93	8					0	B08418	Probe, pH
299-W19-92	pH	5/05/93	125	8				pH		B08HT4	ASTM D-1293
299-W19-92	pH	5/05/93	93	8					0	B08HT4	Probe, pH
299-W19-92	pH	7/26/93	125	7				pH		B08MR3	ASTM D-1293
299-W19-92	pH	9/29/93	93	8					0	B091J2	Probe, pH
299-W19-92	trans-1,2-Dichloroethylene	3/25/92	16	5			U	ppb	5	B06546	SW-846 8240
299-W19-92	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074N6	SW-846 8240
299-W19-92	trans-1,2-Dichloroethylene	10/16/92	16	5			U	ppb	5	B07J92	SW-846 8240
299-W19-92	trans-1,2-Dichloroethylene	12/01/92	16	5			U	ppb	5	B07QG6	SW-846 8240
299-W19-92	trans-1,2-Dichloroethylene	2/03/93	16	5			U	ppb	5	B08418	SW-846 8240
299-W19-92	trans-1,3-Dichloropropene	7/26/93	16	0			U	ppb	5	B08MR3	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-92	trans-1,4-dichloro-2-butene	7/26/93	16	1			U	ppb	5	B08MR3	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	1.1.1.2-Tetrachloroethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1.1.1-Trichloroethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.1.2.2-Tetrachloroethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	5/05/93	16	0			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1.1.2-Trichloroethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.1-Dichloroethane	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	1.1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	1.1-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	1.1-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	1.1-Dichloroethane	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	1.1-Dichloroethane	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1.1-Dichloroethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.1-Dichloroethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.2.3-Trichloropropane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.2-Dibromo-3-chloropropane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.2-Dibromoethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1.2-Dichloroethane	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	1.2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	1.2-Dichloroethane	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	1.2-Dichloroethane	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240

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299-W19-93	1,2-Dichloroethane	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	1,2-Dichloroethane	5/05/93	16	0			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1,2-Dichloroethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1,2-Dichloroethene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1,2-Dichloroethene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1,2-Dichloropropane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	1,4-Dichlorobenzene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	1,4-Dioxane	7/15/93	16	44			U	ppb	200	B08MR5	SW-846 8240
299-W19-93	1-Butanol	3/25/92	16	1000			U	ppb	1000	B06548	SW-846 8240
299-W19-93	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074N9	SW-846 8240
299-W19-93	1-Butanol	10/16/92	16	1000			U	ppb	1000	B07J94	SW-846 8240
299-W19-93	1-Butanol	12/01/92	16	1000			U	ppb	1000	B07QG7	SW-846 8240
299-W19-93	1-Butanol	2/03/93	16	1000			U	ppb	1000	B08419	SW-846 8240
299-W19-93	1-Butanol	5/05/93	16	13			U	ppb	1000	B08HT5	SW-846 8240
299-W19-93	1-Butanol	7/15/93	16	13			U	ppb	1000	B08MR5	SW-846 8240
299-W19-93	2,4,5-T	7/15/93	49	0			U	ppb	2	B08MR5	SW-846 8150
299-W19-93	2,4,5-TP	7/15/93	49	0			U	ppb	2	B08MR5	SW-846 8150
299-W19-93	2,4-D	7/15/93	49	0			U	ppb	10	B08MR5	SW-846 8150
299-W19-93	2-Hexanone	7/15/93	16	1			U	ppb	50	B08MR5	SW-846 8240
299-W19-93	2-sec-Butyl-4,6-dinitrophenol (DNBP)	7/15/93	49	0			U	ppb	1	B08MR5	SW-846 8150
299-W19-93	4,4'-DDD	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	4,4'-DDE	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	4,4'-DDT	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	4-Methyl-2-pentanone	3/25/92	16	50			U	ppb	50	B06548	SW-846 8240
299-W19-93	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074N9	SW-846 8240
299-W19-93	4-Methyl-2-pentanone	10/16/92	16	50			U	ppb	50	B07J94	SW-846 8240
299-W19-93	4-Methyl-2-pentanone	12/01/92	16	50			U	ppb	50	B07QG7	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	4-Methyl-2-pentanone	2/03/93	16	50			U	ppb	50	B08419	SW-846 8240
299-W19-93	4-Methyl-2-pentanone	5/05/93	16	1			U	ppb	50	B08HT5	SW-846 8240
299-W19-93	4-Methyl-2-pentanone	7/15/93	16	1			U	ppb	50	B08MR5	SW-846 8240
299-W19-93	Acetone	3/25/92	16	100			U	ppb	100	B06548	SW-846 8240
299-W19-93	Acetone	8/12/92	16	100			U	ppb	100	B074N9	SW-846 8240
299-W19-93	Acetone	10/16/92	16	100			U	ppb	100	B07J94	SW-846 8240
299-W19-93	Acetone	12/01/92	16	76			B	ppb	100	B07QG7	SW-846 8240
299-W19-93	Acetone	2/03/93	16	100			U	ppb	100	B08419	SW-846 8240
299-W19-93	Acetone	5/05/93	16	13			U	ppb	100	B08HT5	SW-846 8240
299-W19-93	Acetone	7/15/93	16	13			U	ppb	100	B08MR5	SW-846 8240
299-W19-93	Acetonitrile	7/15/93	16	19			U	ppb	200	B08MR5	SW-846 8240
299-W19-93	Acrolein	7/15/93	16	10			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Acrylonitrile	7/15/93	16	4			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Aldrin	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Alpha-BHC	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Aluminum	5/05/93	34	61			L	ppb	200	B08HT5	SW-846 6010
299-W19-93	Aluminum	7/15/93	34	52			L	ppb	200	B08MR5	SW-846 6010
299-W19-93	Aluminum	8/30/93	34	660				ppb	200	B091J5	SW-846 6010
299-W19-93	Americium-241	10/16/92	147	-0	0		U	pCi/L	0	B07J94	ITAS Am-241
299-W19-93	Americium-241	2/03/93	147	-0	0		U	pCi/L	0	B08419	ITAS Am-241
299-W19-93	Americium-241	7/15/93	147	-0	0		U	pCi/L	0	B08MR5	ITAS Am-241
299-W19-93	Ammonium ion	7/15/93	54	39			U	ppb	100	B08MR5	ASTM D-1426-D
299-W19-93	Antimony	3/25/92	34	200			U	ppb	200	B06548	SW-846 6010
299-W19-93	Antimony	10/16/92	34	200			U	ppb	200	B07J94	SW-846 6010
299-W19-93	Antimony	12/01/92	34	200			U	ppb	200	B07QG7	SW-846 6010
299-W19-93	Antimony	2/03/93	34	200			U	ppb	200	B08419	SW-846 6010
299-W19-93	Antimony	5/05/93	34	69			U	ppb	200	B08HT5	SW-846 6010
299-W19-93	Antimony	7/15/93	34	69			U	ppb	200	B08MR5	SW-846 6010
299-W19-93	Antimony	8/30/93	34	69			U	ppb	200	B091J5	SW-846 6010
299-W19-93	Antimony-125	10/16/92	140	13	17		U	pCi/L		B07J94	ITAS Gamma Scan
299-W19-93	Antimony-125	2/03/93	140	-11	15		U	pCi/L		B08419	ITAS Gamma Scan
299-W19-93	Antimony-125	7/15/93	140	-9	18		U	pCi/L		B08MR5	ITAS Gamma Scan

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Aroclor-1016	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1221	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1232	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1242	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1248	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1254	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Aroclor-1260	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Arsenic	7/15/93	43	5	4			ppb	5	B08MR5	SW-846 7060
299-W19-93	Barium	3/25/92	34	410	57			ppb	20	B06548	SW-846 6010
299-W19-93	Barium	10/16/92	34	80	11			ppb	20	B07J94	SW-846 6010
299-W19-93	Barium	12/01/92	34	100	14			ppb	20	B07QG7	SW-846 6010
299-W19-93	Barium	2/03/93	34	130	18			ppb	20	B08419	SW-846 6010
299-W19-93	Barium	5/05/93	34	30	0			ppb	20	B08HT5	SW-846 6010
299-W19-93	Barium	7/15/93	34	37	0			ppb	20	B08MR5	SW-846 6010
299-W19-93	Barium	8/30/93	34	75	0			ppb	20	B091J5	SW-846 6010
299-W19-93	Benzene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Benzene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Benzene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Benzene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Benzene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Benzene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Benzene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Beryllium	3/25/92	34	3			U	ppb	3	B06548	SW-846 6010
299-W19-93	Beryllium	10/16/92	34	3			U	ppb	3	B07J94	SW-846 6010
299-W19-93	Beryllium	12/01/92	34	3			U	ppb	3	B07QG7	SW-846 6010
299-W19-93	Beryllium	2/03/93	34	3			U	ppb	3	B08419	SW-846 6010
299-W19-93	Beryllium	5/05/93	34	1			U	ppb	3	B08HT5	SW-846 6010
299-W19-93	Beryllium	7/15/93	34	1			U	ppb	3	B08MR5	SW-846 6010
299-W19-93	Beryllium	8/30/93	34	1			U	ppb	3	B091J5	SW-846 6010
299-W19-93	Beta-BHC	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Bromide	3/25/92	124	500			U	ppb	500	B06548	ASTM D-4327-88
299-W19-93	Bromide	5/05/92	124	500			U	ppb	500	B06DY8	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Bromide	8/12/92	124	500			U	ppb	500	B074N9	ASTM D-4327-88
299-W19-93	Bromide	10/16/92	124	500			U	ppb	500	B07J94	ASTM D-4327-88
299-W19-93	Bromide	12/01/92	124	500			U	ppb	500	B07QG7	ASTM D-4327-88
299-W19-93	Bromide	2/03/93	124	500			U	ppb	500	B08419	ASTM D-4327-88
299-W19-93	Bromide	5/05/93	124	53			U	ppb	500	B08HT5	ASTM D-4327-88
299-W19-93	Bromodichloromethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Bromoform	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Cadmium	3/25/92	34	10			U	ppb	10	B06548	SW-846 6010
299-W19-93	Cadmium	10/16/92	34	10			U	ppb	10	B07J94	SW-846 6010
299-W19-93	Cadmium	12/01/92	34	10			U	ppb	10	B07QG7	SW-846 6010
299-W19-93	Cadmium	2/03/93	34	10			U	ppb	10	B08419	SW-846 6010
299-W19-93	Cadmium	5/05/93	34	5			U	ppb	10	B08HT5	SW-846 6010
299-W19-93	Cadmium	7/15/93	34	5			U	ppb	10	B08MR5	SW-846 6010
299-W19-93	Cadmium	8/30/93	34	5			U	ppb	10	B091J5	SW-846 6010
299-W19-93	Calcium	3/25/92	34	43000				ppb	100	B06548	SW-846 6010
299-W19-93	Calcium	10/16/92	34	23000				ppb	100	B07J94	SW-846 6010
299-W19-93	Calcium	12/01/92	34	26000				ppb	100	B07QG7	SW-846 6010
299-W19-93	Calcium	2/03/93	34	28000				ppb	100	B08419	SW-846 6010
299-W19-93	Calcium	5/05/93	34	24000	7270			ppb	100	B08HT5	SW-846 6010
299-W19-93	Calcium	7/15/93	34	29000	8790			ppb	100	B08MR5	SW-846 6010
299-W19-93	Calcium	8/30/93	34	14000	4240			ppb	100	B091J5	SW-846 6010
299-W19-93	Carbon disulfide	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Carbon disulfide	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Carbon tetrachloride	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Carbon tetrachloride	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Carbon tetrachloride	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Carbon tetrachloride	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Carbon tetrachloride	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Carbon tetrachloride	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Carbon tetrachloride	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Cesium-137	10/16/92	140	0	7		U	pCi/L	20	B07J94	ITAS Gamma Scan
299-W19-93	Cesium-137	2/03/93	140	-1	6		U	pCi/L	20	B08419	ITAS Gamma Scan

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Cesium-137	7/15/93	140	2	6		U	pCi/L	20	B08MR5	ITAS Gamma Scan
299-W19-93	Chlordane	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Chloride	3/25/92	124	1400	471			ppb	200	B06548	ASTM D-4327-88
299-W19-93	Chloride	5/05/92	124	1500	505			ppb	200	B06DY8	ASTM D-4327-88
299-W19-93	Chloride	8/12/92	124	1500	505			ppb	200	B074N9	ASTM D-4327-88
299-W19-93	Chloride	10/16/92	124	1200	404			ppb	200	B07J94	ASTM D-4327-88
299-W19-93	Chloride	12/01/92	124	1100	370			ppb	200	B07QG7	ASTM D-4327-88
299-W19-93	Chloride	2/03/93	124	1200	404			ppb	200	B08419	ASTM D-4327-88
299-W19-93	Chloride	5/05/93	124	1200	199			ppb	200	B08HT5	ASTM D-4327-88
299-W19-93	Chlorobenzene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Chloroethane	7/15/93	16	1			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Chloroform	3/25/92	16	1			JU	ppb	5	B06548	SW-846 8240
299-W19-93	Chloroform	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Chloroform	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Chloroform	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Chloroform	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Chloroform	5/05/93	16	0			L	ppb	5	B08HT5	SW-846 8240
299-W19-93	Chloroform	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Chloroprene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Chromium	3/25/92	34	20			U	ppb	20	B06548	SW-846 6010
299-W19-93	Chromium	10/16/92	34	20			U	ppb	20	B07J94	SW-846 6010
299-W19-93	Chromium	12/01/92	34	50	30			ppb	20	B07QG7	SW-846 6010
299-W19-93	Chromium	2/03/93	34	20	12			ppb	20	B08419	SW-846 6010
299-W19-93	Chromium	5/05/93	34	5			U	ppb	20	B08HT5	SW-846 6010
299-W19-93	Chromium	7/15/93	34	5			U	ppb	20	B08MR5	SW-846 6010
299-W19-93	Chromium	8/30/93	34	43	11			ppb	20	B091J5	SW-846 6010
299-W19-93	Cobalt	3/25/92	34	20			U	ppb	20	B06548	SW-846 6010
299-W19-93	Cobalt	10/16/92	34	20			U	ppb	20	B07J94	SW-846 6010
299-W19-93	Cobalt	12/01/92	34	20			U	ppb	20	B07QG7	SW-846 6010
299-W19-93	Cobalt	2/03/93	34	20			U	ppb	20	B08419	SW-846 6010
299-W19-93	Cobalt	5/05/93	34	4			U	ppb	20	B08HT5	SW-846 6010
299-W19-93	Cobalt	7/15/93	34	4			U	ppb	20	B08MR5	SW-846 6010

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299-W19-93	Cobalt	8/30/93	34	4	1		L	ppb	20	B091J5	SW-846 6010
299-W19-93	Cobalt-60	10/16/92	140	3	8		U	pCi/L		B07J94	ITAS Gamma Scan
299-W19-93	Cobalt-60	2/03/93	140	1	5		U	pCi/L		B08419	ITAS Gamma Scan
299-W19-93	Cobalt-60	7/15/93	140	2	6		U	pCi/L		B08MR5	ITAS Gamma Scan
299-W19-93	Copper	3/25/92	34	20	4			ppb	20	B06548	SW-846 6010
299-W19-93	Copper	10/16/92	34	20			U	ppb	20	B07J94	SW-846 6010
299-W19-93	Copper	12/01/92	34	20			U	ppb	20	B07QG7	SW-846 6010
299-W19-93	Copper	2/03/93	34	20			U	ppb	20	B08419	SW-846 6010
299-W19-93	Copper	5/05/93	34	3			U	ppb	20	B08HT5	SW-846 6010
299-W19-93	Copper	7/15/93	34	3			U	ppb	20	B08MR5	SW-846 6010
299-W19-93	Copper	8/30/93	34	5	1		L	ppb	20	B091J5	SW-846 6010
299-W19-93	Cyanide	7/15/93	56	1			U	ppb	20	B08MR5	SW-846 9010
299-W19-93	Delta-BHC	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Dibromochloromethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Dibromomethane	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Dichlorodifluoromethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Dieldrin	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Disulfoton	7/15/93	29	0			U	ppb	2	B08MR5	SW-846 8140
299-W19-93	Endosulfan I	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Endosulfan II	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Endosulfan sulfate	7/15/93	17	0			L	ppb	1	B08MR5	SW-846 8080
299-W19-93	Endrin	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Endrin Aldehyde	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Ethyl cyanide	5/05/93	16	4			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Ethyl cyanide	5/05/93	16	4			U	ppb	10	B08HT5	SW-846 8240
299-W19-93	Ethyl cyanide	7/15/93	16	4			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Ethyl cyanide	7/15/93	16	4			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Ethyl methacrylate	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Ethylbenzene	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Fluoride	3/25/92	124	100	21			ppb	100	B06548	ASTM D-4327-88
299-W19-93	Fluoride	5/05/92	124	100	21			ppb	100	B06DY8	ASTM D-4327-88
299-W19-93	Fluoride	8/12/92	124	100	21			ppb	100	B074N9	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Fluoride	10/16/92	124	100			U	ppb	100	B07J94	ASTM D-4327-88
299-W19-93	Fluoride	12/01/92	124	100	21			ppb	100	B07QG7	ASTM D-4327-88
299-W19-93	Fluoride	2/03/93	124	200	42			ppb	100	B08419	ASTM D-4327-88
299-W19-93	Fluoride	5/05/93	124	200	13		L	ppb	100	B08HT5	ASTM D-4327-88
299-W19-93	Gross alpha	3/25/92	135	125	31			pCi/L	4	B06548	SW-846 9310, Alpha
299-W19-93	Gross alpha	5/05/92	135	57	13			pCi/L	4	B06DY8	SW-846 9310, Alpha
299-W19-93	Gross alpha	8/12/92	135	23	6			pCi/L	4	B074N9	SW-846 9310, Alpha
299-W19-93	Gross alpha	10/16/92	135	23	6			pCi/L	4	B07J94	SW-846 9310, Alpha
299-W19-93	Gross alpha	12/01/92	135	24	7			pCi/L	4	B07QG7	SW-846 9310, Alpha
299-W19-93	Gross alpha	2/03/93	135	70	13			pCi/L	4	B08419	SW-846 9310, Alpha
299-W19-93	Gross alpha	5/05/93	135	19	6			pCi/L	4	B08HT5	SW-846 9310, Alpha
299-W19-93	Gross alpha	8/30/93	135	30	8			pCi/L	4	B091J5	SW-846 9310, Alpha
299-W19-93	Gross beta	3/25/92	136	88	10			pCi/L	8	B06548	SW-846 9310, Beta
299-W19-93	Gross beta	5/05/92	136	20	4			pCi/L	8	B06DY8	SW-846 9310, Beta
299-W19-93	Gross beta	8/12/92	136	13	3			pCi/L	8	B074N9	SW-846 9310, Beta
299-W19-93	Gross beta	10/16/92	136	13	3			pCi/L	8	B07J94	SW-846 9310, Beta
299-W19-93	Gross beta	12/01/92	136	12	3			pCi/L	8	B07QG7	SW-846 9310, Beta
299-W19-93	Gross beta	2/03/93	136	36	5			pCi/L	8	B08419	SW-846 9310, Beta
299-W19-93	Gross beta	5/05/93	136	10	3			pCi/L	8	B08HT5	SW-846 9310, Beta
299-W19-93	Gross beta	8/30/93	136	32	5			pCi/L	8	B091J5	SW-846 9310, Beta
299-W19-93	Heptachlor	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	Heptachlor epoxide	7/15/93	17	0			U	ppb	1	B08MR5	SW-846 8080
299-W19-93	Iron	3/25/92	34	41000	35300			ppb	20	B06548	SW-846 6010
299-W19-93	Iron	10/16/92	34	35000	30100			ppb	20	B07J94	SW-846 6010
299-W19-93	Iron	12/01/92	34	70000	60200			ppb	20	B07QG7	SW-846 6010
299-W19-93	Iron	2/03/93	34	77000	66300			ppb	20	B08419	SW-846 6010
299-W19-93	Iron	5/05/93	34	5200	2320			ppb	20	B08HT5	SW-846 6010
299-W19-93	Iron	7/15/93	34	1100	492			ppb	20	B08MR5	SW-846 6010
299-W19-93	Iron	8/30/93	34	82000	36700			ppb	20	B091J5	SW-846 6010
299-W19-93	Isobutyl alcohol	7/15/93	16	27			U	ppb	200	B08MR5	SW-846 8240
299-W19-93	Lead	7/15/93	40	1			U	ppb	5	B08MR5	SW-846 7421
299-W19-93	Magnesium	3/25/92	34	7700				ppb	100	B06548	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Magnesium	10/16/92	34	5500				ppb	100	B07J94	SW-846 6010
299-W19-93	Magnesium	12/01/92	34	6000				ppb	100	B07QG7	SW-846 6010
299-W19-93	Magnesium	2/03/93	34	6300				ppb	100	B08419	SW-846 6010
299-W19-93	Magnesium	5/05/93	34	5400	2830			ppb	100	B08HT5	SW-846 6010
299-W19-93	Magnesium	7/15/93	34	6700	3520			ppb	100	B08MR5	SW-846 6010
299-W19-93	Magnesium	8/30/93	34	5200	2730			ppb	100	B091J5	SW-846 6010
299-W19-93	Manganese	3/25/92	34	1800	275			ppb	10	B06548	SW-846 6010
299-W19-93	Manganese	10/16/92	34	650	99			ppb	10	B07J94	SW-846 6010
299-W19-93	Manganese	12/01/92	34	1100	168			ppb	10	B07QG7	SW-846 6010
299-W19-93	Manganese	2/03/93	34	1200	183			ppb	10	B08419	SW-846 6010
299-W19-93	Manganese	5/05/93	34	70	19			ppb	10	B08HT5	SW-846 6010
299-W19-93	Manganese	7/15/93	34	14	4			ppb	10	B08MR5	SW-846 6010
299-W19-93	Manganese	8/30/93	34	770	216			ppb	10	B091J5	SW-846 6010
299-W19-93	Mercury	7/15/93	41	0			U	ppb	0	B08MR5	SW-846 7470
299-W19-93	Methacrylonitrile	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Methoxychlor	7/15/93	17	0			U	ppb	2	B08MR5	SW-846 8080
299-W19-93	Methyl Iodide	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Methyl bromide	7/15/93	16	1			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Methyl chloride	7/15/93	16	1			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Methyl ethyl ketone	3/25/92	16	100			U	ppb	100	B06548	SW-846 8240
299-W19-93	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074N9	SW-846 8240
299-W19-93	Methyl ethyl ketone	10/16/92	16	100			U	ppb	100	B07J94	SW-846 8240
299-W19-93	Methyl ethyl ketone	12/01/92	16	100			U	ppb	100	B07QG7	SW-846 8240
299-W19-93	Methyl ethyl ketone	2/03/93	16	100			U	ppb	100	B08419	SW-846 8240
299-W19-93	Methyl ethyl ketone	5/05/93	16	4			U	ppb	100	B08HT5	SW-846 8240
299-W19-93	Methyl ethyl ketone	7/15/93	16	4			U	ppb	100	B08MR5	SW-846 8240
299-W19-93	Methyl methacrylate	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Methyl parathion	7/15/93	29	0			U	ppb	1	B08MR5	SW-846 8140
299-W19-93	Methylene chloride	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Methylene chloride	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Methylene chloride	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Methylene chloride	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Methylene chloride	2/03/93	16	1			BJU	ppb	5	B08419	SW-846 8240
299-W19-93	Methylene chloride	5/05/93	16	1			LB	ppb	5	B08HT5	SW-846 8240
299-W19-93	Methylene chloride	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Nickel	3/25/92	34	30			U	ppb	30	B06548	SW-846 6010
299-W19-93	Nickel	10/16/92	34	30			U	ppb	30	B07J94	SW-846 6010
299-W19-93	Nickel	12/01/92	34	30			U	ppb	30	B07QG7	SW-846 6010
299-W19-93	Nickel	2/03/93	34	30	6			ppb	30	B08419	SW-846 6010
299-W19-93	Nickel	5/05/93	34	18			U	ppb	30	B08HT5	SW-846 6010
299-W19-93	Nickel	7/15/93	34	18			U	ppb	30	B08MR5	SW-846 6010
299-W19-93	Nickel	8/30/93	34	27	7		L	ppb	30	B091J5	SW-846 6010
299-W19-93	Nitrate	3/25/92	124	500	281			ppb	200	B06548	ASTM D-4327-88
299-W19-93	Nitrate	5/05/92	124	400	225			ppb	200	B06DY8	ASTM D-4327-88
299-W19-93	Nitrate	8/12/92	124	200	113			ppb	200	B074N9	ASTM D-4327-88
299-W19-93	Nitrate	10/16/92	124	100	56		U	ppb	200	B07J94	ASTM D-4327-88
299-W19-93	Nitrate	12/01/92	124	200			U	ppb	200	B07QG7	ASTM D-4327-88
299-W19-93	Nitrate	2/03/93	124	1700	957			ppb	200	B08419	ASTM D-4327-88
299-W19-93	Nitrate	5/05/93	124	400	35			ppb	200	B08HT5	ASTM D-4327-88
299-W19-93	Nitrite	3/25/92	124	200			U	ppb	200	B06548	ASTM D-4327-88
299-W19-93	Nitrite	5/05/92	124	200			U	ppb	200	B06DY8	ASTM D-4327-88
299-W19-93	Nitrite	8/12/92	124	200			U	ppb	200	B074N9	ASTM D-4327-88
299-W19-93	Nitrite	10/16/92	124	200			U	ppb	200	B07J94	ASTM D-4327-88
299-W19-93	Nitrite	12/01/92	124	200			U	ppb	200	B07QG7	ASTM D-4327-88
299-W19-93	Nitrite	2/03/93	124	200			U	ppb	200	B08419	ASTM D-4327-88
299-W19-93	Nitrite	5/05/93	124	38			U	ppb	200	B08HT5	ASTM D-4327-88
299-W19-93	Pentachloroethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Phorate	7/15/93	29	0			U	ppb	2	B08MR5	SW-846 8140
299-W19-93	Phosphate	3/25/92	124	400			U	ppb	400	B06548	ASTM D-4327-88
299-W19-93	Phosphate	3/25/92	124	400			U	ppb	500	B06548	ASTM D-4327-88
299-W19-93	Phosphate	5/05/92	124	400			U	ppb	400	B06DY8	ASTM D-4327-88
299-W19-93	Phosphate	5/05/92	124	400			U	ppb	500	B06DY8	ASTM D-4327-88
299-W19-93	Phosphate	8/12/92	124	400			U	ppb	400	B074N9	ASTM D-4327-88
299-W19-93	Phosphate	8/12/92	124	400			U	ppb	500	B074N9	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Phosphate	10/16/92	124	400			U	ppb	400	B07J94	ASTM D-4327-88
299-W19-93	Phosphate	10/16/92	124	400			U	ppb	500	B07J94	ASTM D-4327-88
299-W19-93	Phosphate	12/01/92	124	400			U	ppb	400	B07QG7	ASTM D-4327-88
299-W19-93	Phosphate	12/01/92	124	400			U	ppb	500	B07QG7	ASTM D-4327-88
299-W19-93	Phosphate	2/03/93	124	400			U	ppb	400	B08419	ASTM D-4327-88
299-W19-93	Phosphate	2/03/93	124	400			U	ppb	500	B08419	ASTM D-4327-88
299-W19-93	Phosphate	5/05/93	124	147			U	ppb	400	B08HT5	ASTM D-4327-88
299-W19-93	Phosphate	5/05/93	124	147			U	ppb	500	B08HT5	ASTM D-4327-88
299-W19-93	Plutonium-238	7/15/93	146	-0	0		U	pCi/L	0	B08MR5	ITAS Isotopic Pu
299-W19-93	Plutonium-239/40	7/15/93	146	-0	0		U	pCi/L	0	B08MR5	ITAS Isotopic Pu
299-W19-93	Potassium	3/25/92	34	3500				ppb	300	B06548	SW-846 6010
299-W19-93	Potassium	3/25/92	34	3500				ppb	1000	B06548	SW-846 6010
299-W19-93	Potassium	10/16/92	34	2600				ppb	300	B07J94	SW-846 6010
299-W19-93	Potassium	10/16/92	34	2600				ppb	1000	B07J94	SW-846 6010
299-W19-93	Potassium	12/01/92	34	3400				ppb	300	B07QG7	SW-846 6010
299-W19-93	Potassium	12/01/92	34	3400				ppb	1000	B07QG7	SW-846 6010
299-W19-93	Potassium	2/03/93	34	3900				ppb	300	B08419	SW-846 6010
299-W19-93	Potassium	2/03/93	34	3900				ppb	1000	B08419	SW-846 6010
299-W19-93	Potassium	5/05/93	34	2000	2110			ppb	300	B08HT5	SW-846 6010
299-W19-93	Potassium	5/05/93	34	2000	2110			ppb	1000	B08HT5	SW-846 6010
299-W19-93	Potassium	7/15/93	34	2100	2010			ppb	300	B08MR5	SW-846 6010
299-W19-93	Potassium	7/15/93	34	2100	2010			ppb	1000	B08MR5	SW-846 6010
299-W19-93	Potassium	8/30/93	34	2500	2390			ppb	300	B091J5	SW-846 6010
299-W19-93	Potassium	8/30/93	34	2500	2390			ppb	1000	B091J5	SW-846 6010
299-W19-93	Ruthenium-106	10/16/92	140	8	49		U	pCi/L		B07J94	ITAS Gamma Scan
299-W19-93	Ruthenium-106	2/03/93	140	1	55		U	pCi/L		B08419	ITAS Gamma Scan
299-W19-93	Ruthenium-106	7/15/93	140	-8	49		U	pCi/L		B08MR5	ITAS Gamma Scan
299-W19-93	Selenium	7/15/93	48	1			U	ppb	10	B08MR5	SW-846 7740
299-W19-93	Silver	3/25/92	34	20			U	ppb	20	B06548	SW-846 6010
299-W19-93	Silver	10/16/92	34	20			U	ppb	20	B07J94	SW-846 6010
299-W19-93	Silver	12/01/92	34	20			U	ppb	20	B07QG7	SW-846 6010
299-W19-93	Silver	2/03/93	34	20			U	ppb	20	B08419	SW-846 6010

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299-W19-93	Silver	5/05/93	34	3			U	ppb	20	B08HT5	SW-846 6010
299-W19-93	Silver	7/15/93	34	3	1		L	ppb	20	B08MR5	SW-846 6010
299-W19-93	Silver	8/30/93	34	5	1		L	ppb	20	B091J5	SW-846 6010
299-W19-93	Sodium	3/25/92	34	2700				ppb	300	B06548	SW-846 6010
299-W19-93	Sodium	10/16/92	34	2700				ppb	300	B07J94	SW-846 6010
299-W19-93	Sodium	12/01/92	34	3500				ppb	300	B07QG7	SW-846 6010
299-W19-93	Sodium	2/03/93	34	2900				ppb	300	B08419	SW-846 6010
299-W19-93	Sodium	5/05/93	34	2400	749			ppb	300	B08HT5	SW-846 6010
299-W19-93	Sodium	7/15/93	34	2600	811			ppb	300	B08MR5	SW-846 6010
299-W19-93	Sodium	8/30/93	34	2900	905			ppb	300	B091J5	SW-846 6010
299-W19-93	Specific conductance	3/25/92	73	180				umhos		B06548	ASTM D-1125-A
299-W19-93	Specific conductance	3/25/92	94	163				umhos	1	B06548	Probe, Conductivity
299-W19-93	Specific conductance	5/05/92	94	154				umhos	1	B06DY8	Probe, Conductivity
299-W19-93	Specific conductance	8/12/92	73	170				umhos		B074N9	ASTM D-1125-A
299-W19-93	Specific conductance	8/12/92	94	167				umhos	1	B074N9	Probe, Conductivity
299-W19-93	Specific conductance	10/16/92	73	180				umhos		B07J94	ASTM D-1125-A
299-W19-93	Specific conductance	10/16/92	94	169				umhos	1	B07J94	Probe, Conductivity
299-W19-93	Specific conductance	12/01/92	73	180				umhos		B07QG7	ASTM D-1125-A
299-W19-93	Specific conductance	12/01/92	94	208				umhos	1	B07QG7	Probe, Conductivity
299-W19-93	Specific conductance	2/03/93	73	200				umhos		B08419	ASTM D-1125-A
299-W19-93	Specific conductance	2/03/93	94	178				umhos	1	B08419	Probe, Conductivity
299-W19-93	Specific conductance	5/05/93	73	180				umhos		B08HT5	ASTM D-1125-A
299-W19-93	Specific conductance	5/05/93	94	182				umhos	1	B08HT5	Probe, Conductivity
299-W19-93	Specific conductance	7/15/93	73	210				umhos		B08MR5	ASTM D-1125-A
299-W19-93	Specific conductance	8/30/93	94	114				umhos	1	B091J5	Probe, Conductivity
299-W19-93	Strontium-90	10/16/92	141	1	1		U	pCi/L	5	B07J94	ITAS Sr-90
299-W19-93	Strontium-90	2/03/93	141	2	1		U	pCi/L	5	B08419	ITAS Sr-90
299-W19-93	Strontium-90	7/15/93	141	2	1			pCi/L	5	B08MR5	ITAS Sr-90
299-W19-93	Styrene	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Sulfate	3/25/92	124	9900	9550			ppb	500	B06548	ASTM D-4327-88
299-W19-93	Sulfate	5/05/92	124	13000	12500			ppb	500	B06DY8	ASTM D-4327-88
299-W19-93	Sulfate	8/12/92	124	8600	8300			ppb	500	B074N9	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Sulfate	10/16/92	124	8100	7810			ppb	500	B07J94	ASTM D-4327-88
299-W19-93	Sulfate	12/01/92	124	8500	8200			ppb	500	B07QG7	ASTM D-4327-88
299-W19-93	Sulfate	2/03/93	124	9500	9170			ppb	500	B08419	ASTM D-4327-88
299-W19-93	Sulfate	5/05/93	124	12000	583			ppb	500	B08HT5	ASTM D-4327-88
299-W19-93	Technetium-99	7/15/93	143	1	2		U	pCi/L	15	B08MR5	ITAS Tc-99
299-W19-93	Temperature, field	3/25/92	170	17				DegC	0	B06548	Probe, temperature
299-W19-93	Temperature, field	5/05/92	170	13				DegC	0	B06DY8	Probe, temperature
299-W19-93	Temperature, field	8/12/92	170	15				DegC	0	B074N9	Probe, temperature
299-W19-93	Temperature, field	10/16/92	170	15				DegC	0	B07J94	Probe, temperature
299-W19-93	Temperature, field	12/01/92	170	15				DegC	0	B07QG7	Probe, temperature
299-W19-93	Temperature, field	2/03/93	170	18				DegC	0	B08419	Probe, temperature
299-W19-93	Temperature, field	5/05/93	170	13				DegC	0	B08HT5	Probe, temperature
299-W19-93	Temperature, field	8/30/93	170	18				DegC	0	B091J5	Probe, temperature
299-W19-93	Tetrachloroethene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Tetrachloroethene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Tetrachloroethene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Tetrachloroethene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Tetrachloroethene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Tetrachloroethene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Tetrahydrofuran	3/25/92	16	10			U	ppb	10	B06548	SW-846 8240
299-W19-93	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074N9	SW-846 8240
299-W19-93	Tetrahydrofuran	10/16/92	16	10			U	ppb	10	B07J94	SW-846 8240
299-W19-93	Tetrahydrofuran	12/01/92	16	10			U	ppb	10	B07QG7	SW-846 8240
299-W19-93	Tetrahydrofuran	2/03/93	16	10			U	ppb	10	B08419	SW-846 8240
299-W19-93	Tetrahydrofuran	5/05/93	16	4			U	ppb	10	B08HT5	SW-846 8240
299-W19-93	Tetrahydrofuran	7/15/93	16	4			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Thallium	7/15/93	42	1			U	ppb	5	B08MR5	SW-846 7841
299-W19-93	Tin	3/25/92	34	100			U	ppb	100	B06548	SW-846 6010
299-W19-93	Tin	10/16/92	34	100			U	ppb	100	B07J94	SW-846 6010
299-W19-93	Tin	12/01/92	34	100			U	ppb	100	B07QG7	SW-846 6010
299-W19-93	Tin	2/03/93	34	100			U	ppb	100	B08419	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	Tin	5/05/93	34	51			U	ppb	100	B08HT5	SW-846 6010
299-W19-93	Tin	7/15/93	34	51			U	ppb	100	B08MR5	SW-846 6010
299-W19-93	Tin	8/30/93	34	51			U	ppb	100	B091J5	SW-846 6010
299-W19-93	Toluene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Toluene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Toluene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Toluene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Toluene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Toluene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Toluene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Total Dissolved Solids	7/15/93	65	110				ppm	10	B08MR5	Std Meth #209B
299-W19-93	Total Organic Carbon	3/25/92	122	1000			U	ppb	1000	B06548	SW-846 9060
299-W19-93	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074N9	SW-846 9060
299-W19-93	Total Organic Carbon	10/16/92	122	1000			U	ppb	1000	B07J94	SW-846 9060
299-W19-93	Total Organic Carbon	12/01/92	122	1000			U	ppb	1000	B07QG7	SW-846 9060
299-W19-93	Total Organic Carbon	2/03/93	122	1000			U	ppb	1000	B08419	SW-846 9060
299-W19-93	Total Organic Carbon	5/05/93	122	500			L	ppb	1000	B08HT5	SW-846 9060
299-W19-93	Total Organic Carbon	8/30/93	122	500			L	ppb	1000	B091J5	SW-846 9060
299-W19-93	Total Organic Halogen	3/25/92	67	10				ppb	10	B06548	SW-846 9020
299-W19-93	Total Organic Halogen	3/25/92	67	10			U	ppb	10	B06548	SW-846 9020
299-W19-93	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074N9	SW-846 9020
299-W19-93	Total Organic Halogen	10/16/92	67	10			U	ppb	10	B07J94	SW-846 9020
299-W19-93	Total Organic Halogen	12/01/92	67				U	ppb	10	B07QG7	SW-846 9020
299-W19-93	Total Organic Halogen	12/01/92	67	10			U	ppb	10	B07QG7	SW-846 9020
299-W19-93	Total Organic Halogen	2/03/93	67	10			U	ppb	10	B08419	SW-846 9020
299-W19-93	Total Organic Halogen	5/05/93	67	8			U	ppb	10	B08HT5	SW-846 9020
299-W19-93	Total Organic Halogen	8/30/93	67	9	5		L	ppb	10	B091J5	SW-846 9020
299-W19-93	Toxaphene	7/15/93	17	1			U	ppb	2	B08MR5	SW-846 8080
299-W19-93	Trichloroethene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Trichloroethene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Trichloroethene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Trichloroethene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240

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299-W19-93	Trichloroethene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Trichloroethene	5/05/93	16	1			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Trichloroethene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Trichloromonofluoromethane	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Tritium	3/25/92	142	353	273		U	pCi/L	500	B06548	ITAS H-3
299-W19-93	Tritium	5/05/92	142	302	241		U	pCi/L	500	B06DY8	ITAS H-3
299-W19-93	Tritium	8/12/92	142	18	220		U	pCi/L	500	B074N9	ITAS H-3
299-W19-93	Tritium	10/16/92	142	-55	235		U	pCi/L	500	B07J94	ITAS H-3
299-W19-93	Tritium	12/01/92	142	124	240		U	pCi/L	500	B07QG7	ITAS H-3
299-W19-93	Tritium	2/03/93	142	228	222		U	pCi/L	500	B08419	ITAS H-3
299-W19-93	Tritium	5/05/93	142	151	216		U	pCi/L	500	B08HT5	ITAS H-3
299-W19-93	Tritium	8/30/93	142	-95	243		U	pCi/L	500	B091J5	ITAS H-3
299-W19-93	Uranium	3/25/92	145	139	36			ppb	1	B06548	ITAS Gross U
299-W19-93	Uranium	5/05/92	145	71	19			ppb	1	B06DY8	ITAS Gross U
299-W19-93	Uranium	8/12/92	145	21	6			ppb	1	B074N9	ITAS Gross U
299-W19-93	Uranium	10/16/92	145	27	7			ppb	1	B07J94	ITAS Gross U
299-W19-93	Uranium	12/01/92	145	27	7			ppb	1	B07QG7	ITAS Gross U
299-W19-93	Uranium	5/05/93	145	33	9			ppb	1	B08HT5	ITAS Gross U
299-W19-93	Uranium	8/30/93	145	23	7			ppb	1	B091J5	ITAS Gross U
299-W19-93	Uranium-234	7/15/93	148	15	1			pCi/L	0	B08MR5	ITAS Isotopic U
299-W19-93	Uranium-235	7/15/93	148	1	0			pCi/L	0	B08MR5	ITAS Isotopic U
299-W19-93	Uranium-238	2/03/93	145	128	36			ppb	1	B08419	ITAS Gross U
299-W19-93	Uranium-238	7/15/93	148	12	1			pCi/L	0	B08MR5	ITAS Isotopic U
299-W19-93	Vanadium	3/25/92	34	30			U	ppb	30	B06548	SW-846 6010
299-W19-93	Vanadium	10/16/92	34	30			U	ppb	30	B07J94	SW-846 6010
299-W19-93	Vanadium	12/01/92	34	30			U	ppb	30	B07QG7	SW-846 6010
299-W19-93	Vanadium	2/03/93	34	30	4			ppb	30	B08419	SW-846 6010
299-W19-93	Vanadium	5/05/93	34	4			U	ppb	30	B08HT5	SW-846 6010
299-W19-93	Vanadium	7/15/93	34	10	2		L	ppb	30	B08MR5	SW-846 6010
299-W19-93	Vanadium	8/30/93	34	12	2		L	ppb	30	B091J5	SW-846 6010
299-W19-93	Vinyl acetate	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Vinyl chloride	3/25/92	16	10			U	ppb	10	B06548	SW-846 8240

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299-W19-93	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074N9	SW-846 8240
299-W19-93	Vinyl chloride	10/16/92	16	10			U	ppb	10	B07J94	SW-846 8240
299-W19-93	Vinyl chloride	12/01/92	16	10			U	ppb	10	B07QG7	SW-846 8240
299-W19-93	Vinyl chloride	2/03/93	16	10			U	ppb	10	B08419	SW-846 8240
299-W19-93	Vinyl chloride	5/05/93	16	1			U	ppb	10	B08HT5	SW-846 8240
299-W19-93	Vinyl chloride	7/15/93	16	1			U	ppb	10	B08MR5	SW-846 8240
299-W19-93	Xylenes (total)	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	Xylenes (total)	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	Xylenes (total)	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	Xylenes (total)	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	Xylenes (total)	5/05/93	16	2			U	ppb	5	B08HT5	SW-846 8240
299-W19-93	Xylenes (total)	7/15/93	16	2			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	Zinc	3/25/92	34	20	3			ppb	10	B06548	SW-846 6010
299-W19-93	Zinc	10/16/92	34	10			U	ppb	10	B07J94	SW-846 6010
299-W19-93	Zinc	12/01/92	34	30	4			ppb	10	B07QG7	SW-846 6010
299-W19-93	Zinc	2/03/93	34	20	3			ppb	10	B08419	SW-846 6010
299-W19-93	Zinc	5/05/93	34	3			U	ppb	10	B08HT5	SW-846 6010
299-W19-93	Zinc	7/15/93	34	6	2		L	ppb	10	B08MR5	SW-846 6010
299-W19-93	Zinc	8/30/93	34	14	4			ppb	10	B091J5	SW-846 6010
299-W19-93	allylchloride	7/15/93	16	1			U	ppb	100	B08MR5	SW-846 8240
299-W19-93	cis-1,3-Dichloropropene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	gamma-BHC (Lindane)	7/15/93	17	0			U	ppb	0	B08MR5	SW-846 8080
299-W19-93	pH	3/25/92	125	8				pH		B06548	ASTM D-1293
299-W19-93	pH	3/25/92	93	8					0	B06548	Probe, pH
299-W19-93	pH	5/05/92	93	8					0	B06DY8	Probe, pH
299-W19-93	pH	8/12/92	125	8				pH		B074N9	ASTM D-1293
299-W19-93	pH	8/12/92	93	9					0	B074N9	Probe, pH
299-W19-93	pH	10/16/92	125	8				pH		B07J94	ASTM D-1293
299-W19-93	pH	10/16/92	93	8					0	B07J94	Probe, pH
299-W19-93	pH	12/01/92	125	8				pH		B07QG7	ASTM D-1293
299-W19-93	pH	12/01/92	93	8					0	B07QG7	Probe, pH

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Perch Water Data for Well 299-W19-93

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-93	pH	2/03/93	125	8				pH		B08419	ASTM D-1293
299-W19-93	pH	2/03/93	93	8					0	B08419	Probe, pH
299-W19-93	pH	5/05/93	125	8				pH		B08HT5	ASTM D-1293
299-W19-93	pH	5/05/93	93	8					0	B08HT5	Probe, pH
299-W19-93	pH	7/15/93	125	8				pH		B08MR5	ASTM D-1293
299-W19-93	pH	8/30/93	125	9				pH		B091J5	ASTM D-1293
299-W19-93	pH	8/30/93	93	8					0	B091J5	Probe, pH
299-W19-93	trans-1,2-Dichloroethylene	3/25/92	16	5			U	ppb	5	B06548	SW-846 8240
299-W19-93	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074N9	SW-846 8240
299-W19-93	trans-1,2-Dichloroethylene	10/16/92	16	5			U	ppb	5	B07J94	SW-846 8240
299-W19-93	trans-1,2-Dichloroethylene	12/01/92	16	5			U	ppb	5	B07QG7	SW-846 8240
299-W19-93	trans-1,2-Dichloroethylene	2/03/93	16	5			U	ppb	5	B08419	SW-846 8240
299-W19-93	trans-1,3-Dichloropropene	7/15/93	16	0			U	ppb	5	B08MR5	SW-846 8240
299-W19-93	trans-1,4-dichloro-2-butene	7/15/93	16	1			U	ppb	5	B08MR5	SW-846 8240

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APPENDIX F
GROUNDWATER DATA

B = Blank.
J = Concentration is estimated.
L = Concentration is below CRQL but above the MDL.
pCi/L = Picocuries/Liter.
U = Undetected.
Y = Filtered sample.

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Upgradient Groundwater Data for Well 299-W18-15

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	1,1,1,2-Tetrachloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,1,1,2-Tetrachloroethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,1,1,2-Tetrachloroethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,1,1,2-Tetrachloroethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,1,1,2-Tetrachloroethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	1,1,1-Trichloroethane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,1,2,2-Tetrachloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,1,2,2-Tetrachloroethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,1,2,2-Tetrachloroethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,1,2,2-Tetrachloroethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,1,2,2-Tetrachloroethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	1,1,2-Trichloroethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,1-Dichloroethane	7/23/87	45	10			U	ppb		H0009WS1	
299-W18-15	1,1-Dichloroethane	10/14/87	45	10			U	ppb		H0009WS5	
299-W18-15	1,1-Dichloroethane	1/08/88	45	10			U	ppb		H0009WS9	
299-W18-15	1,1-Dichloroethane	8/17/88	45	10			U	ppb		H0009WT2	
299-W18-15	1,1-Dichloroethane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,1-Dichloroethene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,1-Dichloroethene	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,1-Dichloroethene	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,1-Dichloroethene	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	1,1-Dichloroethene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2,3,4-tetrachlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,2,3,4-tetrachlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,2,3,4-tetrachlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,2,3,5-tetrachlorobenzene	7/23/87	19	10			U	ppb		H0009WS1	SW-846 8270
299-W18-15	1,2,3,5-tetrachlorobenzene	10/14/87	19	10			U	ppb		H0009WS5	SW-846 8270
299-W18-15	1,2,3,5-tetrachlorobenzene	1/08/88	19	10			U	ppb		H0009WS9	SW-846 8270
299-W18-15	1,2,3-Trichloropropane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,2,3-Trichloropropane	7/23/87	76	10			U	ppb		H0009WS1	
299-W18-15	1,2,3-Trichloropropane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,2,3-Trichloropropane	10/14/87	76	10			U	ppb		H0009WS5	
299-W18-15	1,2,3-Trichloropropane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,2,3-Trichloropropane	1/08/88	76	10			U	ppb		H0009WS9	
299-W18-15	1,2,3-Trichloropropane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,2,3-Trichloropropane	8/17/88	76	10			U	ppb		H0009WT2	
299-W18-15	1,2,3-Trichloropropane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2,3-trichlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,2,3-trichlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,2,3-trichlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,2,4,5-Tetrachlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,2,4,5-Tetrachlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,2,4,5-Tetrachlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,2,4-Trichlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,2,4-Trichlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,2,4-Trichlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,2-Dibromo-3-chloropropane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,2-Dibromo-3-chloropropane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,2-Dibromo-3-chloropropane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,2-Dibromo-3-chloropropane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,2-Dibromo-3-chloropropane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2-Dibromoethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,2-Dibromoethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240

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Upgradient Groundwater Data for Well 299-W18-15

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	1,2-Dibromoethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,2-Dibromoethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,2-Dibromoethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2-Dichlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,2-Dichlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,2-Dichlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,2-Dichloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,2-Dichloroethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,2-Dichloroethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,2-Dichloroethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,2-Dichloroethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2-Dichloroethene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2-Dichloropropane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	1,2-Dichloropropane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	1,2-Dichloropropane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	1,2-Dichloropropane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	1,2-Dichloropropane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	1,2-Diphenylhydrazine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,3,5-trichlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,3,5-trichlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,3,5-trichlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,3-Dichlorobenzene	7/23/87	20	10			U	ppb		H0009WS1	
299-W18-15	1,3-Dichlorobenzene	10/14/87	20	10			U	ppb		H0009WS5	
299-W18-15	1,3-Dichlorobenzene	1/08/88	20	10			U	ppb		H0009WS9	
299-W18-15	1,3-Dichloropropene	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	1,3-Dichloropropene	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	1,3-Dichloropropene	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	1,3-Dichloropropene	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	1,4-Dichlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	1,4-Dichlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	1,4-Dichlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1,4-Dioxane	7/23/87	16	500			U	ppb	200	H0009WS1	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	1,4-Dioxane	10/14/87	16	500			U	ppb	200	H0009WS5	SW-846 8240
299-W18-15	1,4-Dioxane	1/08/88	16	500			U	ppb	200	H0009WS9	SW-846 8240
299-W18-15	1,4-Dioxane	8/17/88	16	500			U	ppb	200	H0009WT2	SW-846 8240
299-W18-15	1,4-Dioxane	7/29/93	16	44			U	ppb	200	B08MP9	SW-846 8240
299-W18-15	1,4-Napthoquinone	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1-Butanol	7/29/93	16	13			U	ppb	1000	B08MP9	SW-846 8240
299-W18-15	1-Chloro-2,3-epoxypropane	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	1-Naphthylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,3,4,6-Tetrachlorophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,4,5-T	7/29/93	49	0			U	ppb	2	B08MP9	SW-846 8150
299-W18-15	2,4,5-TP	7/29/93	49	0			U	ppb	2	B08MP9	SW-846 8150
299-W18-15	2,4,5-Trichlorophenol	1/08/88	21	50			U	ppb		H0009WS9	
299-W18-15	2,4,6-Trichlorophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,4-D	7/29/93	49	0			U	ppb	10	B08MP9	SW-846 8150
299-W18-15	2,4-Dichlorophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,4-Dimethylphenol	1/08/88	19	10			U	ppb	10	H0009WS9	SW-846 8270
299-W18-15	2,4-Dinitrophenol	1/08/88	72	50			U	ppb		H0009WS9	
299-W18-15	2,4-Dinitrotoluene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,6-Dichlorophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2,6-Dinitrotoluene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Acetylaminofluorene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Chloroethyl vinyl ether	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	2-Chloroethyl vinyl ether	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	2-Chloroethyl vinyl ether	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	2-Chloroethyl vinyl ether	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	2-Chloronaphthalene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Chlorophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Cyclohexyl-4,6-dinitrophenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Hexanone	7/29/93	16	1			U	ppb	50	B08MP9	SW-846 8240
299-W18-15	2-Methylaziridine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Methylactonitrile	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-Naphthylamine	1/08/88	21	10			U	ppb		H0009WS9	

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Upgradient Groundwater Data for Well 299-W18-15

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	2-Picoline	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-methyl-2-(methylthio) propionaldehyde-	1/08/88	76	10			U	ppb		H0009WS9	
299-W18-15	2-sec-Butyl-4,6-dinitrophenol(DNBP)	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	2-sec-Butyl-4,6-dinitrophenol(DNBP)	7/29/93	49	0			U	ppb	1	B08MP9	SW-846 8150
299-W18-15	3,3'-Dichlorobenzidine	1/08/88	21	20			U	ppb		H0009WS9	
299-W18-15	3,3'-Dimethoxybenzidine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	3,3'-Dimethylbenzidine	1/08/88	19	10			U	ppb	10	H0009WS9	SW-846 8270
299-W18-15	3,3'-Dimethylbenzidine	1/08/88	19	10			U	ppb	50	H0009WS9	SW-846 8270
299-W18-15	3-Methylcholanthrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4,4'-DDD	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	4,4'-DDE	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	4,4'-DDT	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	4,4'-Methylenebis(2-chloroaniline)	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4,6-Dinitro-2-methylphenol	1/08/88	72	10			U	ppb		H0009WS9	
299-W18-15	4-Aminobiphenyl	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4-Bromophenylphenyl ether	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4-Chloro-3-methylphenol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4-Chloroaniline	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	4-Methyl-2-pentanone	10/14/87	16	10			U	ppb	50	H0009WS5	SW-846 8240
299-W18-15	4-Methyl-2-pentanone	1/08/88	16	10			U	ppb	50	H0009WS9	SW-846 8240
299-W18-15	4-Methyl-2-pentanone	8/17/88	16	10			U	ppb	50	H0009WT2	SW-846 8240
299-W18-15	4-Methyl-2-pentanone	12/01/88	16	10			U	ppb	50	H0009WT5	SW-846 8240
299-W18-15	4-Methyl-2-pentanone	7/29/93	16	1			U	ppb	50	B08MP9	SW-846 8240
299-W18-15	4-Nitroaniline	1/08/88	21	50			U	ppb		H0009WS9	
299-W18-15	4-Nitrophenol	1/08/88	21	50			U	ppb		H0009WS9	
299-W18-15	5-(Aminomethyl)-3-isoxazolol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	5-Nitro-o-toluidine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	7,12-Dimethylbenz[a]anthracene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	7H-Dibenzo[c.g]carbazole	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Acetone	7/29/93	16	13			U	ppb	100	B08MP9	SW-846 8240
299-W18-15	Acetonitrile	10/14/87	16	3000			U	ppb	200	H0009WS5	SW-846 8240
299-W18-15	Acetonitrile	1/08/88	16	3000			U	ppb	200	H0009WS9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Acetonitrile	8/17/88	16	3000			U	ppb	200	H0009WT2	SW-846 8240
299-W18-15	Acetonitrile	7/29/93	16	19			U	ppb	200	B08MP9	SW-846 8240
299-W18-15	Acetophenone	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Acrolein	7/23/87	16	10			U	ppb	10	H0009WS1	SW-846 8240
299-W18-15	Acrolein	10/14/87	16	10			U	ppb	10	H0009WS5	SW-846 8240
299-W18-15	Acrolein	1/08/88	16	10			U	ppb	10	H0009WS9	SW-846 8240
299-W18-15	Acrolein	8/17/88	16	10			U	ppb	10	H0009WT2	SW-846 8240
299-W18-15	Acrolein	7/29/93	16	10			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Acrylonitrile	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Acrylonitrile	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Acrylonitrile	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Acrylonitrile	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Acrylonitrile	7/29/93	16	4			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Aldrin	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Alkalinity	7/23/87	53	99400				ppb		H0009WS1	
299-W18-15	Alkalinity	10/14/87	53	97300				ppb		H0009WS5	
299-W18-15	Alkalinity	1/08/88	53	95300				ppb		H0009WS9	
299-W18-15	Alkalinity	8/17/88	53	96000				ppb		H0009WT2	
299-W18-15	Alkalinity	12/01/88	53	95200				ppb		H0009WT5	
299-W18-15	Alkalinity	7/29/93	52	100				ppb		H0009WS9	
299-W18-15	Alpha, alpha-Dimethylphenethylamine	1/08/88	21	10			U	ppb	50	B08MP9	ASTM D-1067-A
299-W18-15	Alpha-BHC	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Aluminum	7/23/87	34	150	Y		U	ppb	200	H0009WS1	SW-846 6010
299-W18-15	Aluminum	10/14/87	34	150	Y		U	ppb	200	H0009WS5	SW-846 6010
299-W18-15	Aluminum	1/08/88	34	150	Y		U	ppb	200	H0009WS9	SW-846 6010
299-W18-15	Aluminum	1/08/88	35	150			U	ppb		H0009WS9	
299-W18-15	Aluminum	8/17/88	34	150	Y		U	ppb	200	H0009WT2	SW-846 6010
299-W18-15	Aluminum	12/01/88	34	150	Y		U	ppb	200	H0009WT5	SW-846 6010
299-W18-15	Aluminum	7/29/93	34	33			U	ppb	200	B08MP9	SW-846 6010
299-W18-15	Americium-241	7/29/93	34	33	Y		U	ppb	200	B08MQ0	SW-846 6010
299-W18-15	Amitrole	7/29/93	147	-0	0		U	pCi/L	0	B08MP9	ITAS Am-241
299-W18-15	Amitrole	1/08/88	21	10			U	ppb		H0009WS9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Ammonium ion	7/23/87	54	50			U	ppb	100	H0009WS1	ASTM D-1426-D
299-W18-15	Ammonium ion	10/14/87	54	50			U	ppb	100	H0009WS5	ASTM D-1426-D
299-W18-15	Ammonium ion	1/08/88	54	50			U	ppb	100	H0009WS9	ASTM D-1426-D
299-W18-15	Ammonium ion	8/17/88	54	50			U	ppb	100	H0009WT2	ASTM D-1426-D
299-W18-15	Ammonium ion	12/01/88	54	50			U	ppb	100	H0009WT5	ASTM D-1426-D
299-W18-15	Ammonium ion	7/29/93	54	39			U	ppb	100	B08MP9	ASTM D-1426-D
299-W18-15	Aniline	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Antimony	7/29/93	34	69			U	ppb	200	B08MP9	SW-846 6010
299-W18-15	Antimony, filtered	7/23/87	34	100		Y	U	ppb	200	H0009WS1	SW-846 6010
299-W18-15	Antimony, filtered	10/14/87	34	100		Y	U	ppb	200	H0009WS5	SW-846 6010
299-W18-15	Antimony, filtered	1/08/88	34	100		Y	U	ppb	200	H0009WS9	SW-846 6010
299-W18-15	Antimony, filtered	8/17/88	34	100		Y	U	ppb	200	H0009WT2	SW-846 6010
299-W18-15	Antimony, filtered	12/01/88	34	100		Y	U	ppb	200	H0009WT5	SW-846 6010
299-W18-15	Antimony, filtered	7/29/93	34	69		Y	U	ppb	200	B08MQ0	SW-846 6010
299-W18-15	Antimony-125	7/29/93	140	15	18		U	pCi/L		B08MP9	ITAS Gamma Scan
299-W18-15	Aramite	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Aroclor-1016	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1221	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1232	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1242	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1248	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1254	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Aroclor-1260	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Arsenic	1/08/88	43	10				ppb	5	H0009WS9	SW-846 7060
299-W18-15	Arsenic	7/29/93	43	11	9			ppb	5	B08MP9	SW-846 7060
299-W18-15	Arsenic, filtered	7/23/87	76	11		Y		ppb		H0009WS1	
299-W18-15	Arsenic, filtered	10/14/87	76	10		Y		ppb		H0009WS5	
299-W18-15	Arsenic, filtered	1/08/88	76	12		Y		ppb		H0009WS9	
299-W18-15	Arsenic, filtered	7/29/93	43	11	9	Y		ppb	5	B08MQ0	SW-846 7060
299-W18-15	Auramine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Barium	1/08/88	35	21				ppb		H0009WS9	
299-W18-15	Barium	7/29/93	34	21	0			ppb	20	B08MP9	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Barium, filtered	7/23/87	34	22		Y		ppb	20	H0009WS1	SW-846 6010
299-W18-15	Barium, filtered	10/14/87	34	25		Y		ppb	20	H0009WS5	SW-846 6010
299-W18-15	Barium, filtered	1/08/88	34	20		Y		ppb	20	H0009WS9	SW-846 6010
299-W18-15	Barium, filtered	8/17/88	34	23		Y		ppb	20	H0009WT2	SW-846 6010
299-W18-15	Barium, filtered	12/01/88	34	20		Y		ppb	20	H0009WT5	SW-846 6010
299-W18-15	Barium, filtered	7/29/93	34	21	0	Y		ppb	20	B08MQ0	SW-846 6010
299-W18-15	Benz[c]acridine	1/08/88	21	10				ppb		H0009WS9	
299-W18-15	Benzene	7/23/87	16	10			U	ppb			
299-W18-15	Benzene	10/14/87	16	5			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Benzene	1/08/88	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Benzene	8/17/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Benzene	7/29/93	16	1			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Benzene, dichloromethyl-	1/08/88	21	10			U	ppb		B08MP9	SW-846 8240
299-W18-15	Benzenethiol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzidine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzo(a)anthracene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzo(a)pyrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzo(b)fluoranthene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzo(j)fluoranthene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Benzyl chloride	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Beryllium	7/29/93	34	1			U	ppb		H0009WS9	
299-W18-15	Beryllium, filtered	7/23/87	34	5		Y	U	ppb	3	B08MP9	SW-846 6010
299-W18-15	Beryllium, filtered	10/14/87	34	5		Y	U	ppb	3	H0009WS1	SW-846 6010
299-W18-15	Beryllium, filtered	1/08/88	34	5		Y	U	ppb	3	H0009WS5	SW-846 6010
299-W18-15	Beryllium, filtered	8/17/88	34	5		Y	U	ppb	3	H0009WS9	SW-846 6010
299-W18-15	Beryllium, filtered	12/01/88	34	5		Y	U	ppb	3	H0009WT2	SW-846 6010
299-W18-15	Beryllium, filtered	7/29/93	34	1		Y	U	ppb	3	H0009WT5	SW-846 6010
299-W18-15	Beta-BHC	7/29/93	17	0			U	ppb	3	B08MQ0	SW-846 6010
299-W18-15	Bis(2-Chloroethoxy)methane	1/08/88	21	10			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Bis(2-chloroethyl) ether	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Bis(2-chloroisopropyl) ether	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Bis(2-ethylhexyl) phthalate	1/08/88	21	10			U	ppb		H0009WS9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Bis(chloromethyl) ether	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Bis(chloromethyl) ether	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Bis(chloromethyl) ether	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Bis(chloromethyl) ether	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Bromoacetone	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Bromoacetone	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Bromoacetone	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Bromoacetone	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Bromodichloromethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Bromoform	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Bromoform	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Bromoform	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Bromoform	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Bromoform	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Butylbenzylphthalate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Cadmium	1/08/88	35	2			U	ppb		H0009WS9	
299-W18-15	Cadmium	7/29/93	34	5			U	ppb	10	B08MP9	SW-846 6010
299-W18-15	Cadmium, filtered	7/23/87	34	2		Y	U	ppb	10	H0009WS1	SW-846 6010
299-W18-15	Cadmium, filtered	10/14/87	34	2		Y	U	ppb	10	H0009WS5	SW-846 6010
299-W18-15	Cadmium, filtered	1/08/88	34	2		Y	U	ppb	10	H0009WS9	SW-846 6010
299-W18-15	Cadmium, filtered	8/17/88	34	2		Y	U	ppb	10	H0009WT2	SW-846 6010
299-W18-15	Cadmium, filtered	12/01/88	34	2		Y	U	ppb	10	H0009WT5	SW-846 6010
299-W18-15	Cadmium, filtered	7/29/93	34	5		Y	U	ppb	10	B08MQ0	SW-846 6010
299-W18-15	Calcium	1/08/88	35	23500				ppb		H0009WS9	
299-W18-15	Calcium	7/29/93	34	22000	6670			ppb	100	B08MP9	SW-846 6010
299-W18-15	Calcium, filtered	7/23/87	34	21800		Y		ppb	100	H0009WS1	SW-846 6010
299-W18-15	Calcium, filtered	10/14/87	34	20900		Y		ppb	100	H0009WS5	SW-846 6010
299-W18-15	Calcium, filtered	1/08/88	34	21000		Y		ppb	100	H0009WS9	SW-846 6010
299-W18-15	Calcium, filtered	8/17/88	34	23600		Y		ppb	100	H0009WT2	SW-846 6010
299-W18-15	Calcium, filtered	12/01/88	34	23500		Y		ppb	100	H0009WT5	SW-846 6010
299-W18-15	Calcium, filtered	7/29/93	34	21000	6360	Y		ppb	100	B08MQ0	SW-846 6010
299-W18-15	Carbon disulfide	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Carbon disulfide	10/14/87	16	10							
299-W18-15	Carbon disulfide	1/08/88	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Carbon disulfide	8/17/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Carbon disulfide	7/29/93	16	1			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Carbon tetrachloride	7/23/87	16	119			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Carbon tetrachloride	10/14/87	16	98				ppb	5	H0009WS1	SW-846 8240
299-W18-15	Carbon tetrachloride	1/08/88	16	120				ppb	5	H0009WS5	SW-846 8240
299-W18-15	Carbon tetrachloride	8/17/88	16	110				ppb	5	H0009WS9	SW-846 8240
299-W18-15	Carbon tetrachloride	12/01/88	16	89				ppb	5	H0009WT2	SW-846 8240
299-W18-15	Carbon tetrachloride	7/29/93	16	140				ppb	5	H0009WT5	SW-846 8240
299-W18-15	Cesium-137	4/28/81	77	0				ppb	5	B08MP9	SW-846 8240
299-W18-15	Cesium-137	6/01/81	77	0				pCi/L		H0009WJ2	
299-W18-15	Cesium-137	6/17/81	77	0				pCi/L		H0009WJ3	
299-W18-15	Cesium-137	8/19/81	77	0				pCi/L		H0009WJ4	
299-W18-15	Cesium-137	9/09/81	77	0				pCi/L		H0009WJ5	
299-W18-15	Cesium-137	9/15/81	77	0				pCi/L		H0009WJ6	
299-W18-15	Cesium-137	10/15/81	77	0				pCi/L		H0009WJ7	
299-W18-15	Cesium-137	11/12/81	77	0				pCi/L		H0009WJ8	
299-W18-15	Cesium-137	12/01/81	77	0				pCi/L		H0009WJ9	
299-W18-15	Cesium-137	1/11/82	77	0				pCi/L		H0009WK0	
299-W18-15	Cesium-137	1/29/82	77	0				pCi/L		H0009WK1	
299-W18-15	Cesium-137	3/08/82	77	0				pCi/L		H0009WK2	
299-W18-15	Cesium-137	3/30/82	77	0				pCi/L		H0009WK3	
299-W18-15	Cesium-137	4/26/82	77	5				pCi/L		H0009WK4	
299-W18-15	Cesium-137	5/21/82	77	16				pCi/L		H0009WK5	
299-W18-15	Cesium-137	6/22/82	77	0				pCi/L		H0009WK6	
299-W18-15	Cesium-137	7/26/82	77	-5				pCi/L		H0009WK7	
299-W18-15	Cesium-137	8/18/82	77	-4				pCi/L		H0009WK8	
299-W18-15	Cesium-137	9/15/82	77	-2				pCi/L		H0009WK9	
299-W18-15	Cesium-137	10/11/82	77	5				pCi/L		H0009WL0	
299-W18-15	Cesium-137	12/10/82	77	4				pCi/L		H0009WL1	
299-W18-15	Cesium-137	1/04/83	77	9				pCi/L		H0009WL2	
								pCi/L		H0009WL3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Cesium-137	1/26/83	77	-2				pCi/L		H0009WL4	
299-W18-15	Cesium-137	3/12/83	77	-1				pCi/L		H0009WL5	
299-W18-15	Cesium-137	3/29/83	77	2				pCi/L		H0009WL6	
299-W18-15	Cesium-137	4/21/83	77	8				pCi/L		H0009WL7	
299-W18-15	Cesium-137	5/25/83	77	-5				pCi/L		H0009WL8	
299-W18-15	Cesium-137	6/22/83	77	8				pCi/L		H0009WL9	
299-W18-15	Cesium-137	7/15/83	77	35				pCi/L		H0009WM0	
299-W18-15	Cesium-137	8/23/83	77	-1				pCi/L		H0009WM1	
299-W18-15	Cesium-137	9/27/83	77	2				pCi/L		H0009WM2	
299-W18-15	Cesium-137	10/17/83	77	-2				pCi/L		H0009WM3	
299-W18-15	Cesium-137	11/19/83	77	4				pCi/L		H0009WM4	
299-W18-15	Cesium-137	12/30/83	77	-2				pCi/L		H0009WM5	
299-W18-15	Cesium-137	1/26/84	77	-8				pCi/L		H0009WM6	
299-W18-15	Cesium-137	3/05/84	77	-9				pCi/L		H0009WM7	
299-W18-15	Cesium-137	3/26/84	77	3				pCi/L		H0009WM8	
299-W18-15	Cesium-137	5/01/84	77	-12				pCi/L		H0009WM9	
299-W18-15	Cesium-137	5/10/84	77	-8				pCi/L		H0009WN0	
299-W18-15	Cesium-137	6/13/84	77	4				pCi/L		H0009WN1	
299-W18-15	Cesium-137	7/09/84	77	-2				pCi/L		H0009WN2	
299-W18-15	Cesium-137	8/09/84	77	0				pCi/L		H0009WN3	
299-W18-15	Cesium-137	9/10/84	77	-3				pCi/L		H0009WN4	
299-W18-15	Cesium-137	10/04/84	77	-4				pCi/L		H0009WN5	
299-W18-15	Cesium-137	11/05/84	77	2				pCi/L		H0009WN6	
299-W18-15	Cesium-137	12/06/84	77	3				pCi/L		H0009WN7	
299-W18-15	Cesium-137	1/08/85	77	-3				pCi/L		H0009WN8	
299-W18-15	Cesium-137	2/07/85	77	2				pCi/L		H0009WN9	
299-W18-15	Cesium-137	3/15/85	77	-2				pCi/L		H0009WP0	
299-W18-15	Cesium-137	4/03/85	77	-6				pCi/L		H0009WP1	
299-W18-15	Cesium-137	5/08/85	77	-0				pCi/L		H0009WP2	
299-W18-15	Cesium-137	6/04/85	77	1				pCi/L		H0009WP4	
299-W18-15	Cesium-137	7/11/85	77	4	3			pCi/L		H0009WP5	
299-W18-15	Cesium-137	8/12/85	77	-1	7	U		pCi/L		H0009WP6	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Cesium-137	9/07/85	77	-2	5		U	pCi/L		H0009WP7	
299-W18-15	Cesium-137	10/08/85	77	-0	4		U	pCi/L		H0009WP8	
299-W18-15	Cesium-137	11/07/85	77	0	4		U	pCi/L		H0009WP9	
299-W18-15	Cesium-137	12/14/85	77	-7	7		U	pCi/L		H0009WQ0	
299-W18-15	Cesium-137	1/03/86	77	2	5		U	pCi/L		H0009WQ1	
299-W18-15	Cesium-137	2/10/86	77	1	5		U	pCi/L		H0009WQ2	
299-W18-15	Cesium-137	3/10/86	77	4	3			pCi/L		H0009WQ3	
299-W18-15	Cesium-137	4/07/86	77	3	5		U	pCi/L		H0009WQ4	
299-W18-15	Cesium-137	5/08/86	77	5	4			pCi/L		H0009WQ5	
299-W18-15	Cesium-137	6/05/86	77	-1	7		U	pCi/L		H0009WQ6	
299-W18-15	Cesium-137	7/14/86	77	-9	10		U	pCi/L		H0009WQ8	
299-W18-15	Cesium-137	8/06/86	77	-0	4		U	pCi/L		H0009WQ9	
299-W18-15	Cesium-137	9/17/86	77	2	6		U	pCi/L		H0009WR0	
299-W18-15	Cesium-137	10/30/86	77	2	5		U	pCi/L		H0009WR1	
299-W18-15	Cesium-137	11/05/86	77	-1	8		U	pCi/L		H0009WR2	
299-W18-15	Cesium-137	12/11/86	77	3	5		U	pCi/L		H0009WR3	
299-W18-15	Cesium-137	1/29/87	77	-1	6		U	pCi/L		H0009WR5	
299-W18-15	Cesium-137	4/19/87	77	-2	6		U	pCi/L		H0009WR8	
299-W18-15	Cesium-137	7/23/87	77	2	8		U	pCi/L		H0009WS2	
299-W18-15	Cesium-137	10/14/87	77	2	5		U	pCi/L		H0009WS6	
299-W18-15	Cesium-137	1/15/88	77	-2	6		U	pCi/L		H0009WT0	
299-W18-15	Cesium-137	5/18/88	77	3	7		U	pCi/L		H0009WT1	
299-W18-15	Cesium-137	8/17/88	77	1	5		U	pCi/L		H0009WT3	
299-W18-15	Cesium-137	11/17/88	77	1	7		U	pCi/L		H0009WT4	
299-W18-15	Cesium-137	3/09/89	77	-6	8		U	pCi/L		H0009WT6	
299-W18-15	Cesium-137	7/29/93	140	-3	7		U	pCi/L	20	B08MP9	ITAS Gamma Scan
299-W18-15	Chlordane	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Chloride	7/23/87	46	3810				ppb		H0009WS1	EPA 300.0
299-W18-15	Chloride	10/14/87	46	3640				ppb		H0009WS5	EPA 300.0
299-W18-15	Chloride	1/08/88	46	3760				ppb		H0009WS9	EPA 300.0
299-W18-15	Chloride	8/17/88	46	3270				ppb		H0009WT2	EPA 300.0
299-W18-15	Chloride	12/01/88	46	3100				ppb		H0009WT5	EPA 300.0

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Chlornaphazine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Chloroalkyl ethers	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Chlorobenzene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Chlorobenzene	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Chlorobenzene	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Chlorobenzene	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Chlorobenzene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Chloroethane	7/29/93	16	1			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Chloroform	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Chloroform	10/14/87	16	2			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Chloroform	1/08/88	16	1			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Chloroform	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Chloroform	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	Chloroform	7/29/93	16	10				ppb	5	B08MP9	SW-846 8240
299-W18-15	Chloromethyl methyl ether	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Chloromethyl methyl ether	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Chloromethyl methyl ether	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Chloromethyl methyl ether	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Chloroprene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Chromium	1/08/88	35	10			U	ppb		H0009WS9	
299-W18-15	Chromium	7/29/93	34	5			U	ppb	20	B08MP9	SW-846 6010
299-W18-15	Chromium, filtered	7/23/87	34	10		Y	U	ppb	20	H0009WS1	SW-846 6010
299-W18-15	Chromium, filtered	10/14/87	34	10		Y	U	ppb	20	H0009WS5	SW-846 6010
299-W18-15	Chromium, filtered	1/08/88	34	10		Y	U	ppb	20	H0009WS9	SW-846 6010
299-W18-15	Chromium, filtered	8/17/88	34	10		Y	U	ppb	20	H0009WT2	SW-846 6010
299-W18-15	Chromium, filtered	12/01/88	34	10		Y	U	ppb	20	H0009WT5	SW-846 6010
299-W18-15	Chromium, filtered	7/29/93	34	8	2	Y	L	ppb	20	B08MQ0	SW-846 6010
299-W18-15	Chrysene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Cobalt	7/29/93	34	4			U	ppb	20	B08MP9	SW-846 6010
299-W18-15	Cobalt, filtered	7/29/93	34	4		Y	U	ppb	20	B08MQ0	SW-846 6010
299-W18-15	Cobalt-60	4/28/81	77	2				pCi/L		H0009WJ2	
299-W18-15	Cobalt-60	6/01/81	77	0				pCi/L		H0009WJ3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Cobalt-60	6/17/81	77	0				pCi/L		H0009WJ4	
299-W18-15	Cobalt-60	8/19/81	77	3				pCi/L		H0009WJ5	
299-W18-15	Cobalt-60	9/09/81	77	1				pCi/L		H0009WJ6	
299-W18-15	Cobalt-60	9/15/81	77	0				pCi/L		H0009WJ7	
299-W18-15	Cobalt-60	10/15/81	77	0				pCi/L		H0009WJ8	
299-W18-15	Cobalt-60	11/12/81	77	2				pCi/L		H0009WJ9	
299-W18-15	Cobalt-60	12/01/81	77	1				pCi/L		H0009WK0	
299-W18-15	Cobalt-60	1/11/82	77	1				pCi/L		H0009WK1	
299-W18-15	Cobalt-60	1/29/82	77	1				pCi/L		H0009WK2	
299-W18-15	Cobalt-60	3/08/82	77	0				pCi/L		H0009WK3	
299-W18-15	Cobalt-60	3/30/82	77	0				pCi/L		H0009WK4	
299-W18-15	Cobalt-60	4/26/82	77	1				pCi/L		H0009WK5	
299-W18-15	Cobalt-60	5/21/82	77	4				pCi/L		H0009WK6	
299-W18-15	Cobalt-60	6/22/82	77	3				pCi/L		H0009WK7	
299-W18-15	Cobalt-60	7/26/82	77	2				pCi/L		H0009WK8	
299-W18-15	Cobalt-60	8/18/82	77	-1				pCi/L		H0009WK9	
299-W18-15	Cobalt-60	9/15/82	77	3				pCi/L		H0009WL0	
299-W18-15	Cobalt-60	10/11/82	77	-7				pCi/L		H0009WL1	
299-W18-15	Cobalt-60	12/10/82	77	-2				pCi/L		H0009WL2	
299-W18-15	Cobalt-60	1/04/83	77	-1				pCi/L		H0009WL3	
299-W18-15	Cobalt-60	1/26/83	77	6				pCi/L		H0009WL4	
299-W18-15	Cobalt-60	3/12/83	77	-6				pCi/L		H0009WL5	
299-W18-15	Cobalt-60	3/29/83	77	2				pCi/L		H0009WL6	
299-W18-15	Cobalt-60	4/21/83	77	5				pCi/L		H0009WL7	
299-W18-15	Cobalt-60	5/25/83	77	8				pCi/L		H0009WL8	
299-W18-15	Cobalt-60	6/22/83	77	9				pCi/L		H0009WL9	
299-W18-15	Cobalt-60	7/15/83	77	4				pCi/L		H0009WM0	
299-W18-15	Cobalt-60	8/23/83	77	-6				pCi/L		H0009WM1	
299-W18-15	Cobalt-60	9/27/83	77	-4				pCi/L		H0009WM2	
299-W18-15	Cobalt-60	10/17/83	77	9				pCi/L		H0009WM3	
299-W18-15	Cobalt-60	11/19/83	77	4				pCi/L		H0009WM4	
299-W18-15	Cobalt-60	12/30/83	77	-0				pCi/L		H0009WM5	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Cobalt-60	1/26/84	77	2				pCi/L		H0009WN6	
299-W18-15	Cobalt-60	3/05/84	77	4				pCi/L		H0009WM7	
299-W18-15	Cobalt-60	3/26/84	77	-3				pCi/L		H0009WM8	
299-W18-15	Cobalt-60	5/01/84	77	-2				pCi/L		H0009WM9	
299-W18-15	Cobalt-60	5/10/84	77	5				pCi/L		H0009WN0	
299-W18-15	Cobalt-60	6/13/84	77	4				pCi/L		H0009WN1	
299-W18-15	Cobalt-60	7/09/84	77	-7				pCi/L		H0009WN2	
299-W18-15	Cobalt-60	8/09/84	77	-7				pCi/L		H0009WN3	
299-W18-15	Cobalt-60	9/10/84	77	-3				pCi/L		H0009WN4	
299-W18-15	Cobalt-60	10/04/84	77	8				pCi/L		H0009WN5	
299-W18-15	Cobalt-60	11/05/84	77	7				pCi/L		H0009WN6	
299-W18-15	Cobalt-60	12/06/84	77	-4				pCi/L		H0009WN7	
299-W18-15	Cobalt-60	1/08/85	77	-3				pCi/L		H0009WN8	
299-W18-15	Cobalt-60	2/07/85	77	-4				pCi/L		H0009WN9	
299-W18-15	Cobalt-60	3/15/85	77	-4				pCi/L		H0009WP0	
299-W18-15	Cobalt-60	4/03/85	77	-3				pCi/L		H0009WP1	
299-W18-15	Cobalt-60	5/08/85	77	-2				pCi/L		H0009WP2	
299-W18-15	Cobalt-60	6/04/85	77	6				pCi/L		H0009WP4	
299-W18-15	Cobalt-60	7/11/85	77	2	3		U	pCi/L		H0009WP5	
299-W18-15	Cobalt-60	8/12/85	77	-3	8		U	pCi/L		H0009WP6	
299-W18-15	Cobalt-60	9/07/85	77	5	5		U	pCi/L		H0009WP7	
299-W18-15	Cobalt-60	10/08/85	77	-8	9		U	pCi/L		H0009WP8	
299-W18-15	Cobalt-60	11/07/85	77	-2	7		U	pCi/L		H0009WP9	
299-W18-15	Cobalt-60	12/14/85	77	2	3		U	pCi/L		H0009WQ0	
299-W18-15	Cobalt-60	1/03/86	77	1	2		U	pCi/L		H0009WQ1	
299-W18-15	Cobalt-60	2/10/86	77	-3	7		U	pCi/L		H0009WQ2	
299-W18-15	Cobalt-60	3/10/86	77	-2	7		U	pCi/L		H0009WQ3	
299-W18-15	Cobalt-60	4/07/86	77	3	4		U	pCi/L		H0009WQ4	
299-W18-15	Cobalt-60	5/08/86	77	5	5		U	pCi/L		H0009WQ5	
299-W18-15	Cobalt-60	6/05/86	77	3	4		U	pCi/L		H0009WQ6	
299-W18-15	Cobalt-60	7/14/86	77	4	5		U	pCi/L		H0009WQ8	
299-W18-15	Cobalt-60	8/06/86	77	2	3		U	pCi/L		H0009WQ9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Cobalt-60	9/17/86	77	5	5		U	pCi/L		H0009WR0	
299-W18-15	Cobalt-60	10/30/86	77	2	9		U	pCi/L		H0009WR1	
299-W18-15	Cobalt-60	11/05/86	77	6	5			pCi/L		H0009WR2	
299-W18-15	Cobalt-60	12/11/86	77	3	4		U	pCi/L		H0009WR3	
299-W18-15	Cobalt-60	1/29/87	77	-5	6		U	pCi/L		H0009WR5	
299-W18-15	Cobalt-60	4/19/87	77	-2	7		U	pCi/L		H0009WR8	
299-W18-15	Cobalt-60	7/23/87	77	-2	9		U	pCi/L		H0009WS2	
299-W18-15	Cobalt-60	10/14/87	77	3	4		U	pCi/L		H0009WS6	
299-W18-15	Cobalt-60	1/15/88	77	3	6		U	pCi/L		H0009WT0	
299-W18-15	Cobalt-60	5/18/88	77	7	6			pCi/L		H0009WT1	
299-W18-15	Cobalt-60	8/17/88	77	7	7		U	pCi/L		H0009WT3	
299-W18-15	Cobalt-60	11/17/88	77	-1	8		U	pCi/L		H0009WT4	
299-W18-15	Cobalt-60	3/09/89	77	-2	7		U	pCi/L		H0009WT6	
299-W18-15	Cobalt-60	7/29/93	140	0	7		U	pCi/L		B08MP9	ITAS Gamma Scan
299-W18-15	Copper	1/08/88	35	10			U	ppb		H0009WS9	
299-W18-15	Copper	7/29/93	34	3			U	ppb	20	B08MP9	SW-846 6010
299-W18-15	Copper, filtered	7/23/87	34	10		Y	U	ppb	20	H0009WS1	SW-846 6010
299-W18-15	Copper, filtered	10/14/87	34	10		Y	U	ppb	20	H0009WS5	SW-846 6010
299-W18-15	Copper, filtered	1/08/88	34	10		Y	U	ppb	20	H0009WS9	SW-846 6010
299-W18-15	Copper, filtered	8/17/88	34	10		Y	U	ppb	20	H0009WT2	SW-846 6010
299-W18-15	Copper, filtered	12/01/88	34	10		Y	U	ppb	20	H0009WT5	SW-846 6010
299-W18-15	Copper, filtered	7/29/93	34	3	0	Y	L	ppb	20	B08MQ0	SW-846 6010
299-W18-15	Cresols (methylphenols)	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Crotonaldehyde	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Crotonaldehyde	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Crotonaldehyde	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Crotonaldehyde	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Cyanide	7/23/87	56	10			U	ppb	20	H0009WS1	SW-846 9010
299-W18-15	Cyanide	10/14/87	56	10			U	ppb	20	H0009WS5	SW-846 9010
299-W18-15	Cyanide	1/08/88	56	10			U	ppb	20	H0009WS9	SW-846 9010
299-W18-15	Cyanide	8/17/88	56	10			U	ppb	20	H0009WT2	SW-846 9010
299-W18-15	Cyanide	12/01/88	56	10			U	ppb	20	H0009WT5	SW-846 9010

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299-W18-15	Cyanide	7/29/93	358	1			U	ppb	20	B08MP9	SW-846 9012
299-W18-15	Delta-BHC	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Di-n-butylphthalate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Di-n-octylphthalate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenz(a,j)acridine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenz[a,h]acridine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenz[a,h]anthracene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenzo(a,e)pyrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenzo[a,h]pyrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibenzo[a,i]pyrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dibromochloromethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Dibromomethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Dibromomethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Dibromomethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Dibromomethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Dibromomethane	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Dichlorodifluoromethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Dichlorodifluoromethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Dichlorodifluoromethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Dichlorodifluoromethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Dichlorodifluoromethane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Dieldrin	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Diethyl phthalate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Diethylarsine	7/23/87	76	10			U	ppb		H0009WS1	
299-W18-15	Diethylarsine	10/14/87	76	10			U	ppb		H0009WS5	
299-W18-15	Diethylarsine	1/08/88	76	10			U	ppb		H0009WS9	
299-W18-15	Diethylarsine	8/17/88	76	10			U	ppb		H0009WT2	
299-W18-15	Dihydrosafrole	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Dimethyl phthalate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Diphenylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Disulfoton	7/29/93	29	0			U	ppb	2	B08MP9	SW-846 8140
299-W18-15	Endosulfan I	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Endosulfan II	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Endosulfan sulfate	7/29/93	17	0			U	ppb	1	B08MP9	SW-846 8080
299-W18-15	Endrin	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Endrin Aldehyde	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	Ethyl cyanide	7/29/93	16	4			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Ethyl cyanide	7/29/93	16	4			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Ethyl methacrylate	7/23/87	50	10			U	ppb		H0009WS1	
299-W18-15	Ethyl methacrylate	10/14/87	50	10			U	ppb		H0009WS5	
299-W18-15	Ethyl methacrylate	1/08/88	50	10			U	ppb		H0009WS9	
299-W18-15	Ethyl methacrylate	8/17/88	50	10			U	ppb		H0009WT2	
299-W18-15	Ethyl methanesulfonate	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Ethylbenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Ethylene oxide	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Ethylene oxide	10/14/87	16	3000			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Ethylene oxide	1/08/88	16	3000			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Ethylene oxide	8/17/88	16	3000			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Ethyleneimine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Fluoranthene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Fluorine	7/23/87	46	500			U	ppb		H0009WS1	EPA 300.0
299-W18-15	Fluorine	7/23/87	47	230			U	ppb		H0009WS5	EPA 300.0
299-W18-15	Fluorine	10/14/87	46	500			U	ppb		H0009WS5	
299-W18-15	Fluorine	10/14/87	47	250			U	ppb		H0009WS5	
299-W18-15	Fluorine	1/08/88	46	500			U	ppb		H0009WS9	EPA 300.0
299-W18-15	Fluorine	8/17/88	46	500			U	ppb		H0009WT2	EPA 300.0
299-W18-15	Fluorine	8/17/88	47	279			U	ppb		H0009WT2	
299-W18-15	Fluorine	12/01/88	46	500			U	ppb		H0009WT5	EPA 300.0
299-W18-15	Formaldehyde	7/23/87	16	500			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Formaldehyde	10/14/87	16	500			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Formaldehyde	1/08/88	16	500			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Formaldehyde	8/17/88	16	500			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Gross alpha	4/28/81	77	32				pCi/L		H0009WJ2	
299-W18-15	Gross alpha	6/01/81	77	33				pCi/L		H0009WJ3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross alpha	6/17/81	77	35				pCi/L		H0009WJ4	
299-W18-15	Gross alpha	8/19/81	77	32				pCi/L		H0009WJ5	
299-W18-15	Gross alpha	9/09/81	77	35				pCi/L		H0009WJ6	
299-W18-15	Gross alpha	9/15/81	77	29				pCi/L		H0009WJ7	
299-W18-15	Gross alpha	10/15/81	77	33				pCi/L		H0009WJ8	
299-W18-15	Gross alpha	11/12/81	77	23				pCi/L		H0009WJ9	
299-W18-15	Gross alpha	12/01/81	77	28				pCi/L		H0009WK0	
299-W18-15	Gross alpha	1/11/82	77	33				pCi/L		H0009WK1	
299-W18-15	Gross alpha	1/29/82	77	40				pCi/L		H0009WK2	
299-W18-15	Gross alpha	3/08/82	77	38				pCi/L		H0009WK3	
299-W18-15	Gross alpha	3/30/82	77	35				pCi/L		H0009WK4	
299-W18-15	Gross alpha	4/26/82	77	52				pCi/L		H0009WK5	
299-W18-15	Gross alpha	5/21/82	77	38				pCi/L		H0009WK6	
299-W18-15	Gross alpha	6/22/82	77	48				pCi/L		H0009WK7	
299-W18-15	Gross alpha	7/26/82	77	43				pCi/L		H0009WK8	
299-W18-15	Gross alpha	8/18/82	77	49				pCi/L		H0009WK9	
299-W18-15	Gross alpha	9/15/82	77	40				pCi/L		H0009WL0	
299-W18-15	Gross alpha	10/11/82	77	43				pCi/L		H0009WL1	
299-W18-15	Gross alpha	12/10/82	77	36				pCi/L		H0009WL2	
299-W18-15	Gross alpha	1/04/83	77	47				pCi/L		H0009WL3	
299-W18-15	Gross alpha	1/26/83	77	30				pCi/L		H0009WL4	
299-W18-15	Gross alpha	3/12/83	77	1				pCi/L		H0009WL5	
299-W18-15	Gross alpha	3/29/83	77	56				pCi/L		H0009WL6	
299-W18-15	Gross alpha	4/21/83	77	43				pCi/L		H0009WL7	
299-W18-15	Gross alpha	5/25/83	77	51				pCi/L		H0009WL8	
299-W18-15	Gross alpha	6/22/83	77	40				pCi/L		H0009WL9	
299-W18-15	Gross alpha	7/15/83	77	54				pCi/L		H0009WM0	
299-W18-15	Gross alpha	8/23/83	77	56				pCi/L		H0009WM1	
299-W18-15	Gross alpha	9/27/83	77	334				pCi/L		H0009WM2	
299-W18-15	Gross alpha	10/17/83	77	54				pCi/L		H0009WM3	
299-W18-15	Gross alpha	11/19/83	77	42				pCi/L		H0009WM4	
299-W18-15	Gross alpha	12/30/83	77	86				pCi/L		H0009WM5	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross alpha	1/26/84	77	38				pCi/L		H0009WM6	
299-W18-15	Gross alpha	3/05/84	77	67				pCi/L		H0009WM7	
299-W18-15	Gross alpha	3/26/84	77	46				pCi/L		H0009WM8	
299-W18-15	Gross alpha	5/01/84	77	70				pCi/L		H0009WM9	
299-W18-15	Gross alpha	5/10/84	77	7				pCi/L		H0009WN0	
299-W18-15	Gross alpha	6/13/84	77	54				pCi/L		H0009WN1	
299-W18-15	Gross alpha	7/09/84	77	52				pCi/L		H0009WN2	
299-W18-15	Gross alpha	8/09/84	77	46				pCi/L		H0009WN3	
299-W18-15	Gross alpha	9/10/84	77	54				pCi/L		H0009WN4	
299-W18-15	Gross alpha	10/04/84	77	89				pCi/L		H0009WN5	
299-W18-15	Gross alpha	11/05/84	77	59				pCi/L		H0009WN6	
299-W18-15	Gross alpha	12/06/84	77	65				pCi/L		H0009WN7	
299-W18-15	Gross alpha	1/08/85	77	55				pCi/L		H0009WN8	
299-W18-15	Gross alpha	2/07/85	77	42				pCi/L		H0009WN9	
299-W18-15	Gross alpha	3/15/85	77	50				pCi/L		H0009WP0	
299-W18-15	Gross alpha	4/03/85	77	42				pCi/L		H0009WP1	
299-W18-15	Gross alpha	5/08/85	77	46				pCi/L		H0009WP2	
299-W18-15	Gross alpha	6/04/85	77	41				pCi/L		H0009WP4	
299-W18-15	Gross alpha	7/11/85	77	28	3			pCi/L		H0009WP5	
299-W18-15	Gross alpha	8/12/85	77	32	6			pCi/L		H0009WP6	
299-W18-15	Gross alpha	9/07/85	77	41	7			pCi/L		H0009WP7	
299-W18-15	Gross alpha	10/08/85	77	39	7			pCi/L		H0009WP8	
299-W18-15	Gross alpha	11/07/85	77	43	7			pCi/L		H0009WP9	
299-W18-15	Gross alpha	12/14/85	77	38	6			pCi/L		H0009WQ0	
299-W18-15	Gross alpha	1/03/86	77	53	9			pCi/L		H0009WQ1	
299-W18-15	Gross alpha	2/10/86	77	53	9			pCi/L		H0009WQ2	
299-W18-15	Gross alpha	3/10/86	77	52	9			pCi/L		H0009WQ3	
299-W18-15	Gross alpha	4/07/86	77	53	9			pCi/L		H0009WQ4	
299-W18-15	Gross alpha	5/08/86	77	51	9			pCi/L		H0009WQ5	
299-W18-15	Gross alpha	6/05/86	77	57	10			pCi/L		H0009WQ6	
299-W18-15	Gross alpha	7/14/86	77	46	9			pCi/L		H0009WQ8	
299-W18-15	Gross alpha	8/06/86	77	46	9			pCi/L		H0009WQ9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross alpha	9/17/86	77	48	9			pCi/L		H0009WR0	
299-W18-15	Gross alpha	10/30/86	77	49	9			pCi/L		H0009WR1	
299-W18-15	Gross alpha	11/05/86	77	46	9			pCi/L		H0009WR2	
299-W18-15	Gross alpha	12/11/86	77	47	9			pCi/L		H0009WR3	
299-W18-15	Gross alpha	1/29/87	77	80	15			pCi/L		H0009WR5	
299-W18-15	Gross alpha	2/09/87	77	88	16			pCi/L		H0009WR6	
299-W18-15	Gross alpha	3/11/87	77	51	9			pCi/L		H0009WR7	
299-W18-15	Gross alpha	4/19/87	77	50	9			pCi/L		H0009WR8	
299-W18-15	Gross alpha	5/15/87	77	52	10			pCi/L		H0009WR9	
299-W18-15	Gross alpha	6/15/87	77	53	10			pCi/L		H0009WS0	
299-W18-15	Gross alpha	7/23/87	77	32	6			pCi/L		H0009WS1	
299-W18-15	Gross alpha	7/23/87	77	52	10			pCi/L		H0009WS2	
299-W18-15	Gross alpha	8/18/87	77	41	8			pCi/L		H0009WS3	
299-W18-15	Gross alpha	9/16/87	77	51	9			pCi/L		H0009WS4	
299-W18-15	Gross alpha	10/14/87	77	37	6			pCi/L		H0009WS5	
299-W18-15	Gross alpha	10/14/87	77	51	9			pCi/L		H0009WS6	
299-W18-15	Gross alpha	11/19/87	77	47	9			pCi/L		H0009WS7	
299-W18-15	Gross alpha	12/08/87	77	53	10			pCi/L		H0009WS8	
299-W18-15	Gross alpha	1/15/88	77	48	9			pCi/L		H0009WT0	
299-W18-15	Gross alpha	5/18/88	77	49	9			pCi/L		H0009WT1	
299-W18-15	Gross alpha	8/17/88	77	33	6			pCi/L		H0009WT3	
299-W18-15	Gross alpha	11/17/88	77	42	8			pCi/L		H0009WT4	
299-W18-15	Gross alpha	3/09/89	77	31	8			pCi/L		H0009WT6	
299-W18-15	Gross alpha	7/29/93	135	25	7			pCi/L	4	B08MP9	SW-846 9310, Alpha
299-W18-15	Gross beta	4/28/81	77	24				pCi/L		H0009WJ2	
299-W18-15	Gross beta	6/01/81	77	15				pCi/L		H0009WJ3	
299-W18-15	Gross beta	6/17/81	77	5				pCi/L		H0009WJ4	
299-W18-15	Gross beta	8/19/81	77	14				pCi/L		H0009WJ5	
299-W18-15	Gross beta	9/09/81	77	7				pCi/L		H0009WJ6	
299-W18-15	Gross beta	9/15/81	77	44				pCi/L		H0009WJ7	
299-W18-15	Gross beta	10/15/81	77	46				pCi/L		H0009WJ8	
299-W18-15	Gross beta	11/12/81	77	20				pCi/L		H0009WJ9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross beta	12/01/81	77	14				pCi/L		H0009WK0	
299-W18-15	Gross beta	1/11/82	77	20				pCi/L		H0009WK1	
299-W18-15	Gross beta	1/29/82	77	23				pCi/L		H0009WK2	
299-W18-15	Gross beta	3/08/82	77	16				pCi/L		H0009WK3	
299-W18-15	Gross beta	3/30/82	77	14				pCi/L		H0009WK4	
299-W18-15	Gross beta	4/26/82	77	12				pCi/L		H0009WK5	
299-W18-15	Gross beta	5/21/82	77	30				pCi/L		H0009WK6	
299-W18-15	Gross beta	6/22/82	77	12				pCi/L		H0009WK7	
299-W18-15	Gross beta	7/26/82	77	26				pCi/L		H0009WK8	
299-W18-15	Gross beta	8/18/82	77	10				pCi/L		H0009WK9	
299-W18-15	Gross beta	9/15/82	77	44				pCi/L		H0009WL0	
299-W18-15	Gross beta	10/11/82	77	25				pCi/L		H0009WL1	
299-W18-15	Gross beta	12/10/82	77	22				pCi/L		H0009WL2	
299-W18-15	Gross beta	1/04/83	77	29				pCi/L		H0009WL3	
299-W18-15	Gross beta	1/26/83	77	63				pCi/L		H0009WL4	
299-W18-15	Gross beta	3/12/83	77	17				pCi/L		H0009WL5	
299-W18-15	Gross beta	3/29/83	77	22				pCi/L		H0009WL6	
299-W18-15	Gross beta	4/21/83	77	11				pCi/L		H0009WL7	
299-W18-15	Gross beta	5/25/83	77	20				pCi/L		H0009WL8	
299-W18-15	Gross beta	6/22/83	77	61				pCi/L		H0009WL9	
299-W18-15	Gross beta	7/15/83	77	17				pCi/L		H0009WM0	
299-W18-15	Gross beta	8/23/83	77	39				pCi/L		H0009WM1	
299-W18-15	Gross beta	9/27/83	77	24				pCi/L		H0009WM2	
299-W18-15	Gross beta	10/17/83	77	69				pCi/L		H0009WM3	
299-W18-15	Gross beta	11/19/83	77	42				pCi/L		H0009WM4	
299-W18-15	Gross beta	12/30/83	77	68				pCi/L		H0009WM5	
299-W18-15	Gross beta	1/26/84	77	65				pCi/L		H0009WM6	
299-W18-15	Gross beta	3/05/84	77	68				pCi/L		H0009WM7	
299-W18-15	Gross beta	3/26/84	77	30				pCi/L		H0009WM8	
299-W18-15	Gross beta	5/01/84	77	7				pCi/L		H0009WM9	
299-W18-15	Gross beta	5/10/84	77	5				pCi/L		H0009WN0	
299-W18-15	Gross beta	6/13/84	77	31				pCi/L		H0009WN1	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross beta	7/09/84	77	27				pCi/L		H0009WN2	
299-W18-15	Gross beta	8/09/84	77	55				pCi/L		H0009WN3	
299-W18-15	Gross beta	9/10/84	77	64				pCi/L		H0009WN4	
299-W18-15	Gross beta	10/04/84	77	14				pCi/L		H0009WN5	
299-W18-15	Gross beta	11/05/84	77	13				pCi/L		H0009WN6	
299-W18-15	Gross beta	12/06/84	77	19				pCi/L		H0009WN7	
299-W18-15	Gross beta	1/08/85	77	16				pCi/L		H0009WN8	
299-W18-15	Gross beta	2/07/85	77	16				pCi/L		H0009WN9	
299-W18-15	Gross beta	3/15/85	77	20				pCi/L		H0009WP0	
299-W18-15	Gross beta	4/03/85	77	13				pCi/L		H0009WP1	
299-W18-15	Gross beta	5/08/85	77	15				pCi/L		H0009WP2	
299-W18-15	Gross beta	6/04/85	77	14				pCi/L		H0009WP4	
299-W18-15	Gross beta	7/11/85	77	14	3			pCi/L		H0009WP5	
299-W18-15	Gross beta	8/12/85	77	14	3			pCi/L		H0009WP6	
299-W18-15	Gross beta	9/07/85	77	16	3			pCi/L		H0009WP7	
299-W18-15	Gross beta	10/08/85	77	15	3			pCi/L		H0009WP8	
299-W18-15	Gross beta	11/07/85	77	20	3			pCi/L		H0009WP9	
299-W18-15	Gross beta	12/14/85	77	13	3			pCi/L		H0009WQ0	
299-W18-15	Gross beta	1/03/86	77	10	2			pCi/L		H0009WQ1	
299-W18-15	Gross beta	2/10/86	77	11	2			pCi/L		H0009WQ2	
299-W18-15	Gross beta	3/10/86	77	14	3			pCi/L		H0009WQ3	
299-W18-15	Gross beta	4/07/86	77	16	3			pCi/L		H0009WQ4	
299-W18-15	Gross beta	5/08/86	77	13	3			pCi/L		H0009WQ5	
299-W18-15	Gross beta	6/05/86	77	12	3			pCi/L		H0009WQ6	
299-W18-15	Gross beta	7/14/86	77	22	4			pCi/L		H0009WQ8	
299-W18-15	Gross beta	8/06/86	77	10	2			pCi/L		H0009WQ9	
299-W18-15	Gross beta	9/17/86	77	18	3			pCi/L		H0009WR0	
299-W18-15	Gross beta	10/30/86	77	12	3			pCi/L		H0009WR1	
299-W18-15	Gross beta	11/05/86	77	21	4			pCi/L		H0009WR2	
299-W18-15	Gross beta	12/11/86	77	14	3			pCi/L		H0009WR3	
299-W18-15	Gross beta	1/29/87	77	29	5			pCi/L		H0009WR5	
299-W18-15	Gross beta	2/09/87	77	20	4			pCi/L		H0009WR6	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Gross beta	3/11/87	77	10	2			pCi/L		H0009WR7	
299-W18-15	Gross beta	4/19/87	77	16	3			pCi/L		H0009WR8	
299-W18-15	Gross beta	5/15/87	77	12	3			pCi/L		H0009WR9	
299-W18-15	Gross beta	6/15/87	77	20	4			pCi/L		H0009WS0	
299-W18-15	Gross beta	7/23/87	77	12	4			pCi/L		H0009WS1	
299-W18-15	Gross beta	7/23/87	77	18	3			pCi/L		H0009WS2	
299-W18-15	Gross beta	8/18/87	77	15	3			pCi/L		H0009WS3	
299-W18-15	Gross beta	9/16/87	77	21	4			pCi/L		H0009WS4	
299-W18-15	Gross beta	10/14/87	77	8	4			pCi/L		H0009WS5	
299-W18-15	Gross beta	10/14/87	77	19	3			pCi/L		H0009WS6	
299-W18-15	Gross beta	11/19/87	77	14	3			pCi/L		H0009WS7	
299-W18-15	Gross beta	12/08/87	77	15	3			pCi/L		H0009WS8	
299-W18-15	Gross beta	1/15/88	77	17	3			pCi/L		H0009WT0	
299-W18-15	Gross beta	5/18/88	77	11	3			pCi/L		H0009WT1	
299-W18-15	Gross beta	8/17/88	77	16	3			pCi/L		H0009WT3	
299-W18-15	Gross beta	11/17/88	77	9	2			pCi/L		H0009WT4	
299-W18-15	Gross beta	3/09/89	77	7	3			pCi/L		H0009WT6	
299-W18-15	Gross beta	7/29/93	136	7	3			pCi/L			
299-W18-15	Heptachlor	7/29/93	17	0			U	ppb		8 B08MP9	SW-846 9310. Beta
299-W18-15	Heptachlor epoxide	7/29/93	17	0			U	ppb		0 B08MP9	SW-846 8080
299-W18-15	Hexachlorobenzene	7/23/87	21	10			U	ppb		1 B08MP9	SW-846 8080
299-W18-15	Hexachlorobenzene	10/14/87	21	10			U	ppb		H0009WS1	
299-W18-15	Hexachlorobenzene	1/08/88	21	10			U	ppb		H0009WS5	
299-W18-15	Hexachlorobutadiene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Hexachlorocyclopentadiene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Hexachloroethane	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Hexachlorophene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	Hexachlorophene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	Hexachlorophene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Hexachloropropene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Hydrogen sulfide	7/23/87	76	10			U	ppb		H0009WS1	
299-W18-15	Hydrogen sulfide	10/14/87	76	10			U	ppb		H0009WS5	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Hydrogen sulfide	1/08/88	76	10			U	ppb		H0009WS9	
299-W18-15	Hydrogen sulfide	8/17/88	76	10			U	ppb		H0009WT2	
299-W18-15	Indeno(1,2,3-cd)pyrene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Iron	1/08/88	35	91				ppb		H0009WS9	
299-W18-15	Iron	7/29/93	34	49	22			ppb	20	B08MP9	SW-846 6010
299-W18-15	Iron, filtered	7/23/87	34	50		Y	U	ppb	20	H0009WS1	SW-846 6010
299-W18-15	Iron, filtered	10/14/87	34	30		Y	U	ppb	20	H0009WS5	SW-846 6010
299-W18-15	Iron, filtered	1/08/88	34	30		Y	U	ppb	20	H0009WS9	SW-846 6010
299-W18-15	Iron, filtered	8/17/88	34	30		Y	U	ppb	20	H0009WT2	SW-846 6010
299-W18-15	Iron, filtered	12/01/88	34	30		Y	U	ppb	20	H0009WT5	SW-846 6010
299-W18-15	Iron, filtered	7/29/93	34	29	13	Y		ppb	20	B08MQ0	SW-846 6010
299-W18-15	Isobutyl alcohol	7/29/93	16	27			U	ppb	200	B08MP9	SW-846 8240
299-W18-15	Isosafrole	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Kerosene	7/23/87	21	10000			U	ppb		H0009WS1	
299-W18-15	Kerosene	10/14/87	21	10000			U	ppb		H0009WS5	
299-W18-15	Kerosene	1/08/88	21	10000			U	ppb		H0009WS9	
299-W18-15	Lead	1/08/88	76	5			U	ppb		H0009WS9	
299-W18-15	Lead	7/29/93	40	1	0		L	ppb	5	B08MP9	SW-846 7421
299-W18-15	Lead, filtered	7/23/87	40	5		Y		ppb	5	H0009WS1	SW-846 7421
299-W18-15	Lead, filtered	10/14/87	40	5		Y	U	ppb	5	H0009WS5	SW-846 7421
299-W18-15	Lead, filtered	1/08/88	40	5		Y	U	ppb	5	H0009WS9	SW-846 7421
299-W18-15	Lead, filtered	12/01/88	40	5		Y	U	ppb	5	H0009WT5	SW-846 7421
299-W18-15	Lead, filtered	7/29/93	40	1	0	Y	L	ppb	5	B08MQ0	SW-846 7421
299-W18-15	Magnesium	1/08/88	35	8630				ppb		H0009WS9	
299-W18-15	Magnesium	7/29/93	34	7400	3880			ppb	100	B08MP9	SW-846 6010
299-W18-15	Magnesium, filtered	7/23/87	34	8180		Y		ppb	100	H0009WS1	SW-846 6010
299-W18-15	Magnesium, filtered	10/14/87	34	8390		Y		ppb	100	H0009WS5	SW-846 6010
299-W18-15	Magnesium, filtered	1/08/88	34	8070		Y		ppb	100	H0009WS9	SW-846 6010
299-W18-15	Magnesium, filtered	8/17/88	34	8850		Y		ppb	100	H0009WT2	SW-846 6010
299-W18-15	Magnesium, filtered	12/01/88	34	8790		Y		ppb	100	H0009WT5	SW-846 6010
299-W18-15	Magnesium, filtered	7/29/93	34	7300	3830	Y		ppb	100	B08MQ0	SW-846 6010
299-W18-15	Maleic hydrazide	1/08/88	21	500			U	ppb		H0009WS9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Malononitrile	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Manganese	1/08/88	35	5			U	ppb		H0009WS9	
299-W18-15	Manganese	7/29/93	34	9	3		L	ppb	10	B08MP9	SW-846 6010
299-W18-15	Manganese, filtered	7/23/87	34	5		Y		ppb	10	H0009WS1	SW-846 6010
299-W18-15	Manganese, filtered	10/14/87	34	5		Y	U	ppb	10	H0009WS5	SW-846 6010
299-W18-15	Manganese, filtered	1/08/88	34	5		Y	U	ppb	10	H0009WS9	SW-846 6010
299-W18-15	Manganese, filtered	8/17/88	34	5		Y	U	ppb	10	H0009WT2	SW-846 6010
299-W18-15	Manganese, filtered	12/01/88	34	5		Y	U	ppb	10	H0009WT5	SW-846 6010
299-W18-15	Manganese, filtered	7/29/93	34	10	3	Y	L	ppb	10	B08MQ0	SW-846 6010
299-W18-15	Melphalan	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Mercury, filtered	7/23/87	41	0		Y	U	ppb	0	H0009WS1	SW-846 7470
299-W18-15	Mercury, filtered	10/14/87	41	0		Y	U	ppb	0	H0009WS5	SW-846 7470
299-W18-15	Mercury, filtered	1/08/88	41	0		Y	U	ppb	0	H0009WS9	SW-846 7470
299-W18-15	Methacrylonitrile	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Methacrylonitrile	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Methacrylonitrile	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Methacrylonitrile	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Methacrylonitrile	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Methanethiol	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Methanethiol	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Methanethiol	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Methanethiol	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Methapyrilene	1/08/88	19	10			U	ppb	10	H0009WS9	SW-846 8270
299-W18-15	Metholonyl	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Methoxychlor	7/29/93	17	0			U	ppb	2	B08MP9	SW-846 8080
299-W18-15	Methyl Iodide	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Methyl Iodide	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Methyl Iodide	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Methyl Iodide	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Methyl Iodide	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Methyl bromide	7/23/87	16	10			U	ppb	10	H0009WS1	SW-846 8240
299-W18-15	Methyl bromide	10/14/87	16	10			U	ppb	10	H0009WS5	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Methyl bromide	1/08/88	16	10			U	ppb	10	H0009WS9	SW-846 8240
299-W18-15	Methyl bromide	8/17/88	16	10			U	ppb	10	H0009WT2	SW-846 8240
299-W18-15	Methyl bromide	7/29/93	16	1			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Methyl chloride	7/23/87	16	10			U	ppb	10	H0009WS1	SW-846 8240
299-W18-15	Methyl chloride	10/14/87	16	10			U	ppb	10	H0009WS5	SW-846 8240
299-W18-15	Methyl chloride	1/08/88	16	10			U	ppb	10	H0009WS9	SW-846 8240
299-W18-15	Methyl chloride	8/17/88	16	10			U	ppb	10	H0009WT2	SW-846 8240
299-W18-15	Methyl chloride	7/29/93	16	1			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Methyl ethyl ketone	7/23/87	16	10			U	ppb	100	H0009WS1	SW-846 8240
299-W18-15	Methyl ethyl ketone	10/14/87	16	10			U	ppb	100	H0009WS5	SW-846 8240
299-W18-15	Methyl ethyl ketone	1/08/88	16	10			U	ppb	100	H0009WS9	SW-846 8240
299-W18-15	Methyl ethyl ketone	8/17/88	16	10			U	ppb	100	H0009WT2	SW-846 8240
299-W18-15	Methyl ethyl ketone	12/01/88	16	10			U	ppb	100	H0009WT5	SW-846 8240
299-W18-15	Methyl ethyl ketone	7/29/93	16	4			U	ppb	100	B08MP9	SW-846 8240
299-W18-15	Methyl methacrylate	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	Methyl methacrylate	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	Methyl methacrylate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Methyl methacrylate	8/17/88	21	10			U	ppb		H0009WT2	
299-W18-15	Methyl methacrylate	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Methyl methanesulfonate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Methyl parathion	7/29/93	29	0			U	ppb	1	B08MP9	SW-846 8140
299-W18-15	Methylene chloride	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Methylene chloride	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Methylene chloride	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Methylene chloride	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Methylene chloride	12/01/88	16	10			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	Methylene chloride	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Methylthiouracil	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N,N-Diethylhydrazine	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	N,N-Diethylhydrazine	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	N,N-Diethylhydrazine	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	N,N-Diethylhydrazine	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	N-Nitroso-N-methylurethane	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitroso-di-n-dipropylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosodi-n-butylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosodiethanolamine	1/08/88	79	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosodiethylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosodimethylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosomethylethylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosomethylvinylamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosomorpholine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrososonornicotine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	N-Nitrosopiperidine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Naphthalene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	Naphthalene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	Naphthalene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Nickel	1/08/88	35	10			U	ppb		H0009WS9	
299-W18-15	Nickel	7/29/93	34	18			U	ppb	30	B08MP9	SW-846 6010
299-W18-15	Nickel, filtered	7/23/87	34	10		Y	U	ppb	30	H0009WS1	SW-846 6010
299-W18-15	Nickel, filtered	10/14/87	34	10		Y	U	ppb	30	H0009WS5	SW-846 6010
299-W18-15	Nickel, filtered	1/08/88	34	10		Y	U	ppb	30	H0009WS9	SW-846 6010
299-W18-15	Nickel, filtered	8/17/88	34	10		Y	U	ppb	30	H0009WT2	SW-846 6010
299-W18-15	Nickel, filtered	12/01/88	34	10		Y	U	ppb	30	H0009WT5	SW-846 6010
299-W18-15	Nickel, filtered	7/29/93	34	18		Y	U	ppb	30	B08MQ0	SW-846 6010
299-W18-15	Nicotinic acid	1/08/88	21	100			U	ppb		H0009WS9	
299-W18-15	Nitrate	1/26/83	76	1				ppm		H0009WL4	
299-W18-15	Nitrate	3/12/83	76	2				ppm		H0009WL5	
299-W18-15	Nitrate	3/29/83	76	5				ppm		H0009WL6	
299-W18-15	Nitrate	4/21/83	76	1				ppm		H0009WL7	
299-W18-15	Nitrate	5/25/83	76	0				ppm		H0009WL8	
299-W18-15	Nitrate	6/22/83	76	0				ppm		H0009WL9	
299-W18-15	Nitrate	7/15/83	76	1				ppm		H0009WM0	
299-W18-15	Nitrate	8/23/83	76	1				ppm		H0009WM1	
299-W18-15	Nitrate	9/27/83	76	1				ppm		H0009WM2	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Nitrate	10/17/83	76	0				ppm		H0009WM3	
299-W18-15	Nitrate	11/19/83	76	0				ppm		H0009WM4	
299-W18-15	Nitrate	12/30/83	76	1				ppm		H0009WM5	
299-W18-15	Nitrate	1/26/84	76	0				ppm		H0009WM6	
299-W18-15	Nitrate	3/05/84	76	0				ppm		H0009WM7	
299-W18-15	Nitrate	3/26/84	76	0				ppm		H0009WM8	
299-W18-15	Nitrate	5/01/84	76	0				ppm		H0009WM9	
299-W18-15	Nitrate	5/10/84	76	0				ppm		H0009WNC	
299-W18-15	Nitrate	6/13/84	76	1				ppm		H0009WN1	
299-W18-15	Nitrate	7/09/84	76	1				ppm		H0009WN2	
299-W18-15	Nitrate	8/09/84	76	0				ppm		H0009WN3	
299-W18-15	Nitrate	9/10/84	76	0				ppm		H0009WN4	
299-W18-15	Nitrate	10/04/84	76	2				ppm		H0009WN5	
299-W18-15	Nitrate	11/05/84	76	2				ppm		H0009WN6	
299-W18-15	Nitrate	12/06/84	76	1				ppm		H0009WN7	
299-W18-15	Nitrate	1/08/85	76	1				ppm		H0009WN8	
299-W18-15	Nitrate	2/07/85	76	28				ppm		H0009WN9	
299-W18-15	Nitrate	3/15/85	76	1				ppm		H0009WP0	
299-W18-15	Nitrate	4/03/85	76	0				ppm		H0009WP1	
299-W18-15	Nitrate	5/08/85	76	1				ppm		H0009WP2	
299-W18-15	Nitrate	6/04/85	76	1	0			ppm		H0009WP3	
299-W18-15	Nitrate	7/11/85	76	1	0			ppm		H0009WP5	
299-W18-15	Nitrate	8/12/85	76	1	0			ppm		H0009WP6	
299-W18-15	Nitrate	9/07/85	76	2	0			ppm		H0009WP7	
299-W18-15	Nitrate	10/08/85	76	1	0			ppm		H0009WP8	
299-W18-15	Nitrate	11/07/85	76	2	0			ppm		H0009WP9	
299-W18-15	Nitrate	12/14/85	76	2	0			ppm		H0009WQ0	
299-W18-15	Nitrate	1/03/86	76	2	2			ppm		H0009WQ1	
299-W18-15	Nitrate	2/10/86	76	2	0			ppm		H0009WQ2	
299-W18-15	Nitrate	3/10/86	76	1	0			ppm		H0009WQ3	
299-W18-15	Nitrate	4/07/86	76	1	0			ppm		H0009WQ4	
299-W18-15	Nitrate	5/08/86	76	1	0			ppm		H0009WQ5	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Nitrate	6/05/86	76	1	0			ppm		H0009WQ6	
299-W18-15	Nitrate	7/02/86	76	1	0			ppm		H0009WQ7	
299-W18-15	Nitrate	8/06/86	76	1	0			ppm		H0009WQ9	
299-W18-15	Nitrate	9/17/86	76	2	0			ppm		H0009WR0	
299-W18-15	Nitrate	10/30/86	46	1010				ppb		H0009WR1	EPA 300.0
299-W18-15	Nitrate	11/05/86	46	5410				ppb		H0009WR2	EPA 300.0
299-W18-15	Nitrate	12/11/86	46	1090				ppb		H0009WR3	EPA 300.0
299-W18-15	Nitrate	1/05/87	46	1130				ppb		H0009WR4	EPA 300.0
299-W18-15	Nitrate	2/09/87	46	639				ppb		H0009WR6	EPA 300.0
299-W18-15	Nitrate	3/11/87	46	1160				ppb		H0009WR7	EPA 300.0
299-W18-15	Nitrate	4/19/87	46	967				ppb		H0009WR8	EPA 300.0
299-W18-15	Nitrate	5/15/87	46	541				ppb		H0009WR9	EPA 300.0
299-W18-15	Nitrate	6/15/87	46	2780				ppb		H0009WS0	EPA 300.0
299-W18-15	Nitrate	7/23/87	46	1280				ppb		H0009WS1	EPA 300.0
299-W18-15	Nitrate	7/23/87	46	2740				ppb		H0009WS2	EPA 300.0
299-W18-15	Nitrate	8/18/87	46	2500			U	ppb		H0009WS3	EPA 300.0
299-W18-15	Nitrate	9/16/87	46	2500			U	ppb		H0009WS4	EPA 300.0
299-W18-15	Nitrate	10/14/87	46	1050				ppb		H0009WS5	EPA 300.0
299-W18-15	Nitrate	10/14/87	46	2500			U	ppb		H0009WS6	EPA 300.0
299-W18-15	Nitrate	11/19/87	46	2500			U	ppb		H0009WS7	EPA 300.0
299-W18-15	Nitrate	12/08/87	46	2500			U	ppb		H0009WS8	EPA 300.0
299-W18-15	Nitrate	1/08/88	46	1420				ppb		H0009WS9	EPA 300.0
299-W18-15	Nitrate	1/15/88	46	2500			U	ppb		H0009WT0	EPA 300.0
299-W18-15	Nitrate	5/18/88	46	2500			U	ppb		H0009WT1	EPA 300.0
299-W18-15	Nitrate	8/17/88	46	1570				ppb		H0009WT2	EPA 300.0
299-W18-15	Nitrate	8/17/88	46	2500			U	ppb		H0009WT3	EPA 300.0
299-W18-15	Nitrate	11/17/88	46	2500			U	ppb		H0009WT4	EPA 300.0
299-W18-15	Nitrate	12/01/88	46	1200				ppb		H0009WT5	EPA 300.0
299-W18-15	Nitrate	3/09/89	46	2500	261		U	ppb		H0009WT6	EPA 300.0
299-W18-15	Nitrobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Nitrosopyrrolidine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	O,O,O-Triethyl phosphorothioate	1/08/88	21	10			U	ppb		H0009WS9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Osmium, filtered	7/23/87	76	300		Y	U	??		H0009WS1	
299-W18-15	Pentachlorobenzene	7/23/87	21	10			U	ppb		H0009WS1	
299-W18-15	Pentachlorobenzene	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	Pentachlorobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Pentachloroethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Pentachloroethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Pentachloroethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Pentachloroethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Pentachloroethane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Pentachloronitrobenzene (PCNB)	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Pentachlorophenol	1/08/88	21	50			U	ppb		H0009WS9	
299-W18-15	Phenacetin	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Phenol	7/23/87	32	10			U	ppb		H0009WS1	
299-W18-15	Phenol	10/14/87	32	10			U	ppb		H0009WS5	
299-W18-15	Phenol	1/08/88	32	10			U	ppb		H0009WS9	
299-W18-15	Phenylenediamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Phorate	7/29/93	29	0			U	ppb	2	B08MP9	SW-846 8140
299-W18-15	Phosphate	7/23/87	46	1000			U	ppb		H0009WS1	EPA 300.0
299-W18-15	Phosphate	10/14/87	46	1000			U	ppb		H0009WS5	EPA 300.0
299-W18-15	Phosphate	1/08/88	46	1000			U	ppb		H0009WS9	EPA 300.0
299-W18-15	Phosphate	8/17/88	46	1000			U	ppb		H0009WT2	EPA 300.0
299-W18-15	Phosphate	12/01/88	46	1000			U	ppb		H0009WT5	EPA 300.0
299-W18-15	Phthalic acid esters	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Plutonium-238	6/13/84	77	-0				pCi/L		H0009WN1	
299-W18-15	Plutonium-238	7/09/84	77	0				pCi/L		H0009WN2	
299-W18-15	Plutonium-238	1/15/88	77	0	0		U	pCi/L		H0009WT0	
299-W18-15	Plutonium-238	8/17/88	77	-0	0		U	pCi/L		H0009WT3	
299-W18-15	Plutonium-238	3/09/89	77	-0	0		U	pCi/L		H0009WT6	
299-W18-15	Plutonium-238	1/17/92	146	-0	0		U	pCi/L	0	B00MC7	ITAS Isotopic Pu
299-W18-15	Plutonium-238	7/29/93	146	-0	0		U	pCi/L	0	B08MP9	ITAS Isotopic Pu
299-W18-15	Plutonium-239/40	6/13/84	77	-0				pCi/L		H0009WN1	
299-W18-15	Plutonium-239/40	7/09/84	77	0				pCi/L		H0009WN2	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Plutonium-239/40	1/15/88	77	-0	0		U	pCi/L		H0009WT0	
299-W18-15	Plutonium-239/40	8/17/88	77	-0	0		U	pCi/L		H0009WT3	
299-W18-15	Plutonium-239/40	3/09/89	77	-0	0		U	pCi/L		H0009WT6	
299-W18-15	Plutonium-239/40	1/17/92	146	0	0		U	pCi/L	0	B00MC7	ITAS Isotopic Pu
299-W18-15	Plutonium-239/40	7/29/93	146	0	0		U	pCi/L	0	B08MP9	ITAS Isotopic Pu
299-W18-15	Potassium	1/08/88	35	3550				ppb		H0009WS9	
299-W18-15	Potassium	7/29/93	34	3600	3450			ppb	300	B08MP9	SW-846 6010
299-W18-15	Potassium	7/29/93	34	3600	3450			ppb	1000	B08MP9	SW-846 6010
299-W18-15	Potassium, filtered	7/23/87	34	2920		Y		ppb	300	H0009WS1	SW-846 6010
299-W18-15	Potassium, filtered	7/23/87	34	2920		Y		ppb	1000	H0009WS1	SW-846 6010
299-W18-15	Potassium, filtered	10/14/87	34	3360		Y		ppb	300	H0009WS5	SW-846 6010
299-W18-15	Potassium, filtered	10/14/87	34	3360		Y		ppb	1000	H0009WS5	SW-846 6010
299-W18-15	Potassium, filtered	1/08/88	34	3400		Y		ppb	300	H0009WS9	SW-846 6010
299-W18-15	Potassium, filtered	1/08/88	34	3400		Y		ppb	1000	H0009WS9	SW-846 6010
299-W18-15	Potassium, filtered	8/17/88	34	3800		Y		ppb	300	H0009WT2	SW-846 6010
299-W18-15	Potassium, filtered	8/17/88	34	3800		Y		ppb	1000	H0009WT2	SW-846 6010
299-W18-15	Potassium, filtered	12/01/88	34	3550		Y		ppb	300	H0009WT5	SW-846 6010
299-W18-15	Potassium, filtered	12/01/88	34	3550		Y		ppb	1000	H0009WT5	SW-846 6010
299-W18-15	Potassium, filtered	7/29/93	34	4000	3830	Y		ppb	300	B08MQ0	SW-846 6010
299-W18-15	Potassium, filtered	7/29/93	34	4000	3830	Y		ppb	1000	B08MQ0	SW-846 6010
299-W18-15	Pronamide	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Pyridine	7/23/87	16	500			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Pyridine	10/14/87	16	500			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Pyridine	1/08/88	16	500			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Pyridine	8/17/88	16	500			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Radium	1/08/88	77	-0	0		U	pCi/L		H0009WS9	
299-W18-15	Reserpine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Resorcinol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Ruthenium-106	4/28/81	77	5				pCi/L		H0009WJ2	
299-W18-15	Ruthenium-106	6/01/81	77	20				pCi/L		H0009WJ3	
299-W18-15	Ruthenium-106	6/17/81	77	3				pCi/L		H0009WJ4	
299-W18-15	Ruthenium-106	8/19/81	77	45				pCi/L		H0009WJ5	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Ruthenium-106	9/09/81	77	14				pCi/L		H0009WJ6	
299-W18-15	Ruthenium-106	9/15/81	77	18				pCi/L		H0009WJ7	
299-W18-15	Ruthenium-106	10/15/81	77	3				pCi/L		H0009WJ8	
299-W18-15	Ruthenium-106	11/12/81	77	11				pCi/L		H0009WJ9	
299-W18-15	Ruthenium-106	12/01/81	77	4				pCi/L		H0009WK0	
299-W18-15	Ruthenium-106	1/11/82	77	1				pCi/L		H0009WK1	
299-W18-15	Ruthenium-106	1/29/82	77	7				pCi/L		H0009WK2	
299-W18-15	Ruthenium-106	3/08/82	77	10				pCi/L		H0009WK3	
299-W18-15	Ruthenium-106	3/30/82	77	36				pCi/L		H0009WK4	
299-W18-15	Ruthenium-106	4/26/82	77	35				pCi/L		H0009WK5	
299-W18-15	Ruthenium-106	5/21/82	77	13				pCi/L		H0009WK6	
299-W18-15	Ruthenium-106	6/22/82	77	34				pCi/L		H0009WK7	
299-W18-15	Ruthenium-106	7/26/82	77	4				pCi/L		H0009WK8	
299-W18-15	Ruthenium-106	8/18/82	77	-14				pCi/L		H0009WK9	
299-W18-15	Ruthenium-106	9/15/82	77	-21				pCi/L		H0009WL0	
299-W18-15	Ruthenium-106	10/11/82	77	64				pCi/L		H0009WL1	
299-W18-15	Ruthenium-106	12/10/82	77	17				pCi/L		H0009WL2	
299-W18-15	Ruthenium-106	1/04/83	77	-33				pCi/L		H0009WL3	
299-W18-15	Ruthenium-106	1/26/83	77	-18				pCi/L		H0009WL4	
299-W18-15	Ruthenium-106	3/12/83	77	10				pCi/L		H0009WL5	
299-W18-15	Ruthenium-106	3/29/83	77	-70				pCi/L		H0009WL6	
299-W18-15	Ruthenium-106	4/21/83	77	74				pCi/L		H0009WL7	
299-W18-15	Ruthenium-106	5/25/83	77	2				pCi/L		H0009WL8	
299-W18-15	Ruthenium-106	6/22/83	77	-67				pCi/L		H0009WL9	
299-W18-15	Ruthenium-106	7/15/83	77	0				pCi/L		H0009WM0	
299-W18-15	Ruthenium-106	8/23/83	77	45				pCi/L		H0009WM1	
299-W18-15	Ruthenium-106	9/27/83	77	33				pCi/L		H0009WM2	
299-W18-15	Ruthenium-106	10/17/83	77	-10				pCi/L		H0009WM3	
299-W18-15	Ruthenium-106	11/19/83	77	18				pCi/L		H0009WM4	
299-W18-15	Ruthenium-106	12/30/83	77	-7				pCi/L		H0009WM5	
299-W18-15	Ruthenium-106	1/26/84	77	-29				pCi/L		H0009WM6	
299-W18-15	Ruthenium-106	3/05/84	77	32				pCi/L		H0009WM7	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Ruthenium-106	3/26/84	77	-13				pCi/L		H0009WM8	
299-W18-15	Ruthenium-106	5/01/84	77	3				pCi/L		H0009WM9	
299-W18-15	Ruthenium-106	5/10/84	77	3				pCi/L		H0009WN0	
299-W18-15	Ruthenium-106	6/13/84	77	-51				pCi/L		H0009WN1	
299-W18-15	Ruthenium-106	7/09/84	77	-56				pCi/L		H0009WN2	
299-W18-15	Ruthenium-106	8/09/84	77	-69				pCi/L		H0009WN3	
299-W18-15	Ruthenium-106	9/10/84	77	-44				pCi/L		H0009WN4	
299-W18-15	Ruthenium-106	10/04/84	77	46				pCi/L		H0009WN5	
299-W18-15	Ruthenium-106	11/05/84	77	-27				pCi/L		H0009WN6	
299-W18-15	Ruthenium-106	12/06/84	77	-17				pCi/L		H0009WN7	
299-W18-15	Ruthenium-106	1/08/85	77	11				pCi/L		H0009WN8	
299-W18-15	Ruthenium-106	2/07/85	77	33				pCi/L		H0009WN9	
299-W18-15	Ruthenium-106	3/15/85	77	-178				pCi/L		H0009WP0	
299-W18-15	Ruthenium-106	4/03/85	77	-176				pCi/L		H0009WP1	
299-W18-15	Ruthenium-106	5/08/85	77	-9				pCi/L		H0009WP2	
299-W18-15	Ruthenium-106	6/04/85	77	68				pCi/L		H0009WP4	
299-W18-15	Ruthenium-106	7/11/85	77	33	27			pCi/L		H0009WP5	
299-W18-15	Ruthenium-106	8/12/85	77	28	48		U	pCi/L		H0009WP6	
299-W18-15	Ruthenium-106	9/07/85	77	-3	34		U	pCi/L		H0009WP7	
299-W18-15	Ruthenium-106	10/08/85	77	32	26			pCi/L		H0009WP8	
299-W18-15	Ruthenium-106	11/07/85	77	6	51		U	pCi/L		H0009WP9	
299-W18-15	Ruthenium-106	12/14/85	77	-45	60		U	pCi/L		H0009WQ0	
299-W18-15	Ruthenium-106	1/03/86	77	53	35			pCi/L		H0009WQ1	
299-W18-15	Ruthenium-106	2/10/86	77	-35	55		U	pCi/L		H0009WQ2	
299-W18-15	Ruthenium-106	3/10/86	77	-11	48		U	pCi/L		H0009WQ3	
299-W18-15	Ruthenium-106	4/07/86	77	-32	66		U	pCi/L		H0009WQ4	
299-W18-15	Ruthenium-106	5/08/86	77	11	49		U	pCi/L		H0009WQ5	
299-W18-15	Ruthenium-106	6/05/86	77	6	51		U	pCi/L		H0009WQ6	
299-W18-15	Ruthenium-106	7/14/86	77	11	50		U	pCi/L		H0009WQ8	
299-W18-15	Ruthenium-106	8/06/86	77	25	44		U	pCi/L		H0009WQ9	
299-W18-15	Ruthenium-106	9/17/86	77	15	40		U	pCi/L		H0009WR0	
299-W18-15	Ruthenium-106	10/30/86	77	14	39		U	pCi/L		H0009WR1	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Ruthenium-106	11/05/86	77	39	32			pCi/L		H0009WR2	
299-W18-15	Ruthenium-106	12/11/86	77	-33	45		U	pCi/L		H0009WR3	
299-W18-15	Ruthenium-106	1/29/87	77	-19	59		U	pCi/L		H0009WR5	
299-W18-15	Ruthenium-106	4/19/87	77	-23	56		U	pCi/L		H0009WR8	
299-W18-15	Ruthenium-106	7/23/87	77	-15	59		U	pCi/L		H0009WS2	
299-W18-15	Ruthenium-106	10/14/87	77	51	34			pCi/L		H0009WS6	
299-W18-15	Ruthenium-106	1/15/88	77	34	62		U	pCi/L		H0009WT0	
299-W18-15	Ruthenium-106	5/18/88	77	48	45			pCi/L		H0009WT1	
299-W18-15	Ruthenium-106	8/17/88	77	11	52		U	pCi/L		H0009WT3	
299-W18-15	Ruthenium-106	11/17/88	77	38	63		U	pCi/L		H0009WT4	
299-W18-15	Ruthenium-106	3/09/89	77	26	69		U	pCi/L		H0009WT6	
299-W18-15	Ruthenium-106	7/29/93	140	31	61		U	pCi/L		B08MP9	ITAS Gamma Scan
299-W18-15	Safrol	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Selenium	1/08/88	76	5			U	ppb		H0009WS9	
299-W18-15	Selenium	7/29/93	48	1			U	ppb	10	B08MP9	SW-846 7740
299-W18-15	Selenium, filtered	7/23/87	48	5		Y	U	ppb	10	H0009WS1	SW-846 7740
299-W18-15	Selenium, filtered	10/14/87	48	5		Y	U	ppb	10	H0009WS5	SW-846 7740
299-W18-15	Selenium, filtered	1/08/88	48	5		Y	U	ppb	10	H0009WS9	SW-846 7740
299-W18-15	Selenium, filtered	7/29/93	48	2	1	Y	L	ppb	10	B08MQ0	SW-846 7740
299-W18-15	Silver	1/08/88	35	10			U	ppb		H0009WS9	
299-W18-15	Silver	7/29/93	34	3			U	ppb	20	B08MP9	SW-846 6010
299-W18-15	Silver, filtered	7/23/87	34	10		Y	U	ppb	20	H0009WS1	SW-846 6010
299-W18-15	Silver, filtered	10/14/87	34	10		Y	U	ppb	20	H0009WS5	SW-846 6010
299-W18-15	Silver, filtered	1/08/88	34	10		Y	U	ppb	20	H0009WS9	SW-846 6010
299-W18-15	Silver, filtered	8/17/88	34	10		Y	U	ppb	20	H0009WT2	SW-846 6010
299-W18-15	Silver, filtered	12/01/88	34	10		Y	U	ppb	20	H0009WT5	SW-846 6010
299-W18-15	Silver, filtered	7/29/93	34	3		Y	U	ppb	20	B08MQ0	SW-846 6010
299-W18-15	Sodium	1/08/88	35	12000				ppb		H0009WS9	
299-W18-15	Sodium	7/29/93	34	13000	4060			ppb	300	B08MP9	SW-846 6010
299-W18-15	Sodium, filtered	7/23/87	34	8990		Y		ppb	300	H0009WS1	SW-846 6010
299-W18-15	Sodium, filtered	10/14/87	34	10300		Y		ppb	300	H0009WS5	SW-846 6010
299-W18-15	Sodium, filtered	1/08/88	34	11300		Y		ppb	300	H0009WS9	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Sodium, filtered	8/17/88	34	11900		Y		ppb	300	H0009WT2	SW-846 6010
299-W18-15	Sodium, filtered	12/01/88	34	11000		Y		ppb	300	H0009WT5	SW-846 6010
299-W18-15	Sodium, filtered	7/29/93	34	13000	4060	Y		ppb	300	B08MQ0	SW-846 6010
299-W18-15	Specific conductance	7/23/87	76	197				umhos		H0009WS1	
299-W18-15	Specific conductance	10/14/87	76	187				umhos		H0009WS5	
299-W18-15	Specific conductance	1/08/88	76					umhos		H0009WS9	
299-W18-15	Specific conductance	8/17/88	76	175				umhos		H0009WT2	
299-W18-15	Specific conductance	12/01/88	76	203				umhos		H0009WT5	
299-W18-15	Specific conductance	1/17/92	94	337				umhos	1	B00MC7	Probe, Conductivity
299-W18-15	Specific conductance	7/29/93	73	220				umhos		B08MP9	ASTM D-1125-A
299-W18-15	Strontium, filtered	7/23/87	34	300		Y	U	ppb		H0009WS1	SW-846 6010
299-W18-15	Strontium, filtered	10/14/87	34	98		Y		ppb		H0009WS5	SW-846 6010
299-W18-15	Strontium, filtered	1/08/88	34	92		Y		ppb		H0009WS9	SW-846 6010
299-W18-15	Strontium, filtered	8/17/88	34	105		Y		ppb		H0009WT2	SW-846 6010
299-W18-15	Strontium, filtered	12/01/88	34	97		Y		ppb		H0009WT5	SW-846 6010
299-W18-15	Strontium-90	8/09/84	77	0				pCi/L		H0009WN3	
299-W18-15	Strontium-90	7/29/93	141	1	0			pCi/L	5	B08MP9	ITAS Sr-90
299-W18-15	Strychnine	1/08/88	21	50			U	ppb		H0009WS9	
299-W18-15	Styrene	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Sulfate	7/23/87	46	12900				ppb		H0009WS1	EPA 300.0
299-W18-15	Sulfate	10/14/87	46	12800				ppb		H0009WS5	EPA 300.0
299-W18-15	Sulfate	1/08/88	46	12800				ppb		H0009WS9	EPA 300.0
299-W18-15	Sulfate	8/17/88	46	12900				ppb		H0009WT2	EPA 300.0
299-W18-15	Sulfate	12/01/88	46	12500				ppb		H0009WT5	EPA 300.0
299-W18-15	Sulfide	7/29/93	63	300	97		L	ppb	10000	B08MP9	SW-846 9030
299-W18-15	Technetium-99	1/17/92	143	2	2		U	pCi/L	15	B00MC7	ITAS Tc-99
299-W18-15	Technetium-99	7/29/93	143	1	2		U	pCi/L	15	B08MP9	ITAS Tc-99
299-W18-15	Temperature, field	4/28/81	170	17				DegC	0	H000GBZ7	Probe, temperature
299-W18-15	Temperature, field	6/01/81	170	15				DegC	0	H000GBV6	Probe, temperature
299-W18-15	Temperature, field	9/09/81	170	16				DegC	0	H000GBJ8	Probe, temperature
299-W18-15	Temperature, field	9/15/81	170	15				DegC	0	H000GBJ6	Probe, temperature
299-W18-15	Temperature, field	10/15/81	170	14				DegC	0	H000GB92	Probe, temperature

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Temperature, field	11/12/81	170	15				DegC	0	H000GB70	Probe, temperature
299-W18-15	Temperature, field	12/01/81	170	13				DegC	0	H000GB26	Probe, temperature
299-W18-15	Temperature, field	6/17/85	170	15				DegC	0	H000GBQ5	Probe, temperature
299-W18-15	Temperature, field	7/23/87	170	12				DegC	0	H000GH32	Probe, temperature
299-W18-15	Temperature, field	10/14/87	170	13				DegC	0	H000GHX5	Probe, temperature
299-W18-15	Temperature, field	1/08/88	170	14				DegC	0	H000GJP0	Probe, temperature
299-W18-15	Temperature, field	8/17/88	170	14				DegC	0	H000GLT0	Probe, temperature
299-W18-15	Temperature, field	12/01/88	170	14				DegC	0	H000GMQ1	Probe, temperature
299-W18-15	Temperature, field	1/17/92	170	14				DegC	0	B00MC7	Probe, temperature
299-W18-15	Tetrachloroethene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Tetrachloroethene	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Tetrachloroethene	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Tetrachloroethene	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Tetrachloroethene	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	Tetrachloroethene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Tetrahydrofuran	7/29/93	16	4			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Thallium	7/29/93	42	1			U	ppb	5	B08MP9	SW-846 7841
299-W18-15	Thallium, filtered	7/29/93	42	1		Y	U	ppb	5	B08MQ0	SW-846 7841
299-W18-15	Thiofanox	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Thiuram	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Tin	7/29/93	34	51			U	ppb	100	B08MP9	SW-846 6010
299-W18-15	Tin, filtered	7/29/93	34	51		Y	U	ppb	100	B08MQ0	SW-846 6010
299-W18-15	Toluene	7/23/87	16	4			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Toluene	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Toluene	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Toluene	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Toluene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Toluenediamine	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Total Carbon	7/23/87	127	23200				ppb	2000	H0009WS1	ASTM D-2579-A
299-W18-15	Total Carbon	10/14/87	127	22900				ppb	2000	H0009WS5	ASTM D-2579-A
299-W18-15	Total Carbon	1/08/88	127	21200				ppb	2000	H0009WS9	ASTM D-2579-A
299-W18-15	Total Carbon	8/17/88	127	23200				ppb	2000	H0009WT2	ASTM D-2579-A

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Total Carbon	12/01/88	127	22300				ppb	2000	H0009WT5	ASTM D-2579-A
299-W18-15	Total Dissolved Solids	7/29/93	65	150				ppm	10	B08MP9	Std Meth #209B
299-W18-15	Total Organic Carbon	7/23/87	66	533			U	ppb		H0009WS1	
299-W18-15	Total Organic Carbon	10/14/87	66	566			U	ppb		H0009WS5	
299-W18-15	Total Organic Carbon	1/08/88	66	348			U	ppb		H0009WS9	
299-W18-15	Total Organic Carbon	8/17/88	66	518			U	ppb		H0009WT2	
299-W18-15	Total Organic Carbon	12/01/88	66	400			U	ppb		H0009WT5	
299-W18-15	Total Organic Halogen	7/23/87	67	85				ppb	10	H0009WS1	SW-846 9020
299-W18-15	Total Organic Halogen	10/14/87	67	80				ppb	10	H0009WS5	SW-846 9020
299-W18-15	Total Organic Halogen	1/08/88	67	84				ppb	10	H0009WS9	SW-846 9020
299-W18-15	Toxaphene	7/29/93	17	1			U	ppb	2	B08MP9	SW-846 8080
299-W18-15	Tributylphosphoric Acid	10/14/87	21	10			U	ppb		H0009WS5	
299-W18-15	Tributylphosphoric Acid	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Trichloroethene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Trichloroethene	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Trichloroethene	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Trichloroethene	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Trichloroethene	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240
299-W18-15	Trichloroethene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Trichloromethanethiol	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Trichloromethanethiol	10/14/87	16	10			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Trichloromethanethiol	1/08/88	16	10			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Trichloromethanethiol	8/17/88	16	10			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Trichloromonofluoromethane	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Trichloromonofluoromethane	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Trichloromonofluoromethane	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Trichloromonofluoromethane	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Trichloromonofluoromethane	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Tris(2,3-dibromopropyl) phosphate	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Tritium	4/28/81	77	540				pCi/L		H0009WJ2	
299-W18-15	Tritium	6/01/81	77	320				pCi/L		H0009WJ3	
299-W18-15	Tritium	6/17/81	77	380				pCi/L		H0009WJ4	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Tritium	8/19/81	77	460				pCi/L		H0009WJ5	
299-W18-15	Tritium	9/09/81	77	400				pCi/L		H0009WJ6	
299-W18-15	Tritium	9/15/81	77	310				pCi/L		H0009WJ7	
299-W18-15	Tritium	10/15/81	77	1400				pCi/L		H0009WJ8	
299-W18-15	Tritium	11/12/81	77	260				pCi/L		H0009WJ9	
299-W18-15	Tritium	12/01/81	77	940				pCi/L		H0009WK0	
299-W18-15	Tritium	1/11/82	77	440				pCi/L		H0009WK1	
299-W18-15	Tritium	1/29/82	77	350				pCi/L		H0009WK2	
299-W18-15	Tritium	3/08/82	77	170				pCi/L		H0009WK3	
299-W18-15	Tritium	3/30/82	77	870				pCi/L		H0009WK4	
299-W18-15	Tritium	4/26/82	77	700				pCi/L		H0009WK5	
299-W18-15	Tritium	5/21/82	77	130				pCi/L		H0009WK6	
299-W18-15	Tritium	6/22/82	77	1600				pCi/L		H0009WK7	
299-W18-15	Tritium	7/26/82	77	161				pCi/L		H0009WK8	
299-W18-15	Tritium	8/18/82	77	260				pCi/L		H0009WK9	
299-W18-15	Tritium	9/15/82	77	143				pCi/L		H0009WL0	
299-W18-15	Tritium	10/11/82	77	184				pCi/L		H0009WL1	
299-W18-15	Tritium	12/10/82	77	1850				pCi/L		H0009WL2	
299-W18-15	Tritium	1/04/83	77	343				pCi/L		H0009WL3	
299-W18-15	Tritium	1/26/83	77	426				pCi/L		H0009WL4	
299-W18-15	Tritium	3/12/83	77	49				pCi/L		H0009WL5	
299-W18-15	Tritium	3/29/83	77	360				pCi/L		H0009WL6	
299-W18-15	Tritium	4/21/83	77	3200				pCi/L		H0009WL7	
299-W18-15	Tritium	5/25/83	77	705				pCi/L		H0009WL8	
299-W18-15	Tritium	6/22/83	77	1040				pCi/L		H0009WL9	
299-W18-15	Tritium	7/15/83	77	-51				pCi/L		H0009WM0	
299-W18-15	Tritium	8/23/83	77	56				pCi/L		H0009WM1	
299-W18-15	Tritium	9/27/83	77	670				pCi/L		H0009WM2	
299-W18-15	Tritium	10/17/83	77	1530				pCi/L		H0009WM3	
299-W18-15	Tritium	11/19/83	77	165				pCi/L		H0009WM4	
299-W18-15	Tritium	12/30/83	77	147				pCi/L		H0009WM5	
299-W18-15	Tritium	1/26/84	77	689				pCi/L		H0009WM6	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Tritium	3/05/84	77	236				pCi/L		H0009WM7	
299-W18-15	Tritium	3/26/84	77	210				pCi/L		H0009WM8	
299-W18-15	Tritium	5/01/84	77	42				pCi/L		H0009WM9	
299-W18-15	Tritium	5/10/84	77	401				pCi/L		H0009WN0	
299-W18-15	Tritium	6/13/84	77	85				pCi/L		H0009WN1	
299-W18-15	Tritium	7/09/84	77	2000				pCi/L		H0009WN2	
299-W18-15	Tritium	8/09/84	77	338				pCi/L		H0009WN3	
299-W18-15	Tritium	9/10/84	77	191				pCi/L		H0009WN4	
299-W18-15	Tritium	10/04/84	77	935				pCi/L		H0009WN5	
299-W18-15	Tritium	11/05/84	77	122				pCi/L		H0009WN6	
299-W18-15	Tritium	12/06/84	77	215				pCi/L		H0009WN7	
299-W18-15	Tritium	1/08/85	77	80				pCi/L		H0009WN8	
299-W18-15	Tritium	2/07/85	77	-22				pCi/L		H0009WN9	
299-W18-15	Tritium	3/15/85	77	584				pCi/L		H0009WP0	
299-W18-15	Tritium	4/03/85	77	-9				pCi/L		H0009WP1	
299-W18-15	Tritium	5/08/85	77	83				pCi/L		H0009WP2	
299-W18-15	Tritium	6/04/85	77	152				pCi/L		H0009WP4	
299-W18-15	Tritium	7/11/85	77	-13	260		U	pCi/L		H0009WP5	
299-W18-15	Tritium	8/12/85	77	196	264		U	pCi/L		H0009WP6	
299-W18-15	Tritium	9/07/85	77	153	254		U	pCi/L		H0009WP7	
299-W18-15	Tritium	10/08/85	77	168	211		U	pCi/L		H0009WP8	
299-W18-15	Tritium	11/07/85	77	208	272		U	pCi/L		H0009WP9	
299-W18-15	Tritium	12/14/85	77	93	297		U	pCi/L		H0009WQ0	
299-W18-15	Tritium	1/03/86	77	144	240		U	pCi/L		H0009WQ1	
299-W18-15	Tritium	2/10/86	77	137	255		U	pCi/L		H0009WQ2	
299-W18-15	Tritium	3/10/86	77	134	247		U	pCi/L		H0009WQ3	
299-W18-15	Tritium	4/07/86	77	105	252		U	pCi/L		H0009WQ4	
299-W18-15	Tritium	5/08/86	77	128	267		U	pCi/L		H0009WQ5	
299-W18-15	Tritium	6/05/86	77	105	260		U	pCi/L		H0009WQ6	
299-W18-15	Tritium	7/14/86	77	219	325		U	pCi/L		H0009WQ8	
299-W18-15	Tritium	8/06/86	77	126	262		U	pCi/L		H0009WQ9	
299-W18-15	Tritium	9/17/86	77	-316	288		U	pCi/L		H0009WR0	

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299-W18-15	Tritium	10/30/86	77	148	317		U	pCi/L		H0009WR1	
299-W18-15	Tritium	11/05/86	77	539	364			pCi/L		H0009WR2	
299-W18-15	Tritium	12/11/86	77	-5	281		U	pCi/L		H0009WR3	
299-W18-15	Tritium	1/29/87	77	179	256		U	pCi/L		H0009WR5	
299-W18-15	Tritium	2/09/87	77	332	262			pCi/L		H0009WR6	
299-W18-15	Tritium	3/11/87	77	-49	334		U	pCi/L		H0009WR7	
299-W18-15	Tritium	4/19/87	77	96	337		U	pCi/L		H0009WR8	
299-W18-15	Tritium	5/15/87	77	190	327		U	pCi/L		H0009WR9	
299-W18-15	Tritium	6/15/87	77	111	257		U	pCi/L		H0009WS0	
299-W18-15	Tritium	7/23/87	77	33	294		U	pCi/L		H0009WS2	
299-W18-15	Tritium	8/18/87	77	335	322			pCi/L		H0009WS3	
299-W18-15	Tritium	9/16/87	77	158	312		U	pCi/L		H0009WS4	
299-W18-15	Tritium	10/14/87	77	35	325		U	pCi/L		H0009WS6	
299-W18-15	Tritium	11/19/87	77	133	314		U	pCi/L		H0009WS7	
299-W18-15	Tritium	12/08/87	77	137	255		U	pCi/L		H0009WS8	
299-W18-15	Tritium	1/15/88	77	157	380		U	pCi/L		H0009WT0	
299-W18-15	Tritium	5/18/88	77	101	308		U	pCi/L		H0009WT1	
299-W18-15	Tritium	8/17/88	77	484	385			pCi/L		H0009WT3	
299-W18-15	Tritium	11/17/88	77	153	327		U	pCi/L		H0009WT4	
299-W18-15	Tritium	3/09/89	77	67	212		U	pCi/L		H0009WT6	
299-W18-15	Tritium	7/29/93	142	-95	224		U	pCi/L	500	B08MP9	ITAS H-3
299-W18-15	Uranium	4/28/81	77	41				pCi/L		H0009WJ2	
299-W18-15	Uranium	6/01/81	77	41				pCi/L		H0009WJ3	
299-W18-15	Uranium	6/17/81	77	42				pCi/L		H0009WJ4	
299-W18-15	Uranium	8/19/81	77	49				pCi/L		H0009WJ5	
299-W18-15	Uranium	9/09/81	77	30				pCi/L		H0009WJ6	
299-W18-15	Uranium	9/15/81	77	46				pCi/L		H0009WJ7	
299-W18-15	Uranium	10/15/81	77	43				pCi/L		H0009WJ8	
299-W18-15	Uranium	11/12/81	77	30				pCi/L		H0009WJ9	
299-W18-15	Uranium	12/01/81	77	23				pCi/L		H0009WK0	
299-W18-15	Uranium	1/11/82	77	28				pCi/L		H0009WK1	
299-W18-15	Uranium	1/29/82	77	28				pCi/L		H0009WK2	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Uranium	3/08/82	77	41				pCi/L		H0009WK3	
299-W18-15	Uranium	3/30/82	77	39				pCi/L		H0009WK4	
299-W18-15	Uranium	4/26/82	77	42				pCi/L		H0009WK5	
299-W18-15	Uranium	5/21/82	77	52				pCi/L		H0009WK6	
299-W18-15	Uranium	6/22/82	77	48				pCi/L		H0009WK7	
299-W18-15	Uranium	7/26/82	77	49				pCi/L		H0009WK8	
299-W18-15	Uranium	8/18/82	77	55				pCi/L		H0009WK9	
299-W18-15	Uranium	9/15/82	77	1				pCi/L		H0009WL0	
299-W18-15	Uranium	10/11/82	77	50				pCi/L		H0009WL1	
299-W18-15	Uranium	12/10/82	77	43				pCi/L		H0009WL2	
299-W18-15	Uranium	1/04/83	77	37				pCi/L		H0009WL3	
299-W18-15	Uranium	8/09/84	77	61				pCi/L		H0009WN3	
299-W18-15	Uranium	1/08/85	77	41				pCi/L		H0009WN8	
299-W18-15	Uranium	2/07/85	77	39				pCi/L		H0009WN9	
299-W18-15	Uranium	3/15/85	77	42				pCi/L		H0009WP0	
299-W18-15	Uranium	4/03/85	77	41				pCi/L		H0009WP1	
299-W18-15	Uranium	5/08/85	77	37				pCi/L		H0009WP2	
299-W18-15	Uranium	6/04/85	77	33				pCi/L		H0009WP4	
299-W18-15	Uranium	7/11/85	77	37	11			pCi/L		H0009WP5	
299-W18-15	Uranium	8/12/85	77	53	16			pCi/L		H0009WP6	
299-W18-15	Uranium	9/07/85	77	60	18			pCi/L		H0009WP7	
299-W18-15	Uranium	10/08/85	77	57	17			pCi/L		H0009WP8	
299-W18-15	Uranium	11/07/85	77	68	19			pCi/L		H0009WP9	
299-W18-15	Uranium	12/14/85	77	59	17			pCi/L		H0009WQ0	
299-W18-15	Uranium	1/03/86	77	52	15			pCi/L		H0009WQ1	
299-W18-15	Uranium	2/10/86	77	51	14			pCi/L		H0009WQ2	
299-W18-15	Uranium	3/10/86	77	29	10			pCi/L		H0009WQ3	
299-W18-15	Uranium	4/07/86	77	68	20			pCi/L		H0009WQ4	
299-W18-15	Uranium	5/08/86	77	55	18			pCi/L		H0009WQ5	
299-W18-15	Uranium	6/05/86	77	52	16			pCi/L		H0009WQ6	
299-W18-15	Uranium	7/14/86	77	66	17			pCi/L		H0009WQ8	
299-W18-15	Uranium	8/06/86	77	67	18			pCi/L		H0009WQ9	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Uranium	9/17/86	77	49	13			pCi/L		H0009WR0	
299-W18-15	Uranium	10/30/86	77	58	18			pCi/L		H0009WR1	
299-W18-15	Uranium	11/05/86	77	53	16			pCi/L		H0009WR2	
299-W18-15	Uranium	12/11/86	77	59	16			pCi/L		H0009WR3	
299-W18-15	Uranium	1/29/87	77	63	18			pCi/L		H0009WR5	
299-W18-15	Uranium	2/09/87	77	71	20			pCi/L		H0009WR6	
299-W18-15	Uranium	3/11/87	77	59	16			pCi/L		H0009WR7	
299-W18-15	Uranium	4/19/87	77	62	17			pCi/L		H0009WR8	
299-W18-15	Uranium	5/15/87	77	71	19			pCi/L		H0009WR9	
299-W18-15	Uranium	6/15/87	77	72	19			pCi/L		H0009WS0	
299-W18-15	Uranium	7/23/87	77	63	17			pCi/L		H0009WS2	
299-W18-15	Uranium	8/18/87	77	68	18			pCi/L		H0009WS3	
299-W18-15	Uranium	9/16/87	77	69	18			pCi/L		H0009WS4	
299-W18-15	Uranium	10/14/87	77	70	19			pCi/L		H0009WS6	
299-W18-15	Uranium	11/19/87	77	76	21			pCi/L		H0009WS7	
299-W18-15	Uranium	12/08/87	77	71	20			pCi/L		H0009WS8	
299-W18-15	Uranium	1/15/88	77	57	16			pCi/L		H0009WT0	
299-W18-15	Uranium	5/18/88	77	63	18			pCi/L		H0009WT1	
299-W18-15	Uranium	8/17/88	77	59	17			pCi/L		H0009WT3	
299-W18-15	Uranium	11/17/88	77	56	16			pCi/L		H0009WT4	
299-W18-15	Uranium	3/09/89	77	47	14			pCi/L		H0009WT6	
299-W18-15	Uranium-234	10/08/85	77	15	1			pCi/L		H0009WP8	
299-W18-15	Uranium-234	7/23/87	77	24	2			pCi/L		H0009WS2	
299-W18-15	Uranium-234	1/15/88	77	23	2			pCi/L		H0009WT0	
299-W18-15	Uranium-234	8/17/88	77	22	3			pCi/L		H0009WT3	
299-W18-15	Uranium-234	3/09/89	77	18	2			pCi/L		H0009WT6	
299-W18-15	Uranium-234	7/29/93	148	15	2			pCi/L	0	B08MP9	ITAS Isotopic U
299-W18-15	Uranium-235	10/08/85	77	1	0			pCi/L		H0009WP8	
299-W18-15	Uranium-235	7/23/87	77	1	0			pCi/L		H0009WS2	
299-W18-15	Uranium-235	1/15/88	77	3	0			pCi/L		H0009WT0	
299-W18-15	Uranium-235	8/17/88	77	1	0			pCi/L		H0009WT3	
299-W18-15	Uranium-235	3/09/89	77	1	0			pCi/L		H0009WT6	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Uranium-235	7/29/93	148	1	0			pCi/L	0	B08MP9	ITAS Isotopic U
299-W18-15	Uranium-238	10/08/85	77	16	1			pCi/L		H0009WP8	
299-W18-15	Uranium-238	7/23/87	77	24	2			pCi/L		H0009WS2	
299-W18-15	Uranium-238	1/15/88	77	25	2			pCi/L		H0009WT0	
299-W18-15	Uranium-238	8/17/88	77	22	3			pCi/L		H0009WT3	
299-W18-15	Uranium-238	3/09/89	77	18	2			pCi/L		H0009WT6	
299-W18-15	Uranium-238	7/29/93	148	15	2			pCi/L	0	B08MP9	ITAS Isotopic U
299-W18-15	Vanadium	1/08/88	35	21				ppb		H0009WS9	
299-W18-15	Vanadium	7/29/93	34	22	5		L	ppb	30	B08MP9	SW-846 6010
299-W18-15	Vanadium, filtered	7/23/87	34	19		Y		ppb	30	H0009WS1	SW-846 6010
299-W18-15	Vanadium, filtered	10/14/87	34	21		Y		ppb	30	H0009WS5	SW-846 6010
299-W18-15	Vanadium, filtered	1/08/88	34	19		Y		ppb	30	H0009WS9	SW-846 6010
299-W18-15	Vanadium, filtered	8/17/88	34	21		Y		ppb	30	H0009WT2	SW-846 6010
299-W18-15	Vanadium, filtered	12/01/88	34	18		Y		ppb	30	H0009WT5	SW-846 6010
299-W18-15	Vanadium, filtered	7/29/93	34	18	4	Y	L	ppb	30	B08MQ0	SW-846 6010
299-W18-15	Vinyl acetate	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Vinyl chloride	7/23/87	16	10			U	ppb	10	H0009WS1	SW-846 8240
299-W18-15	Vinyl chloride	10/14/87	16	10			U	ppb	10	H0009WS5	SW-846 8240
299-W18-15	Vinyl chloride	1/08/88	16	10			U	ppb	10	H0009WS9	SW-846 8240
299-W18-15	Vinyl chloride	8/17/88	16	10			U	ppb	10	H0009WT2	SW-846 8240
299-W18-15	Vinyl chloride	7/29/93	16	1			U	ppb	10	B08MP9	SW-846 8240
299-W18-15	Warfarin	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	Xylenes	7/23/87	16	10			U	ppb		H0009WS1	SW-846 8240
299-W18-15	Xylenes	10/14/87	16	5			U	ppb		H0009WS5	SW-846 8240
299-W18-15	Xylenes	1/08/88	16	5			U	ppb		H0009WS9	SW-846 8240
299-W18-15	Xylenes	8/17/88	16	5			U	ppb		H0009WT2	SW-846 8240
299-W18-15	Xylenes	12/01/88	16	5			U	ppb		H0009WT5	SW-846 8240
299-W18-15	Xylenes (total)	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	Xylenes (total)	10/14/87	16	5			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	Xylenes (total)	1/08/88	16	5			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	Xylenes (total)	8/17/88	16	5			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	Xylenes (total)	12/01/88	16	5			U	ppb	5	H0009WT5	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	Xylenes (total)	7/29/93	16	2			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	Zinc	1/08/88	35	5			U	ppb		H0009WS9	
299-W18-15	Zinc	7/29/93	34	13	4			ppb	10	B08MP9	SW-846 6010
299-W18-15	Zinc, filtered	7/23/87	34	5		Y	U	ppb	10	H0009WS1	SW-846 6010
299-W18-15	Zinc, filtered	10/14/87	34	6		Y		ppb	10	H0009WS5	SW-846 6010
299-W18-15	Zinc, filtered	1/08/88	34	5		Y	U	ppb	10	H0009WS9	SW-846 6010
299-W18-15	Zinc, filtered	8/17/88	34	6		Y		ppb	10	H0009WT2	SW-846 6010
299-W18-15	Zinc, filtered	12/01/88	34	7		Y		ppb	10	H0009WT5	SW-846 6010
299-W18-15	Zinc, filtered	7/29/93	34	28	9	Y		ppb	10	B08MQ0	SW-846 6010
299-W18-15	allylchloride	7/29/93	16	1			U	ppb	100	B08MP9	SW-846 8240
299-W18-15	cis-1,3-Dichloropropene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	gamma-BHC (Lindane)	7/29/93	17	0			U	ppb	0	B08MP9	SW-846 8080
299-W18-15	m-dinitrobenzene	1/08/88	19	10			U	ppb	10	H0009WS9	SW-846 8270
299-W18-15	o-Toluidine hydrochloride	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	p-Benzoquinone	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	p-Dimethylaminoazobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	pH	7/23/87	75	8						H0009WS1	
299-W18-15	pH	7/23/87	76	7						H0009WS1	
299-W18-15	pH	10/14/87	75	8						H0009WS5	
299-W18-15	pH	10/14/87	76	8						H0009WS5	
299-W18-15	pH	1/08/88	75	8						H0009WS9	
299-W18-15	pH	1/08/88	76	8						H0009WS9	
299-W18-15	pH	8/17/88	75	8						H0009WT2	
299-W18-15	pH	8/17/88	76	8						H0009WT2	
299-W18-15	pH	12/01/88	75	8						H0009WT5	
299-W18-15	pH	12/01/88	76	8						H0009WT5	
299-W18-15	pH	1/17/92	93	8					0	B00MC7	Probe, pH
299-W18-15	sym-Trinitrobenzene	1/08/88	21	10			U	ppb		H0009WS9	
299-W18-15	trans-1,2-Dichloroethylene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	trans-1,2-Dichloroethylene	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	trans-1,2-Dichloroethylene	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	trans-1,2-Dichloroethylene	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-33	2,4,5-T	7/01/93	49	0			U	ppb	2	B08NH8	SW-846 8150
299-W18-33	2,4,5-TP	7/01/93	49	0			U	ppb	2	B08NH8	SW-846 8150
299-W18-33	2,4-D	7/01/93	49	0			U	ppb	10	B08NH8	SW-846 8150
299-W18-33	2-sec-Butyl-4,6-dinitrophenol(DNBP)	7/01/93	49	0			U	ppb	1	B08NH8	SW-846 8150
299-W18-33	4,4'-DDD	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	4,4'-DDE	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	4,4'-DDT	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Aldrin	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Alkalinity	7/01/93	52	100				ppm	50	B08NH8	ASTM D-1067-A
299-W18-33	Alpha-BHC	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Aluminum	7/01/93	34	33		Y	U	ppb	200	B08NH9	SW-846 6010
299-W18-33	Aluminum	7/01/93	34	1400				ppb	200	B08NH8	SW-846 6010
299-W18-33	Americium-241	7/01/93	147	0	0		U	pCi/L	0	B08NH8	ITAS Am-241
299-W18-33	Ammonium ion	7/01/93	54	39			U	ppb	100	B08NH8	ASTM D-1426-D
299-W18-33	Antimony	7/01/93	34	69			U	ppb	200	B08NH8	SW-846 6010
299-W18-33	Antimony, filtered	7/01/93	34	69		Y	U	ppb	200	B08NH9	SW-846 6010
299-W18-33	Aroclor-1016	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1221	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1232	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1242	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1248	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1254	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Aroclor-1260	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Arsenic	7/01/93	43	6	4			ppb	5	B08NH8	SW-846 7060
299-W18-33	Arsenic, filtered	7/01/93	43	5	4	Y		ppb	5	B08NH9	SW-846 7060
299-W18-33	Barium	7/01/93	34	60	0			ppb	20	B08NH8	SW-846 6010
299-W18-33	Barium, filtered	7/01/93	34	46	0	Y		ppb	20	B08NH9	SW-846 6010
299-W18-33	Beryllium	7/01/93	34	1			U	ppb	3	B08NH8	SW-846 6010
299-W18-33	Beryllium, filtered	7/01/93	34	1		Y	U	ppb	3	B08NH9	SW-846 6010
299-W18-33	Beta-BHC	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Bromide	7/01/93	124	53			U	ppb	500	B08NH8	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-15	trans-1,3-Dichloropropene	7/29/93	16	0			U	ppb	5	B08MP9	SW-846 8240
299-W18-15	trans-1,4-dichloro-2-butene	7/23/87	16	10			U	ppb	5	H0009WS1	SW-846 8240
299-W18-15	trans-1,4-dichloro-2-butene	10/14/87	16	10			U	ppb	5	H0009WS5	SW-846 8240
299-W18-15	trans-1,4-dichloro-2-butene	1/08/88	16	10			U	ppb	5	H0009WS9	SW-846 8240
299-W18-15	trans-1,4-dichloro-2-butene	8/17/88	16	10			U	ppb	5	H0009WT2	SW-846 8240
299-W18-15	trans-1,4-dichloro-2-butene	7/29/93	16	1			U	ppb	5	B08MP9	SW-846 8240

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Upgradient Groundwater Data for Well 299-W18-33

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-33	Cadmium	7/01/93	34	5			U	ppb	10	B08NH8	SW-846 6010
299-W18-33	Cadmium, filtered	7/01/93	34	5		Y	U	ppb	10	B08NH9	SW-846 6010
299-W18-33	Calcium	7/01/93	34	21000	6360			ppb	100	B08NH8	SW-846 6010
299-W18-33	Calcium, filtered	7/01/93	34	20000	6060	Y		ppb	100	B08NH9	SW-846 6010
299-W18-33	Chlordane	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Chloride	7/01/93	124	2800	464			ppb	200	B08NH8	ASTM D-4327-88
299-W18-33	Chromium	7/01/93	34	28	7			ppb	20	B08NH8	SW-846 6010
299-W18-33	Chromium, filtered	7/01/93	34	5		Y	U	ppb	20	B08NH9	SW-846 6010
299-W18-33	Cobalt	7/01/93	34	4			U	ppb	20	B08NH8	SW-846 6010
299-W18-33	Cobalt, filtered	7/01/93	34	4		Y	U	ppb	20	B08NH9	SW-846 6010
299-W18-33	Copper	7/01/93	34	3			U	ppb	20	B08NH8	SW-846 6010
299-W18-33	Copper, filtered	7/01/93	34	3		Y	U	ppb	20	B08NH9	SW-846 6010
299-W18-33	Cyanide	7/01/93	56	2	1		L	ppb	20	B08NH8	SW-846 9010
299-W18-33	Delta-BHC	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Dieldrin	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Disulfoton	7/01/93	29	0			U	ppb	2	B08NH8	SW-846 8140
299-W18-33	Endosulfan I	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Endosulfan II	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Endosulfan sulfate	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Endrin	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Endrin Aldehyde	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Fluoride	7/01/93	124	700	46			ppb	100	B08NH8	ASTM D-4327-88
299-W18-33	Heptachlor	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	Heptachlor epoxide	7/01/93	17	0			U	ppb	1	B08NH8	SW-846 8080
299-W18-33	Iron	7/01/93	34	2500	1120			ppb	20	B08NH8	SW-846 6010
299-W18-33	Iron, filtered	7/01/93	34	34	15	Y		ppb	20	B08NH9	SW-846 6010
299-W18-33	Lead	7/01/93	40	1	0		L	ppb	5	B08NH8	SW-846 7421
299-W18-33	Lead, filtered	7/01/93	40	1		Y	U	ppb	5	B08NH9	SW-846 7421
299-W18-33	Magnesium	7/01/93	34	6700	3520			ppb	100	B08NH8	SW-846 6010
299-W18-33	Magnesium, filtered	7/01/93	34	6300	3310	Y		ppb	100	B08NH9	SW-846 6010
299-W18-33	Manganese	7/01/93	34	280	78			ppb	10	B08NH8	SW-846 6010
299-W18-33	Manganese, filtered	7/01/93	34	210	59	Y		ppb	10	B08NH9	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-33	Mercury	7/01/93	41	0			U	ppb	0	B08NH8	SW-846 7470
299-W18-33	Mercury, filtered	7/01/93	41	0		Y	U	ppb	0	B08NH9	SW-846 7470
299-W18-33	Methoxychlor	7/01/93	17	0			U	ppb	2	B08NH8	SW-846 8080
299-W18-33	Methyl parathion	7/01/93	29	0			U	ppb	1	B08NH8	SW-846 8140
299-W18-33	Nickel	7/01/93	34	18			U	ppb	30	B08NH8	SW-846 6010
299-W18-33	Nickel, filtered	7/01/93	34	18		Y	U	ppb	30	B08NH9	SW-846 6010
299-W18-33	Nitrate	7/01/93	124	2400	208			ppb	200	B08NH8	ASTM D-4327-88
299-W18-33	Nitrite	7/01/93	124	38			U	ppb	200	B08NH8	ASTM D-4327-88
299-W18-33	Phorate	7/01/93	29	0			U	ppb	2	B08NH8	SW-846 8140
299-W18-33	Phosphate	7/01/93	124	147			U	ppb	400	B08NH8	ASTM D-4327-88
299-W18-33	Phosphate	7/01/93	124	147			U	ppb	500	B08NH8	ASTM D-4327-88
299-W18-33	Plutonium-238	7/01/93	146	-0	0		U	pCi/L	0	B08NH8	ITAS Isotopic Pu
299-W18-33	Plutonium-239/40	7/01/93	146	0	0		U	pCi/L	0	B08NH8	ITAS Isotopic Pu
299-W18-33	Potassium	7/01/93	34	3900	3730			ppb	300	B08NH8	SW-846 6010
299-W18-33	Potassium	7/01/93	34	3900	3730			ppb	1000	B08NH8	SW-846 6010
299-W18-33	Potassium, filtered	7/01/93	34	3600	3450	Y		ppb	300	B08NH9	SW-846 6010
299-W18-33	Potassium, filtered	7/01/93	34	3600	3450	Y		ppb	1000	B08NH9	SW-846 6010
299-W18-33	Selenium	7/01/93	48	1			U	ppb	10	B08NH8	SW-846 7740
299-W18-33	Selenium, filtered	7/01/93	48	1		Y	U	ppb	10	B08NH9	SW-846 7740
299-W18-33	Silver	7/01/93	34	3			U	ppb	20	B08NH8	SW-846 6010
299-W18-33	Silver, filtered	7/01/93	34	3		Y	U	ppb	20	B08NH9	SW-846 6010
299-W18-33	Sodium	7/01/93	34	21000	6550			ppb	300	B08NH8	SW-846 6010
299-W18-33	Sodium, filtered	7/01/93	34	21000	6550	Y		ppb	300	B08NH9	SW-846 6010
299-W18-33	Specific conductance	7/01/93	73	150				umhos		B08NH8	ASTM D-1125-A
299-W18-33	Strontium-90	7/01/93	141	-0	0		U	pCi/L	5	B08NH8	ITAS Sr-90
299-W18-33	Sulfate	7/01/93	124	19000	923			ppb	500	B08NH8	ASTM D-4327-88
299-W18-33	Sulfide	7/01/93	63	600	194		LB	ppb	10000	B08NH8	SW-846 9030
299-W18-33	Thallium	7/01/93	42	1			U	ppb	5	B08NH8	SW-846 7841
299-W18-33	Thallium, filtered	7/01/93	42	1		Y	U	ppb	5	B08NH9	SW-846 7841
299-W18-33	Tin	7/01/93	34	51			U	ppb	100	B08NH8	SW-846 6010
299-W18-33	Tin, filtered	7/01/93	34	51		Y	U	ppb	100	B08NH9	SW-846 6010
299-W18-33	Total Organic Carbon	7/01/93	122	500			BL	ppb	1000	B08NH8	SW-846 9060

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	1,1,1,2-Tetrachloroethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,1,1,2-Tetrachloroethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1,1-Trichloroethane	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	1,1,1-Trichloroethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,1,1-Trichloroethane	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	1,1,1-Trichloroethane	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,1,1-Trichloroethane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1,2,2-Tetrachloroethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,1,2,2-Tetrachloroethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1,2-Trichloroethane	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	1,1,2-Trichloroethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,1,2-Trichloroethane	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	1,1,2-Trichloroethane	5/06/93	16	0			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,1,2-Trichloroethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1-Dichloroethane	1/02/90	45	5	2		U	ppb		H0009ZS8	
299-W19-1	1,1-Dichloroethane	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	1,1-Dichloroethane	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,1-Dichloroethane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1-Dichloroethene	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,1-Dichloroethene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,1-Dimethylhydrazine	1/02/90	38	10	4		U	ppb		H0009ZS8	
299-W19-1	1,2,3,4-tetrachlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,2,3,4-tetrachlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,2,3,5-tetrachlorobenzene	6/10/87	19	10			U	ppb		H0009ZS2	SW-846 8270
299-W19-1	1,2,3,5-tetrachlorobenzene	1/02/90	19	10	4		U	ppb		H0009ZS8	SW-846 8270
299-W19-1	1,2,3-Trichloropropane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,2,3-Trichloropropane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2,3-trichlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,2,3-trichlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,2,4,5-Tetrachlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,2,4,5-Tetrachlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W18-33	Total Organic Halogen	7/01/93	67	8			U	ppb	10	B08NH8	SW-846 9020
299-W18-33	Toxaphene	7/01/93	17	1			U	ppb	2	B08NH8	SW-846 8080
299-W18-33	Uranium-234	7/01/93	148	2	0			pCi/L	0	B08NH8	ITAS Isotopic U
299-W18-33	Uranium-235	7/01/93	148	0	0			pCi/L	0	B08NH8	ITAS Isotopic U
299-W18-33	Uranium-238	7/01/93	148	2	0			pCi/L	0	B08NH8	ITAS Isotopic U
299-W18-33	Vanadium	7/01/93	34	4			U	ppb	30	B08NH8	SW-846 6010
299-W18-33	Vanadium, filtered	7/01/93	34	4		Y	U	ppb	30	B08NH9	SW-846 6010
299-W18-33	Zinc	7/01/93	34	150	47			ppb	10	B08NH8	SW-846 6010
299-W18-33	Zinc, filtered	7/01/93	34	3		Y	U	ppb	10	B08NH9	SW-846 6010
299-W18-33	gamma-BHC (Lindane)	7/01/93	17	0			U	ppb	0	B08NH8	SW-846 8080
299-W18-33	pH	7/01/93	125	8				pH		B08NH8	ASTM D-1293

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Upgradient Groundwater Data for Well 299-W19-1

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	1,2,4-Trichlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,2,4-Trichlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,2-Dibromo-3-chloropropane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,2-Dibromo-3-chloropropane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2-Dibromoethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,2-Dibromoethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2-Dichlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,2-Dichlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,2-Dichloroethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,2-Dichloroethane	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	1,2-Dichloroethane	5/06/93	16	0			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,2-Dichloroethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2-Dichloroethene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,2-Dichloroethene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2-Dichloropropane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	1,2-Dichloropropane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	1,2-Dimethylhydrazine	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	1,2-Diphenylhydrazine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,3,5-trichlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,3,5-trichlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,3-Dichlorobenzene	6/10/87	20	10			U	ppb		H0009ZS2	
299-W19-1	1,3-Dichlorobenzene	1/02/90	20	10	4		U	ppb		H0009ZS8	
299-W19-1	1,3-Dichloropropene	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	1,4-Dichlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	1,4-Dichlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1,4-Dichlorobenzene	1/02/90	24	5	2		U	ppb		H0009ZS8	
299-W19-1	1,4-Dichlorobenzene	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	1,4-Dichlorobenzene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	1,4-Dioxane	1/02/90	16	500	175		U	ppb	200	H0009ZS8	SW-846 8240
299-W19-1	1,4-Dioxane	8/05/93	16	44			U	ppb	200	B08MQ5	SW-846 8240
299-W19-1	1,4-Naphtoquinone	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1-(o-Chlorophenyl)thiourea	1/02/90	18	200	60		U	ppb		H0009ZS8	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	1-Acetyl-2-thiourea	1/02/90	18	200	40		U	ppb		H0009ZS8	
299-W19-1	1-Butanol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	1-Butanol	2/26/92	16	1000			U	ppb	1000	B01VX8	SW-846 8240
299-W19-1	1-Butanol	5/06/93	16	13			U	ppb	1000	B08HR5	SW-846 8240
299-W19-1	1-Butanol	8/05/93	16	13			U	ppb	1000	B08MQ5	SW-846 8240
299-W19-1	1-Chloro-2,3-epoxypropane	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1-Naphthyl-2-thiourea	1/02/90	18	200	60		U	ppb		H0009ZS8	
299-W19-1	1-Naphthylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	1-Propanol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	2,3,4,6-Tetrachlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,3,7,8-TCDD	1/02/90	51	0	0		U	ppb	0	H0009ZS8	SW-846 8280
299-W19-1	2,4,5-T	1/02/90	49	2	0		U	ppb	2	H0009ZS8	SW-846 8150
299-W19-1	2,4,5-TP	1/02/90	49	2	0		U	ppb	2	H0009ZS8	SW-846 8150
299-W19-1	2,4,5-Trichlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,4,6-Trichlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,4-D	1/02/90	49	2	0		U	ppb	10	H0009ZS8	SW-846 8150
299-W19-1	2,4-Dichlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,4-Dinitrophenol	1/02/90	72	10	4		U	ppb		H0009ZS8	
299-W19-1	2,4-Dinitrotoluene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,6-Dichlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2,6-Dinitrotoluene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Acetylaminofluorene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Chloroethyl vinyl ether	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	2-Chloronaphthalene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Chlorophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Cyclohexyl-4,6-dinitrophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Hexanone	1/02/90	16	50	18		U	ppb	50	H0009ZS8	SW-846 8240
299-W19-1	2-Hexanone	8/05/93	16	1			U	ppb	50	B08MQ5	SW-846 8240
299-W19-1	2-Methylaziridine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Methylactonitrile	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Methylnaphthalene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Naphthylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	

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Upgradient Groundwater Data for Well 299-W19-1

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	2-Picoline	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	2-Propyn-1-ol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	2-methyl-2-(methylthio) propionaldehyde-	1/02/90	76	10	4		U	ppb		H0009ZS8	
299-W19-1	2-sec-Butyl-4,6-dinitrophenol (DNBP)	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	3,3'-Dichlorobenzidine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	3,3'-Dimethoxybenzidine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	3,3'-Dimethylbenzidine	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270
299-W19-1	3,3'-Dimethylbenzidine	1/02/90	19	10	4		U	ppb	50	H0009ZS8	SW-846 8270
299-W19-1	3-Chloropropionitrile	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	3-Methylcholanthrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	3-Nitroaniline	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4,4'-DDD	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	4,4'-DDD	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	4,4'-DDE	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	4,4'-DDE	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	4,4'-DDT	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	4,4'-DDT	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	4,4'-Methylenebis(2-chloroaniline)	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4,6-Dinitro-2-methylphenol	1/02/90	72	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Aminobiphenyl	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Bromophenylphenyl ether	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Chloro-3-methylphenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Chloroaniline	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Methyl-2-pentanone	1/02/90	16	10	4		U	ppb	50	H0009ZS8	SW-846 8240
299-W19-1	4-Methyl-2-pentanone	2/26/92	16	50			U	ppb	50	B01VX8	SW-846 8240
299-W19-1	4-Methyl-2-pentanone	5/06/93	16	1			U	ppb	50	B08HR5	SW-846 8240
299-W19-1	4-Methyl-2-pentanone	8/05/93	16	1			U	ppb	50	B08MQ5	SW-846 8240
299-W19-1	4-Nitroaniline	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Nitrophenol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	4-Nitroquinoline-1-oxide	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	5-(Aminomethyl)-3-isoxazolol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	5-Nitro-o-toluidine	1/02/90	21	10	4		U	ppb		H0009ZS8	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	7,12-Dimethylbenz[a]anthracene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	7H-Dibenzo[c,g]carbazole	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Acenaphthene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Acenaphthylene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Acetone	1/02/90	16	10	4		U	ppb	100	H0009ZS8	SW-846 8240
299-W19-1	Acetone	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Acetone	2/26/92	16	100			U	ppb	100	B01VX8	SW-846 8240
299-W19-1	Acetone	5/06/93	16	13			U	ppb	100	B08HR5	SW-846 8240
299-W19-1	Acetone	8/05/93	16	13			U	ppb	100	B08MQ5	SW-846 8240
299-W19-1	Acetonitrile	1/02/90	16	10	4		U	ppb	200	H0009ZS8	SW-846 8240
299-W19-1	Acetonitrile	8/05/93	16	19			U	ppb	200	B08MQ5	SW-846 8240
299-W19-1	Acetophenone	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Acrolein	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Acrolein	8/05/93	16	10			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Acrylamide	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Acrylonitrile	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Acrylonitrile	8/05/93	16	4			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Aldrin	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Aldrin	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Alkalinity	6/10/87	53	108000				ppb		H0009ZS2	
299-W19-1	Alkalinity	8/05/93	357	90				ppm	50	B08MQ5	EPA 600. 310.2
299-W19-1	Allyl alcohol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Alpha, alpha-Dimethylphenethylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Alpha-BHC	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Alpha-BHC	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Aluminum	6/10/87	34	150		Y	U	ppb	200	H0009ZS2	SW-846 6010
299-W19-1	Aluminum	1/02/90	35	14700	1880			ppb		H0009ZS8	
299-W19-1	Aluminum	5/06/93	34	25000				ppb	200	B08HR5	SW-846 6010
299-W19-1	Americium-241	2/26/92	147	1	0			pCi/L	0	B01VX8	ITAS Am-241
299-W19-1	Americium-241	8/05/93	147	-0	0		U	pCi/L	0	B08MQ5	ITAS Am-241
299-W19-1	Amitrole	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Ammonium ion	6/10/87	54	50			U	ppb	100	H0009ZS2	ASTM D-1426-D

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299-W19-1	Ammonium ion	1/02/90	54	79	10			ppb	100	H0009ZS8	ASTM D-1426-D
299-W19-1	Aniline	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Anthracene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Antimony	1/02/90	35	100	14		U	ppb		H0009ZS8	
299-W19-1	Antimony	5/06/93	34	69			U	ppb	200	B08HR5	SW-846 6010
299-W19-1	Antimony, filtered	6/10/87	34	100		Y	U	ppb	200	H0009ZS2	SW-846 6010
299-W19-1	Antimony-125	8/05/93	140	15	19		U	pCi/L		B08MQ5	ITAS Gamma Scan
299-W19-1	Aramite	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1016	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1016	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1221	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1221	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1232	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1232	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1242	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1242	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1248	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1248	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1254	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1254	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Aroclor-1260	1/02/90	33	1	0		U	ppb		H0009ZS8	
299-W19-1	Aroclor-1260	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Arsenic	1/02/90	43	5	3		U	ppb	5	H0009ZS8	SW-846 7060
299-W19-1	Arsenic	8/05/93	43	16	13			ppb	5	B08MQ5	SW-846 7060
299-W19-1	Arsenic, filtered	6/10/87	76	6		Y		ppb		H0009ZS2	
299-W19-1	Auramine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Barium	1/02/90	35	222	23			ppb		H0009ZS8	
299-W19-1	Barium	5/06/93	34	250	1			ppb	20	B08HR5	SW-846 6010
299-W19-1	Barium, filtered	6/10/87	34	16		Y		ppb	20	H0009ZS2	SW-846 6010
299-W19-1	Benz[c]acridine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzene	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Benzene	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Benzene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Benzene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Benzene, dichloromethyl-	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzenethiol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzidine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(a)anthracene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(a)pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(b)fluoranthene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(ghi)perylene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(j)fluoranthene	1/02/90		10	4		U	ppb		H0009ZS8	
299-W19-1	Benzo(k)fluoranthene	1/02/90		10	4		U	ppb		H0009ZS8	
299-W19-1	Benzyl alcohol	1/02/90		10	4		U	ppb		H0009ZS8	
299-W19-1	Benzyl chloride	1/02/90		10	4		U	ppb		H0009ZS8	
299-W19-1	Beryllium	1/02/90	35	5	1		U	ppb		H0009ZS8	
299-W19-1	Beryllium	5/06/93	34	1			U	ppb	3	B08HR5	SW-846 6010
299-W19-1	Beryllium, filtered	6/10/87	34	5		Y	U	ppb	3	H0009ZS2	SW-846 6010
299-W19-1	Beta-BHC	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Beta-BHC	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Bis(2-Chloroethoxy)methane	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Bis(2-chloro-1-methylethyl)ether	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Bis(2-chloroethyl) ether	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Bis(2-chloroisopropyl) ether	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Bis(2-ethylhexyl) phthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Bis(chloromethyl) ether	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Boron	1/02/90	35	40	7			ppb		H0009ZS8	
299-W19-1	Bromide	1/02/90	46	1000	111		U	ppb		H0009ZS8	EPA 300.0
299-W19-1	Bromide	12/03/91	124	500			U	ppb	500	B00N02	ASTM D-4327-88
299-W19-1	Bromide	2/26/92	124	500			U	ppb	500	B01VX8	ASTM D-4327-88
299-W19-1	Bromide	5/05/92	124	500			U	ppb	500	B06DX7	ASTM D-4327-88
299-W19-1	Bromide	5/06/93	124	53			U	ppb	500	B08HR5	ASTM D-4327-88
299-W19-1	Bromoacetone	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Bromodichloromethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240

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299-W19-1	Bromodichloromethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Bromoform	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Bromoform	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Butylbenzylphthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Cadmium	1/02/90	35	94	10			ppb		H0009ZS8	
299-W19-1	Cadmium	5/06/93	34	5			U	ppb	10	B08HR5	SW-846 6010
299-W19-1	Cadmium, filtered	6/10/87	34	2		Y	U	ppb	10	H0009ZS2	SW-846 6010
299-W19-1	Calcium	1/02/90	35	22600	2900			ppb		H0009ZS8	
299-W19-1	Calcium	5/06/93	34	43000	13000			ppb	100	B08HR5	SW-846 6010
299-W19-1	Calcium, filtered	6/10/87	34	16900		Y		ppb	100	H0009ZS2	SW-846 6010
299-W19-1	Carbon disulfide	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Carbon disulfide	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Carbon disulfide	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Carbon tetrachloride	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Carbon tetrachloride	1/02/90	16	7	2			ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Carbon tet. achloride	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Carbon tetrachloride	5/06/93	16	2			L	ppb	5	B08HR5	SW-846 8240
299-W19-1	Carbon tetrachloride	8/05/93	16	4			L	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Carbonphenothion	1/02/90	29	2	1		U	ppb		H0009ZS8	SW-846 8140
299-W19-1	Cesium-137	1/02/90	77	1	3		U	pCi/L		H0009ZS8	
299-W19-1	Cesium-137	8/05/93	140	-6	8		U	pCi/L	20	B08MQ5	ITAS Gamma Scan
299-W19-1	Chlordane	1/02/90	17	1	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Chlordane	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Chloride	6/10/87	46	2270				ppb		H0009ZS2	EPA 300.0
299-W19-1	Chloride	1/02/90	46	4800	489			ppb		H0009ZS8	EPA 300.0
299-W19-1	Chloride	12/03/91	124	5400	1820			ppb	200	B00N02	ASTM D-4327-88
299-W19-1	Chloride	2/26/92	124	7300	2460			ppb	200	B01VX8	ASTM D-4327-88
299-W19-1	Chloride	5/05/92	124	8800	2960			ppb	200	B06DX7	ASTM D-4327-88
299-W19-1	Chloride	5/06/93	124	2000	331			ppb	200	B08HR5	ASTM D-4327-88
299-W19-1	Chlornaphazine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Chloroalkyl ethers	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Chlorobenzene	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240

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299-W19-1	Chlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Chlorobenzene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Chlorobenzilate	1/02/90	17	300	75		U	ppb		H0009ZS8	SW-846 8080
299-W19-1	Chloroethane	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Chloroethane	8/05/93	16	1			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Chloroform	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Chloroform	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Chloroform	2/26/92	16	1			JU	ppb	5	B01VX8	SW-846 8240
299-W19-1	Chloroform	5/06/93	16	1			L	ppb	5	B08HR5	SW-846 8240
299-W19-1	Chloroform	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Chloromethyl methyl ether	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Chloroprene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Chromium	1/02/90	35	149	17			ppb		H0009ZS8	
299-W19-1	Chromium	5/06/93	34	230	60			ppb	20	B08HR5	SW-846 6010
299-W19-1	Chromium, filtered	6/10/87	34	10		Y	U	ppb	20	H0009ZS2	SW-846 6010
299-W19-1	Chrysene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Citrus red No. 2	1/02/90	39	1000	135		U	ppb		H0009ZS8	
299-W19-1	Cobalt	1/02/90	35	20	3		U	ppb		H0009ZS8	
299-W19-1	Cobalt	5/06/93	34	20	4			ppb	20	B08HR5	SW-846 6010
299-W19-1	Cobalt-60	1/02/90	77	0	3		U	pCi/L		H0009ZS8	
299-W19-1	Cobalt-60	8/05/93	140	-6	9		U	pCi/L		B08MQ5	ITAS Gamma Scan
299-W19-1	Coliforms	1/02/90	69	2			U	MPN		H0009ZS8	
299-W19-1	Coliforms	1/02/90	69	2			U	MPN	2	H0009ZS8	SW-846 9131
299-W19-1	Copper	1/02/90	35	38	6			ppb		H0009ZS8	
299-W19-1	Copper	5/06/93	34	50	6			ppb	20	B08HR5	SW-846 6010
299-W19-1	Copper, filtered	6/10/87	34	10		Y	U	ppb	20	H0009ZS2	SW-846 6010
299-W19-1	Cresols (methylphenols)	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Crotonaldehyde	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Cyanide	6/10/87	56	10			U	ppb	20	H0009ZS2	SW-846 9010
299-W19-1	Cyanide	1/02/90	56	10	3		U	ppb	20	H0009ZS8	SW-846 9010
299-W19-1	Cyanide	2/26/92	56	20			U	ppb	20	B01VC7	SW-846 9010
299-W19-1	Delta-BHC	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Delta-BHC	8/05/93	17	0			L	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Di-n-butylphthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Di-n-octylphthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Diallate	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270
299-W19-1	Dibenz(a,j)acridine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenz[a,h]acridine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenz[a,h]anthracene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenzo(a,e)pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenzo[a,h]pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenzo[a,i]pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibenzofuran	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dibromochloromethane	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Dibromochloromethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Dibromomethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Dibromomethane	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Dibutyl Phosphate	1/02/90	57	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Dichlorodifluoromethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Dichlorodifluoromethane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Dieldrin	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Dieldrin	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Diethyl phthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Diethylstilbesterol	1/02/90	18	200	40		U	ppb		H0009ZS8	
299-W19-1	Dihydrosafrole	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dimethoate	1/02/90	29	2	1		U	ppb		H0009ZS8	SW-846 8140
299-W19-1	Dimethyl phthalate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dinoseb	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Diphenylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Dissolved Oxygen	6/10/87	76	5			??			H0009ZS2	
299-W19-1	Dissolved Oxygen	6/10/87	76	6			??			H0009ZS4	
299-W19-1	Dissolved Oxygen	6/10/87	76	6			??			H0009ZS5	
299-W19-1	Dissolved Oxygen	6/10/87	76	7			??			H0009ZS3	
299-W19-1	Disulfoton	1/02/90	29	2	1		U	ppb	2	H0009ZS8	SW-846 8140

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Endosulfan I	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Endosulfan I	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Endosulfan II	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Endosulfan II	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Endosulfan sulfate	1/02/90	17	1	0		U	ppb	1	H0009ZS8	SW-846 8080
299-W19-1	Endosulfan sulfate	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Endrin	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Endrin	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Endrin Aldehyde	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Ethanol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Ethyl carbamate (Urethane)	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Ethyl cyanide	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Ethyl cyanide	5/06/93	16	4			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Ethyl cyanide	5/06/93	16	4			U	ppb	10	B08HR5	SW-846 8240
299-W19-1	Ethyl cyanide	8/05/93	16	4			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Ethyl cyanide	8/05/93	16	4			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Ethyl methacrylate	1/02/90	50	10	4		U	ppb		H0009ZS8	
299-W19-1	Ethyl methacrylate	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Ethyl methanesulfonate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Ethylbenzene	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Ethylbenzene	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Ethylene Glycol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Ethylene oxide	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Ethyleneimine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Ethylenethiourea	1/02/90	18	200	40		U	ppb		H0009ZS8	
299-W19-1	Fluoranthene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Fluorene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Fluoride	12/03/91	124	800	169			ppb	100	B00N02	ASTM D-4327-88
299-W19-1	Fluoride	2/26/92	124	300	63			ppb	100	B01VX8	ASTM D-4327-88
299-W19-1	Fluoride	5/05/92	124	400	84			ppb	100	B06DX7	ASTM D-4327-88
299-W19-1	Fluoride	5/06/93	124	600	39			ppb	100	B08HR5	ASTM D-4327-88
299-W19-1	Fluorine	6/10/87	46	776				ppb		H0009ZS2	EPA 300.0

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299-W19-1	Fluorine	1/02/90	46	500	56		U	ppb		H0009ZS8	EPA 300.0
299-W19-1	Formaldehyde	1/02/90	16	500	175		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Gross alpha	6/10/87	77	6	2			pCi/L		H0009ZS2	
299-W19-1	Gross alpha	1/02/90	77	6	3			pCi/L		H0009ZS8	
299-W19-1	Gross alpha	2/26/92	135	6	3			pCi/L	4	B01VX8	SW-846 9310, Alpha
299-W19-1	Gross alpha	5/05/92	135	2	1		U	pCi/L	4	B06DX7	SW-846 9310, Alpha
299-W19-1	Gross alpha	5/06/93	135	3	2			pCi/L	4	B08HR5	SW-846 9310, Alpha
299-W19-1	Gross beta	3/01/59	77	200				pCi/L		H0009ZP9	
299-W19-1	Gross beta	4/01/59	77	200				pCi/L		H0009ZQ0	
299-W19-1	Gross beta	5/01/59	77	200				pCi/L		H0009ZQ1	
299-W19-1	Gross beta	6/01/59	77	200				pCi/L		H0009ZQ2	
299-W19-1	Gross beta	7/01/59	77	200				pCi/L		H0009ZQ3	
299-W19-1	Gross beta	7/12/66	77	2900				pCi/L		H0009ZS1	
299-W19-1	Gross beta	6/10/87	77	18	5			pCi/L		H0009ZS2	
299-W19-1	Gross beta	1/02/90	77	9	3			pCi/L		H0009ZS8	
299-W19-1	Gross beta	2/26/92	136	19	4			pCi/L	8	B01VX8	SW-846 9310, Beta
299-W19-1	Gross beta	5/05/92	136	4	2		U	pCi/L	8	B06DX7	SW-846 9310, Beta
299-W19-1	Gross beta	5/06/93	136	6	3			pCi/L	8	B08HR5	SW-846 9310, Beta
299-W19-1	Heptachlor	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	Heptachlor	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	Heptachlor epoxide	1/02/90	17	0	0		U	ppb	1	H0009ZS8	SW-846 8080
299-W19-1	Heptachlor epoxide	8/05/93	17	0			U	ppb	1	B08MQ5	SW-846 8080
299-W19-1	Hexachlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	Hexachlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hexachlorobutadiene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hexachlorocyclopentadiene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hexachloroethane	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hexachlorophene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	Hexachlorophene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hexachloropropene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Hydrazine	6/10/87	36	30			U	ppb	30	H0009ZS2	ASTM D-1385
299-W19-1	Hydrazine	1/02/90	36	30	5		U	ppb	30	H0009ZS8	ASTM D-1385

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299-W19-1	Indeno(1,2,3-cd)pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Iodine-129	2/26/92	139	0	0		U	pCi/L	1	B01VC7	ITAS I-129 Low Level
299-W19-1	Iron	1/02/90	35	276000	28000			ppb		H0009ZS8	
299-W19-1	Iron	5/06/93	34	120000	53600			ppb	20	B08HR5	SW-846 6010
299-W19-1	Iron, filtered	6/10/87	34	768		Y		ppb	20	H0009ZS2	SW-846 6010
299-W19-1	Isobutyl alcohol	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Isobutyl alcohol	8/05/93	16	27			U	ppb	200	B08MQ5	SW-846 8240
299-W19-1	Isodrin	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270
299-W19-1	Isophorone	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Isosafrole	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Kepone	1/02/90	17	1	0		U	ppb		H0009ZS8	SW-846 8080
299-W19-1	Kerosene	6/10/87	21	10000			U	ppb		H0009ZS2	
299-W19-1	Kerosene	1/02/90	21	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Lead	1/02/90	76	25	5			ppb		H0009ZS8	
299-W19-1	Lead	8/05/93	40	4	1		L	ppb	5	B08MQ5	SW-846 7421
299-W19-1	Lead, filtered	6/10/87	40	5		Y	U	ppb	5	H0009ZS2	SW-846 7421
299-W19-1	Lithium	1/02/90	35	17	2			ppb		H0009ZS8	
299-W19-1	Magnesium	1/02/90	35	10200	1660			ppb		H0009ZS8	
299-W19-1	Magnesium	5/06/93	34	18000	9450			ppb	100	B08HR5	SW-846 6010
299-W19-1	Magnesium, filtered	6/10/87	34	5260		Y		ppb	100	H0009ZS2	SW-846 6010
299-W19-1	Maleic hydrazide	1/02/90	21	500	175		U	ppb		H0009ZS8	
299-W19-1	Malononitrile	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Manganese	1/02/90	35	3010	304			ppb		H0009ZS8	
299-W19-1	Manganese	5/06/93	34	1300	364			ppb	10	B08HR5	SW-846 6010
299-W19-1	Manganese, filtered	6/10/87	34	15		Y		ppb	10	H0009ZS2	SW-846 6010
299-W19-1	Melphalan	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Mercury	8/05/93	41	0			U	ppb	0	B08MQ5	SW-846 7470
299-W19-1	Mercury, filtered	6/10/87	41	0		Y		ppb	0	H0009ZS2	SW-846 7470
299-W19-1	Methacrylonitrile	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Methacrylonitrile	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Methanethiol	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Methapyrilene	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Metholonyl	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Methoxychlor	1/02/90	17	3	1		U	ppb	2	H0009ZS8	SW-846 8080
299-W19-1	Methoxychlor	8/05/93	17	0			U	ppb	2	B08MQ5	SW-846 8080
299-W19-1	Methyl Iodide	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Methyl Iodide	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Methyl bromide	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Methyl bromide	8/05/93	16	1			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Methyl chloride	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Methyl chloride	8/05/93	16	1			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Methyl ethyl ketone	6/10/87	16	10			U	ppb	100	H0009ZS2	SW-846 8240
299-W19-1	Methyl ethyl ketone	1/02/90	16	10	4		U	ppb	100	H0009ZS8	SW-846 8240
299-W19-1	Methyl ethyl ketone	2/26/92	16	100			U	ppb	100	B01VX8	SW-846 8240
299-W19-1	Methyl ethyl ketone	5/06/93	16	4			U	ppb	100	B08HR5	SW-846 8240
299-W19-1	Methyl ethyl ketone	8/05/93	16	4			U	ppb	100	B08MQ5	SW-846 8240
299-W19-1	Methyl methacrylate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Methyl methacrylate	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Methyl methanesulfonate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Methyl parathion	1/02/90	29	2	1		U	ppb	1	H0009ZS8	SW-846 8140
299-W19-1	Methylene chloride	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Methylene chloride	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Methylene chloride	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Methylene chloride	5/06/93	16	1			BL	ppb	5	B08HR5	SW-846 8240
299-W19-1	Methylene chloride	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Methylthiouracil	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Molybdenum	1/02/90	35	40	5		U	ppb		H0009ZS8	
299-W19-1	Monobutyl Phosphate	1/02/90	57	10000	3500		U	ppb		H0009ZS8	
299-W19-1	N,N-Diethylhydrazine	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	N-Nitroso-N-methylurethane	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitroso-di-n-dipropylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosodi-n-butylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosodiethanolamine	1/02/90	79	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosodiethylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	

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299-W19-1	N-Nitrosodimethylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosodiphenylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosomethylethylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosomethylvinylamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosomorpholine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosornicotine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Nitrosopiperidine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	N-Phenylthiourea	1/02/90	18	500	150		U	ppb		H0009ZS8	
299-W19-1	N-Propylamine	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Naphthalene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	Naphthalene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Nickel	1/02/90	35	78	9			ppb		H0009ZS8	
299-W19-1	Nickel	5/06/93	34	140	37			ppb	30	B08HR5	SW-846 6010
299-W19-1	Nickel, filtered	6/10/87	34	10		Y	U	ppb	30	H0009ZS2	SW-846 6010
299-W19-1	Nicotinic acid	1/02/90	21	100	35		U	ppb		H0009ZS8	
299-W19-1	Nitrate	10/28/57	76	14				ppm		H0009ZP1	
299-W19-1	Nitrate	11/26/57	76	210				ppm		H0009ZP2	
299-W19-1	Nitrate	12/26/57	76	28				ppm		H0009ZP3	
299-W19-1	Nitrate	1/28/58	76	26				ppm		H0009ZP4	
299-W19-1	Nitrate	2/25/58	76	14				ppm		H0009ZP5	
299-W19-1	Nitrate	3/25/58	76	19				ppm		H0009ZP6	
299-W19-1	Nitrate	4/22/58	76	210				ppm		H0009ZP7	
299-W19-1	Nitrate	12/11/58	76	16				ppm		H0009ZP8	
299-W19-1	Nitrate	3/01/59	76	14				ppm		H0009ZP9	
299-W19-1	Nitrate	4/01/59	76	14				ppm		H0009ZQ0	
299-W19-1	Nitrate	5/01/59	76	16				ppm		H0009ZQ1	
299-W19-1	Nitrate	6/01/59	76	16				ppm		H0009ZQ2	
299-W19-1	Nitrate	7/01/59	76	14				ppm		H0009ZQ3	
299-W19-1	Nitrate	12/13/60	76	17				ppm		H0009ZQ4	
299-W19-1	Nitrate	3/21/61	76	18				ppm		H0009ZQ5	
299-W19-1	Nitrate	4/17/61	76	0				ppm		H0009ZQ6	
299-W19-1	Nitrate	4/18/61	76	16				ppm		H0009ZQ7	

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299-W19-1	Nitrate	5/23/61	76	0				ppm		H0009ZQ8	
299-W19-1	Nitrate	6/20/61	76	14				ppm		H0009ZQ9	
299-W19-1	Nitrate	7/11/61	76	17				ppm		H0009ZR0	
299-W19-1	Nitrate	7/18/61	76	8				ppm		H0009ZR1	
299-W19-1	Nitrate	10/17/61	76	13				ppm		H0009ZR2	
299-W19-1	Nitrate	11/21/61	76	10				ppm		H0009ZR3	
299-W19-1	Nitrate	12/19/61	76	5				ppm		H0009ZR4	
299-W19-1	Nitrate	1/08/62	76	12				ppm		H0009ZR5	
299-W19-1	Nitrate	6/25/62	76	12				ppm		H0009ZR6	
299-W19-1	Nitrate	12/10/62	76	16				ppm		H0009ZR7	
299-W19-1	Nitrate	3/05/63	76	1				ppm		H0009ZR8	
299-W19-1	Nitrate	7/09/63	76	11				ppm		H0009ZR9	
299-W19-1	Nitrate	6/10/87	46	1570				ppb		H0009ZS2	EPA 300.0
299-W19-1	Nitrate	1/02/90	46	1300	148			ppb		H0009ZS8	EPA 300.0
299-W19-1	Nitrate	12/03/91	124	200			U	ppb	200	B00N02	ASTM D-4327-88
299-W19-1	Nitrate	2/26/92	124	800	450			ppb	200	B01VX8	ASTM D-4327-88
299-W19-1	Nitrate	5/05/92	124	400	225			ppb	200	B06DX7	ASTM D-4327-88
299-W19-1	Nitrate	5/06/93	124	300	26			ppb	200	B08HR5	ASTM D-4327-88
299-W19-1	Nitrite	1/02/90	55	1000	118		U	ppb		H0009ZS8	
299-W19-1	Nitrite	12/03/91	124	200			U	ppb	200	B00N02	ASTM D-4327-88
299-W19-1	Nitrite	2/26/92	124	200			U	ppb	200	B01VX8	ASTM D-4327-88
299-W19-1	Nitrite	5/05/92	124	200			U	ppb	200	B06DX7	ASTM D-4327-88
299-W19-1	Nitrite	5/06/93	124	38			U	ppb	200	B08HR5	ASTM D-4327-88
299-W19-1	Nitrobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Nitrosopyrrolidine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	O,O,O-Triethyl phosphorothioate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	O,O-diethylO-2-pyrazinylphosphor...	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270
299-W19-1	Osmium, filtered	6/10/87	76	300		Y	U	??		H0009ZS2	
299-W19-1	PCDDs	1/02/90	51	0	0		U	ppb	0	H0009ZS8	SW-846 8280
299-W19-1	PCDFs	1/02/90	51	0	0		U	ppb	0	H0009ZS8	SW-846 8280
299-W19-1	Paraldehyde	1/02/90	28	10000	3500		U	ppb		H0009ZS8	
299-W19-1	Parathion	1/02/90	29	2	1		U	ppb		H0009ZS8	SW-846 8140

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Pentachlorobenzene	6/10/87	21	10			U	ppb		H0009ZS2	
299-W19-1	Pentachlorobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Pentachloroethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Pentachloroethane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Pentachloronitrobenzene (PCNB)	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Pentachlorophenol	1/02/90	21	50	18		U	ppb		H0009ZS8	
299-W19-1	Perchlorate	1/02/90	46	500	52		U	ppb		H0009ZS8	EPA 300.0
299-W19-1	Phenacetin	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Phenanthrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Phenol	6/10/87	32	10			U	ppb		H0009ZS2	
299-W19-1	Phenol	1/02/90	32	10	4		U	ppb		H0009ZS8	
299-W19-1	Phenylenediamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Phorate	1/02/90	29	2	1		U	ppb	2	H0009ZS8	SW-846 8140
299-W19-1	Phosphate	6/10/87	46	1000			U	ppb		H0009ZS2	EPA 300.0
299-W19-1	Phosphate	1/02/90	46	1000	141		U	ppb		H0009ZS8	EPA 300.0
299-W19-1	Phosphate	12/03/91	124	400			U	ppb	400	B00N02	ASTM D-4327-88
299-W19-1	Phosphate	12/03/91	124	400			U	ppb	500	B00N02	ASTM D-4327-88
299-W19-1	Phosphate	2/26/92	124	400			U	ppb	400	B01VX8	ASTM D-4327-88
299-W19-1	Phosphate	2/26/92	124	400			U	ppb	500	B01VX8	ASTM D-4327-88
299-W19-1	Phosphate	5/05/92	124	400			U	ppb	400	B06DX7	ASTM D-4327-88
299-W19-1	Phosphate	5/05/92	124	400			U	ppb	500	B06DX7	ASTM D-4327-88
299-W19-1	Phosphate	5/06/93	124	147			U	ppb	400	B08HR5	ASTM D-4327-88
299-W19-1	Phosphate	5/06/93	124	147			U	ppb	500	B08HR5	ASTM D-4327-88
299-W19-1	Phthalic acid esters	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Plutonium-238	8/05/93	146	-0	0		U	pCi/L	0	B08MQ5	ITAS Isotopic Pu
299-W19-1	Plutonium-239/40	8/05/93	146	0	0		U	pCi/L	0	B08MQ5	ITAS Isotopic Pu
299-W19-1	Potassium	1/02/90	35	6670	763			ppb		H0009ZS8	
299-W19-1	Potassium	5/06/93	34	7000	6600			ppb	300	B08HR5	SW-846 6010
299-W19-1	Potassium	5/06/93	34	7000	6600			ppb	1000	B08HR5	SW-846 6010
299-W19-1	Potassium, filtered	6/10/87	34	2890		Y		ppb	300	H0009ZS2	SW-846 6010
299-W19-1	Potassium, filtered	6/10/87	34	2890		Y		ppb	1000	H0009ZS2	SW-846 6010
299-W19-1	Pronamide	1/02/90	21	10	4		U	ppb		H0009ZS8	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Propionitrile	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Pyrene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Pyridine	1/02/90	16	500	175		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Radium	1/02/90	77	1	0			pCi/L		H0009ZS8	
299-W19-1	Reserpine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Resorcinol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Ruthenium-106	1/02/90	77	-15	38		U	pCi/L		H0009ZS8	
299-W19-1	Ruthenium-106	8/05/93	140	-40	57		U	pCi/L		B08MQ5	ITAS Gamma Scan
299-W19-1	Safrol	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Selenium	1/02/90	76	5	3		U	ppb		H0009ZS8	
299-W19-1	Selenium	8/05/93	48	1			U	ppb		H0009ZS8	
299-W19-1	Selenium, filtered	6/10/87	48	5		Y	U	ppb	10	B08MQ5	SW-846 7740
299-W19-1	Silicon	1/02/90	35	35900	6090		U	ppb	10	H0009ZS2	SW-846 7740
299-W19-1	Silver	1/02/90	35	10	2		U	ppb		H0009ZS8	
299-W19-1	Silver	5/06/93	34	3			U	ppb		H0009ZS8	
299-W19-1	Silver, filtered	6/10/87	34	10		Y	U	ppb	20	B08HR5	SW-846 6010
299-W19-1	Sodium	3/01/59	76	20				??	20	H0009ZS2	SW-846 6010
299-W19-1	Sodium	4/01/59	76	21				??		H0009ZP9	
299-W19-1	Sodium	5/01/59	76	23				??		H0009ZQ0	
299-W19-1	Sodium	6/01/59	76	15				??		H0009ZQ1	
299-W19-1	Sodium	7/01/59	76	17				??		H0009ZQ2	
299-W19-1	Sodium	1/02/90	35	39900	4460			ppb		H0009ZQ3	
299-W19-1	Sodium	5/06/93	34	25000	7800			ppb		H0009ZS8	
299-W19-1	Sodium, filtered	6/10/87	34	25000		Y		ppb	300	B08HR5	SW-846 6010
299-W19-1	Specific conductance	6/10/87	76	268				ppb	300	H0009ZS2	SW-846 6010
299-W19-1	Specific conductance	6/10/87	76	270				umhos		H0009ZS2	
299-W19-1	Specific conductance	6/10/87	76	270				umhos		H0009ZS3	
299-W19-1	Specific conductance	6/10/87	76	271				umhos		H0009ZS4	
299-W19-1	Specific conductance	1/02/90	73	251	26			umhos		H0009ZS5	
299-W19-1	Specific conductance	1/02/90	76	227				umhos		H0009ZS8	ASTM D-1125-A
299-W19-1	Specific conductance	12/03/91	94	223				umhos	1	B00N02	Probe. Conductivity
299-W19-1	Specific conductance	2/26/92	73	290				umhos		B01VX8	ASTM D-1125-A

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
F-69	299-W19-1	Specific conductance	2/26/92	94	297			umhos	1	B01VX8	Probe, Conductivity
	299-W19-1	Specific conductance	5/05/92	94	280			umhos	1	B06DX7	Probe, Conductivity
	299-W19-1	Specific conductance	5/06/93	73	220			umhos		B08HR5	ASTM D-1125-A
	299-W19-1	Specific conductance	5/06/93	94	553			umhos	1	B08HR5	Probe, Conductivity
	299-W19-1	Specific conductance	8/05/93	73	210			umhos		B08MQ5	ASTM D-1125-A
	299-W19-1	Strontium	1/02/90	35	101	13		ppb		H0009ZS8	
	299-W19-1	Strontium, filtered	6/10/87	34	300		Y	ppb		H0009ZS2	SW-846 6010
	299-W19-1	Strontium-90	2/26/88	77	0	1		pCi/L		H0009ZS6	
	299-W19-1	Strontium-90	9/27/88	77	-1	1		pCi/L		H0009ZS7	
	299-W19-1	Strontium-90	1/02/90	77	-0	1		pCi/L		H0009ZS8	
	299-W19-1	Strychnine	1/02/90	21	50	18		ppb		H0009ZS8	
	299-W19-1	Styrene	1/02/90	16	5	2		ppb	5	H0009ZS8	SW-846 8240
	299-W19-1	Styrene	8/05/93	16	0			ppb	5	B08MQ5	SW-846 8240
	299-W19-1	Sulfate	6/10/87	46	16600			ppb		H0009ZS2	EPA 300.0
	299-W19-1	Sulfate	1/02/90	46	39200	3970		ppb		H0009ZS8	EPA 300.0
	299-W19-1	Sulfate	12/03/91	124	20000	19300		ppb	500	B00N02	ASTM D-4327-88
	299-W19-1	Sulfate	2/26/92	124	34000	32800		ppb	500	B01VX8	ASTM D-4327-88
	299-W19-1	Sulfate	5/05/92	124	55000	53100		ppb	500	B06DX7	ASTM D-4327-88
	299-W19-1	Sulfate	5/06/93	124	16000	778		ppb	500	B08HR5	ASTM D-4327-88
	299-W19-1	Sulfide	1/02/90	63	1000	208		ppb	10000	H0009ZS8	SW-846 9030
	299-W19-1	Sulfide	8/05/93	63	400	130		ppb	10000	B08MQ5	SW-846 9030
	299-W19-1	Technetium-99	2/26/88	77	24	9		pCi/L		H0009ZS6	
	299-W19-1	Technetium-99	9/27/88	77	47	12		pCi/L		H0009ZS7	
	299-W19-1	Technetium-99	1/02/90	77	30	9		pCi/L		H0009ZS8	
	299-W19-1	Technetium-99	2/26/92	143	2	2		pCi/L	15	B01VC7	ITAS Tc-99
	299-W19-1	Technetium-99	8/05/93	143	3	2		pCi/L	15	B08MQ5	ITAS Tc-99
	299-W19-1	Temperature, field	12/16/76	170	17			DegC	0	H000G9H9	Probe, temperature
	299-W19-1	Temperature, field	1/11/80	170	17			DegC	0	H000G9J0	Probe, temperature
	299-W19-1	Temperature, field	6/10/87	170	18			DegC	0	H000GRD8	Probe, temperature
	299-W19-1	Temperature, field	1/02/90	170	15			DegC	0	H000GPS9	Probe, temperature
	299-W19-1	Temperature, field	12/03/91	170	16			DegC	0	B00N02	Probe, temperature
	299-W19-1	Temperature, field	2/26/92	170	13			DegC	0	B01VX8	Probe, temperature

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Temperature, field	5/05/92	170	18				DegC	0	B06DX7	Probe, temperature
299-W19-1	Temperature, field	5/06/93	170	17				DegC	0	B08HR5	Probe, temperature
299-W19-1	Tetrachloroethene	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Tetrachloroethene	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Tetrachloroethene	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Tetrachloroethene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Tetrachloroethene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Tetraethylpyrophosphate	1/02/90	29	2	1		U	ppb		H0009ZS8	SW-846 8140
299-W19-1	Tetrahydrofuran	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Tetrahydrofuran	2/26/92	16	10			U	ppb	10	B01VX8	SW-846 8240
299-W19-1	Tetrahydrofuran	5/06/93	16	4			U	ppb	10	B08HR5	SW-846 8240
299-W19-1	Tetrahydrofuran	8/05/93	16	4			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Thallium	1/02/90	76	5	3		U	ppb		H0009ZS8	
299-W19-1	Thallium	8/05/93	42	1			U	ppb	5	B08MQ5	SW-846 7841
299-W19-1	Thiofanox	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Thiourea	1/02/90	18	200	40		U	ppb		H0009ZS8	
299-W19-1	Thiuram	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Tin	1/02/90	35	30	6		U	ppb		H0009ZS8	
299-W19-1	Tin	5/06/93	34	51			U	ppb	100	B08HR5	SW-846 6010
299-W19-1	Titanium	1/02/90	35	1370	207			ppb		H0009ZS8	
299-W19-1	Toluene	1/02/90	16	13	3			ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Toluene	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Toluene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Toluene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Toluenediamine	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Total Carbon	1/02/90	127	15800	1700			ppb	2000	H0009ZS8	ASTM D-2579-A
299-W19-1	Total Organic Carbon	6/10/87	66	620			U	ppb		H0009ZS2	
299-W19-1	Total Organic Carbon	1/02/90	66	500	66		U	ppb		H0009ZS8	
299-W19-1	Total Organic Carbon	2/26/92	122	1000			U	ppb	1000	B01VX8	SW-846 9060
299-W19-1	Total Organic Carbon	5/06/93	122	500			L	ppb	1000	B08HR5	SW-846 9060
299-W19-1	Total Organic Halogen	6/10/87	67	7			U	ppb	10	H0009ZS2	SW-846 9020
299-W19-1	Total Organic Halogen	1/02/90	67	13	4			ppb	10	H0009ZS8	SW-846 9020

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299-W19-1	Total Organic Halogen	2/26/92	67	10				ppb	10	B01VX8	SW-846 9020
299-W19-1	Total Organic Halogen	2/26/92	67	20				ppb	10	B01VX8	SW-846 9020
299-W19-1	Total Organic Halogen	5/06/93	67	8			U	ppb	10	B08HR5	SW-846 9020
299-W19-1	Toxaphene	1/02/90	37	1	0		U	ppb		H0009ZS8	
299-W19-1	Toxaphene	8/05/93	17	1			U	ppb	2	B08MQ5	SW-846 8080
299-W19-1	Tributylphosphoric Acid	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Trichloroethene	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Trichloroethene	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Trichloroethene	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Trichloroethene	5/06/93	16	1			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Trichloroethene	8/05/93	16	1			L	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Trichloromethanethiol	1/02/90	16	10	4		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Trichloromonofluoromethane	1/02/90	16	10	4		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Trichloromonofluoromethane	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Tris(2,3-dibromopropyl) phosphate	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Tritium	2/08/66	77	6800				pCi/L		H0009ZS0	
299-W19-1	Tritium	6/10/87	77	222	302		U	pCi/L		H0009ZS2	
299-W19-1	Tritium	1/02/90	77	125	223		U	pCi/L		H0009ZS8	
299-W19-1	Tritium	12/03/91	142	-17	282		U	pCi/L	500	B00N02	ITAS H-3
299-W19-1	Tritium	2/26/92	142	330	214		U	pCi/L	500	B01VX8	ITAS H-3
299-W19-1	Tritium	5/05/92	142	113	231		U	pCi/L	500	B06DX7	ITAS H-3
299-W19-1	Tritium	5/06/93	142	-95	225		U	pCi/L	500	B08HR5	ITAS H-3
299-W19-1	Turbidity	1/02/90	76	200	31			NTU		H0009ZS8	
299-W19-1	Uranium	1/02/90	77	4	1			pCi/L		H0009ZS8	
299-W19-1	Uranium	2/26/92	145	2	0			ppb	1	B01VX8	ITAS Gross U
299-W19-1	Uranium	5/05/92	145	1	1			ppb	1	B06DX7	ITAS Gross U
299-W19-1	Uranium	5/06/93	145	2	1			ppb	1	B08HR5	ITAS Gross U
299-W19-1	Uranium-234	8/05/93	148	2	0			pCi/L	0	B08MQ5	ITAS Isotopic U
299-W19-1	Uranium-235	8/05/93	148	0	0			pCi/L	0	B08MQ5	ITAS Isotopic U
299-W19-1	Uranium-238	8/05/93	148	2	0			pCi/L	0	B08MQ5	ITAS Isotopic U
299-W19-1	Vanadium	1/02/90	35	145	18			ppb		H0009ZS8	
299-W19-1	Vanadium	5/06/93	34	110	23			ppb	30	B08HR5	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	Vanadium, filtered	6/10/87	34	36		Y		ppb	30	H0009ZS2	SW-846 6010
299-W19-1	Vinyl acetate	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Vinyl acetate	8/05/93	16	0			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Vinyl chloride	1/02/90	16	10	4		U	ppb	10	H0009ZS8	SW-846 8240
299-W19-1	Vinyl chloride	2/26/92	16	10			U	ppb	10	B01VX8	SW-846 8240
299-W19-1	Vinyl chloride	5/06/93	16	1			U	ppb	10	B08HR5	SW-846 8240
299-W19-1	Vinyl chloride	8/05/93	16	1			U	ppb	10	B08MQ5	SW-846 8240
299-W19-1	Warfarin	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	Xylenes	6/10/87	16	10			U	ppb		H0009ZS2	SW-846 8240
299-W19-1	Xylenes	1/02/90	16	5	2		U	ppb		H0009ZS8	SW-846 8240
299-W19-1	Xylenes (total)	6/10/87	16	10			U	ppb	5	H0009ZS2	SW-846 8240
299-W19-1	Xylenes (total)	1/02/90	16	5	2		U	ppb	5	H0009ZS8	SW-846 8240
299-W19-1	Xylenes (total)	2/26/92	16	5			U	ppb	5	B01VX8	SW-846 8240
299-W19-1	Xylenes (total)	5/06/93	16	2			U	ppb	5	B08HR5	SW-846 8240
299-W19-1	Xylenes (total)	8/05/93	16	2			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	Zinc	1/02/90	35	127	21			ppb		H0009ZS8	
299-W19-1	Zinc	5/06/93	34	180	56			ppb	10	B08HR5	SW-846 6010
299-W19-1	Zinc, filtered	6/10/87	34	5		Y	U	ppb	10	H0009ZS2	SW-846 6010
299-W19-1	Zirconium	1/02/90	35	50	7		U	ppb		H0009ZS8	
299-W19-1	allylchloride	1/02/90	16	100	35		U	ppb	100	H0009ZS8	SW-846 8240
299-W19-1	allylchloride	8/05/93	16	1			U	ppb	100	B08MQ5	SW-846 8240
299-W19-1	cis-1,3-Dichloropropene	8/05/93	16	1			U	ppb	5	B08MQ5	SW-846 8240
299-W19-1	gamma-BHC (Lindane)	1/02/90	17	0	0		U	ppb	0	H0009ZS8	SW-846 8080
299-W19-1	gamma-BHC (Lindane)	8/05/93	17	0			U	ppb	0	B08MQ5	SW-846 8080
299-W19-1	m-dinitrobenzene	1/02/90	19	10	4		U	ppb	10	H0009ZS8	SW-846 8270
299-W19-1	o-Nitroaniline	1/02/90	74	10	4		U	ppb		H0009ZS8	
299-W19-1	o-Nitroaniline	1/02/90	76	10	4		U	ppb		H0009ZS8	
299-W19-1	o-Toluidine hydrochloride	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	p-Benzoquinone	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	p-Dimethylaminoazobenzene	1/02/90	21	10	4		U	ppb		H0009ZS8	
299-W19-1	pH	6/10/87	75	8						H0009ZS2	
299-W19-1	pH	6/10/87	76	8						H0009ZS3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	1.1.1.2-Tetrachloroethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1.1.1.2-Tetrachloroethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1.1.1.2-Tetrachloroethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	1.1.1-Trichloroethane	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	1.1.2.2-Tetrachloroethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1.1.2.2-Tetrachloroethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1.1.2.2-Tetrachloroethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	1.1.2-Trichloroethane	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	1.1-Dichloroethane	1/22/88	45	10			U	ppb		H000B1Q3	
299-W19-21	1.1-Dichloroethane	8/19/88	45	10			U	ppb		H000B1Q6	
299-W19-21	1.1-Dichloroethane	11/02/89	45	5	2		U	ppb		H000B1R0	
299-W19-21	1.1-Dichloroethane	4/04/90	45	5	2		U	ppb		H000B1R1	
299-W19-21	1.1-Dichloroethane	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240

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Upgradient Groundwater Data for Well 299-W19-1

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-1	pH	6/10/87	76	8						H0009ZS4	
299-W19-1	pH	6/10/87	76	8						H0009ZS5	
299-W19-1	pH	6/10/87	76	8						H0009ZS2	
299-W19-1	pH	1/02/90	75	9	0					H0009ZS8	
299-W19-1	pH	1/02/90	76	9						H0009ZS8	
299-W19-1	pH	12/03/91	93	9							
299-W19-1	pH	2/26/92	125	10				pH	0	B00N02	Probe, pH
299-W19-1	pH	2/26/92	93	9						B01VX8	ASTM D-1293
299-W19-1	pH	5/05/92	93	9					0	B01VX8	Probe, pH
299-W19-1	pH	5/06/93	125	8				pH	0	B06DX7	Probe, pH
299-W19-1	pH	5/06/93	93	8						B08HR5	ASTM D-1293
299-W19-1	pH	8/05/93	125	8					0	B08HR5	Probe, pH
299-W19-1	sym-Trinitrobenzene	1/02/90	21	10	4	U		pH		B08MQ5	ASTM D-1293
299-W19-1	trans-1,2-Dichloroethylene	1/02/90	16	5	2	U		ppb	5	H0009ZS8	
299-W19-1	trans-1,2-Dichloroethylene	2/26/92	16	5		U		ppb	5	B01VX8	SW-846 8240
299-W19-1	trans-1,3-Dichloropropene	8/05/93	16	0		U		ppb	5	B08MQ5	SW-846 8240
299-W19-1	trans-1,4-dichloro-2-butene	1/02/90	16	10	4	U		ppb	5	H0009ZS8	SW-846 8240
299-W19-1	trans-1,4-dichloro-2-butene	8/05/93	16	1		U		ppb	5	B08MQ5	SW-846 8240

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Downgradient Groundwater Data for Well 299-W19-21 Page 2

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	1,1-Dichloroethane	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	1,1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	1,1-Dichloroethane	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	1,1-Dichloroethane	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	1,1-Dichloroethene	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1,1-Dichloroethene	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,1-Dichloroethene	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,1-Dimethylhydrazine	11/02/89	38	10	4		U	ppb		H000B1R0	
299-W19-21	1,2,3,4-tetrachlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2,3,4-tetrachlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,2,3,5-tetrachlorobenzene	1/22/88	19	10			U	ppb		H000B1Q3	SW-846 8270
299-W19-21	1,2,3,5-tetrachlorobenzene	11/02/89	19	10	4		U	ppb		H000B1R0	SW-846 8270
299-W19-21	1,2,3-Trichloropropane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1,2,3-Trichloropropane	1/22/88	76	10			U	ppb		H000B1Q3	
299-W19-21	1,2,3-Trichloropropane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,2,3-Trichloropropane	8/19/88	76	10			U	ppb		H000B1Q6	
299-W19-21	1,2,3-Trichloropropane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,2,3-trichlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2,3-trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,2,4,5-Tetrachlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2,4,5-Tetrachlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,2,4-Trichlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2,4-Trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,2-Dibromo-3-chloropropane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1,2-Dibromo-3-chloropropane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,2-Dibromo-3-chloropropane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,2-Dibromoethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1,2-Dibromoethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,2-Dibromoethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,2-Dichlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2-Dichlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,2-Dichloroethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240

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Downgradient Groundwater Data for Well 299-W19-21 Page 3

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	1,2-Dichloroethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,2-Dichloroethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,2-Dichloroethane	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	1,2-Dichloroethane	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	1,2-Dichloroethane	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	1,2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	1,2-Dichloroethane	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	1,2-Dichloroethane	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	1,2-Dichloropropane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	1,2-Dichloropropane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	1,2-Dichloropropane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	1,2-Dimethylhydrazine	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	1,2-Diphenylhydrazine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,2-Diphenylhydrazine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,3,5-trichlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,3,5-trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,3-Dichlorobenzene	1/22/88	20	10			U	ppb		H000B1Q3	
299-W19-21	1,3-Dichlorobenzene	11/02/89	20	10	4		U	ppb		H000B1R0	
299-W19-21	1,3-Dichloropropene	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	1,3-Dichloropropene	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	1,3-Dichloropropene	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240
299-W19-21	1,4-Dichlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,4-Dichlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1,4-Dichlorobenzene	11/02/89	24	5	2		U	ppb		H000B1R0	
299-W19-21	1,4-Dichlorobenzene	4/04/90	24	5	2		U	ppb		H000B1R1	
299-W19-21	1,4-Dichlorobenzene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	1,4-Dichlorobenzene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	1,4-Dichlorobenzene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	1,4-Dichlorobenzene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	1,4-Dioxane	1/22/88	16	500			U	ppb	200	H000B1Q3	SW-846 8240
299-W19-21	1,4-Dioxane	8/19/88	16	500			U	ppb	200	H000B1Q6	SW-846 8240

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Downgradient Groundwater Data for Well 299-W19-21 Page 4

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	1,4-Dioxane	11/02/89	16	500	175		U	ppb	200	H000B1R0	SW-846 8240
299-W19-21	1,4-Naphtoquinone	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1,4-Naphtoquinone	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1-(o-Chlorophenyl)thiourea	11/02/89	18	200	60		U	ppb		H000B1R0	
299-W19-21	1-Acetyl-2-thiourea	11/02/89	18	200	40		U	ppb		H000B1R0	
299-W19-21	1-Butanol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	1-Butanol	3/09/92	16	1000			U	ppb	1000	B01VY2	SW-846 8240
299-W19-21	1-Butanol	4/30/92	16	1000			U	ppb	1000	B06DX9	SW-846 8240
299-W19-21	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074M1	SW-846 8240
299-W19-21	1-Butanol	12/07/92	16	1000			U	ppb	1000	B07QG1	SW-846 8240
299-W19-21	1-Butanol	2/03/93	16	1000			U	ppb	1000	B08413	SW-846 8240
299-W19-21	1-Chloro-2,3-epoxypropane	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1-Chloro-2,3-epoxypropane	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1-Naphthyl-2-thiourea	11/02/89	18	200	60		U	ppb		H000B1R0	
299-W19-21	1-Naphthylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	1-Naphthylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	1-Propanol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	2,3,4,6-Tetrachlorophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,3,4,6-Tetrachlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2,3,7,8-TCDD	11/02/89	51	0	0		U	ppb	0	H000B1R0	SW-846 8280
299-W19-21	2,4,5-T	11/02/89	49	2	0		U	ppb	2	H000B1R0	SW-846 8150
299-W19-21	2,4,5-T	6/30/93	49	0			U	ppb	2	B08MQ1	SW-846 8150
299-W19-21	2,4,5-TP	11/02/89	49	2	0		U	ppb	2	H000B1R0	SW-846 8150
299-W19-21	2,4,5-TP	6/30/93	49	0			U	ppb	2	B08MQ1	SW-846 8150
299-W19-21	2,4,5-Trichlorophenol	1/22/88	21	50			U	ppb		H000B1Q3	
299-W19-21	2,4,5-Trichlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2,4,6-Trichlorophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,4,6-Trichlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2,4-D	11/02/89	49	2	0		U	ppb	10	H000B1R0	SW-846 8150
299-W19-21	2,4-D	6/30/93	49	0			U	ppb	10	B08MQ1	SW-846 8150
299-W19-21	2,4-Dichlorophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,4-Dichlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	2,4-Dimethylphenol	1/22/88	19	10			U	ppb	10	H000B1Q3	SW-846 8270
299-W19-21	2,4-Dinitrophenol	1/22/88	72	50			U	ppb		H000B1Q3	
299-W19-21	2,4-Dinitrophenol	11/02/89	72	10	4		U	ppb		H000B1R0	
299-W19-21	2,4-Dinitrotoluene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,4-Dinitrotoluene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2,6-Dichlorophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,6-Dichlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2,6-Dinitrotoluene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2,6-Dinitrotoluene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Acetylaminofluorene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Acetylaminofluorene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Chloroethyl vinyl ether	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	2-Chloroethyl vinyl ether	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	2-Chloroethyl vinyl ether	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240
299-W19-21	2-Chloronaphthalene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Chloronaphthalene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Chlorophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Chlorophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Cyclohexyl-4,6-dinitrophenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Cyclohexyl-4,6-dinitrophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Hexanone	11/02/89	16	50	18		U	ppb	50	H000B1R0	SW-846 8240
299-W19-21	2-Methylaziridine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Methylaziridine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Methylactonitrile	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Methylactonitrile	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Methylnaphthalene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Naphthylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Naphthylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Picoline	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-Picoline	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-Propyn-1-ol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	2-methyl-2-(methylthio) propionaldehyde-	1/22/88	76	10			U	ppb		H000B1Q3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	2-methyl-2-(methylthio) propionaldehyde-	11/02/89	76	10	4		U	ppb		H000B1R0	
299-W19-21	2-sec-Butyl-4,6-dinitrophenol(DNBP)	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	2-sec-Butyl-4,6-dinitrophenol(DNBP)	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	2-sec-Butyl-4,6-dinitrophenol(DNBP)	6/30/93	49	0			U	ppb	1	B08MQ1	SW-846 8150
299-W19-21	3,3'-Dichlorobenzidine	1/22/88	21	20			U	ppb		H000B1Q3	
299-W19-21	3,3'-Dichlorobenzidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	3,3'-Dimethoxybenzidine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	3,3'-Dimethoxybenzidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	3,3'-Dimethylbenzidine	1/22/88	19	10			U	ppb	10	H000B1Q3	SW-846 8270
299-W19-21	3,3'-Dimethylbenzidine	1/22/88	19	10			U	ppb	50	H000B1Q3	SW-846 8270
299-W19-21	3,3'-Dimethylbenzidine	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	3,3'-Dimethylbenzidine	11/02/89	19	10	4		U	ppb	50	H000B1R0	SW-846 8270
299-W19-21	3-Chloropropionitrile	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	3-Methylcholanthrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	3-Methylcholanthrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	3-Nitroaniline	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4,4'-DDD	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	4,4'-DDD	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	4,4'-DDE	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	4,4'-DDE	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	4,4'-DDT	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	4,4'-DDT	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	4,4'-Methylenebis(2-chloroaniline)	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	4,4'-Methylenebis(2-chloroaniline)	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4,6-Dinitro-2-methylphenol	1/22/88	72	10			U	ppb		H000B1Q3	
299-W19-21	4,6-Dinitro-2-methylphenol	11/02/89	72	10	4		U	ppb		H000B1R0	
299-W19-21	4-Aminobiphenyl	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	4-Aminobiphenyl	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4-Bromophenylphenyl ether	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	4-Bromophenylphenyl ether	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4-Chloro-3-methylphenol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	4-Chloro-3-methylphenol	11/02/89	21	10	4		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	4-Chloroaniline	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	4-Chloroaniline	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4-Methyl-2-pentanone	1/22/88	16	10			U	ppb	50	H000B1Q3	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	8/19/88	16	10			U	ppb	50	H000B1Q6	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	12/14/88	16	10			U	ppb	50	H000B1Q8	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	11/02/89	16	10	4		U	ppb	50	H000B1R0	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	4/04/90	16	10	4		U	ppb	50	H000B1R1	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	3/09/92	16	50			U	ppb	50	B01VY2	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	4/30/92	16	50			U	ppb	50	B06DX9	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074M1	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	12/07/92	16	50			U	ppb	50	B07QG1	SW-846 8240
299-W19-21	4-Methyl-2-pentanone	2/03/93	16	50			U	ppb	50	B08413	SW-846 8240
299-W19-21	4-Nitroaniline	1/22/88	21	50			U	ppb		H000B1Q3	
299-W19-21	4-Nitroaniline	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4-Nitrophenol	1/22/88	21	50			U	ppb		H000B1Q3	
299-W19-21	4-Nitrophenol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	4-Nitroquinoline-1-oxide	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	5-(Aminomethyl)-3-isoxazolol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	5-(Aminomethyl)-3-isoxazolol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	5-Nitro-o-toluidine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	5-Nitro-o-toluidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	7,12-Dimethylbenz[a]anthracene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	7,12-Dimethylbenz[a]anthracene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	7H-Dibenzo[c,g]carbazole	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	7H-Dibenzo[c,g]carbazole	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Acenaphthene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Acenaphthylene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Acetone	11/02/89	16	10	4		U	ppb	100	H000B1R0	SW-846 8240
299-W19-21	Acetone	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Acetone	4/04/90	16	10	4		U	ppb	100	H000B1R1	SW-846 8240
299-W19-21	Acetone	3/09/92	16	100			U	ppb	100	B01VY2	SW-846 8240
299-W19-21	Acetone	4/30/92	16	100			U	ppb	100	B06DX9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Acetone	8/12/92	16	100			U	ppb	100	B074M1	SW-846 8240
299-W19-21	Acetone	12/07/92	16	18			B	ppb	100	B07QG1	SW-846 8240
299-W19-21	Acetone	2/03/93	16	5			U	ppb	100	B08413	SW-846 8240
299-W19-21	Acetonitrile	1/22/88	16	3000			U	ppb	200	H000B1Q3	SW-846 8240
299-W19-21	Acetonitrile	8/19/88	16	3000			U	ppb	200	H000B1Q6	SW-846 8240
299-W19-21	Acetonitrile	11/02/89	16	10	4		U	ppb	200	H000B1R0	SW-846 8240
299-W19-21	Acetophenone	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Acetophenone	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Acrolein	1/22/88	16	10			U	ppb	10	H000B1Q3	SW-846 8240
299-W19-21	Acrolein	8/19/88	16	10			U	ppb	10	H000B1Q6	SW-846 8240
299-W19-21	Acrolein	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Acrylamide	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Acrylonitrile	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Acrylonitrile	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Acrylonitrile	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Aldrin	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Aldrin	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Alkalinity	1/22/88	53	84200				ppb		H000B1Q3	
299-W19-21	Alkalinity	8/19/88	53	88700				ppb		H000B1Q6	
299-W19-21	Alkalinity	12/14/88	53	86700				ppb		H000B1Q8	
299-W19-21	Alkalinity	6/30/93	52	90				ppm	50	B08MQ1	ASTM D-1067-A
299-W19-21	Allyl alcohol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Alpha, alpha-Dimethylphenethylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Alpha, alpha-Dimethylphenethylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Alpha-BHC	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Alpha-BHC	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Aluminum	1/22/88	34	150		Y	U	ppb	200	H000B1Q3	SW-846 6010
299-W19-21	Aluminum	1/22/88	35	150			U	ppb		H000B1Q3	
299-W19-21	Aluminum	8/19/88	34	150		Y	U	ppb	200	H000B1Q6	SW-846 6010
299-W19-21	Aluminum	12/14/88	34	150		Y	U	ppb	200	H000B1Q8	SW-846 6010
299-W19-21	Aluminum	11/02/89	34	150	20	Y	U	ppb	200	H000B1R0	SW-846 6010
299-W19-21	Aluminum	11/02/89	35	150	20		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Aluminum	4/04/90	34	150	20	Y	U	ppb	200	H000B1R1	SW-846 6010
299-W19-21	Aluminum	6/30/93	34	100			L	ppb	200	B08MQ1	SW-846 6010
299-W19-21	Aluminum	6/30/93	34	33		Y	U	ppb	200	B08MQ2	SW-846 6010
299-W19-21	Aluminum	8/26/93	34	33		Y	U	ppb	200	B091J1	SW-846 6010
299-W19-21	Americium-241	11/02/89	77	0	0		U	pCi/L		H000B1R0	
299-W19-21	Americium-241	3/09/92	147	-0	0		U	pCi/L	0	B01VY2	ITAS Am-241
299-W19-21	Americium-241	2/03/93	147	0	0		U	pCi/L	0	B08413	ITAS Am-241
299-W19-21	Americium-241	6/30/93	147	0	0		U	pCi/L	0	B08MQ1	ITAS Am-241
299-W19-21	Amitrole	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Amitrole	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Ammonium ion	1/22/88	54	50			U	ppb	100	H000B1Q3	ASTM D-1426-D
299-W19-21	Ammonium ion	8/19/88	54	50			U	ppb	100	H000B1Q6	ASTM D-1426-D
299-W19-21	Ammonium ion	12/14/88	54	50			U	ppb	100	H000B1Q8	ASTM D-1426-D
299-W19-21	Ammonium ion	11/02/89	54	50	7		U	ppb	100	H000B1R0	ASTM D-1426-D
299-W19-21	Ammonium ion	6/30/93	54	39			U	ppb	100	B08MQ1	ASTM D-1426-D
299-W19-21	Aniline	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Aniline	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Anthracene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Antimony	11/02/89	35	100	14		U	ppb		H000B1R0	
299-W19-21	Antimony	2/03/93	34	200			U	ppb	200	B08413	SW-846 6010
299-W19-21	Antimony	6/30/93	34	69			U	ppb	200	B08MQ1	SW-846 6010
299-W19-21	Antimony, filtered	1/22/88	34	100		Y	U	ppb	200	H000B1Q3	SW-846 6010
299-W19-21	Antimony, filtered	8/19/88	34	100		Y	U	ppb	200	H000B1Q6	SW-846 6010
299-W19-21	Antimony, filtered	12/14/88	34	100		Y	U	ppb	200	H000B1Q8	SW-846 6010
299-W19-21	Antimony, filtered	11/02/89	34	100	14	Y	U	ppb	200	H000B1R0	SW-846 6010
299-W19-21	Antimony, filtered	4/04/90	34	100	14	Y	U	ppb	200	H000B1R1	SW-846 6010
299-W19-21	Antimony, filtered	4/30/92	34	200		Y	U	ppb	200	B06DY1	SW-846 6010
299-W19-21	Antimony, filtered	8/12/92	34	200		Y	U	ppb	200	B074M2	SW-846 6010
299-W19-21	Antimony, filtered	12/07/92	34			Y	U	ppb	200	B07QG2	SW-846 6010
299-W19-21	Antimony, filtered	2/03/93	34	200		Y	U	ppb	200	B08414	SW-846 6010
299-W19-21	Antimony, filtered	6/30/93	34	69		Y	U	ppb	200	B08MQ2	SW-846 6010
299-W19-21	Antimony, filtered	8/26/93	34	69		Y	U	ppb	200	B091J1	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Antimony-125	2/03/93	140	1	15		U	pCi/L		B08413	ITAS Gamma Scan
299-W19-21	Aramite	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Aramite	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Aroclor-1016	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1016	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1221	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1221	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1232	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1232	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1242	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1242	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1248	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1248	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1254	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1254	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Aroclor-1260	11/02/89	33	1	0		U	ppb		H000B1R0	
299-W19-21	Aroclor-1260	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Arsenic	1/22/88	43	18				ppb	5	H000B1Q3	SW-846 7060
299-W19-21	Arsenic	11/02/89	43	14	4			ppb	5	H000B1R0	SW-846 7060
299-W19-21	Arsenic	6/30/93	43	14	11			ppb	5	B08MQ1	SW-846 7060
299-W19-21	Arsenic, filtered	1/22/88	76	14		Y		ppb		H000B1Q3	
299-W19-21	Arsenic, filtered	11/02/89	76	13	4	Y		ppb		H000B1R0	
299-W19-21	Arsenic, filtered	6/30/93	43	14	11	Y		ppb	5	B08MQ2	SW-846 7060
299-W19-21	Auramine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Auramine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Barium	1/22/88	35	16				ppb		H000B1Q3	
299-W19-21	Barium	11/02/89	35	23	3			ppb		H000B1R0	
299-W19-21	Barium	2/03/93	34	20	3			ppb	20	B08413	SW-846 6010
299-W19-21	Barium	6/30/93	34	23	0			ppb	20	B08MQ1	SW-846 6010
299-W19-21	Barium, filtered	1/22/88	34	16		Y		ppb	20	H000B1Q3	SW-846 6010
299-W19-21	Barium, filtered	8/19/88	34	18		Y		ppb	20	H000B1Q6	SW-846 6010
299-W19-21	Barium, filtered	12/14/88	34	18		Y		ppb	20	H000B1Q8	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Barium, filtered	11/02/89	34	19	3	Y		ppb	20	H000B1R0	SW-846 6010
299-W19-21	Barium, filtered	4/04/90	34	20	3	Y		ppb	20	H000B1R1	SW-846 6010
299-W19-21	Barium, filtered	4/30/92	34	20	3	Y		ppb	20	B06DY1	SW-846 6010
299-W19-21	Barium, filtered	8/12/92	34	21	3	Y		ppb	20	B074M2	SW-846 6010
299-W19-21	Barium, filtered	12/07/92	34	20	3	Y		ppb	20	B07QG2	SW-846 6010
299-W19-21	Barium, filtered	2/03/93	34	20	3	Y		ppb	20	B08414	SW-846 6010
299-W19-21	Barium, filtered	6/30/93	34	22	0	Y		ppb	20	B08MQ2	SW-846 6010
299-W19-21	Barium, filtered	8/26/93	34	23	0	Y		ppb	20	B091J1	SW-846 6010
299-W19-21	Benz[c]acridine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benz[c]acridine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzene	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Benzene	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Benzene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Benzene	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Benzene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Benzene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Benzene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Benzene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Benzene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Benzene, dichloromethyl-	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzene, dichloromethyl-	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzenethiol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzenethiol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzidine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzo(a)anthracene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzo(a)anthracene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzo(a)pyrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzo(a)pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzo(b)fluoranthene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzo(b)fluoranthene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzo(ghi)perylene	11/02/89	21	10	4		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Benzo(j)fluoranthene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzo(j)fluoranthene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzo(k)fluoranthene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzyl alcohol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Benzyl chloride	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Benzyl chloride	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Beryllium	11/02/89	35	5	1		U	ppb		H000B1R0	
299-W19-21	Beryllium	2/03/93	34	3			U	ppb	3	B08413	SW-846 6010
299-W19-21	Beryllium	6/30/93	34	1			U	ppb	3	B08MQ1	SW-846 6010
299-W19-21	Beryllium, filtered	1/22/88	34	5		Y	U	ppb	3	H000B1Q3	SW-846 6010
299-W19-21	Beryllium, filtered	8/19/88	34	5		Y	U	ppb	3	H000B1Q6	SW-846 6010
299-W19-21	Beryllium, filtered	12/14/88	34	5		Y	U	ppb	3	H000B1Q8	SW-846 6010
299-W19-21	Beryllium, filtered	11/02/89	34	5	1	Y	U	ppb	3	H000B1R0	SW-846 6010
299-W19-21	Beryllium, filtered	4/04/90	34	5	1	Y	U	ppb	3	H000B1R1	SW-846 6010
299-W19-21	Beryllium, filtered	4/30/92	34	3		Y	U	ppb	3	B06DY1	SW-846 6010
299-W19-21	Beryllium, filtered	8/12/92	34	3		Y	U	ppb	3	B074M2	SW-846 6010
299-W19-21	Beryllium, filtered	12/07/92	34			Y	U	ppb	3	B07QG2	SW-846 6010
299-W19-21	Beryllium, filtered	2/03/93	34	3		Y	U	ppb	3	B08414	SW-846 6010
299-W19-21	Beryllium, filtered	6/30/93	34	1		Y	U	ppb	3	B08MQ2	SW-846 6010
299-W19-21	Beryllium, filtered	8/26/93	34	1		Y	U	ppb	3	B091J1	SW-846 6010
299-W19-21	Beta-BHC	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Beta-BHC	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Bis(2-Chloroethoxy)methane	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Bis(2-Chloroethoxy)methane	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Bis(2-chloro-1-methylethyl)ether	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Bis(2-chloroethyl) ether	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Bis(2-chloroethyl) ether	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Bis(2-chloroisopropyl) ether	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Bis(2-chloroisopropyl) ether	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Bis(2-ethylhexyl) phthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Bis(2-ethylhexyl) phthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Bis(chloromethyl) ether	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Bis(chloromethyl) ether	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Bis(chloromethyl) ether	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Boron	11/02/89	35	20	5			ppb		H000B1R0	
299-W19-21	Boron, filtered	11/02/89	34	23	5	Y		ppb		H000B1R0	SW-846 6010
299-W19-21	Boron, filtered	4/04/90	34	20	5	Y		ppb		H000B1R1	SW-846 6010
299-W19-21	Bromide	11/02/89	46	1000	111		U	ppb		H000B1R0	EPA 300.0
299-W19-21	Bromide	4/04/90	46	1000	111		U	ppb		H000B1R1	EPA 300.0
299-W19-21	Bromide	3/09/92	124	500			U	ppb	500	B01VY2	ASTM D-4327-88
299-W19-21	Bromide	4/30/92	124	500			U	ppb	500	B06DX9	ASTM D-4327-88
299-W19-21	Bromide	8/12/92	124	500			U	ppb	500	B074M1	ASTM D-4327-88
299-W19-21	Bromide	12/07/92	124	500			U	ppb	500	B07QG1	ASTM D-4327-88
299-W19-21	Bromide	2/03/93	124	500			U	ppb	500	B08413	ASTM D-4327-88
299-W19-21	Bromide	6/30/93	124	53			U	ppb	500	B08MQ1	ASTM D-4327-88
299-W19-21	Bromoacetone	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Bromoacetone	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Bromoacetone	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Bromodichloromethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Bromoform	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Bromoform	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Bromoform	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Butylbenzylphthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Butylbenzylphthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Cadmium	1/22/88	35	2			U	ppb		H000B1Q3	
299-W19-21	Cadmium	11/02/89	35	2	1		U	ppb		H000B1R0	
299-W19-21	Cadmium	2/03/93	34	10			U	ppb	10	B08413	SW-846 6010
299-W19-21	Cadmium	6/30/93	34	5			U	ppb	10	B08MQ1	SW-846 6010
299-W19-21	Cadmium, filtered	1/22/88	34	2		Y	U	ppb	10	H000B1Q3	SW-846 6010
299-W19-21	Cadmium, filtered	8/19/88	34	2		Y	U	ppb	10	H000B1Q6	SW-846 6010
299-W19-21	Cadmium, filtered	12/14/88	34	2		Y	U	ppb	10	H000B1Q8	SW-846 6010
299-W19-21	Cadmium, filtered	11/02/89	34	2	1	Y	U	ppb	10	H000B1R0	SW-846 6010
299-W19-21	Cadmium, filtered	4/04/90	34	2	1	Y	U	ppb	10	H000B1R1	SW-846 6010
299-W19-21	Cadmium, filtered	4/30/92	34	10		Y	U	ppb	10	B06DY1	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Cadmium, filtered	8/12/92	34	10		Y	U	ppb	10	B074M2	SW-846 6010
299-W19-21	Cadmium, filtered	12/07/92	34			Y	U	ppb	10	B07QG2	SW-846 6010
299-W19-21	Cadmium, filtered	2/03/93	34	10		Y	U	ppb	10	B08414	SW-846 6010
299-W19-21	Cadmium, filtered	6/30/93	34	5		Y	U	ppb	10	B08MQ2	SW-846 6010
299-W19-21	Cadmium, filtered	8/26/93	34	5		Y	U	ppb	10	B091J1	SW-846 6010
299-W19-21	Calcium	1/22/88	35	16800				ppb		H000B1Q3	
299-W19-21	Calcium	11/02/89	35	17900	2300			ppb		H000B1R0	
299-W19-21	Calcium	2/03/93	34	20000				ppb	100	B08413	SW-846 6010
299-W19-21	Calcium	6/30/93	34	21000	6360			ppb	100	B08MQ1	SW-846 6010
299-W19-21	Calcium, filtered	1/22/88	34	16600		Y		ppb	100	H000B1Q3	SW-846 6010
299-W19-21	Calcium, filtered	8/19/88	34	15700		Y		ppb	100	H000B1Q6	SW-846 6010
299-W19-21	Calcium, filtered	12/14/88	34	20200		Y		ppb	100	H000B1Q8	SW-846 6010
299-W19-21	Calcium, filtered	11/02/89	34	18100	2330	Y		ppb	100	H000B1R0	SW-846 6010
299-W19-21	Calcium, filtered	4/04/90	34	17400	2240	Y		ppb	100	H000B1R1	SW-846 6010
299-W19-21	Calcium, filtered	4/30/92	34	20000		Y		ppb	100	B06DY1	SW-846 6010
299-W19-21	Calcium, filtered	8/12/92	34	20000		Y		ppb	100	B074M2	SW-846 6010
299-W19-21	Calcium, filtered	12/07/92	34	20000		Y		ppb	100	B07QG2	SW-846 6010
299-W19-21	Calcium, filtered	2/03/93	34	20000		Y		ppb	100	B08414	SW-846 6010
299-W19-21	Calcium, filtered	6/30/93	34	21000	6360	Y		ppb	100	B08MQ2	SW-846 6010
299-W19-21	Calcium, filtered	8/26/93	34	23000	6970	Y		ppb	100	B091J1	SW-846 6010
299-W19-21	Carbon disulfide	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Carbon disulfide	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Carbon disulfide	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Carbon tetrachloride	1/22/88	16	3			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Carbon tetrachloride	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Carbon tetrachloride	12/14/88	16	3			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Carbon tetrachloride	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Carbon tetrachloride	4/04/90	16	4	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Carbon tetrachloride	3/09/92	16	3			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Carbon tetrachloride	4/30/92	16	3			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Carbon tetrachloride	8/12/92	16	3			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Carbon tetrachloride	12/07/92	16	5				ppb	5	B07QG1	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Carbon tetrachloride	2/03/93	16	4			U	ppb	5	B08413	SW-846 8240
299-W19-21	Carbonphenothion	11/02/89	29	2	1		U	ppb		H000B1R0	SW-846 8140
299-W19-21	Cesium-137	7/11/86	77	2	5		U	pCi/L		H000B1N7	
299-W19-21	Cesium-137	8/05/86	77	-5	9		U	pCi/L		H000B1N8	
299-W19-21	Cesium-137	9/17/86	77	-6	7		U	pCi/L		H000B1N9	
299-W19-21	Cesium-137	10/06/86	77	-3	7		U	pCi/L		H000B1P0	
299-W19-21	Cesium-137	11/05/86	77	1	2		U	pCi/L		H000B1P1	
299-W19-21	Cesium-137	12/11/86	77	-4	10		U	pCi/L		H000B1P2	
299-W19-21	Cesium-137	1/05/87	77	2	5		U	pCi/L		H000B1P3	
299-W19-21	Cesium-137	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Cesium-137	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Cesium-137	4/19/87	77	1	7		U	pCi/L		H000B1P6	
299-W19-21	Cesium-137	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Cesium-137	8/18/87	77	7	4			pCi/L		H000B1P8	
299-W19-21	Cesium-137	9/16/87	77	-2	6		U	pCi/L		H000B1P9	
299-W19-21	Cesium-137	10/12/87	77	2	6		U	pCi/L		H000B1Q0	
299-W19-21	Cesium-137	11/11/87	77	1	4		U	pCi/L		H000B1Q1	
299-W19-21	Cesium-137	12/08/87	77	4	8		U	pCi/L		H000B1Q2	
299-W19-21	Cesium-137	1/22/88	77	-2	7		U	pCi/L		H000B1Q4	
299-W19-21	Cesium-137	5/18/88	77	-1	8		U	pCi/L		H000B1Q5	
299-W19-21	Cesium-137	8/19/88	77	0	7		U	pCi/L		H000B1Q7	
299-W19-21	Cesium-137	1/04/89	77	2	6		U	pCi/L		H000B1Q9	
299-W19-21	Cesium-137	11/02/89	77	-4	6		U	pCi/L		H000B1R0	
299-W19-21	Cesium-137	2/03/93	140	4	6		U	pCi/L	20	B08413	ITAS Gamma Scan
299-W19-21	Chlordane	11/02/89	17	1	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Chlordane	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Chloride	1/22/88	46	1110				ppb		H000B1Q3	EPA 300.0
299-W19-21	Chloride	8/19/88	46	873				ppb		H000B1Q6	EPA 300.0
299-W19-21	Chloride	12/14/88	46	1000				ppb		H000B1Q8	EPA 300.0
299-W19-21	Chloride	11/02/89	46	1400	147			ppb		H000B1R0	EPA 300.0
299-W19-21	Chloride	4/04/90	46	1200	127			ppb		H000B1R1	EPA 300.0
299-W19-21	Chloride	3/09/92	124	1000	337			ppb	200	B01VY2	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Chloride	4/30/92	124	1200	404			ppb	200	B06DX9	ASTM D-4327-88
299-W19-21	Chloride	8/12/92	124	1200	404			ppb	200	B074M1	ASTM D-4327-88
299-W19-21	Chloride	12/07/92	124	1600	539			ppb	200	B07QG1	ASTM D-4327-88
299-W19-21	Chloride	2/03/93	124	1200	404			ppb	200	B08413	ASTM D-4327-88
299-W19-21	Chloride	6/30/93	124	1200	199			ppb	200	B08MQ1	ASTM D-4327-88
299-W19-21	Chlornaphazine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Chlornaphazine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Chloroalkyl ethers	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Chloroalkyl ethers	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Chlorobenzene	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Chlorobenzene	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Chlorobenzene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Chlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Chlorobenzilate	11/02/89	17	300	75		U	ppb		H000B1R0	SW-846 8080
299-W19-21	Chloroethane	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Chloroform	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Chloroform	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Chloroform	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Chloroform	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Chloroform	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Chloroform	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Chloroform	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Chloroform	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Chloroform	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Chloroform	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Chloromethyl methyl ether	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Chloromethyl methyl ether	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Chloromethyl methyl ether	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Chromium	1/22/88	35	10			U	ppb		H000B1Q3	
299-W19-21	Chromium	11/02/89	35	10	5		U	ppb		H000B1R0	
299-W19-21	Chromium	2/03/93	34	20			U	ppb	20	B08413	SW-846 6010
299-W19-21	Chromium	6/30/93	34	5			U	ppb	20	B08MQ1	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Chromium, filtered	1/22/88	34	10		Y	U	ppb	20	H000B1Q3	SW-846 6010
299-W19-21	Chromium, filtered	8/19/88	34	10		Y	U	ppb	20	H000B1Q6	SW-846 6010
299-W19-21	Chromium, filtered	12/14/88	34	10		Y	U	ppb	20	H000B1Q8	SW-846 6010
299-W19-21	Chromium, filtered	11/02/89	34	10	5	Y	U	ppb	20	H000B1R0	SW-846 6010
299-W19-21	Chromium, filtered	4/04/90	34	10	5	Y	U	ppb	20	H000B1R1	SW-846 6010
299-W19-21	Chromium, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY1	SW-846 6010
299-W19-21	Chromium, filtered	8/12/92	34	20		Y	U	ppb	20	B074M2	SW-846 6010
299-W19-21	Chromium, filtered	12/07/92	34			Y	U	ppb	20	B07QG2	SW-846 6010
299-W19-21	Chromium, filtered	2/03/93	34	20		Y	U	ppb	20	B08414	SW-846 6010
299-W19-21	Chromium, filtered	6/30/93	34	5		Y	U	ppb	20	B08MQ2	SW-846 6010
299-W19-21	Chromium, filtered	8/26/93	34	5		Y	U	ppb	20	B091J1	SW-846 6010
299-W19-21	Chrysene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Chrysene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Citrus red No. 2	11/02/89	39	1000	135		U	ppb		H000B1R0	
299-W19-21	Cobalt	11/02/89	35	20	3		U	ppb		H000B1R0	
299-W19-21	Cobalt	2/03/93	34	20			U	ppb		H000B1R0	
299-W19-21	Cobalt	6/30/93	34	4			U	ppb	20	B08413	SW-846 6010
299-W19-21	Cobalt, filtered	11/02/89	34	20	3	Y	U	ppb	20	B08MQ1	SW-846 6010
299-W19-21	Cobalt, filtered	4/04/90	34	20	3	Y	U	ppb	20	H000B1R0	SW-846 6010
299-W19-21	Cobalt, filtered	4/30/92	34	20		Y	U	ppb	20	H000B1R1	SW-846 6010
299-W19-21	Cobalt, filtered	8/12/92	34	20		Y	U	ppb	20	B06DY1	SW-846 6010
299-W19-21	Cobalt, filtered	12/07/92	34			Y	U	ppb	20	B074M2	SW-846 6010
299-W19-21	Cobalt, filtered	2/03/93	34	20		Y	U	ppb	20	B07QG2	SW-846 6010
299-W19-21	Cobalt, filtered	6/30/93	34	4		Y	U	ppb	20	B08414	SW-846 6010
299-W19-21	Cobalt, filtered	8/26/93	34	4	1	Y	U	ppb	20	B08MQ2	SW-846 6010
299-W19-21	Cobalt-60	7/11/86	77	3	4		L	ppb	20	B091J1	SW-846 6010
299-W19-21	Cobalt-60	8/05/86	77	-1	10		U	pCi/L		H000B1N7	
299-W19-21	Cobalt-60	9/17/86	77	-1	7		U	pCi/L		H000B1N8	
299-W19-21	Cobalt-60	10/06/86	77	-4	8		U	pCi/L		H000B1N9	
299-W19-21	Cobalt-60	11/05/86	77	-9	10		U	pCi/L		H000B1P0	
299-W19-21	Cobalt-60	12/11/86	77	-18	16		U	pCi/L		H000B1P1	
299-W19-21	Cobalt-60	1/05/87	77	-4	7		U	pCi/L		H000B1P2	
							U	pCi/L		H000B1P3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRC	Sample No	Method Name
299-W19-21	Cobalt-60	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Cobalt-60	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Cobalt-60	4/19/87	77	6	6		U	pCi/L		H000B1P6	
299-W19-21	Cobalt-60	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Cobalt-60	8/18/87	77	3	4		U	pCi/L		H000B1P8	
299-W19-21	Cobalt-60	9/16/87	77	-5	6		U	pCi/L		H000B1P9	
299-W19-21	Cobalt-60	10/12/87	77	3	8		U	pCi/L		H000B1Q0	
299-W19-21	Cobalt-60	11/11/87	77	1	2		U	pCi/L		H000B1Q1	
299-W19-21	Cobalt-60	12/08/87	77	4	4		U	pCi/L		H000B1Q2	
299-W19-21	Cobalt-60	1/22/88	77	-5	7		U	pCi/L		H000B1Q4	
299-W19-21	Cobalt-60	5/18/88	77	-1	4		U	pCi/L		H000B1Q5	
299-W19-21	Cobalt-60	8/19/88	77	-1	4		U	pCi/L		H000B1Q7	
299-W19-21	Cobalt-60	1/04/89	77	3	6		U	pCi/L		H000B1Q9	
299-W19-21	Cobalt-60	11/02/89	77	-2	6		U	pCi/L		H000B1R0	
299-W19-21	Cobalt-60	2/03/93	140	-5	7		U	pCi/L		B08413	ITAS Gamma Scan
299-W19-21	Copper	1/22/88	35	10			U	ppb		H000B1Q3	
299-W19-21	Copper	11/02/89	35	10	3		U	ppb		H000B1R0	
299-W19-21	Copper	2/03/93	34	20			U	ppb	20	B08413	SW-846 6010
299-W19-21	Copper	6/30/93	34	3			U	ppb	20	B08MQ1	SW-846 6010
299-W19-21	Copper, filtered	1/22/88	34	10		Y	U	ppb	20	H000B1Q3	SW-846 6010
299-W19-21	Copper, filtered	8/19/88	34	10		Y	U	ppb	20	H000B1Q6	SW-846 6010
299-W19-21	Copper, filtered	12/14/88	34	10		Y	U	ppb	20	H000B1Q8	SW-846 6010
299-W19-21	Copper, filtered	11/02/89	34	10	3	Y	U	ppb	20	H000B1R0	SW-846 6010
299-W19-21	Copper, filtered	4/04/90	34	10	3	Y	U	ppb	20	H000B1R1	SW-846 6010
299-W19-21	Copper, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY1	SW-846 6010
299-W19-21	Copper, filtered	8/12/92	34	20		Y	U	ppb	20	B074M2	SW-846 6010
299-W19-21	Copper, filtered	12/07/92	34			Y	U	ppb	20	B07QG2	SW-846 6010
299-W19-21	Copper, filtered	2/03/93	34	20		Y	U	ppb	20	B08414	SW-846 6010
299-W19-21	Copper, filtered	6/30/93	34	3		Y	U	ppb	20	B08MQ2	SW-846 6010
299-W19-21	Copper, filtered	8/26/93	34	3		Y	U	ppb	20	B091J1	SW-846 6010
299-W19-21	Cresols (methylphenols)	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Cresols (methylphenols)	11/02/89	21	10	4		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Crotonaldehyde	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Crotonaldehyde	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Crotonaldehyde	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Cyanide	1/22/88	56	10			U	ppb	20	H000B1Q3	SW-846 9010
299-W19-21	Cyanide	8/19/88	56	10			U	ppb	20	H000B1Q6	SW-846 9010
299-W19-21	Cyanide	12/14/88	56	10			U	ppb	20	H000B1Q8	SW-846 9010
299-W19-21	Cyanide	11/02/89	56	10	3		U	ppb	20	H000B1R0	SW-846 9010
299-W19-21	Cyanide	3/09/92	56	20			U	ppb	20	B01VD1	SW-846 9010
299-W19-21	Cyanide	6/30/93	56	2	1		L	ppb	20	B08MQ1	SW-846 9010
299-W19-21	Delta-BHC	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Delta-BHC	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Di-n-butylphthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Di-n-butylphthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Di-n-octylphthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Di-n-octylphthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Diallylate	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	Dibenz(a,j)acridine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenz(a,j)acridine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenz[a,h]acridine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenz[a,h]acridine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenz[a,h]anthracene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenz[a,h]anthracene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenzo(a,e)pyrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenzo(a,e)pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenzo[a,h]pyrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenzo[a,h]pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenzo[a,i]pyrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dibenzo[a,i]pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibenzofuran	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dibromochloromethane	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Dibromomethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Dibromomethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Dibromomethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Dibutyl Phosphate	11/02/89	57	10000	3500		U	ppb		H000B1R0	
299-W19-21	Dichlorodifluoromethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Dichlorodifluoromethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Dichlorodifluoromethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Dieldrin	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Dieldrin	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Diethyl phthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Diethyl phthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Diethylarsine	1/22/88	76	10			U	ppb		H000B1Q3	
299-W19-21	Diethylarsine	8/19/88	76	10			U	ppb		H000B1Q6	
299-W19-21	Diethylstilbesterol	11/02/89	18	200	40		U	ppb		H000B1R0	
299-W19-21	Dihydrosafrole	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dihydrosafrole	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dimethoate	11/02/89	29	2	1		U	ppb		H000B1R0	SW-846 8140
299-W19-21	Dimethyl phthalate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Dimethyl phthalate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Dinoseb	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Diphenylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Diphenylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Disulfoton	11/02/89	29	2	1		U	ppb	2	H000B1R0	SW-846 8140
299-W19-21	Disulfoton	6/30/93	29	0			U	ppb	2	B08MQ1	SW-846 8140
299-W19-21	Endosulfan I	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Endosulfan I	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Endosulfan II	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Endosulfan II	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Endosulfan sulfate	11/02/89	17	1	0		U	ppb	1	H000B1R0	SW-846 8080
299-W19-21	Endosulfan sulfate	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Endrin	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Endrin	6/30/93	17	0			L	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Endrin Aldehyde	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080
299-W19-21	Ethanol	11/02/89	28	10000	3500		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Ethyl carbamate (Urethane)	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Ethyl cyanide	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Ethyl methacrylate	1/22/88	50	10			U	ppb		H000B1Q3	
299-W19-21	Ethyl methacrylate	8/19/88	50	10			U	ppb		H000B1Q6	
299-W19-21	Ethyl methacrylate	11/02/89	50	10	4		U	ppb		H000B1R0	
299-W19-21	Ethyl methanesulfonate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Ethyl methanesulfonate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Ethylbenzene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Ethylene Glycol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Ethylene oxide	1/22/88	16	3000			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Ethylene oxide	8/19/88	16	3000			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Ethylene oxide	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Ethyleneimine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Ethyleneimine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Ethylenethiourea	11/02/89	18	200	40		U	ppb		H000B1R0	
299-W19-21	Fluoranthene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Fluoranthene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Fluorene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Fluoride	3/09/92	124	200	42			ppb		H000B1R0	
299-W19-21	Fluoride	4/30/92	124	200	42			ppb	100	B01VY2	ASTM D-4327-88
299-W19-21	Fluoride	8/12/92	124	200	42			ppb	100	B06DX9	ASTM D-4327-88
299-W19-21	Fluoride	12/07/92	124	200	42			ppb	100	B074M1	ASTM D-4327-88
299-W19-21	Fluoride	2/03/93	124	200	42			ppb	100	B07QG1	ASTM D-4327-88
299-W19-21	Fluoride	6/30/93	124	400	26			ppb	100	B08413	ASTM D-4327-88
299-W19-21	Fluorine	1/22/88	46	500			U	ppb		B08MQ1	ASTM D-4327-88
299-W19-21	Fluorine	8/19/88	46	500			U	ppb		H000B1Q3	EPA 300.0
299-W19-21	Fluorine	8/19/88	47	231				ppb		H000B1Q6	EPA 300.0
299-W19-21	Fluorine	12/14/88	46	500			U	ppb		H000B1Q6	
299-W19-21	Fluorine	11/02/89	46	500	56		U	ppb		H000B1Q8	EPA 300.0
299-W19-21	Fluorine	11/02/89	47	205	23			ppb		H000B1R0	EPA 300.0
299-W19-21	Fluorine	4/04/90	46	530	56		U	ppb		H000B1R0	
299-W19-21	Formaldehyde	1/22/88	16	500			U	ppb		H000B1R1	EPA 300.0
								ppb		H000B1Q3	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Formaldehyde	8/19/88	16	500			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Formaldehyde	11/02/89	16	500	175		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Gross alpha	7/11/86	77	16	3			pCi/L		H000B1N7	
299-W19-21	Gross alpha	8/05/86	77	18	4			pCi/L		H000B1N8	
299-W19-21	Gross alpha	9/17/86	77	14	3			pCi/L		H000B1N9	
299-W19-21	Gross alpha	10/06/86	77	13	3			pCi/L		H000B1P0	
299-W19-21	Gross alpha	11/05/86	77	19	4			pCi/L		H000B1P1	
299-W19-21	Gross alpha	12/11/86	77	11	2			pCi/L		H000B1P2	
299-W19-21	Gross alpha	1/05/87	77	12	3			pCi/L		H000B1P3	
299-W19-21	Gross alpha	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Gross alpha	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Gross alpha	4/19/87	77	17	3			pCi/L		H000B1P6	
299-W19-21	Gross alpha	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Gross alpha	8/18/87	77	18	4			pCi/L		H000B1P8	
299-W19-21	Gross alpha	9/16/87	77	20	4			pCi/L		H000B1P9	
299-W19-21	Gross alpha	10/12/87	77	19	4			pCi/L		H000B1Q0	
299-W19-21	Gross alpha	11/11/87	77	17	3			pCi/L		H000B1Q1	
299-W19-21	Gross alpha	12/08/87	77	17	3			pCi/L		H000B1Q2	
299-W19-21	Gross alpha	1/22/88	77	16	3			pCi/L		H000B1Q4	
299-W19-21	Gross alpha	5/18/88	77	15	3			pCi/L		H000B1Q5	
299-W19-21	Gross alpha	8/19/88	77	13	3			pCi/L		H000B1Q7	
299-W19-21	Gross alpha	1/04/89	77	12	4			pCi/L		H000B1Q9	
299-W19-21	Gross alpha	11/02/89	77	12	3			pCi/L		H000B1R0	
299-W19-21	Gross alpha	4/04/90	77	14	5			pCi/L		H000B1R1	
299-W19-21	Gross alpha	12/03/91	135	26	6			pCi/L	4	H0007Z23	SW-846 9310, Alpha
299-W19-21	Gross alpha	3/09/92	135	18	5			pCi/L	4	B01VY2	SW-846 9310, Alpha
299-W19-21	Gross alpha	4/30/92	135	12	4			pCi/L	4	B06DX9	SW-846 9310, Alpha
299-W19-21	Gross alpha	8/12/92	135	15	5			pCi/L	4	B074M1	SW-846 9310, Alpha
299-W19-21	Gross alpha	12/07/92	135	16	4			pCi/L	4	B07QG1	SW-846 9310, Alpha
299-W19-21	Gross alpha	2/03/93	135	13	4			pCi/L	4	B08413	SW-846 9310, Alpha
299-W19-21	Gross alpha	6/30/93	135	18	5			pCi/L	4	B08MQ1	SW-846 9310, Alpha
299-W19-21	Gross alpha	8/26/93	135	19	5			pCi/L	4	B091H9	SW-846 9310, Alpha

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Gross beta	7/11/86	77	52	7			pCi/L		H000B1N7	
299-W19-21	Gross beta	8/05/86	77	82	10			pCi/L		H000B1N8	
299-W19-21	Gross beta	9/17/86	77	69	9			pCi/L		H000B1N9	
299-W19-21	Gross beta	10/06/86	77	43	6			pCi/L		H000B1P0	
299-W19-21	Gross beta	11/05/86	77	26	4			pCi/L		H000B1P1	
299-W19-21	Gross beta	12/11/86	77	17	3			pCi/L		H000B1P2	
299-W19-21	Gross beta	1/05/87	77	17	3			pCi/L		H000B1P3	
299-W19-21	Gross beta	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Gross beta	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Gross beta	4/19/87	77	13	3			pCi/L		H000B1P6	
299-W19-21	Gross beta	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Gross beta	8/18/87	77	14	3			pCi/L		H000B1P8	
299-W19-21	Gross beta	9/16/87	77	8	2			pCi/L		H000B1P9	
299-W19-21	Gross beta	10/12/87	77	9	2			pCi/L		H000B1Q0	
299-W19-21	Gross beta	11/11/87	77	8	2			pCi/L		H000B1Q1	
299-W19-21	Gross beta	12/08/87	77	11	3			pCi/L		H000B1Q2	
299-W19-21	Gross beta	1/22/88	77	9	2			pCi/L		H000B1Q4	
299-W19-21	Gross beta	5/18/88	77	8	2			pCi/L		H000B1Q5	
299-W19-21	Gross beta	8/19/88	77	9	2			pCi/L		H000B1Q7	
299-W19-21	Gross beta	1/04/89	77	12	3			pCi/L		H000B1Q9	
299-W19-21	Gross beta	11/02/89	77	4	2			pCi/L		H000B1R0	
299-W19-21	Gross beta	4/04/90	77	3	2			pCi/L		H000B1R1	
299-W19-21	Gross beta	12/03/91	136	5	2			pCi/L	8	H00072Z3	SW-846 9310, Beta
299-W19-21	Gross beta	3/09/92	136	4	2		U	pCi/L	8	B01VY2	SW-846 9310, Beta
299-W19-21	Gross beta	4/30/92	136	7	3		U	pCi/L	8	B06DX9	SW-846 9310, Beta
299-W19-21	Gross beta	8/12/92	136	3	2		U	pCi/L	8	B074M1	SW-846 9310, Beta
299-W19-21	Gross beta	12/07/92	136	10	3			pCi/L	8	B07QG1	SW-846 9310, Beta
299-W19-21	Gross beta	2/03/93	136	6	3		U	pCi/L	8	B08413	SW-846 9310, Beta
299-W19-21	Gross beta	6/30/93	136	9	3			pCi/L	8	B08MQ1	SW-846 9310, Beta
299-W19-21	Gross beta	8/26/93	136	6	3			pCi/L	8	B091H9	SW-846 9310, Beta
299-W19-21	Heptachlor	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	Heptachlor	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Heptachlor epoxide	11/02/89	17	0	0		U	ppb	1	H000B1R0	SW-846 8080
299-W19-21	Heptachlor epoxide	6/30/93	17	0			U	ppb	1	B08MQ1	SW-846 8080
299-W19-21	Hexachlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hexachlorobutadiene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachlorobutadiene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hexachlorocyclopentadiene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachlorocyclopentadiene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hexachloroethane	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachloroethane	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hexachlorophene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachlorophene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hexachloropropene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Hexachloropropene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Hydrazine	11/02/89	36	30	5		U	ppb	30	H000B1R0	ASTM D-1385
299-W19-21	Hydrogen sulfide	1/22/88	76	10			U	ppb		H000B1Q3	
299-W19-21	Hydrogen sulfide	8/19/88	76	10			U	ppb		H000B1Q6	
299-W19-21	Indeno(1,2,3-cd)pyrene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Indeno(1,2,3-cd)pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Iodine-129	4/04/90	77	0	0		U	pCi/L		H000B1R1	
299-W19-21	Iodine-129	3/09/92	139	-0	0		U	pCi/L	1	B01VD1	ITAS I-129 Low Level
299-W19-21	Iron	1/22/88	35	66				ppb		H000B1Q3	
299-W19-21	Iron	11/02/89	35	91	14			ppb		H000B1R0	
299-W19-21	Iron	2/03/93	34	50	43			ppb	20	B08413	SW-846 6010
299-W19-21	Iron	6/30/93	34	300	134			ppb	20	B08MQ1	SW-846 6010
299-W19-21	Iron, filtered	1/22/88	34	30		Y	U	ppb	20	H000B1Q3	SW-846 6010
299-W19-21	Iron, filtered	8/19/88	34	30		Y	U	ppb	20	H000B1Q6	SW-846 6010
299-W19-21	Iron, filtered	12/14/88	34	39		Y		ppb	20	H000B1Q8	SW-846 6010
299-W19-21	Iron, filtered	11/02/89	34	30	10	Y	U	ppb	20	H000B1R0	SW-846 6010
299-W19-21	Iron, filtered	4/04/90	34	30	10	Y	U	ppb	20	H000B1R1	SW-846 6010
299-W19-21	Iron, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY1	SW-846 6010
299-W19-21	Iron, filtered	8/12/92	34	37	32	Y		ppb	20	B074M2	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Iron, filtered	12/07/92	34			Y	U	ppb	20	B07QG2	SW-846 6010
299-W19-21	Iron, filtered	2/03/93	34	20		Y	U	ppb	20	B08414	SW-846 6010
299-W19-21	Iron, filtered	6/30/93	34	24	11	Y		ppb	20	B08MQ2	SW-846 6010
299-W19-21	Iron, filtered	8/26/93	34	15	7	Y	L	ppb	20	B091J1	SW-846 6010
299-W19-21	Isobutyl alcohol	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Isodrin	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	Isophorone	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Isosafrole	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Isosafrole	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Kepone	11/02/89	17	1	0		U	ppb		H000B1R0	SW-846 8080
299-W19-21	Kerosene	1/22/88	21	10000			U	ppb		H000B1Q3	
299-W19-21	Kerosene	11/02/89	21	10000	3500		U	ppb		H000B1R0	
299-W19-21	Lead	1/22/88	76	5			U	ppb		H000B1Q3	
299-W19-21	Lead	11/02/89	76	5	3		U	ppb		H000B1R0	
299-W19-21	Lead	6/30/93	40	1	0		L	ppb	5	B08MQ1	SW-846 7421
299-W19-21	Lead, filtered	1/22/88	40	5		Y	U	ppb	5	H000B1Q3	SW-846 7421
299-W19-21	Lead, filtered	12/14/88	40	5		Y	U	ppb	5	H000B1Q8	SW-846 7421
299-W19-21	Lead, filtered	11/02/89	40	5	3	Y	U	ppb	5	H000B1R0	SW-846 7421
299-W19-21	Lead, filtered	6/30/93	40	1		Y	U	ppb	5	B08MQ2	SW-846 7421
299-W19-21	Lithium	11/02/89	34	10	2	Y	U	ppb		H000B1R0	SW-846 6010
299-W19-21	Lithium	11/02/89	35	10	2		U	ppb		H000B1R0	
299-W19-21	Lithium	4/04/90	34	10	2	Y	U	ppb		H000B1R1	SW-846 6010
299-W19-21	Magnesium	1/22/88	35	5550				ppb		H000B1Q3	
299-W19-21	Magnesium	11/02/89	35	6260	1020			ppb		H000B1R0	
299-W19-21	Magnesium	2/03/93	34	7100				ppb	100	B08413	SW-846 6010
299-W19-21	Magnesium	6/30/93	34	7600	3990			ppb	100	B08MQ1	SW-846 6010
299-W19-21	Magnesium, filtered	1/22/88	34	5390		Y		ppb	100	H000B1Q3	SW-846 6010
299-W19-21	Magnesium, filtered	8/19/88	34	5720		Y		ppb	100	H000B1Q6	SW-846 6010
299-W19-21	Magnesium, filtered	12/14/88	34	6400		Y		ppb	100	H000B1Q8	SW-846 6010
299-W19-21	Magnesium, filtered	11/02/89	34	6250	1020	Y		ppb	100	H000B1R0	SW-846 6010
299-W19-21	Magnesium, filtered	4/04/90	34	6040	983	Y		ppb	100	H000B1R1	SW-846 6010
299-W19-21	Magnesium, filtered	4/30/92	34	6800		Y		ppb	100	B06DY1	SW-846 6010

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299-W19-21	Magnesium, filtered	8/12/92	34	6900		Y		ppb	100	B074M2	SW-846 6010
299-W19-21	Magnesium, filtered	12/07/92	34	6900		Y		ppb	100	B07QG2	SW-846 6010
299-W19-21	Magnesium, filtered	2/03/93	34	7000		Y		ppb	100	B08414	SW-846 6010
299-W19-21	Magnesium, filtered	6/30/93	34	7700	4040	Y		ppb	100	B08MQ2	SW-846 6010
299-W19-21	Magnesium, filtered	8/26/93	34	7700	4040	Y		ppb	100	B091J1	SW-846 6010
299-W19-21	Maleic hydrazide	1/22/88	21	500			U	ppb		H000B1Q3	
299-W19-21	Maleic hydrazide	11/02/89	21	500	175		U	ppb		H000B1R0	
299-W19-21	Malononitrile	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Malononitrile	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Manganese	1/22/88	35	9				ppb		H000B1Q3	
299-W19-21	Manganese	11/02/89	35	5	2		U	ppb		H000B1R0	
299-W19-21	Manganese	2/03/93	34	10			U	ppb	10	B08413	SW-846 6010
299-W19-21	Manganese	6/30/93	34	1			U	ppb	10	B08MQ1	SW-846 6010
299-W19-21	Manganese, filtered	1/22/88	34	5		Y	U	ppb	10	H000B1Q3	SW-846 6010
299-W19-21	Manganese, filtered	8/19/88	34	5		Y	U	ppb	10	H000B1Q6	SW-846 6010
299-W19-21	Manganese, filtered	12/14/88	34	5		Y	U	ppb	10	H000B1Q8	SW-846 6010
299-W19-21	Manganese, filtered	11/02/89	34	5	2	Y	U	ppb	10	H000B1R0	SW-846 6010
299-W19-21	Manganese, filtered	4/04/90	34	5	2	Y	U	ppb	10	H000B1R1	SW-846 6010
299-W19-21	Manganese, filtered	4/30/92	34	10		Y	U	ppb	10	B06DY1	SW-846 6010
299-W19-21	Manganese, filtered	8/12/92	34	10		Y	U	ppb	10	B074M2	SW-846 6010
299-W19-21	Manganese, filtered	12/07/92	34			Y	U	ppb	10	B07QG2	SW-846 6010
299-W19-21	Manganese, filtered	2/03/93	34	10		Y	U	ppb	10	B08414	SW-846 6010
299-W19-21	Manganese, filtered	6/30/93	34	1		Y	U	ppb	10	B08MQ2	SW-846 6010
299-W19-21	Manganese, filtered	8/26/93	34	3	1	Y	L	ppb	10	B091J1	SW-846 6010
299-W19-21	Melphalan	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Melphalan	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Mercury	6/30/93	41	0			U	ppb	0	B08MQ1	SW-846 7470
299-W19-21	Mercury, filtered	1/22/88	41	0		Y	U	ppb	0	H000B1Q3	SW-846 7470
299-W19-21	Mercury, filtered	11/02/89	41	0	0	Y	U	ppb	0	H000B1R0	SW-846 7470
299-W19-21	Mercury, filtered	6/30/93	41	0		Y	U	ppb	0	B08MQ2	SW-846 7470
299-W19-21	Methacrylonitrile	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Methacrylonitrile	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Methacrylonitrile	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Methanethiol	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Methanethiol	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Methanethiol	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Methapyrilene	1/22/88	19	10			U	ppb	10	H000B1Q3	SW-846 8270
299-W19-21	Methapyrilene	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	Metholonyl	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Metholonyl	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Methoxychlor	11/02/89	17	3	1		U	ppb	2	H000B1R0	SW-846 8080
299-W19-21	Methoxychlor	6/30/93	17	0			U	ppb	2	B08MQ1	SW-846 8080
299-W19-21	Methyl Iodide	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Methyl Iodide	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Methyl Iodide	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Methyl bromide	1/22/88	16	10			U	ppb	10	H000B1Q3	SW-846 8240
299-W19-21	Methyl bromide	8/19/88	16	10			U	ppb	10	H000B1Q6	SW-846 8240
299-W19-21	Methyl bromide	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Methyl chloride	1/22/88	16	10			U	ppb	10	H000B1Q3	SW-846 8240
299-W19-21	Methyl chloride	8/19/88	16	10			U	ppb	10	H000B1Q6	SW-846 8240
299-W19-21	Methyl chloride	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Methyl ethyl ketone	1/22/88	16	10			U	ppb	100	H000B1Q3	SW-846 8240
299-W19-21	Methyl ethyl ketone	8/19/88	16	10			U	ppb	100	H000B1Q6	SW-846 8240
299-W19-21	Methyl ethyl ketone	12/14/88	16	10			U	ppb	100	H000B1Q8	SW-846 8240
299-W19-21	Methyl ethyl ketone	11/02/89	16	10	4		U	ppb	100	H000B1R0	SW-846 8240
299-W19-21	Methyl ethyl ketone	4/04/90	16	10	4		U	ppb	100	H000B1R1	SW-846 8240
299-W19-21	Methyl ethyl ketone	3/09/92	16	100			U	ppb	100	B01VY2	SW-846 8240
299-W19-21	Methyl ethyl ketone	4/30/92	16	100			U	ppb	100	B06DX9	SW-846 8240
299-W19-21	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074M1	SW-846 8240
299-W19-21	Methyl ethyl ketone	12/07/92	16	100			U	ppb	100	B07QG1	SW-846 8240
299-W19-21	Methyl ethyl ketone	2/03/93	16	100			U	ppb	100	B08413	SW-846 8240
299-W19-21	Methyl methacrylate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Methyl methacrylate	8/19/88	21	10			U	ppb		H000B1Q6	
299-W19-21	Methyl methacrylate	11/02/89	21	10	4		U	ppb		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Methyl methanesulfonate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Methyl methanesulfonate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Methyl parathion	11/02/89	29	2	1		U	ppb	1	H000B1R0	SW-846 8140
299-W19-21	Methyl parathion	6/30/93	29	0			U	ppb	1	B08MQ1	SW-846 8140
299-W19-21	Methylene chloride	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Methylene chloride	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Methylene chloride	12/14/88	16	10			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Methylene chloride	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Methylene chloride	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Methylene chloride	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Methylene chloride	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Methylene chloride	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Methylene chloride	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Methylene chloride	2/03/93	16	2			U	ppb	5	B08413	SW-846 8240
299-W19-21	Methylthiouracil	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Methylthiouracil	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Molybdenum	11/02/89	34	40	5	Y	U	ppb		H000B1R0	SW-846 6010
299-W19-21	Molybdenum	11/02/89	35	40	5		U	ppb		H000B1R0	
299-W19-21	Molybdenum	4/04/90	34	40	5	Y	U	ppb		H000B1R1	SW-846 6010
299-W19-21	Monobutyl Phosphate	11/02/89	57	10000	3500		U	ppb		H000B1R0	
299-W19-21	N,N-Diethylhydrazine	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	N,N-Diethylhydrazine	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	N,N-Diethylhydrazine	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	N-Nitroso-N-methylurethane	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitroso-N-methylurethane	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitroso-di-n-dipropylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitroso-di-n-dipropylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosodi-n-butylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosodi-n-butylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosodiethanolamine	1/22/88	79	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosodiethanolamine	11/02/89	79	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosodiethylamine	1/22/88	21	10			U	ppb		H000B1Q3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	N-Nitrosodiethylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosodimethylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosodimethylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosodiphenylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosomethylethylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosomethylethylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosomethylvinylamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosomethylvinylamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosomorpholine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosomorpholine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrososornicotine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrososornicotine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Nitrosopiperidine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	N-Nitrosopiperidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	N-Phenylthiourea	11/02/89	18	500	150		U	ppb		H000B1R0	
299-W19-21	N-Propylamine	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Naphthalene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Naphthalene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Nickel	1/22/88	35	10			U	ppb		H000B1Q3	
299-W19-21	Nickel	11/02/89	35	10	3		U	ppb		H000B1R0	
299-W19-21	Nickel	2/03/93	34	30			U	ppb	30	B08413	SW-846 6010
299-W19-21	Nickel	6/30/93	34	18			U	ppb	30	B08MQ1	SW-846 6010
299-W19-21	Nickel, filtered	1/22/88	34	10		Y	U	ppb	30	H000B1Q3	SW-846 6010
299-W19-21	Nickel, filtered	8/19/88	34	10		Y	U	ppb	30	H000B1Q6	SW-846 6010
299-W19-21	Nickel, filtered	12/14/88	34	10		Y	U	ppb	30	H000B1Q8	SW-846 6010
299-W19-21	Nickel, filtered	11/02/89	34	10	3	Y	U	ppb	30	H000B1R0	SW-846 6010
299-W19-21	Nickel, filtered	4/04/90	34	10	3	Y	U	ppb	30	H000B1R1	SW-846 6010
299-W19-21	Nickel, filtered	4/30/92	34	30		Y	U	ppb	30	B06DY1	SW-846 6010
299-W19-21	Nickel, filtered	8/12/92	34	30		Y	U	ppb	30	B074M2	SW-846 6010
299-W19-21	Nickel, filtered	12/07/92	34			Y	U	ppb	30	B07QG2	SW-846 6010
299-W19-21	Nickel, filtered	2/03/93	34	30		Y	U	ppb	30	B08414	SW-846 6010
299-W19-21	Nickel, filtered	6/30/93	34	18		Y	U	ppb	30	B08MQ2	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Nickel, filtered	8/26/93	34	18		Y	U	ppb	30	B091J1	SW-846 6010
299-W19-21	Nicotinic acid	1/22/88	21	100			U	ppb		H000B1Q3	
299-W19-21	Nicotinic acid	11/02/89	21	100	35		U	ppb		H000B1R0	
299-W19-21	Nitrate	7/11/86	76	1	0			ppm		H000B1N7	
299-W19-21	Nitrate	8/05/86	76	1	0			ppm		H000B1N8	
299-W19-21	Nitrate	9/17/86	76	2	0			ppm		H000B1N9	
299-W19-21	Nitrate	10/06/86	46	824				ppb		H000B1P0	EPA 300.0
299-W19-21	Nitrate	11/05/86	46	500			U	ppb		H000B1P1	EPA 300.0
299-W19-21	Nitrate	12/11/86	46	1900				ppb		H000B1P2	EPA 300.0
299-W19-21	Nitrate	1/05/87	46	3020				ppb		H000B1P3	EPA 300.0
299-W19-21	Nitrate	2/09/87	46					ppb		H000B1P4	EPA 300.0
299-W19-21	Nitrate	3/11/87	46					ppb		H000B1P5	EPA 300.0
299-W19-21	Nitrate	4/19/87	46	1260				ppb		H000B1P6	EPA 300.0
299-W19-21	Nitrate	5/10/87	46					ppb		H000B1P7	EPA 300.0
299-W19-21	Nitrate	8/18/87	46	2500			U	ppb		H000B1P8	EPA 300.0
299-W19-21	Nitrate	9/16/87	46	2500			U	ppb		H000B1P9	EPA 300.0
299-W19-21	Nitrate	10/12/87	46	2500			U	ppb		H000B1Q0	EPA 300.0
299-W19-21	Nitrate	11/11/87	46	2500			U	ppb		H000B1Q1	EPA 300.0
299-W19-21	Nitrate	12/08/87	46	2500			U	ppb		H000B1Q2	EPA 300.0
299-W19-21	Nitrate	1/22/88	46	500			U	ppb		H000B1Q3	EPA 300.0
299-W19-21	Nitrate	1/22/88	46	2500			U	ppb		H000B1Q4	EPA 300.0
299-W19-21	Nitrate	5/18/88	46	2500			U	ppb		H000B1Q5	EPA 300.0
299-W19-21	Nitrate	8/19/88	46	500			U	ppb		H000B1Q6	EPA 300.0
299-W19-21	Nitrate	8/19/88	46	2500			U	ppb		H000B1Q7	EPA 300.0
299-W19-21	Nitrate	12/14/88	46	600				ppb		H000B1Q8	EPA 300.0
299-W19-21	Nitrate	1/04/89	46	2500	261		U	ppb		H000B1Q9	EPA 300.0
299-W19-21	Nitrate	11/02/89	46	700	98			ppb		H000B1R0	EPA 300.0
299-W19-21	Nitrate	4/04/90	46	500	84		U	ppb		H000B1R1	EPA 300.0
299-W19-21	Nitrate	3/09/92	124	300	169			ppb	200	B01VY2	ASTM D-4327-88
299-W19-21	Nitrate	4/30/92	124	500	281			ppb	200	B06DX9	ASTM D-4327-88
299-W19-21	Nitrate	8/12/92	124	300	169			ppb	200	B074M1	ASTM D-4327-88
299-W19-21	Nitrate	12/07/92	124	300	169			ppb	200	B07QG1	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Nitrate	2/03/93	124	200	113			ppb	200	B08413	ASTM D-4327-88
299-W19-21	Nitrate	6/30/93	124	400	35			ppb	200	B08MQ1	ASTM D-4327-88
299-W19-21	Nitrite	11/02/89	55	1000	118		U	ppb		H000B1R0	
299-W19-21	Nitrite	4/04/90	55	1000	118		U	ppb		H000B1R1	
299-W19-21	Nitrite	3/09/92	124	200			U	ppb	200	B01VY2	ASTM D-4327-88
299-W19-21	Nitrite	4/30/92	124	200			U	ppb	200	B06DX9	ASTM D-4327-88
299-W19-21	Nitrite	8/12/92	124	200			U	ppb	200	B074M1	ASTM D-4327-88
299-W19-21	Nitrite	12/07/92	124	200			U	ppb	200	B07QG1	ASTM D-4327-88
299-W19-21	Nitrite	2/03/93	124	200			U	ppb	200	B08413	ASTM D-4327-88
299-W19-21	Nitrite	6/30/93	124	38			U	ppb	200	B08MQ1	ASTM D-4327-88
299-W19-21	Nitrobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Nitrobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Nitrosopyrrolidine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Nitrosopyrrolidine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	0,0,0-Triethyl phosphorothioate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	0,0,0-Triethyl phosphorothioate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	0,0-diethyl0-2-pyrazinylphosphor...	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	PCDDs	11/02/89	51	0	0		U	ppb	0	H000B1R0	SW-846 8280
299-W19-21	PCDFs	11/02/89	51	0	0		U	ppb	0	H000B1R0	SW-846 8280
299-W19-21	Paraldehyde	11/02/89	28	10000	3500		U	ppb		H000B1R0	
299-W19-21	Parathion	11/02/89	29	2	1		U	ppb		H000B1R0	SW-846 8140
299-W19-21	Pentachlorobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Pentachlorobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Pentachloroethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Pentachloroethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Pentachloroethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Pentachloronitrobenzene (PCNB)	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Pentachloronitrobenzene (PCNB)	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Pentachlorophenol	1/22/88	21	50			U	ppb		H000B1Q3	
299-W19-21	Pentachlorophenol	11/02/89	21	50	18		U	ppb		H000B1R0	
299-W19-21	Perchlorate	11/02/89	46	500	52		U	ppb		H000B1R0	EPA 300.0
299-W19-21	Phenacetin	1/22/88	21	10			U	ppb		H000B1Q3	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Phenacetin	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Phenanthrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Phenol	1/22/88	32	10			U	ppb		H000B1Q3	
299-W19-21	Phenol	11/02/89	32	10	4		U	ppb		H000B1R0	
299-W19-21	Phenylenediamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Phenylenediamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Phorate	11/02/89	29	2	1		U	ppb	2	H000B1R0	SW-846 8140
299-W19-21	Phorate	6/30/93	29	0			U	ppb	2	B08MQ1	SW-846 8140
299-W19-21	Phosphate	1/22/88	46	1000			U	ppb		H000B1Q3	EPA 300.0
299-W19-21	Phosphate	8/19/88	46	1000			U	ppb		H000B1Q6	EPA 300.0
299-W19-21	Phosphate	12/14/88	46	1000			U	ppb		H000B1Q8	EPA 300.0
299-W19-21	Phosphate	11/02/89	46	1000	141		U	ppb		H000B1R0	EPA 300.0
299-W19-21	Phosphate	4/04/90	46	1000	141		U	ppb		H000B1R1	EPA 300.0
299-W19-21	Phosphate	3/09/92	124	400			U	ppb	400	B01VY2	ASTM D-4327-88
299-W19-21	Phosphate	3/09/92	124	400			U	ppb	500	B01VY2	ASTM D-4327-88
299-W19-21	Phosphate	4/30/92	124	400			U	ppb	400	B06DX9	ASTM D-4327-88
299-W19-21	Phosphate	4/30/92	124	400			U	ppb	500	B06DX9	ASTM D-4327-88
299-W19-21	Phosphate	8/12/92	124	400			U	ppb	400	B074M1	ASTM D-4327-88
299-W19-21	Phosphate	8/12/92	124	400			U	ppb	500	B074M1	ASTM D-4327-88
299-W19-21	Phosphate	12/07/92	124	400			U	ppb	400	B07QG1	ASTM D-4327-88
299-W19-21	Phosphate	12/07/92	124	400			U	ppb	500	B07QG1	ASTM D-4327-88
299-W19-21	Phosphate	2/03/93	124	400			U	ppb	400	B08413	ASTM D-4327-88
299-W19-21	Phosphate	2/03/93	124	400			U	ppb	500	B08413	ASTM D-4327-88
299-W19-21	Phosphate	6/30/93	124	147			U	ppb	400	B08MQ1	ASTM D-4327-88
299-W19-21	Phosphate	6/30/93	124	147			U	ppb	500	B08MQ1	ASTM D-4327-88
299-W19-21	Phthalic acid esters	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Phthalic acid esters	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Plutonium-238	7/11/86	77	0	0		U	pCi/L		H000B1N7	
299-W19-21	Plutonium-238	8/05/86	77	0	0		U	pCi/L		H000B1N8	
299-W19-21	Plutonium-238	9/17/86	77	0	0		U	pCi/L		H000B1N9	
299-W19-21	Plutonium-238	10/06/86	77	-0	0		U	pCi/L		H000B1P0	
299-W19-21	Plutonium-238	11/05/86	77	0	0		U	pCi/L		H000B1P1	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Plutonium-238	12/11/86	77	0	0		U	pCi/L		H000B1P2	
299-W19-21	Plutonium-238	1/05/87	77	0	0		U	pCi/L		H000B1P3	
299-W19-21	Plutonium-238	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Plutonium-238	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Plutonium-238	4/19/87	77	0	0		U	pCi/L		H000B1P6	
299-W19-21	Plutonium-238	1/22/88	77	-0	0		U	pCi/L		H000B1Q4	
299-W19-21	Plutonium-238	5/18/88	77	-0	0		U	pCi/L		H000B1Q5	
299-W19-21	Plutonium-238	8/19/88	77	0	0		U	pCi/L		H000B1Q7	
299-W19-21	Plutonium-238	1/04/89	77	-0	0		U	pCi/L		H000B1Q9	
299-W19-21	Plutonium-238	11/02/89	77	0	0		U	pCi/L		H000B1R0	
299-W19-21	Plutonium-238	6/30/93	146	-0	0		U	pCi/L	0	B08MQ1	ITAS Isotopic Pu
299-W19-21	Plutonium-239/40	7/11/86	77	0	0		U	pCi/L		H000B1N7	
299-W19-21	Plutonium-239/40	8/05/86	77	0	0		U	pCi/L		H000B1N8	
299-W19-21	Plutonium-239/40	9/17/86	77	0	0		U	pCi/L		H000B1N9	
299-W19-21	Plutonium-239/40	10/06/86	77	0	0		U	pCi/L		H000B1P0	
299-W19-21	Plutonium-239/40	11/05/86	77	0	0			pCi/L		H000B1P1	
299-W19-21	Plutonium-239/40	12/11/86	77	0	0		U	pCi/L		H000B1P2	
299-W19-21	Plutonium-239/40	1/05/87	77	0	0		U	pCi/L		H000B1P3	
299-W19-21	Plutonium-239/40	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Plutonium-239/40	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Plutonium-239/40	4/19/87	77	0	0		U	pCi/L		H000B1P6	
299-W19-21	Plutonium-239/40	1/22/88	77	-0	0		U	pCi/L		H000B1Q4	
299-W19-21	Plutonium-239/40	5/18/88	77	-0	0		U	pCi/L		H000B1Q5	
299-W19-21	Plutonium-239/40	8/19/88	77	-0	0		U	pCi/L		H000B1Q7	
299-W19-21	Plutonium-239/40	1/04/89	77	-0	0		U	pCi/L		H000B1Q9	
299-W19-21	Plutonium-239/40	11/02/89	77	-0	0		U	pCi/L		H000B1R0	
299-W19-21	Plutonium-239/40	6/30/93	146	0	0		U	pCi/L	0	B08MQ1	ITAS Isotopic Pu
299-W19-21	Potassium	1/22/88	35	3040				ppb		H000B1Q3	
299-W19-21	Potassium	11/02/89	35	2870	331			ppb		H000B1R0	
299-W19-21	Potassium	2/03/93	34	3500				ppb	300	B08413	SW-846 6010
299-W19-21	Potassium	2/03/93	34	3500				ppb	1000	B08413	SW-846 6010
299-W19-21	Potassium	6/30/93	34	2800	2680			ppb	300	B08MQ1	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Potassium	6/30/93	34	2800	2680			ppb	1000	B08MQ1	SW-846 6010
299-W19-21	Potassium, filtered	1/22/88	34	3070		Y		ppb	300	H000B1Q3	SW-846 6010
299-W19-21	Potassium, filtered	1/22/88	34	3070		Y		ppb	1000	H000B1Q3	SW-846 6010
299-W19-21	Potassium, filtered	8/19/88	34	3000		Y		ppb	300	H000B1Q6	SW-846 6010
299-W19-21	Potassium, filtered	8/19/88	34	3000		Y		ppb	1000	H000B1Q6	SW-846 6010
299-W19-21	Potassium, filtered	12/14/88	34	3020		Y		ppb	300	H000B1Q6	SW-846 6010
299-W19-21	Potassium, filtered	12/14/88	34	3020		Y		ppb	1000	H000B1Q8	SW-846 6010
299-W19-21	Potassium, filtered	11/02/89	34	2880	332	Y		ppb	300	H000B1R0	SW-846 6010
299-W19-21	Potassium, filtered	11/02/89	34	2880	332	Y		ppb	1000	H000B1R0	SW-846 6010
299-W19-21	Potassium, filtered	4/04/90	34	2620	303	Y		ppb	300	H000B1R1	SW-846 6010
299-W19-21	Potassium, filtered	4/04/90	34	2620	303	Y		ppb	1000	H000B1R1	SW-846 6010
299-W19-21	Potassium, filtered	4/30/92	34	2600		Y		ppb	300	B06DY1	SW-846 6010
299-W19-21	Potassium, filtered	4/30/92	34	2600		Y		ppb	1000	B06DY1	SW-846 6010
299-W19-21	Potassium, filtered	8/12/92	34	2600		Y		ppb	300	B074M2	SW-846 6010
299-W19-21	Potassium, filtered	8/12/92	34	2600		Y		ppb	1000	B074M2	SW-846 6010
299-W19-21	Potassium, filtered	12/07/92	34	2300		Y		ppb	300	B07QG2	SW-846 6010
299-W19-21	Potassium, filtered	12/07/92	34	2300		Y		ppb	1000	B07QG2	SW-846 6010
299-W19-21	Potassium, filtered	2/03/93	34	3200		Y		ppb	300	B08414	SW-846 6010
299-W19-21	Potassium, filtered	2/03/93	34	3200		Y		ppb	1000	B08414	SW-846 6010
299-W19-21	Potassium, filtered	6/30/93	34	2800	2680	Y		ppb	300	B08MQ2	SW-846 6010
299-W19-21	Potassium, filtered	6/30/93	34	2800	2680	Y		ppb	1000	B08MQ2	SW-846 6010
299-W19-21	Potassium, filtered	8/26/93	34	2900	2780	Y		ppb	300	B091J1	SW-846 6010
299-W19-21	Potassium, filtered	8/26/93	34	2900	2780	Y		ppb	1000	B091J1	SW-846 6010
299-W19-21	Pronamide	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Pronamide	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Propionitrile	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Pyrene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Pyridine	1/22/88	16	500			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Pyridine	8/19/88	16	500			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Pyridine	11/02/89	16	500	175		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Radium	1/22/88	77	0	0		U	pCi/L		H000B1Q3	
299-W19-21	Radium	11/02/89	77	-0	0		U	pCi/L		H000B1R0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Reserpine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Reserpine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Resorcinol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Resorcinol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Ruthenium-106	7/11/86	77	19	42		U	pCi/L		H000B1N7	
299-W19-21	Ruthenium-106	8/05/86	77	39	58		U	pCi/L		H000B1N8	
299-W19-21	Ruthenium-106	9/17/86	77	66	61			pCi/L		H000B1N9	
299-W19-21	Ruthenium-106	10/06/86	77	72	46			pCi/L		H000B1P0	
299-W19-21	Ruthenium-106	11/05/86	77	-12	47		U	pCi/L		H000B1P1	
299-W19-21	Ruthenium-106	12/11/86	77	64	63			pCi/L		H000B1P2	
299-W19-21	Ruthenium-106	1/05/87	77	18	54		U	pCi/L		H000B1P3	
299-W19-21	Ruthenium-106	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Ruthenium-106	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Ruthenium-106	4/19/87	77	22	68		U	pCi/L		H000B1P6	
299-W19-21	Ruthenium-106	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Ruthenium-106	8/18/87	77	73	43			pCi/L		H000B1P8	
299-W19-21	Ruthenium-106	9/16/87	77	42	46		U	pCi/L		H000B1P9	
299-W19-21	Ruthenium-106	10/12/87	77	-3	58		U	pCi/L		H000B1Q0	
299-W19-21	Ruthenium-106	11/11/87	77	5	51		U	pCi/L		H000B1Q1	
299-W19-21	Ruthenium-106	12/08/87	77	26	53		U	pCi/L		H000B1Q2	
299-W19-21	Ruthenium-106	1/22/88	77	-14	40		U	pCi/L		H000B1Q4	
299-W19-21	Ruthenium-106	5/18/88	77	-30	73		U	pCi/L		H000B1Q5	
299-W19-21	Ruthenium-106	8/19/88	77	26	69		U	pCi/L		H000B1Q7	
299-W19-21	Ruthenium-106	1/04/89	77	17	56		U	pCi/L		H000B1Q9	
299-W19-21	Ruthenium-106	11/02/89	77	-51	60		U	pCi/L		H000B1R0	
299-W19-21	Ruthenium-106	2/03/93	140	-67	61		U	pCi/L		B08413	ITAS Gamma Scan
299-W19-21	Safrol	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Safrol	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Selenium	1/22/88	76	5			U	ppb		H000B1Q3	
299-W19-21	Selenium	11/02/89	76	5	3		U	ppb		H000B1R0	
299-W19-21	Selenium	6/30/93	48	1			U	ppb	10	B08MQ1	SW-846 7740
299-W19-21	Selenium, filtered	1/22/88	48	5		Y	U	ppb	10	H000B1Q3	SW-846 7740

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Selenium, filtered	11/02/89	48	5	3	Y	U	ppb	10	H000B1R0	SW-846 7740
299-W19-21	Selenium, filtered	6/30/93	48	1		Y	U	ppb	10	B08MQ2	SW-846 7740
299-W19-21	Silicon	11/02/89	34	14600	2400	Y		ppb		H000B1R0	SW-846 6010
299-W19-21	Silicon	11/02/89	35	14700	2400			ppb		H000B1R0	
299-W19-21	Silicon	4/04/90	34	15000	2460	Y		ppb		H000B1R1	SW-846 6010
299-W19-21	Silver	1/22/88	35	10			U	ppb		H000B1Q3	
299-W19-21	Silver	11/02/89	35	10	2		U	ppb		H000B1R0	
299-W19-21	Silver	2/03/93	34	20			U	ppb	20	B08413	SW-846 6010
299-W19-21	Silver	6/30/93	34	3			U	ppb	20	B08MQ1	SW-846 6010
299-W19-21	Silver, filtered	1/22/88	34	10		Y	U	ppb	20	H000B1Q3	SW-846 6010
299-W19-21	Silver, filtered	8/19/88	34	10		Y	U	ppb	20	H000B1Q6	SW-846 6010
299-W19-21	Silver, filtered	12/14/88	34	10		Y	U	ppb	20	H000B1Q8	SW-846 6010
299-W19-21	Silver, filtered	11/02/89	34	10	2	Y	U	ppb	20	H000B1R0	SW-846 6010
299-W19-21	Silver, filtered	4/04/90	34	10	2	Y	U	ppb	20	H000B1R1	SW-846 6010
299-W19-21	Silver, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY1	SW-846 6010
299-W19-21	Silver, filtered	8/12/92	34	20		Y	U	ppb	20	B074M2	SW-846 6010
299-W19-21	Silver, filtered	12/07/92	34			Y	U	ppb	20	B07QG2	SW-846 6010
299-W19-21	Silver, filtered	2/03/93	34	20		Y	U	ppb	20	B08414	SW-846 6010
299-W19-21	Silver, filtered	6/30/93	34	3		Y	U	ppb	20	B08MQ2	SW-846 6010
299-W19-21	Silver, filtered	8/26/93	34	3		Y	U	ppb	20	B091J1	SW-846 6010
299-W19-21	Sodium	1/22/88	35	15100				ppb		H000B1Q3	
299-W19-21	Sodium	11/02/89	35	12600	1410			ppb		H000B1R0	
299-W19-21	Sodium	2/03/93	34	9700				ppb	300	B08413	SW-846 6010
299-W19-21	Sodium	6/30/93	34	8900	2780			ppb	300	B08MQ1	SW-846 6010
299-W19-21	Sodium, filtered	1/22/88	34	15200		Y		ppb	300	H000B1Q3	SW-846 6010
299-W19-21	Sodium, filtered	8/19/88	34	14500		Y		ppb	300	H000B1Q6	SW-846 6010
299-W19-21	Sodium, filtered	12/14/88	34	13600		Y		ppb	300	H000B1Q8	SW-846 6010
299-W19-21	Sodium, filtered	11/02/89	34	12600	1420	Y		ppb	300	H000B1R0	SW-846 6010
299-W19-21	Sodium, filtered	4/04/90	34	12100	1360	Y		ppb	300	H000B1R1	SW-846 6010
299-W19-21	Sodium, filtered	4/30/92	34	11000		Y		ppb	300	B06DY1	SW-846 6010
299-W19-21	Sodium, filtered	8/12/92	34	10000		Y		ppb	300	B074M2	SW-846 6010
299-W19-21	Sodium, filtered	12/07/92	34	9600		Y		ppb	300	B07QG2	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Sodium, filtered	2/03/93	34	9700		Y		ppb	300	B08414	SW-846 6010
299-W19-21	Sodium, filtered	6/30/93	34	9100	2840	Y		ppb	300	B08MQ2	SW-846 6010
299-W19-21	Sodium, filtered	8/26/93	34	9400	2930	Y		ppb	300	B091J1	SW-846 6010
299-W19-21	Specific conductance	1/22/88	76	178				umhos		H000B1Q3	
299-W19-21	Specific conductance	8/19/88	76	208				umhos		H000B1Q6	
299-W19-21	Specific conductance	12/14/88	76	1040				umhos		H000B1Q8	
299-W19-21	Specific conductance	11/02/89	76	198				umhos		H000B1R0	
299-W19-21	Specific conductance	4/04/90	73	197	20			umhos		H000B1R1	ASTM D-1125-A
299-W19-21	Specific conductance	4/04/90	76	189				umhos		H000B1R1	
299-W19-21	Specific conductance	3/20/91	76	283				umhos		H000B1R2	
299-W19-21	Specific conductance	12/03/91	94	449				umhos	1	H00072Z3	Probe, Conductivity
299-W19-21	Specific conductance	3/09/92	73	200				umhos		B01VY2	ASTM D-1125-A
299-W19-21	Specific conductance	3/09/92	94	189				umhos	1	B01VY2	Probe, Conductivity
299-W19-21	Specific conductance	4/30/92	73	190				umhos		B06DX9	ASTM D-1125-A
299-W19-21	Specific conductance	4/30/92	94	198				umhos	1	B06DX9	Probe, Conductivity
299-W19-21	Specific conductance	8/12/92	73	190				umhos		B074M1	ASTM D-1125-A
299-W19-21	Specific conductance	8/12/92	94	202				umhos	1	B074M1	Probe, Conductivity
299-W19-21	Specific conductance	12/07/92	73	200				umhos		B07QG1	ASTM D-1125-A
299-W19-21	Specific conductance	12/07/92	94	207				umhos	1	B07QG1	Probe, Conductivity
299-W19-21	Specific conductance	2/03/93	73	200				umhos		B08413	ASTM D-1125-A
299-W19-21	Specific conductance	2/03/93	94	196				umhos	1	B08413	Probe, Conductivity
299-W19-21	Specific conductance	8/26/93	94	195				umhos	1	B091H9	Probe, Conductivity
299-W19-21	Strontium	11/02/89	35	86	11			ppb		H000B1R0	
299-W19-21	Strontium, filtered	1/22/88	34	72		Y		ppb		H000B1Q3	SW-846 6010
299-W19-21	Strontium, filtered	8/19/88	34	78		Y		ppb		H000B1Q6	SW-846 6010
299-W19-21	Strontium, filtered	12/14/88	34	82		Y		ppb		H000B1Q8	SW-846 6010
299-W19-21	Strontium, filtered	11/02/89	34	84	11	Y		ppb		H000B1R0	SW-846 6010
299-W19-21	Strontium, filtered	4/04/90	34	81	10	Y		ppb		H000B1R1	SW-846 6010
299-W19-21	Strontium-90	7/11/86	77	0	1		U	pCi/L		H000B1N7	
299-W19-21	Strontium-90	8/05/86	77	0	1		U	pCi/L		H000B1N8	
299-W19-21	Strontium-90	9/17/86	77	0	1		U	pCi/L		H000B1N9	
299-W19-21	Strontium-90	10/06/86	77	0	1		U	pCi/L		H000B1P0	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Strontium-90	11/05/86	77	-0	1		U	pCi/L		H000B1P1	
299-W19-21	Strontium-90	12/11/86	77	0	1		U	pCi/L		H000B1P2	
299-W19-21	Strontium-90	1/05/87	77	0	1		U	pCi/L		H000B1P3	
299-W19-21	Strontium-90	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Strontium-90	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Strontium-90	4/19/87	77	0	1		U	pCi/L		H000B1P6	
299-W19-21	Strontium-90	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Strontium-90	8/18/87	77	0	1		U	pCi/L		H000B1P8	
299-W19-21	Strontium-90	9/16/87	77	0	1		U	pCi/L		H000B1P9	
299-W19-21	Strontium-90	10/12/87	77	0	1		U	pCi/L		H000B1Q0	
299-W19-21	Strontium-90	11/11/87	77	0	1		U	pCi/L		H000B1Q1	
299-W19-21	Strontium-90	12/08/87	77	0	1		U	pCi/L		H000B1Q2	
299-W19-21	Strontium-90	1/22/88	77	-0	1		U	pCi/L		H000B1Q4	
299-W19-21	Strontium-90	5/18/88	77	0	1		U	pCi/L		H000B1Q5	
299-W19-21	Strontium-90	8/19/88	77	0	1		U	pCi/L		H000B1Q7	
299-W19-21	Strontium-90	1/04/89	77	-0	1		U	pCi/L		H000B1Q9	
299-W19-21	Strontium-90	11/02/89	77	-0	1		U	pCi/L		H000B1R0	
299-W19-21	Strontium-90	2/03/93	141	-0	1		U	pCi/L	5	B08413	ITAS Sr-90
299-W19-21	Strontium-90	6/30/93	141	-0	0		U	pCi/L	5	B08M01	ITAS Sr-90
299-W19-21	Strychnine	1/22/88	21	50			U	ppb		H000B1Q3	
299-W19-21	Strychnine	11/02/89	21	50	18		U	ppb		H000B1R0	
299-W19-21	Styrene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Sulfate	1/22/88	46	10900				ppb		H000B1Q3	EPA 300.0
299-W19-21	Sulfate	8/19/88	46	11400				ppb		H000B1Q6	EPA 300.0
299-W19-21	Sulfate	12/14/88	46	12100				ppb		H000B1Q8	EPA 300.0
299-W19-21	Sulfate	11/02/89	46	13200	1320			ppb		H000B1R0	EPA 300.0
299-W19-21	Sulfate	4/04/90	46	9600	964			ppb		H000B1R1	EPA 300.0
299-W19-21	Sulfate	3/09/92	124	10000	9650			ppb	500	B01VY2	ASTM D-4327-88
299-W19-21	Sulfate	4/30/92	124	9600	9260			ppb	500	B06DX9	ASTM D-4327-88
299-W19-21	Sulfate	8/12/92	124	7600	7330			ppb	500	B074M1	ASTM D-4327-88
299-W19-21	Sulfate	12/07/92	124	11000	10600			ppb	500	B07QG1	ASTM D-4327-88
299-W19-21	Sulfate	2/03/93	124	7200	6950			ppb	500	B08413	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Sulfate	6/30/93	124	8800	428			ppb	500	B08MQ1	ASTM D-4327-88
299-W19-21	Sulfide	11/02/89	63	1000	208		U	ppb	10000	H000B1R0	SW-846 9030
299-W19-21	Sulfide	6/30/93	63	300			U	ppb	10000	B08MQ1	SW-846 9030
299-W19-21	Technetium-99	3/09/92	143	4	2			pCi/L	15	B01VD1	ITAS Tc-99
299-W19-21	Temperature, field	1/22/88	170	20				DegC	0	H000GJT6	Probe, temperature
299-W19-21	Temperature, field	8/19/88	170	19				DegC	0	H000GLJ7	Probe, temperature
299-W19-21	Temperature, field	12/14/88	170	18				DegC	0	H000GMY8	Probe, temperature
299-W19-21	Temperature, field	11/02/89	170	17				DegC	0	H000GPG7	Probe, temperature
299-W19-21	Temperature, field	4/04/90	170	18				DegC	0	H000GQO8	Probe, temperature
299-W19-21	Temperature, field	3/20/91	170	17				DegC	0	H000GSX3	Probe, temperature
299-W19-21	Temperature, field	12/03/91	170	16				DegC	0	H00072Z3	Probe, temperature
299-W19-21	Temperature, field	3/09/92	170	16				DegC	0	B01VY2	Probe, temperature
299-W19-21	Temperature, field	4/30/92	170	17				DegC	0	B06DX9	Probe, temperature
299-W19-21	Temperature, field	8/12/92	170	17				DegC	0	B074M1	Probe, temperature
299-W19-21	Temperature, field	12/07/92	170	17				DegC	0	B07QG1	Probe, temperature
299-W19-21	Temperature, field	2/03/93	170	17				DegC	0	B08413	Probe, temperature
299-W19-21	Temperature, field	8/26/93	170	17				DegC	0	B091H9	Probe, temperature
299-W19-21	Tetrachloroethene	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Tetrachloroethene	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Tetrachloroethene	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Tetrachloroethene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Tetrachloroethene	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Tetrachloroethene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Tetrachloroethene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Tetrachloroethene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Tetrachloroethene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Tetraethylpyrophosphate	11/02/89	29	2	1		U	ppb		H000B1R0	SW-846 8140
299-W19-21	Tetrahydrofuran	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Tetrahydrofuran	4/04/90	16	10	4		U	ppb	10	H000B1R1	SW-846 8240
299-W19-21	Tetrahydrofuran	3/09/92	16	10			U	ppb	10	B01VY2	SW-846 8240
299-W19-21	Tetrahydrofuran	4/30/92	16	10			U	ppb	10	B06DX9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074M1	SW-846 8240
299-W19-21	Tetrahydrofuran	12/07/92	16	10			U	ppb	10	B07QG1	SW-846 8240
299-W19-21	Tetrahydrofuran	2/03/93	16	10			U	ppb	10	B08413	SW-846 8240
299-W19-21	Thallium	11/02/89	76	5	3		U	ppb		H000B1R0	
299-W19-21	Thallium	6/30/93	42	1			U	ppb	5	B08MQ1	SW-846 7841
299-W19-21	Thallium, filtered	11/02/89	42	5	3	Y	U	ppb	5	H000B1R0	SW-846 7841
299-W19-21	Thallium, filtered	6/30/93	42	1		Y	U	ppb	5	B08MQ2	SW-846 7841
299-W19-21	Thiofanox	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Thiofanox	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Thiourea	11/02/89	18	200	40		U	ppb		H000B1R0	
299-W19-21	Thiuram	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Thiuram	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Tin	11/02/89	35	30	6		U	ppb		H000B1R0	
299-W19-21	Tin	2/03/93	34	100			U	ppb	100	B08413	SW-846 6010
299-W19-21	Tin	6/30/93	34	51			U	ppb	100	B08MQ1	SW-846 6010
299-W19-21	Tin, filtered	11/02/89	34	30	6	Y	U	ppb	100	H000B1R0	SW-846 6010
299-W19-21	Tin, filtered	4/04/90	34	30	6	Y	U	ppb	100	H000B1R1	SW-846 6010
299-W19-21	Tin, filtered	4/30/92	34	100		Y	U	ppb	100	B06DY1	SW-846 6010
299-W19-21	Tin, filtered	8/12/92	34	100		Y	U	ppb	100	B074M2	SW-846 6010
299-W19-21	Tin, filtered	12/07/92	34			Y	U	ppb	100	B07QG2	SW-846 6010
299-W19-21	Tin, filtered	2/03/93	34	100		Y	U	ppb	100	B08414	SW-846 6010
299-W19-21	Tin, filtered	6/30/93	34	51		Y	U	ppb	100	B08MQ2	SW-846 6010
299-W19-21	Tin, filtered	8/26/93	34	51		Y	U	ppb	100	B091J1	SW-846 6010
299-W19-21	Titanium	11/02/89	34	60	17	Y	U	ppb		H000B1R0	SW-846 6010
299-W19-21	Titanium	11/02/89	35	60	17		U	ppb		H000B1R0	
299-W19-21	Titanium	4/04/90	34	60	17	Y	U	ppb		H000B1R1	SW-846 6010
299-W19-21	Toluene	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Toluene	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Toluene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Toluene	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Toluene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Toluene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Toluene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Toluene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Toluene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Toluenediamine	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Toluenediamine	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Total Carbon	1/22/88	127	21400				ppb	2000	H000B1Q3	ASTM D-2579-A
299-W19-21	Total Carbon	8/19/88	127	20600				ppb	2000	H000B1Q6	ASTM D-2579-A
299-W19-21	Total Carbon	12/14/88	127	20200				ppb	2000	H000B1Q8	ASTM D-2579-A
299-W19-21	Total Carbon	11/02/89	127	20100	2160			ppb	2000	H000B1R0	ASTM D-2579-A
299-W19-21	Total Dissolved Solids	11/02/89	65	110000	11100			ppm	10	H000B1R0	Std Meth #209B
299-W19-21	Total Dissolved Solids	6/30/93	65	170				ppm	10	B08MQ1	Std Meth #209B
299-W19-21	Total Organic Carbon	1/22/88	66	408			U	ppb		H000B1Q3	
299-W19-21	Total Organic Carbon	8/19/88	66	430			U	ppb		H000B1Q6	
299-W19-21	Total Organic Carbon	12/14/88	66	500			U	ppb		H000B1Q8	
299-W19-21	Total Organic Carbon	11/02/89	66	600	76		U	ppb		H000B1R0	
299-W19-21	Total Organic Carbon	3/09/92	122	1000			U	ppb	1000	B01VY2	SW-846 9060
299-W19-21	Total Organic Carbon	4/30/92	122	1000			U	ppb	1000	B06DX9	SW-846 9060
299-W19-21	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074M1	SW-846 9060
299-W19-21	Total Organic Carbon	12/07/92	122	1000			U	ppb	1000	B07QG1	SW-846 9060
299-W19-21	Total Organic Carbon	2/03/93	122	1000			U	ppb	1000	B08413	SW-846 9060
299-W19-21	Total Organic Carbon	6/30/93	122	500			LB	ppb	1000	B08MQ1	SW-846 9060
299-W19-21	Total Organic Halogen	1/22/88	67	4			U	ppb	10	H000B1Q3	SW-846 9020
299-W19-21	Total Organic Halogen	11/02/89	67	10	4			ppb	10	H000B1R0	SW-846 9020
299-W19-21	Total Organic Halogen	4/04/90	67	6	4		U	ppb	10	H000B1R1	SW-846 9020
299-W19-21	Total Organic Halogen	3/09/92	67	10				ppb	10	B01VY2	SW-846 9020
299-W19-21	Total Organic Halogen	3/09/92	67	10			U	ppb	10	B01VY2	SW-846 9020
299-W19-21	Total Organic Halogen	4/30/92	67	10				ppb	10	B06DX9	SW-846 9020
299-W19-21	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074M1	SW-846 9020
299-W19-21	Total Organic Halogen	12/07/92	67	10			U	ppb	10	B07QG1	SW-846 9020
299-W19-21	Total Organic Halogen	2/03/93	67	10			U	ppb	10	B08413	SW-846 9020
299-W19-21	Total Organic Halogen	6/30/93	67	8			U	ppb	10	B08MQ1	SW-846 9020
299-W19-21	Total Organic Halogen	8/26/93	67	8			U	ppb	10	B091H9	SW-846 9020

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Toxaphene	11/02/89	37	1	0		U	ppb		H000B1R0	
299-W19-21	Toxaphene	6/30/93	17	1			U	ppb	2	B08MQ1	SW-846 8080
299-W19-21	Tributylphosphoric Acid	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Tributylphosphoric Acid	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Trichloroethene	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Trichloroethene	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Trichloroethene	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Trichloroethene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Trichloroethene	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Trichloroethene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Trichloroethene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Trichloroethene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Trichloroethene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Trichloroethene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Trichloromethanethiol	1/22/88	16	10			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Trichloromethanethiol	8/19/88	16	10			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Trichloromethanethiol	11/02/89	16	10	4		U	ppb		H000B1R0	SW-846 8240
299-W19-21	Trichloromonofluoromethane	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Trichloromonofluoromethane	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Trichloromonofluoromethane	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Tris(2,3-dibromopropyl) phosphate	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Tris(2,3-dibromopropyl) phosphate	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Tritium	7/11/86	77	182	323		U	pCi/L		H000B1N7	
299-W19-21	Tritium	8/05/86	77	240	315		U	pCi/L		H000B1N8	
299-W19-21	Tritium	9/17/86	77	-309	288		U	pCi/L		H000B1N9	
299-W19-21	Tritium	10/06/86	77	236	330		U	pCi/L		H000B1P0	
299-W19-21	Tritium	11/05/86	77	181	349		U	pCi/L		H000B1P1	
299-W19-21	Tritium	12/11/86	77	242	290		U	pCi/L		H000B1P2	
299-W19-21	Tritium	1/05/87	77	137	337		U	pCi/L		H000B1P3	
299-W19-21	Tritium	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Tritium	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Tritium	4/19/87	77	289	345		U	pCi/L		H000B1P6	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Tritium	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Tritium	8/18/87	77	309	321		U	pCi/L		H000B1P8	
299-W19-21	Tritium	9/16/87	77	-78	304		U	pCi/L		H000B1P9	
299-W19-21	Tritium	10/12/87	77	-97	320		U	pCi/L		H000B1Q0	
299-W19-21	Tritium	11/11/87	77					pCi/L		H000B1Q1	
299-W19-21	Tritium	12/08/87	77	164	257		U	pCi/L		H000B1Q2	
299-W19-21	Tritium	1/22/88	77	115	331		U	pCi/L		H000B1Q4	
299-W19-21	Tritium	5/18/88	77	96	308		U	pCi/L		H000B1Q5	
299-W19-21	Tritium	8/19/88	77	-18	258		U	pCi/L		H000B1Q7	
299-W19-21	Tritium	1/04/89	77	-103	300		U	pCi/L		H000B1Q9	
299-W19-21	Tritium	11/02/89	77	118	237		U	pCi/L		H000B1R0	
299-W19-21	Tritium	4/04/90	77	96	230		U	pCi/L		H000B1R1	
299-W19-21	Tritium	12/03/91	142	121	197		U	pCi/L	500	H00072Z3	ITAS H-3
299-W19-21	Tritium	3/09/92	142	31	198		U	pCi/L	500	B01VY2	ITAS H-3
299-W19-21	Tritium	4/30/92	142	58	227		U	pCi/L	500	B06DX9	ITAS H-3
299-W19-21	Tritium	8/12/92	142	-25	218		U	pCi/L	500	B074M1	ITAS H-3
299-W19-21	Tritium	12/07/92	142	19	231		U	pCi/L	500	B07QG1	ITAS H-3
299-W19-21	Tritium	2/03/93	142	67	213		U	pCi/L	500	B08413	ITAS H-3
299-W19-21	Tritium	6/30/93	142	62	226		U	pCi/L	500	B08MQ1	ITAS H-3
299-W19-21	Tritium	8/26/93	142	75	228		U	pCi/L	500	B091H9	ITAS H-3
299-W19-21	Turbidity	11/02/89	76	1	0			NTU		H000B1R0	
299-W19-21	Uranium	7/11/86	77	17	5			pCi/L		H000B1N7	
299-W19-21	Uranium	8/05/86	77	19	6			pCi/L		H000B1N8	
299-W19-21	Uranium	9/17/86	77	18	6			pCi/L		H000B1N9	
299-W19-21	Uranium	10/06/86	77	14	4			pCi/L		H000B1P0	
299-W19-21	Uranium	11/05/86	77	14	7			pCi/L		H000B1P1	
299-W19-21	Uranium	12/11/86	77	17	7			pCi/L		H000B1P2	
299-W19-21	Uranium	1/05/87	77	12	3			pCi/L		H000B1P3	
299-W19-21	Uranium	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Uranium	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Uranium	4/19/87	77	20	7			pCi/L		H000B1P6	
299-W19-21	Uranium	5/10/87	77					pCi/L		H000B1P7	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Uranium	8/18/87	77	25	8			pCi/L		H000B1P8	
299-W19-21	Uranium	9/16/87	77	27	8			pCi/L		H000B1P9	
299-W19-21	Uranium	10/12/87	77	27	8			pCi/L		H000B1Q0	
299-W19-21	Uranium	11/11/87	77	24	8			pCi/L		H000B1Q1	
299-W19-21	Uranium	12/08/87	77	20	6			pCi/L		H000B1Q2	
299-W19-21	Uranium	1/22/88	77	21	6			pCi/L		H000B1Q4	
299-W19-21	Uranium	5/18/88	77	15	5			pCi/L		H000B1Q5	
299-W19-21	Uranium	8/19/88	77	23	8			pCi/L		H000B1Q7	
299-W19-21	Uranium	1/04/89	77	22	7			pCi/L		H000B1Q9	
299-W19-21	Uranium	11/02/89	77	15	4			pCi/L		H000B1R0	
299-W19-21	Uranium	4/04/90	77	21	6			pCi/L		H000B1R1	
299-W19-21	Uranium	12/03/91	145	28	8			ppb	1	H00072Z3	ITAS Gross U
299-W19-21	Uranium	3/09/92	145	27	7			ppb	1	B01VY2	ITAS Gross U
299-W19-21	Uranium	4/30/92	145	25	7			ppb	1	B06DX9	ITAS Gross U
299-W19-21	Uranium	8/12/92	145	27	7			ppb	1	B074M1	ITAS Gross U
299-W19-21	Uranium	12/07/92	145	17	6			ppb	1	B07QG1	ITAS Gross U
299-W19-21	Uranium-234	7/11/86	77	9	1			pCi/L		H000B1N7	
299-W19-21	Uranium-234	8/05/86	77	9	1			pCi/L		H000B1N8	
299-W19-21	Uranium-234	9/17/86	77	7	1			pCi/L		H000B1N9	
299-W19-21	Uranium-234	10/06/86	77	6	1			pCi/L		H000B1P0	
299-W19-21	Uranium-234	11/05/86	77	6	1			pCi/L		H000B1P1	
299-W19-21	Uranium-234	12/11/86	77	6	1			pCi/L		H000B1P2	
299-W19-21	Uranium-234	1/05/87	77	6	1			pCi/L		H000B1P3	
299-W19-21	Uranium-234	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Uranium-234	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Uranium-234	4/19/87	77	8	1			pCi/L		H000B1P6	
299-W19-21	Uranium-234	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Uranium-234	1/22/88	77	7	1			pCi/L		H000B1Q4	
299-W19-21	Uranium-234	5/18/88	77	8	1			pCi/L		H000B1Q5	
299-W19-21	Uranium-234	8/19/88	77	7	1			pCi/L		H000B1Q7	
299-W19-21	Uranium-234	1/04/89	77	8	1			pCi/L		H000B1Q9	
299-W19-21	Uranium-234	6/30/93	148	2	0			pCi/L	0	B08MQ1	ITAS Isotopic U

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Uranium-235	7/11/86	77	0	0			pCi/L		H000B1N7	
299-W19-21	Uranium-235	8/05/86	77	0	0			pCi/L		H000B1N8	
299-W19-21	Uranium-235	9/17/86	77	0	0			pCi/L		H000B1N9	
299-W19-21	Uranium-235	10/06/86	77	0	0			pCi/L		H000B1P0	
299-W19-21	Uranium-235	11/05/86	77	0	0			pCi/L		H000B1P1	
299-W19-21	Uranium-235	12/11/86	77	0	0			pCi/L		H000B1P2	
299-W19-21	Uranium-235	1/05/87	77	0	0			pCi/L		H000B1P3	
299-W19-21	Uranium-235	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Uranium-235	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Uranium-235	4/19/87	77	0	0			pCi/L		H000B1P6	
299-W19-21	Uranium-235	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Uranium-235	1/22/88	77	0	0			pCi/L		H000B1Q4	
299-W19-21	Uranium-235	5/18/88	77	0	0			pCi/L		H000B1Q5	
299-W19-21	Uranium-235	8/19/88	77	0	0			pCi/L		H000B1Q7	
299-W19-21	Uranium-235	1/04/89	77	0	0			pCi/L		H000B1Q9	
299-W19-21	Uranium-235	6/30/93	148	0	0			pCi/L	0	B08MQ1	ITAS Isotopic U
299-W19-21	Uranium-238	7/11/86	77	9	1			pCi/L		H000B1N7	
299-W19-21	Uranium-238	8/05/86	77	9	1			pCi/L		H000B1N8	
299-W19-21	Uranium-238	9/17/86	77	7	1			pCi/L		H000B1N9	
299-W19-21	Uranium-238	10/06/86	77	6	1			pCi/L		H000B1P0	
299-W19-21	Uranium-238	11/05/86	77	6	1			pCi/L		H000B1P1	
299-W19-21	Uranium-238	12/11/86	77	6	1			pCi/L		H000B1P2	
299-W19-21	Uranium-238	1/05/87	77	6	1			pCi/L		H000B1P3	
299-W19-21	Uranium-238	2/09/87	77					pCi/L		H000B1P4	
299-W19-21	Uranium-238	3/11/87	77					pCi/L		H000B1P5	
299-W19-21	Uranium-238	4/19/87	77	9	1			pCi/L		H000B1P6	
299-W19-21	Uranium-238	5/10/87	77					pCi/L		H000B1P7	
299-W19-21	Uranium-238	1/22/88	77	7	1			pCi/L		H000B1Q4	
299-W19-21	Uranium-238	5/18/88	77	8	1			pCi/L		H000B1Q5	
299-W19-21	Uranium-238	8/19/88	77	8	1			pCi/L		H000B1Q7	
299-W19-21	Uranium-238	1/04/89	77	8	1			pCi/L		H000B1Q9	
299-W19-21	Uranium-238	2/03/93	145	22	6			ppb	1	B08413	ITAS Gross U

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Uranium-238	6/30/93	148	2	0			pCi/L	0	B08MQ1	ITAS Isotopic U
299-W19-21	Vanadium	1/22/88	35	27				ppb		H000B1Q3	
299-W19-21	Vanadium	11/02/89	35	20	4			ppb		H000B1R0	
299-W19-21	Vanadium	2/03/93	34	30			U	ppb	30	B08413	SW-846 6010
299-W19-21	Vanadium	6/30/93	34	4			U	ppb	30	B08MQ1	SW-846 6010
299-W19-21	Vanadium, filtered	1/22/88	34	27		Y		ppb	30	H000B1Q3	SW-846 6010
299-W19-21	Vanadium, filtered	8/19/88	34	23		Y		ppb	30	H000B1Q6	SW-846 6010
299-W19-21	Vanadium, filtered	12/14/88	34	29		Y		ppb	30	H000B1Q8	SW-846 6010
299-W19-21	Vanadium, filtered	11/02/89	34	20	4	Y		ppb	30	H000B1R0	SW-846 6010
299-W19-21	Vanadium, filtered	4/04/90	34	22	5	Y		ppb	30	H000B1R1	SW-846 6010
299-W19-21	Vanadium, filtered	4/30/92	34	30		Y	U	ppb	30	B06DY1	SW-846 6010
299-W19-21	Vanadium, filtered	8/12/92	34	30		Y	U	ppb	30	B074M2	SW-846 6010
299-W19-21	Vanadium, filtered	12/07/92	34			Y	U	ppb	30	B07QG2	SW-846 6010
299-W19-21	Vanadium, filtered	2/03/93	34	30		Y	U	ppb	30	B08414	SW-846 6010
299-W19-21	Vanadium, filtered	6/30/93	34	4		Y	U	ppb	30	B08MQ2	SW-846 6010
299-W19-21	Vanadium, filtered	8/26/93	34	20	4	Y	L	ppb	30	B091J1	SW-846 6010
299-W19-21	Vinyl acetate	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Vinyl chloride	1/22/88	16	10			U	ppb	10	H000B1Q3	SW-846 8240
299-W19-21	Vinyl chloride	8/19/88	16	10			U	ppb	10	H000B1Q6	SW-846 8240
299-W19-21	Vinyl chloride	11/02/89	16	10	4		U	ppb	10	H000B1R0	SW-846 8240
299-W19-21	Vinyl chloride	4/04/90	16	10	4		U	ppb	10	H000B1R1	SW-846 8240
299-W19-21	Vinyl chloride	3/09/92	16	10			U	ppb	10	B01VY2	SW-846 8240
299-W19-21	Vinyl chloride	4/30/92	16	10			U	ppb	10	B06DX9	SW-846 8240
299-W19-21	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074M1	SW-846 8240
299-W19-21	Vinyl chloride	12/07/92	16	10			U	ppb	10	B07QG1	SW-846 8240
299-W19-21	Vinyl chloride	2/03/93	16	10			U	ppb	10	B08413	SW-846 8240
299-W19-21	Warfarin	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	Warfarin	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	Xylenes	1/22/88	16	5			U	ppb		H000B1Q3	SW-846 8240
299-W19-21	Xylenes	8/19/88	16	5			U	ppb		H000B1Q6	SW-846 8240
299-W19-21	Xylenes	12/14/88	16	5			U	ppb		H000B1Q8	SW-846 8240
299-W19-21	Xylenes	11/02/89	16	5	2		U	ppb		H000B1R0	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	Xylenes	4/04/90	16	5	2		U	ppb		H000B1R1	SW-846 8240
299-W19-21	Xylenes (total)	1/22/88	16	5			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	Xylenes (total)	8/19/88	16	5			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	Xylenes (total)	12/14/88	16	5			U	ppb	5	H000B1Q8	SW-846 8240
299-W19-21	Xylenes (total)	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	Xylenes (total)	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	Xylenes (total)	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	Xylenes (total)	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	Xylenes (total)	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	Xylenes (total)	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	Zinc	1/22/88	35	11				ppb		H000B1Q3	
299-W19-21	Zinc	11/02/89	35	11	3			ppb		H000B1R0	
299-W19-21	Zinc	2/03/93	34	20	3			ppb	10	B08413	SW-846 6010
299-W19-21	Zinc	6/30/93	34	19	6			ppb	10	B08MQ1	SW-846 6010
299-W19-21	Zinc, filtered	1/22/88	34	7		Y		ppb	10	H000B1Q3	SW-846 6010
299-W19-21	Zinc, filtered	8/19/88	34	6		Y		ppb	10	H000B1Q6	SW-846 6010
299-W19-21	Zinc, filtered	12/14/88	34	46		Y		ppb	10	H000B1Q8	SW-846 6010
299-W19-21	Zinc, filtered	11/02/89	34	5	3	Y	U	ppb	10	H000B1R0	SW-846 6010
299-W19-21	Zinc, filtered	4/04/90	34	7	3	Y		ppb	10	H000B1R1	SW-846 6010
299-W19-21	Zinc, filtered	4/30/92	34	21	3	Y		ppb	10	B06DY1	SW-846 6010
299-W19-21	Zinc, filtered	8/12/92	34	10		Y	U	ppb	10	B074M2	SW-846 6010
299-W19-21	Zinc, filtered	12/07/92	34			Y	U	ppb	10	B07QG2	SW-846 6010
299-W19-21	Zinc, filtered	2/03/93	34	20	3	Y		ppb	10	B08414	SW-846 6010
299-W19-21	Zinc, filtered	6/30/93	34	3		Y	U	ppb	10	B08MQ2	SW-846 6010
299-W19-21	Zinc, filtered	8/26/93	34	3		Y	U	ppb	10	B091J1	SW-846 6010
299-W19-21	Zirconium	11/02/89	34	50	7	Y	U	ppb		H000B1R0	SW-846 6010
299-W19-21	Zirconium	11/02/89	35	50	7		U	ppb		H000B1R0	
299-W19-21	Zirconium	4/04/90	34	50	7	Y	U	ppb		H000B1R1	SW-846 6010
299-W19-21	allylchloride	11/02/89	16	100	35		U	ppb	100	H000B1R0	SW-846 8240
299-W19-21	gamma-BHC (Lindane)	11/02/89	17	0	0		U	ppb	0	H000B1R0	SW-846 8080
299-W19-21	gamma-BHC (Lindane)	6/30/93	17	0			U	ppb	0	B08MQ1	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	m-dinitrobenzene	1/22/88	19	10			U	ppb	10	H000B1Q3	SW-846 8270
299-W19-21	m-dinitrobenzene	11/02/89	19	10	4		U	ppb	10	H000B1R0	SW-846 8270
299-W19-21	o-Nitroaniline	11/02/89	74	10	4		U	ppb		H000B1R0	
299-W19-21	o-Nitroaniline	11/02/89	76	10	4		U	ppb		H000B1R0	
299-W19-21	o-Toluidine hydrochloride	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	o-Toluidine hydrochloride	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	p-Benzoquinone	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	p-Benzoquinone	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	p-Dimethylaminoazobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	p-Dimethylaminoazobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	pH	1/22/88	75	8						H000B1Q3	
299-W19-21	pH	1/22/88	76	8						H000B1Q3	
299-W19-21	pH	8/19/88	75	8						H000B1Q6	
299-W19-21	pH	8/19/88	76	8						H000B1Q6	
299-W19-21	pH	12/14/88	75	8						H000B1Q8	
299-W19-21	pH	12/14/88	76	8						H000B1Q8	
299-W19-21	pH	11/02/89	76	8						H000B1R0	
299-W19-21	pH	4/04/90	75	8	0					H000B1R1	
299-W19-21	pH	4/04/90	76	8						H000B1R1	
299-W19-21	pH	3/20/91	76	8						H000B1R2	
299-W19-21	pH	3/09/92	125	9				pH		B01VY2	ASTM D-1293
299-W19-21	pH	3/09/92	93	8					0	B01VY2	Probe, pH
299-W19-21	pH	4/30/92	125	8				pH		B06DX9	ASTM D-1293
299-W19-21	pH	4/30/92	93	9					0	B06DX9	Probe, pH
299-W19-21	pH	8/12/92	125	8				pH		B074M1	ASTM D-1293
299-W19-21	pH	8/12/92	93	9					0	B074M1	Probe, pH
299-W19-21	pH	12/07/92	125	9				pH		B07QG1	ASTM D-1293
299-W19-21	pH	12/07/92	93	9					0	B07QG1	Probe, pH
299-W19-21	pH	2/03/93	125	9				pH		B08413	ASTM D-1293
299-W19-21	pH	2/03/93	93	8					0	B08413	Probe, pH
299-W19-21	pH	6/30/93	125	9				pH		B08MQ1	ASTM D-1293
299-W19-21	pH	8/26/93	125	9				pH		B091H9	ASTM D-1293

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-21	pH	8/26/93	93	8					0	B091H9	Probe, pH
299-W19-21	sym-Trinitrobenzene	1/22/88	21	10			U	ppb		H000B1Q3	
299-W19-21	sym-Trinitrobenzene	11/02/89	21	10	4		U	ppb		H000B1R0	
299-W19-21	trans-1,2-Dichloroethylene	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	11/02/89	16	5	2		U	ppb	5	H000B1R0	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	4/04/90	16	5	2		U	ppb	5	H000B1R1	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	3/09/92	16	5			U	ppb	5	B01VY2	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	4/30/92	16	5			U	ppb	5	B06DX9	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074M1	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	12/07/92	16	5			U	ppb	5	B07QG1	SW-846 8240
299-W19-21	trans-1,2-Dichloroethylene	2/03/93	16	5			U	ppb	5	B08413	SW-846 8240
299-W19-21	trans-1,4-dichloro-2-butene	1/22/88	16	10			U	ppb	5	H000B1Q3	SW-846 8240
299-W19-21	trans-1,4-dichloro-2-butene	8/19/88	16	10			U	ppb	5	H000B1Q6	SW-846 8240
299-W19-21	trans-1,4-dichloro-2-butene	11/02/89	16	10	4		U	ppb	5	H000B1R0	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	1.1.1.2-Tetrachloroethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	1.1.1-Trichloroethane	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	1.1.2.2-Tetrachloroethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	1.1.2-Trichloroethane	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	1.1-Dichloroethane	11/02/89	45	5	2		U	ppb		H000B244	
299-W19-27	1.1-Dichloroethane	4/06/90	45	5	2		U	ppb		H000B245	
299-W19-27	1.1-Dichloroethane	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	1.1-Dichloroethane	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	1.1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	1.1-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	1.1-Dichloroethane	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	1.1-Dichloroethane	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	1.1-Dichloroethene	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1.1-Dimethylhydrazine	11/02/89	38	10	4		U	ppb		H000B244	
299-W19-27	1.2.3.4-tetrachlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1.2.3.5-tetrachlorobenzene	11/02/89	19	10	4		U	ppb		H000B244	SW-846 8270
299-W19-27	1.2.3-Trichloropropane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	1,2,3-trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,2,4,5-Tetrachlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,2,4-Trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,2-Dibromo-3-chloropropane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1,2-Dibromoethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1,2-Dichlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,2-Dichloroethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1,2-Dichloroethane	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	1,2-Dichloroethane	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	1,2-Dichloroethane	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	1,2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	1,2-Dichloroethane	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	1,2-Dichloroethane	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	1,2-Dichloroethane	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	1,2-Dichloropropane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	1,2-Dimethylhydrazine	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	1,2-Diphenylhydrazine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,3,5-trichlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1,3-Dichlorobenzene	11/02/89	20	10	4		U	ppb		H000B244	
299-W19-27	1,3-Dichloropropene	11/02/89	16	5	2		U	ppb		H000B244	
299-W19-27	1,4-Dichlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	11/02/89	24	5	2		U	ppb		H000B244	
299-W19-27	1,4-Dichlorobenzene	4/06/90	24	5	2		U	ppb		H000B244	
299-W19-27	1,4-Dichlorobenzene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	1,4-Dichlorobenzene	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	1,4-Dioxane	11/02/89	16	500	175		U	ppb	200	H000B244	SW-846 8240
299-W19-27	1,4-Naphtoquinone	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1-(o-Chlorophenyl)thiourea	11/02/89	18	200	60		U	ppb		H000B244	

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Downgradient Groundwater Data for Well 299-W19-27 Page 3

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	1-Acetyl-2-thiourea	11/02/89	18	200	40		U	ppb		H000B244	
299-W19-27	1-Butanol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	1-Butanol	2/27/92	16	1000			U	ppb	1000	B01VY6	SW-846 8240
299-W19-27	1-Butanol	4/30/92	16	1000			U	ppb	1000	B06DY3	SW-846 8240
299-W19-27	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074N1	SW-846 8240
299-W19-27	1-Butanol	8/12/92	16	1000			U	ppb	1000	B074N2	SW-846 8240
299-W19-27	1-Butanol	12/03/92	16	1000			U	ppb	1000	B07QG3	SW-846 8240
299-W19-27	1-Butanol	2/03/93	16	1000			U	ppb	1000	B08415	SW-846 8240
299-W19-27	1-Chloro-2,3-epoxypropane	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1-Naphthyl-2-thiourea	11/02/89	18	200	60		U	ppb		H000B244	
299-W19-27	1-Naphthylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	1-Propanol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	2,3,4,6-Tetrachlorophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,3,7,8-TCDD	11/02/89	51	0	0		U	ppb	0	H000B244	SW-846 8280
299-W19-27	2,4,5-T	11/02/89	49	2	0		U	ppb	2	H000B244	SW-846 8150
299-W19-27	2,4,5-T	6/29/93	49	0			U	ppb	2	B08MQ6	SW-846 8150
299-W19-27	2,4,5-TP	11/02/89	49	2	0		U	ppb	2	H000B244	SW-846 8150
299-W19-27	2,4,5-TP	6/29/93	49	0			U	ppb	2	B08MQ6	SW-846 8150
299-W19-27	2,4,5-Trichlorophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,4,6-Trichlorophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,4-D	11/02/89	49	2	0		U	ppb	10	H000B244	SW-846 8150
299-W19-27	2,4-D	6/29/93	49	0			U	ppb	10	B08MQ6	SW-846 8150
299-W19-27	2,4-Dichlorophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,4-Dinitrophenol	11/02/89	72	10	4		U	ppb		H000B244	
299-W19-27	2,4-Dinitrotoluene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,6-Bis(1,1-dimethylethyl)-4-methyl phen	11/02/89	76	20				??		H000B244	
299-W19-27	2,6-Dichlorophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2,6-Dinitrotoluene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Acetylaminofluorene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Chloroethyl vinyl ether	11/02/89	16	5	2		U	ppb		H000B244	SW-846 8240
299-W19-27	2-Chloronaphthalene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Chlorophenol	11/02/89	21	10	4		U	ppb		H000B244	

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Downgradient Groundwater Data for Well 299-W19-27 Page 4

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	2-Cyclohexyl-4,6-dinitrophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Hexanone	11/02/89	16	50	18		U	ppb	50	H000B244	SW-846 8240
299-W19-27	2-Methylaziridine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Methylactonitrile	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Methylnaphthalene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Naphthylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Picoline	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-Propyn-1-ol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	2-methyl-2-(methylthio) propionaldehyde-	11/02/89	76	10	4		U	ppb		H000B244	
299-W19-27	2-sec-Butyl-4,6-dinitrophenol (DNBP)	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	2-sec-Butyl-4,6-dinitrophenol (DNBP)	6/29/93	49	0			U	ppb	1	B08MQ6	SW-846 8150
299-W19-27	3,3'-Dichlorobenzidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	3,3'-Dimethoxybenzidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	3,3'-Dimethylbenzidine	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270
299-W19-27	3,3'-Dimethylbenzidine	11/02/89	19	10	4		U	ppb	50	H000B244	SW-846 8270
299-W19-27	3-Chloropropionitrile	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	3-Methylcholanthrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	3-Nitroaniline	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4,4'-DDD	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	4,4'-DDD	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	4,4'-DDE	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	4,4'-DDE	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	4,4'-DDT	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	4,4'-DDT	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	4,4'-Methylenebis(2-chloroaniline)	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4,6-Dinitro-2-methylphenol	11/02/89	72	10	4		U	ppb		H000B244	
299-W19-27	4-Aminobiphenyl	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Bromophenylphenyl ether	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Chloro-3-methylphenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Chloroaniline	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Methyl-2-pentanone	11/02/89	16	10	4		U	ppb	50	H000B244	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	4/06/90	16	10	4		U	ppb	50	H000B245	SW-846 8240

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Downgradient Groundwater Data for Well 299-W19-27 Page 5

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	4-Methyl-2-pentanone	2/27/92	16	50			U	ppb	50	B01VY6	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	4/30/92	16	50			U	ppb	50	B06DY3	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074N1	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	8/12/92	16	50			U	ppb	50	B074N2	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	12/03/92	16	50			U	ppb	50	B07QG3	SW-846 8240
299-W19-27	4-Methyl-2-pentanone	2/03/93	16	50			U	ppb	50	B08415	SW-846 8240
299-W19-27	4-Nitroaniline	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Nitrophenol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	4-Nitroquinoline-1-oxide	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	5-(Aminomethyl)-3-isoxazolo	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	5-Nitro-o-toluidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	7,12-Dimethylbenz[a]anthracene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	7H-Dibenzo[c,g]carbazole	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Acenaphthene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Acenaphthylene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Acetone	11/02/89	16	10	4		U	ppb	100	H000B244	SW-846 8240
299-W19-27	Acetone	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Acetone	4/06/90	16	10	4		U	ppb	100	H000B245	SW-846 8240
299-W19-27	Acetone	2/27/92	16	100			U	ppb	100	B01VY6	SW-846 8240
299-W19-27	Acetone	4/30/92	16	100			U	ppb	100	B06DY3	SW-846 8240
299-W19-27	Acetone	8/12/92	16	100			U	ppb	100	B074N1	SW-846 8240
299-W19-27	Acetone	8/12/92	16	100			U	ppb	100	B074N2	SW-846 8240
299-W19-27	Acetone	12/03/92	16	74			B	ppb	100	B07QG3	SW-846 8240
299-W19-27	Acetone	2/03/93	16	100			U	ppb	100	B08415	SW-846 8240
299-W19-27	Acetonitrile	11/02/89	16	10	4		U	ppb	200	H000B244	SW-846 8240
299-W19-27	Acetophenone	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Acrolein	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Acrylamide	11/02/89	28	1000	3500		U	ppb		H000B244	
299-W19-27	Acrylonitrile	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Aldrin	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Aldrin	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Alkalinity	6/29/93	52	90				ppm	50	B08MQ6	ASTM D-1067-A

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Downgradient Groundwater Data for Well 299-W19-27 Page 6

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Allyl alcohol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Alpha, alpha-Dimethylphenethylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Alpha-BHC	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Alpha-BHC	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Aluminum	11/02/89	34	150	20	Y	U	ppb	200	H000B244	SW-846 6010
299-W19-27	Aluminum	11/02/89	35	150	20		U	ppb		H000B244	
299-W19-27	Aluminum	4/06/90	34	150	20	Y	U	ppb	200	H000B245	SW-846 6010
299-W19-27	Aluminum	6/29/93	34	33			U	ppb	200	B08MQ6	SW-846 6010
299-W19-27	Aluminum	6/29/93	34	33		Y	U	ppb	200	B08MQ7	SW-846 6010
299-W19-27	Aluminum	8/26/93	34	39		Y	L	ppb	200	B091J4	SW-846 6010
299-W19-27	Americium-241	11/02/89	77	0	0		U	pCi/L		H000B244	
299-W19-27	Americium-241	2/27/92	147	-0	0		U	pCi/L	0	B01VY6	ITAS Am-241
299-W19-27	Americium-241	2/03/93	147	-0	0		U	pCi/L	0	B08415	ITAS Am-241
299-W19-27	Americium-241	6/29/93	147	-0	0		U	pCi/L	0	B08MQ6	ITAS Am-241
299-W19-27	Amitrole	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Ammonium ion	11/02/89	54	50	7		U	ppb	100	H000B244	ASTM D-1426-D
299-W19-27	Ammonium ion	6/29/93	54	39			U	ppb	100	B08MQ6	ASTM D-1426-D
299-W19-27	Aniline	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Anthracene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Antimony	11/02/89	35	100	14		U	ppb		H000B244	
299-W19-27	Antimony	2/03/93	34	200			U	ppb	200	B08415	SW-846 6010
299-W19-27	Antimony	6/29/93	34	69			U	ppb	200	B08MQ6	SW-846 6010
299-W19-27	Antimony, filtered	11/02/89	34	100	14	Y	U	ppb	200	H000B244	SW-846 6010
299-W19-27	Antimony, filtered	4/06/90	34	100	14	Y	U	ppb	200	H000B245	SW-846 6010
299-W19-27	Antimony, filtered	4/30/92	34	200		Y	U	ppb	200	B06DY4	SW-846 6010
299-W19-27	Antimony, filtered	8/12/92	34	200		Y	U	ppb	200	B074N3	SW-846 6010
299-W19-27	Antimony, filtered	8/12/92	34	200		Y	U	ppb	200	B074N4	SW-846 6010
299-W19-27	Antimony, filtered	12/03/92	34	200		Y	U	ppb	200	B07QG4	SW-846 6010
299-W19-27	Antimony, filtered	2/03/93	34	200		Y	U	ppb	200	B08416	SW-846 6010
299-W19-27	Antimony, filtered	6/29/93	34	69		Y	U	ppb	200	B08MQ7	SW-846 6010
299-W19-27	Antimony, filtered	8/26/93	34	69		Y	U	ppb	200	B091J4	SW-846 6010
299-W19-27	Antimony-125	2/03/93	140	-6	22		U	pCi/L		B08415	ITAS Gamma Scan

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Aramite	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Aroclor-1016	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1016	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1221	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1221	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1232	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1232	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1242	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1242	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1248	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1248	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1254	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1254	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Aroclor-1260	11/02/89	33	1	0		U	ppb		H000B244	
299-W19-27	Aroclor-1260	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Arsenic	11/02/89	43	12	4			ppb	5	H000B244	SW-846 7060
299-W19-27	Arsenic	6/29/93	43	13	10			ppb	5	B08MQ6	SW-846 7060
299-W19-27	Arsenic, filtered	11/02/89	76	12	4	Y		ppb		H000B244	
299-W19-27	Arsenic, filtered	6/29/93	43	12	10	Y		ppb	5	B08MQ7	SW-846 7060
299-W19-27	Auramine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Barium	11/02/89	35	21	3			ppb		H000B244	
299-W19-27	Barium	2/03/93	34	20			U	ppb	20	B08415	SW-846 6010
299-W19-27	Barium	6/29/93	34	0			U	ppb	20	B08MQ6	SW-846 6010
299-W19-27	Barium, filtered	11/02/89	34	18	3	Y		ppb	20	H000B244	SW-846 6010
299-W19-27	Barium, filtered	4/06/90	34	16	3	Y		ppb	20	H000B245	SW-846 6010
299-W19-27	Barium, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY4	SW-846 6010
299-W19-27	Barium, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Barium, filtered	8/12/92	34	20		Y	U	ppb	20	B074N4	SW-846 6010
299-W19-27	Barium, filtered	12/03/92	34	20		Y	U	ppb	20	B07Q64	SW-846 6010
299-W19-27	Barium, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Barium, filtered	6/29/93	34	0		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Barium, filtered	8/26/93	34	18	0	Y	L	ppb	20	B091J4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Benz[c]acridine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Benzene	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Benzene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Benzene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Benzene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Benzene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Benzene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Benzene	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Benzene, dichloromethyl-	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzenethiol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(a)anthracene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(a)pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(b)fluoranthene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(ghi)perylene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(j)fluoranthene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzo(k)fluoranthene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzyl alcohol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Benzyl chloride	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Beryllium	11/02/89	35	5	1		U	ppb		H000B244	
299-W19-27	Beryllium	2/03/93	34	3			U	ppb	3	B08415	SW-846 6010
299-W19-27	Beryllium	6/29/93	34	1			U	ppb	3	B08MQ6	SW-846 6010
299-W19-27	Beryllium, filtered	11/02/89	34	5	1	Y	U	ppb	3	H000B244	SW-846 6010
299-W19-27	Beryllium, filtered	4/06/90	34	5	1	Y	U	ppb	3	H000B245	SW-846 6010
299-W19-27	Beryllium, filtered	4/30/92	34	3		Y	U	ppb	3	B06DY4	SW-846 6010
299-W19-27	Beryllium, filtered	8/12/92	34	3		Y	U	ppb	3	B074N3	SW-846 6010
299-W19-27	Beryllium, filtered	8/12/92	34	3		Y	U	ppb	3	B074N4	SW-846 6010
299-W19-27	Beryllium, filtered	12/03/92	34	3		Y	U	ppb	3	B07QG4	SW-846 6010
299-W19-27	Beryllium, filtered	2/03/93	34	3		Y	U	ppb	3	B08416	SW-846 6010
299-W19-27	Beryllium, filtered	6/29/93	34	1		Y	U	ppb	3	B08MQ7	SW-846 6010
299-W19-27	Beryllium, filtered	8/26/93	34	1		Y	U	ppb	3	B091J4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Beta-BHC	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Beta-BHC	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Bis(2-Chloroethoxy)methane	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Bis(2-chloro-1-methylethyl)ether	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Bis(2-chloroethyl) ether	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Bis(2-chloroisopropyl) ether	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Bis(2-ethylhexyl) phthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Bis(chloromethyl) ether	11/02/89	16	5	2		U	ppb		H000B244	SW-846 8240
299-W19-27	Boron	11/02/89	35	36	6			ppb		H000B244	
299-W19-27	Boron, filtered	11/02/89	34	33	6	Y		ppb		H000B244	SW-846 6010
299-W19-27	Boron, filtered	4/06/90	34	43	7	Y		ppb		H000B245	SW-846 6010
299-W19-27	Bromide	11/02/89	46	1000	111		U	ppb		H000B244	EPA 300.0
299-W19-27	Bromide	4/06/90	46	1000	111		U	ppb		H000B245	EPA 300.0
299-W19-27	Bromide	2/27/92	124	500			U	ppb	500	B01VY6	ASTM D-4327-88
299-W19-27	Bromide	4/30/92	124	500			U	ppb	500	B06DY3	ASTM D-4327-88
299-W19-27	Bromide	8/12/92	124	500			U	ppb	500	B074N1	ASTM D-4327-88
299-W19-27	Bromide	8/12/92	124	500			U	ppb	500	B074N2	ASTM D-4327-88
299-W19-27	Bromide	12/03/92	124	500			U	ppb	500	B07QG3	ASTM D-4327-88
299-W19-27	Bromide	2/03/93	124	500			U	ppb	500	B08415	ASTM D-4327-88
299-W19-27	Bromide	6/29/93	124	53			U	ppb	500	B08MQ6	ASTM D-4327-88
299-W19-27	Bromoacetone	11/02/89	16	5	2		U	ppb		H000B244	SW-846 8240
299-W19-27	Bromodichloromethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Bromoform	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Butylbenzylphthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Cadmium	11/02/89	35	2	1		U	ppb		H000B244	
299-W19-27	Cadmium	2/03/93	34	10			U	ppb	10	B08415	SW-846 6010
299-W19-27	Cadmium	6/29/93	34	5			U	ppb	10	B08MQ6	SW-846 6010
299-W19-27	Cadmium, filtered	11/02/89	34	2	1	Y	U	ppb	10	H000B244	SW-846 6010
299-W19-27	Cadmium, filtered	4/06/90	34	2	1	Y	U	ppb	10	H000B245	SW-846 6010
299-W19-27	Cadmium, filtered	4/30/92	34	10		Y	U	ppb	10	B06DY4	SW-846 6010
299-W19-27	Cadmium, filtered	8/12/92	34	10		Y	U	ppb	10	B074N3	SW-846 6010
299-W19-27	Cadmium, filtered	8/12/92	34	10		Y	U	ppb	10	B074N4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Cadmium, filtered	12/03/92	34	10		Y	U	ppb	10	B07QG4	SW-846 6010
299-W19-27	Cadmium, filtered	2/03/93	34	10		Y	U	ppb	10	B08416	SW-846 6010
299-W19-27	Cadmium, filtered	6/29/93	34	5		Y	U	ppb	10	B08MQ7	SW-846 6010
299-W19-27	Cadmium, filtered	8/26/93	34	5		Y	U	ppb	10	B091J4	SW-846 6010
299-W19-27	Calcium	11/02/89	35	16700	2150			ppb		H000B244	
299-W19-27	Calcium	2/03/93	34	18000				ppb	100	B08415	SW-846 6010
299-W19-27	Calcium	6/29/93	34	17000	5150			ppb	100	B08MQ6	SW-846 6010
299-W19-27	Calcium, filtered	11/02/89	34	16400	2100	Y		ppb	100	H000B244	SW-846 6010
299-W19-27	Calcium, filtered	4/06/90	34	15600	2010	Y		ppb	100	H000B245	SW-846 6010
299-W19-27	Calcium, filtered	4/30/92	34	18000		Y		ppb	100	B06DY4	SW-846 6010
299-W19-27	Calcium, filtered	8/12/92	34	11000		Y		ppb	100	B074N3	SW-846 6010
299-W19-27	Calcium, filtered	8/12/92	34	18000		Y		ppb	100	B074N4	SW-846 6010
299-W19-27	Calcium, filtered	12/03/92	34	18000		Y		ppb	100	B07QG4	SW-846 6010
299-W19-27	Calcium, filtered	2/03/93	34	17000		Y		ppb	100	B08416	SW-846 6010
299-W19-27	Calcium, filtered	6/29/93	34	17000	5150	Y		ppb	100	B08MQ7	SW-846 6010
299-W19-27	Calcium, filtered	8/26/93	34	18000	5450	Y		ppb	100	B091J4	SW-846 6010
299-W19-27	Carbon disulfide	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Carbon tetrachloride	11/02/89	16	7	2			ppb	5	H000B244	SW-846 8240
299-W19-27	Carbon tetrachloride	4/06/90	16	13	3			ppb	5	H000B245	SW-846 8240
299-W19-27	Carbon tetrachloride	2/27/92	16	11				ppb	5	B01VY6	SW-846 8240
299-W19-27	Carbon tetrachloride	4/30/92	16	17				ppb	5	B06DY3	SW-846 8240
299-W19-27	Carbon tetrachloride	8/12/92	16	13				ppb	5	B074N1	SW-846 8240
299-W19-27	Carbon tetrachloride	8/12/92	16	11				ppb	5	B074N2	SW-846 8240
299-W19-27	Carbon tetrachloride	12/03/92	16	17				ppb	5	B07QG3	SW-846 8240
299-W19-27	Carbon tetrachloride	2/03/93	16	12				ppb	5	B08415	SW-846 8240
299-W19-27	Carbonphenothion	11/02/89	29	2	1		U	ppb		H000B244	SW-846 8140
299-W19-27	Cesium-137	7/01/87	77	-2	11		U	pCi/L		H000B232	
299-W19-27	Cesium-137	7/20/87	77					pCi/L		H000B233	
299-W19-27	Cesium-137	8/18/87	77	0	4		U	pCi/L		H000B234	
299-W19-27	Cesium-137	9/16/87	77	-14	10		U	pCi/L		H000B235	
299-W19-27	Cesium-137	10/12/87	77	5	7		U	pCi/L		H000B236	
299-W19-27	Cesium-137	11/11/87	77	1	7		U	pCi/L		H000B237	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Cesium-137	12/08/87	77	2	6		U	pCi/L		H000B238	
299-W19-27	Cesium-137	1/11/88	77	-1	4		U	pCi/L		H000B239	
299-W19-27	Cesium-137	5/18/88	77	-2	5		U	pCi/L		H000B240	
299-W19-27	Cesium-137	7/22/88	77	0	5		U	pCi/L		H000B241	
299-W19-27	Cesium-137	11/30/88	77	3	6		U	pCi/L		H000B242	
299-W19-27	Cesium-137	2/01/89	77	2	5		U	pCi/L		H000B243	
299-W19-27	Cesium-137	11/02/89	77	-2	7		U	pCi/L		H000B244	
299-W19-27	Cesium-137	2/03/93	140	7	7		U	pCi/L	20	B08415	ITAS Gamma Scan
299-W19-27	Chlordane	11/02/89	17	1	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Chlordane	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Chloride	11/02/89	46	1300	137			ppb		H000B244	EPA 300.0
299-W19-27	Chloride	4/06/90	46	1200	127			ppb		H000B245	EPA 300.0
299-W19-27	Chloride	2/27/92	124	1100	370			ppb	200	B01VY6	ASTM D-4327-88
299-W19-27	Chloride	4/30/92	124	1200	404			ppb	200	B06DY3	ASTM D-4327-88
299-W19-27	Chloride	8/12/92	124	1100	370			ppb	200	B074N1	ASTM D-4327-88
299-W19-27	Chloride	8/12/92	124	1100	370			ppb	200	B074N2	ASTM D-4327-88
299-W19-27	Chloride	12/03/92	124	1000	337			ppb	200	B07QG3	ASTM D-4327-88
299-W19-27	Chloride	2/03/93	124	1000	337			ppb	200	B08415	ASTM D-4327-88
299-W19-27	Chloride	6/29/93	124	1300	215			ppb	200	B08MQ6	ASTM D-4327-88
299-W19-27	Chlornaphazine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Chloroalkyl ethers	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Chlorobenzene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Chlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Chlorobenzilate	11/02/89	17	300	75		U	ppb		H000B244	SW-846 8080
299-W19-27	Chloroethane	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Chloroform	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Chloroform	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Chloroform	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Chloroform	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Chloroform	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Chloroform	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Chloroform	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Chloroform	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Chloromethyl methyl ether	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	Chromium	11/02/89	35	10	5		U	ppb		H000B244	
299-W19-27	Chromium	2/03/93	34	20			U	ppb	20	B08415	SW-846 6010
299-W19-27	Chromium	6/29/93	34	5			U	ppb	20	B08MQ6	SW-846 6010
299-W19-27	Chromium, filtered	11/02/89	34	10	5	Y	U	ppb	20	H000B244	SW-846 6010
299-W19-27	Chromium, filtered	4/06/90	34	10	5	Y	U	ppb	20	H000B245	SW-846 6010
299-W19-27	Chromium, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY4	SW-846 6010
299-W19-27	Chromium, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Chromium, filtered	8/12/92	34	20		Y	U	ppb	20	B074N4	SW-846 6010
299-W19-27	Chromium, filtered	12/03/92	34	20		Y	U	ppb	20	B07QG4	SW-846 6010
299-W19-27	Chromium, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Chromium, filtered	6/29/93	34	5		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Chromium, filtered	8/26/93	34	5		Y	U	ppb	20	B091J4	SW-846 6010
299-W19-27	Chrysene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Citrus red No. 2	11/02/89	39	1000	135		U	ppb		H000B244	
299-W19-27	Cobalt	11/02/89	35	20	3		U	ppb		H000B244	
299-W19-27	Cobalt	2/03/93	34	20			U	ppb	20	B08415	SW-846 6010
299-W19-27	Cobalt	6/29/93	34	4			U	ppb	20	B08MQ6	SW-846 6010
299-W19-27	Cobalt, filtered	11/02/89	34	20	3	Y	U	ppb	20	H000B244	SW-846 6010
299-W19-27	Cobalt, filtered	4/06/90	34	20	3	Y	U	ppb	20	H000B245	SW-846 6010
299-W19-27	Cobalt, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY4	SW-846 6010
299-W19-27	Cobalt, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Cobalt, filtered	8/12/92	34	20		Y	U	ppb	20	B074N4	SW-846 6010
299-W19-27	Cobalt, filtered	12/03/92	34	20		Y	U	ppb	20	B07QG4	SW-846 6010
299-W19-27	Cobalt, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Cobalt, filtered	6/29/93	34	4		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Cobalt, filtered	8/26/93	34	4	1	Y	L	ppb	20	B091J4	SW-846 6010
299-W19-27	Cobalt-60	7/01/87	77	3	10		U	pCi/L		H000B232	
299-W19-27	Cobalt-60	7/20/87	77					pCi/L		H000B233	
299-W19-27	Cobalt-60	8/18/87	77	-8	9		U	pCi/L		H000B234	
299-W19-27	Cobalt-60	9/16/87	77	5	5		U	pCi/L		H000B235	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Cobalt-60	10/12/87	77	3	4		U	pCi/L		H000B236	
299-W19-27	Cobalt-60	11/11/87	77	5	5		U	pCi/L		H000B237	
299-W19-27	Cobalt-60	12/08/87	77	5	8		U	pCi/L		H000B238	
299-W19-27	Cobalt-60	1/11/88	77	-1	7		U	pCi/L		H000B239	
299-W19-27	Cobalt-60	5/18/88	77	3	4		U	pCi/L		H000B240	
299-W19-27	Cobalt-60	7/22/88	77	-0	7		U	pCi/L		H000B241	
299-W19-27	Cobalt-60	11/30/88	77	5	7		U	pCi/L		H000B242	
299-W19-27	Cobalt-60	2/01/89	77	0	6		U	pCi/L		H000B243	
299-W19-27	Cobalt-60	11/02/89	77	-0	4		U	pCi/L		H000B244	
299-W19-27	Cobalt-60	2/03/93	140	-0	7		U	pCi/L		B08415	ITAS Gamma Scan
299-W19-27	Copper	11/02/89	35	10	3		U	ppb		H000B244	
299-W19-27	Copper	2/03/93	34	20			U	ppb	20	B08415	SW-846 6010
299-W19-27	Copper	6/29/93	34	3			U	ppb	20	B08MQ6	SW-846 6010
299-W19-27	Copper, filtered	11/02/89	34	10	3	Y	U	ppb	20	H000B244	SW-846 6010
299-W19-27	Copper, filtered	4/06/90	34	10	3	Y	U	ppb	20	H000B245	SW-846 6010
299-W19-27	Copper, filtered	4/30/92	34	20		Y	U	ppb	20	B05DY4	SW-846 6010
299-W19-27	Copper, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Copper, filtered	8/12/92	34	20		Y	U	ppb	20	B074N4	SW-846 6010
299-W19-27	Copper, filtered	12/03/92	34	20		Y	U	ppb	20	B07QG4	SW-846 6010
299-W19-27	Copper, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Copper, filtered	6/29/93	34	3		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Copper, filtered	8/26/93	34	3		Y	U	ppb	20	B091J4	SW-846 6010
299-W19-27	Cresols (methylphenols)	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Crotonaldehyde	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	Cyanide	11/02/89	56	10	3		U	ppb	20	H000B244	SW-846 9010
299-W19-27	Cyanide	2/27/92	56	20			U	ppb	20	B01VD9	SW-846 9010
299-W19-27	Cyanide	6/29/93	56	1			U	ppb	20	B08MQ6	SW-846 9010
299-W19-27	Delta-BHC	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Delta-BHC	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Di-n-butylphthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Di-n-octylphthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Diallate	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Dibenz(a,j)acridine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenz[a,h]acridine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenz[a,h]anthracene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenzo(a,e)pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenzo[a,h]pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenzo[a,i]pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibenzofuran	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dibromochloromethane	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Dibromomethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Dibutyl Phosphate	11/02/89	57	10000	3500		U	ppb		H000B244	
299-W19-27	Dichlorodifluoromethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Dieldrin	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Dieldrin	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Diethyl phthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Diethylstilbestrol	11/02/89	18	200	40		U	ppb		H000B244	
299-W19-27	Dihydrosafrole	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dimethoate	11/02/89	29	2	1		U	ppb		H000B244	SW-846 8140
299-W19-27	Dimethyl phthalate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Dinoseb	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Diphenylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Disulfoton	11/02/89	29	2	1		U	ppb	2	H000B244	SW-846 8140
299-W19-27	Disulfoton	6/29/93	29	0			U	ppb	2	B08MQ6	SW-846 8140
299-W19-27	Endosulfan I	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Endosulfan I	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Endosulfan II	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Endosulfan II	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Endosulfan sulfate	11/02/89	17	1	0		U	ppb	1	H000B244	SW-846 8080
299-W19-27	Endosulfan sulfate	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Endrin	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Endrin	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Endrin Aldehyde	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Ethanol	11/02/89	28	10000	3500		U	ppb		H000B244	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Ethyl carbamate (Urethane)	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Ethyl cyanide	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Ethyl methacrylate	11/02/89	50	10	4		U	ppb		H000B244	
299-W19-27	Ethyl methanesulfonate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Ethylbenzene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Ethylene Glycol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Ethylene oxide	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	Ethyleneimine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Ethylenethiourea	11/02/89	18	200	40		U	ppb		H000B244	
299-W19-27	Fluoranthene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Fluorene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Fluoride	2/27/92	124	400	84			ppb	100	B01VY6	ASTM D-4327-88
299-W19-27	Fluoride	4/30/92	124	400	84			ppb	100	B06DY3	ASTM D-4327-88
299-W19-27	Fluoride	8/12/92	124	400	84			ppb	100	B074N1	ASTM D-4327-88
299-W19-27	Fluoride	8/12/92	124	400	84			ppb	100	B074N2	ASTM D-4327-88
299-W19-27	Fluoride	12/03/92	124	400	84			ppb	100	B07QG3	ASTM D-4327-88
299-W19-27	Fluoride	2/03/93	124	500	105			ppb	100	B08415	ASTM D-4327-88
299-W19-27	Fluoride	6/29/93	124	600	39			ppb	100	B08MQ6	ASTM D-4327-88
299-W19-27	Fluorine	11/02/89	46	500	56			ppb		H000B244	EPA 300.0
299-W19-27	Fluorine	4/06/90	46	500	56		U	ppb		H000B245	EPA 300.0
299-W19-27	Formaldehyde	11/02/89	16	500	175		U	ppb		H000B244	SW-846 8240
299-W19-27	Gross alpha	7/01/87	77	9	2			pCi/L		H000B232	
299-W19-27	Gross alpha	7/20/87	77					pCi/L		H000B233	
299-W19-27	Gross alpha	8/18/87	77	9	2			pCi/L		H000B234	
299-W19-27	Gross alpha	9/16/87	77	10	2			pCi/L		H000B235	
299-W19-27	Gross alpha	10/12/87	77	9	2			pCi/L		H000B236	
299-W19-27	Gross alpha	11/11/87	77	10	2			pCi/L		H000B237	
299-W19-27	Gross alpha	12/08/87	77	9	2			pCi/L		H000B238	
299-W19-27	Gross alpha	1/11/88	77	7	2			pCi/L		H000B239	
299-W19-27	Gross alpha	5/18/88	77	7	2			pCi/L		H000B240	
299-W19-27	Gross alpha	7/22/88	77	9	2			pCi/L		H000B241	
299-W19-27	Gross alpha	11/30/88	77	10	2			pCi/L		H000B242	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Gross alpha	2/01/89	77	9	3			pCi/L		H000B243	
299-W19-27	Gross alpha	11/02/89	77	4	2			pCi/L		H000B244	
299-W19-27	Gross alpha	4/06/90	77	10	3			pCi/L		H000B245	
299-W19-27	Gross alpha	12/03/91	135	22	5			pCi/L	4	H0007224	SW-846 9310, Alpha
299-W19-27	Gross alpha	2/27/92	135	15	4			pCi/L	4	B01VY6	SW-846 9310, Alpha
299-W19-27	Gross alpha	4/30/92	135	11	4			pCi/L	4	B06DY3	SW-846 9310, Alpha
299-W19-27	Gross alpha	8/12/92	135	13	4			pCi/L	4	B074N1	SW-846 9310, Alpha
299-W19-27	Gross alpha	8/12/92	135	14	4			pCi/L	4	B074N2	SW-846 9310, Alpha
299-W19-27	Gross alpha	12/03/92	135	14	5			pCi/L	4	B07QG3	SW-846 9310, Alpha
299-W19-27	Gross alpha	2/03/93	135	11	3			pCi/L	4	B08415	SW-846 9310, Alpha
299-W19-27	Gross alpha	6/29/93	135	9	3			pCi/L	4	B08MQ6	SW-846 9310, Alpha
299-W19-27	Gross alpha	8/26/93	135	13	4			pCi/L	4	B091J3	SW-846 9310, Alpha
299-W19-27	Gross beta	7/01/87	77	15	3			pCi/L		H000B232	
299-W19-27	Gross beta	7/20/87	77					pCi/L		H000B233	
299-W19-27	Gross beta	8/18/87	77	19	4			pCi/L		H000B234	
299-W19-27	Gross beta	9/16/87	77	12	3			pCi/L		H000B235	
299-W19-27	Gross beta	10/12/87	77	18	3			pCi/L		H000B236	
299-W19-27	Gross beta	11/11/87	77	13	3			pCi/L		H000B237	
299-W19-27	Gross beta	12/08/87	77	17	3			pCi/L		H000B238	
299-W19-27	Gross beta	1/11/88	77	14	3			pCi/L		H000B239	
299-W19-27	Gross beta	5/18/88	77	10	3			pCi/L		H000B240	
299-W19-27	Gross beta	7/22/88	77	7	2			pCi/L		H000B241	
299-W19-27	Gross beta	11/30/88	77	7	2			pCi/L		H000B242	
299-W19-27	Gross beta	2/01/89	77	4	2			pCi/L		H000B243	
299-W19-27	Gross beta	11/02/89	77	6	3			pCi/L		H000B244	
299-W19-27	Gross beta	4/06/90	77	9	3			pCi/L		H000B245	
299-W19-27	Gross beta	12/03/91	136	7	3			pCi/L	8	H0007224	SW-846 9310, Beta
299-W19-27	Gross beta	2/27/92	136	5	2	U		pCi/L	8	B01VY6	SW-846 9310, Beta
299-W19-27	Gross beta	4/30/92	136	1	2	U		pCi/L	8	B06DY3	SW-846 9310, Beta
299-W19-27	Gross beta	8/12/92	136	3	2	U		pCi/L	8	B074N1	SW-846 9310, Beta
299-W19-27	Gross beta	8/12/92	136	5	2	U		pCi/L	8	B074N2	SW-846 9310, Beta
299-W19-27	Gross beta	12/03/92	136	6	3	U		pCi/L	8	B07QG3	SW-846 9310, Beta

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Gross beta	2/03/93	136	3	2		U	pCi/L	8	B08415	SW-846 9310, Beta
299-W19-27	Gross beta	6/29/93	136	6	3			pCi/L	8	B08MQ6	SW-846 9310, Beta
299-W19-27	Gross beta	8/26/93	136	1	2		U	pCi/L	8	B091J3	SW-846 9310, Beta
299-W19-27	Heptachlor	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	Heptachlor	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	Heptachlor epoxide	11/02/89	17	0	0		U	ppb	1	H000B244	SW-846 8080
299-W19-27	Heptachlor epoxide	6/29/93	17	0			U	ppb	1	B08MQ6	SW-846 8080
299-W19-27	Hexachlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hexachlorobutadiene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hexachlorocyclopentadiene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hexachloroethane	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hexachlorophene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hexachloropropene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Hydrazine	11/02/89	36	30	5		U	ppb	30	H000B244	ASTM D-1385
299-W19-27	Indeno(1,2,3-cd)pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Iodine-129	4/06/90	77	-0	0		U	pCi/L		H000B245	
299-W19-27	Iodine-129	2/27/92	139	0	0		U	pCi/L	1	B01VD9	ITAS I-129 Low Level
299-W19-27	Iron	11/02/89	35	36	10			ppb		H000B244	
299-W19-27	Iron	2/03/93	34	30	26			ppb	20	B08415	SW-846 6010
299-W19-27	Iron	6/29/93	34	60	27			ppb	20	B08MQ6	SW-846 6010
299-W19-27	Iron, filtered	11/02/89	34	30	10	Y	U	ppb	20	H000B244	SW-846 6010
299-W19-27	Iron, filtered	4/06/90	34	30	10	Y	U	ppb	20	H000B245	SW-846 6010
299-W19-27	Iron, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY4	SW-846 6010
299-W19-27	Iron, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Iron, filtered	8/12/92	34	35	30	Y		ppb	20	B074N4	SW-846 6010
299-W19-27	Iron, filtered	12/03/92	34	20		Y	U	ppb	20	B07QG4	SW-846 6010
299-W19-27	Iron, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Iron, filtered	6/29/93	34	10		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Iron, filtered	8/26/93	34	10		Y	U	ppb	20	B091J4	SW-846 6010
299-W19-27	Isobutyl alcohol	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Isodrin	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270
299-W19-27	Isophorone	11/02/89	21	10	4		U	ppb		H000B244	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Isosafrole	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Kepone	11/02/89	17	1	0		U	ppb		H000B244	SW-846 8080
299-W19-27	Kerosene	11/02/89	21	10000	3500		U	ppb		H000B244	
299-W19-27	Lead	11/02/89	76	5	3		U	ppb		H000B244	
299-W19-27	Lead	6/29/93	40	1	0		L	ppb	5	B08MQ6	SW-846 7421
299-W19-27	Lead, filtered	11/02/89	40	5	3	Y	U	ppb	5	H000B244	SW-846 7421
299-W19-27	Lead, filtered	6/29/93	40	1		Y	U	ppb	5	B08MQ7	SW-846 7421
299-W19-27	Lithium	11/02/89	34	10	2	Y	U	ppb		H000B244	SW-846 6010
299-W19-27	Lithium	11/02/89	35	10	2		U	ppb		H000B244	
299-W19-27	Lithium	4/06/90	34	10	2	Y	U	ppb		H000B245	SW-846 6010
299-W19-27	Magnesium	11/02/89	35	5440	885			ppb		H000B244	
299-W19-27	Magnesium	2/03/93	34	5400				ppb	100	B08415	SW-846 6010
299-W19-27	Magnesium	6/29/93	34	5200	2730			ppb	100	B08MQ6	SW-846 6010
299-W19-27	Magnesium, filtered	11/02/89	34	5290	861	Y		ppb	100	H000B244	SW-846 6010
299-W19-27	Magnesium, filtered	4/06/90	34	4950	806	Y		ppb	100	H000B245	SW-846 6010
299-W19-27	Magnesium, filtered	4/30/92	34	5500		Y		ppb	100	B06DY4	SW-846 6010
299-W19-27	Magnesium, filtered	8/12/92	34	3300		Y		ppb	100	B074N3	SW-846 6010
299-W19-27	Magnesium, filtered	8/12/92	34	5300		Y		ppb	100	B074N4	SW-846 6010
299-W19-27	Magnesium, filtered	12/03/92	34	5600		Y		ppb	100	B07QG4	SW-846 6010
299-W19-27	Magnesium, filtered	2/03/93	34	5200		Y		ppb	100	B08416	SW-846 6010
299-W19-27	Magnesium, filtered	6/29/93	34	5300	2780	Y		ppb	100	B08MQ7	SW-846 6010
299-W19-27	Magnesium, filtered	8/26/93	34	5200	2730	Y		ppb	100	B091J4	SW-846 6010
299-W19-27	Maleic hydrazide	11/02/89	21	500	175		U	ppb		H000B244	
299-W19-27	Malononitrile	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Manganese	11/02/89	35	5	2		U	ppb		H000B244	
299-W19-27	Manganese	2/03/93	34	10			U	ppb	10	B08415	SW-846 6010
299-W19-27	Manganese	6/29/93	34	1			U	ppb	10	B08MQ6	SW-846 6010
299-W19-27	Manganese, filtered	11/02/89	34	5	2	Y	U	ppb	10	H000B244	SW-846 6010
299-W19-27	Manganese, filtered	4/06/90	34	5	2	Y	U	ppb	10	H000B245	SW-846 6010
299-W19-27	Manganese, filtered	4/30/92	34	10		Y	U	ppb	10	B06DY4	SW-846 6010
299-W19-27	Manganese, filtered	8/12/92	34	10		Y	U	ppb	10	B074N3	SW-846 6010
299-W19-27	Manganese, filtered	8/12/92	34	10		Y	U	ppb	10	B074N4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Manganese, filtered	12/03/92	34	10		Y	U	ppb	10	B07QG4	SW-846 6010
299-W19-27	Manganese, filtered	2/03/93	34	10		Y	U	ppb	10	B08416	SW-846 6010
299-W19-27	Manganese, filtered	6/29/93	34	1		Y	U	ppb	10	B08MQ7	SW-846 6010
299-W19-27	Manganese, filtered	8/26/93	34	2	0	Y	L	ppb	10	B091J4	SW-846 6010
299-W19-27	Melphalan	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Mercury	6/29/93	41	0			U	ppb	0	B08MQ6	SW-846 7470
299-W19-27	Mercury, filtered	11/02/89	41	0	0	Y	U	ppb	0	H000B244	SW-846 7470
299-W19-27	Mercury, filtered	6/29/93	41	0		Y	U	ppb	0	B08MQ7	SW-846 7470
299-W19-27	Methacrylonitrile	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Methanethiol	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	Methapyrilene	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270
299-W19-27	Metholonyl	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Methoxychlor	11/02/89	17	3	1		U	ppb	2	H000B244	SW-846 8080
299-W19-27	Methoxychlor	6/29/93	17	0			U	ppb	2	B08MQ6	SW-846 8080
299-W19-27	Methyl Iodide	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Methyl bromide	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Methyl chloride	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Methyl ethyl ketone	11/02/89	16	10	4		U	ppb	100	H000B244	SW-846 8240
299-W19-27	Methyl ethyl ketone	4/06/90	16	10	4		U	ppb	100	H000B245	SW-846 8240
299-W19-27	Methyl ethyl ketone	2/27/92	16	100			U	ppb	100	B01VY6	SW-846 8240
299-W19-27	Methyl ethyl ketone	4/30/92	16	100			U	ppb	100	B06DY3	SW-846 8240
299-W19-27	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074N1	SW-846 8240
299-W19-27	Methyl ethyl ketone	8/12/92	16	100			U	ppb	100	B074N2	SW-846 8240
299-W19-27	Methyl ethyl ketone	12/03/92	16	100			U	ppb	100	B07QG3	SW-846 8240
299-W19-27	Methyl ethyl ketone	2/03/93	16	100			U	ppb	100	B08415	SW-846 8240
299-W19-27	Methyl methacrylate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Methyl methanesulfonate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Methyl parathion	11/02/89	29	2	1		U	ppb	1	H000B244	SW-846 8140
299-W19-27	Methyl parathion	6/29/93	29	0			U	ppb	1	B08MQ6	SW-846 8140
299-W19-27	Methylene chloride	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Methylene chloride	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Methylene chloride	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Methylene chloride	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Methylene chloride	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Methylene chloride	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Methylene chloride	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Methylene chloride	2/03/93	16	1			BJU	ppb	5	B08415	SW-846 8240
299-W19-27	Methylthiouracil	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Molybdenum	11/02/89	34	40	5	Y	U	ppb		H000B244	SW-846 6010
299-W19-27	Molybdenum	11/02/89	35	40	5		U	ppb		H000B244	
299-W19-27	Molybdenum	4/06/90	34	40	5	Y	U	ppb		H000B245	SW-846 6010
299-W19-27	Monobutyl Phosphate	11/02/89	57	10000	3500		U	ppb		H000B244	
299-W19-27	N,N-Diethylhydrazine	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	N-Nitroso-N-methylurethane	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitroso-di-n-dipropylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosodi-n-butylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosodiethanolamine	11/02/89	79	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosodiethylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosodimethylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosodiphenylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosomethylethylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosomethylvinylamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosomorpholine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosornicotine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Nitrosopiperidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	N-Phenylthiourea	11/02/89	18	500	150		U	ppb		H000B244	
299-W19-27	N-Propylamine	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Naphthalene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Nickel	11/02/89	35	10	3		U	ppb		H000B244	
299-W19-27	Nickel	2/03/93	34	30			U	ppb	30	B08415	SW-846 6010
299-W19-27	Nickel	6/29/93	34	18			U	ppb	30	B08MQ6	SW-846 6010
299-W19-27	Nickel, filtered	11/02/89	34	10	3	Y	U	ppb	30	H000B244	SW-846 6010
299-W19-27	Nickel, filtered	4/06/90	34	10	3	Y	U	ppb	30	H000B245	SW-846 6010
299-W19-27	Nickel, filtered	4/30/92	34	30		Y	U	ppb	30	B06DY4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Nickel, filtered	8/12/92	34	30		Y	U	ppb	30	B074N3	SW-846 6010
299-W19-27	Nickel, filtered	8/12/92	34	30		Y	U	ppb	30	B074N4	SW-846 6010
299-W19-27	Nickel, filtered	12/03/92	34	30		Y	U	ppb	30	B07QG4	SW-846 6010
299-W19-27	Nickel, filtered	2/03/93	34	30		Y	U	ppb	30	B08416	SW-846 6010
299-W19-27	Nickel, filtered	6/29/93	34	18		Y	U	ppb	30	B08MQ7	SW-846 6010
299-W19-27	Nickel, filtered	8/26/93	34	18		Y	U	ppb	30	B091J4	SW-846 6010
299-W19-27	Nicotinic acid	11/02/89	21	100	35		U	ppb		H000B244	
299-W19-27	Nitrate	7/01/87	46	3440				ppb		H000B232	EPA 300.0
299-W19-27	Nitrate	7/20/87	46					ppb		H000B233	EPA 300.0
299-W19-27	Nitrate	8/18/87	46	2500			U	ppb		H000B234	EPA 300.0
299-W19-27	Nitrate	9/16/87	46	2970				ppb		H000B235	EPA 300.0
299-W19-27	Nitrate	10/12/87	46	3860				ppb		H000B236	EPA 300.0
299-W19-27	Nitrate	11/11/87	46	3750				ppb		H000B237	EPA 300.0
299-W19-27	Nitrate	12/08/87	46	2500			U	ppb		H000B238	EPA 300.0
299-W19-27	Nitrate	1/11/88	46	2580				ppb		H000B239	EPA 300.0
299-W19-27	Nitrate	5/18/88	46	2500			U	ppb		H000B240	EPA 300.0
299-W19-27	Nitrate	7/22/88	46	2500			U	ppb		H000B241	EPA 300.0
299-W19-27	Nitrate	2/01/89	46	2500	261		U	ppb		H000B243	EPA 300.0
299-W19-27	Nitrate	11/02/89	46	900	113			ppb		H000B244	EPA 300.0
299-W19-27	Nitrate	4/06/90	46	900	113			ppb		H000B245	EPA 300.0
299-W19-27	Nitrate	2/27/92	124	900	507			ppb	200	B01VY6	ASTM D-4327-88
299-W19-27	Nitrate	4/30/92	124	800	450			ppb	200	B06DY3	ASTM D-4327-88
299-W19-27	Nitrate	8/12/92	124	600	338			ppb	200	B074N1	ASTM D-4327-88
299-W19-27	Nitrate	8/12/92	124	700	394			ppb	200	B074N2	ASTM D-4327-88
299-W19-27	Nitrate	12/03/92	124	600	338			ppb	200	B07QG3	ASTM D-4327-88
299-W19-27	Nitrate	2/03/93	124	500	281			ppb	200	B08415	ASTM D-4327-88
299-W19-27	Nitrate	6/29/93	124	600	52			ppb	200	B08MQ6	ASTM D-4327-88
299-W19-27	Nitrite	11/02/89	55	1000	118		U	ppb		H000B244	
299-W19-27	Nitrite	4/06/90	55	1000	118		U	ppb		H000B245	
299-W19-27	Nitrite	2/27/92	124	200			U	ppb	200	B01VY6	ASTM D-4327-88
299-W19-27	Nitrite	4/30/92	124	200			U	ppb	200	B06DY3	ASTM D-4327-88
299-W19-27	Nitrite	8/12/92	124	200			U	ppb	200	B074N1	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Nitrite	8/12/92	124	200			U	ppb	200	B074N2	ASTM D-4327-88
299-W19-27	Nitrite	12/03/92	124	200			U	ppb	200	B07QG3	ASTM D-4327-88
299-W19-27	Nitrite	2/03/93	124	200			U	ppb	200	B08415	ASTM D-4327-88
299-W19-27	Nitrite	6/29/93	124	38			U	ppb	200	B08MQ6	ASTM D-4327-88
299-W19-27	Nitrobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Nitrosopyrrolidine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	O,O,O-Triethyl phosphorothioate	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	O,O-diethylO-2-pyrazinylphosphor...	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270
299-W19-27	PCDDs	11/02/89	51	0	0		U	ppb	0	H000B244	SW-846 8280
299-W19-27	PCDFs	11/02/89	51	0	0		U	ppb	0	H000B244	SW-846 8280
299-W19-27	Paraldehyde	11/02/89	28	10000	3500		U	ppb		H000B244	
299-W19-27	Parathion	11/02/89	29	2	1		U	ppb		H000B244	SW-846 8140
299-W19-27	Pentachlorobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Pentachloroethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Pentachloronitrobenzene (PCNB)	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Pentachlorophenol	11/02/89	21	50	18		U	ppb		H000B244	
299-W19-27	Perchlorate	11/02/89	46	500	52		U	ppb		H000B244	EPA 300.0
299-W19-27	Phenacetin	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Phenanthrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Phenol	11/02/89	32	10	4		U	ppb		H000B244	
299-W19-27	Phenylenediamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Phorate	11/02/89	29	2	1		U	ppb	2	H000B244	SW-846 8140
299-W19-27	Phorate	6/29/93	29	0			U	ppb	2	B08MQ6	SW-846 8140
299-W19-27	Phosphate	11/02/89	46	1000	141		U	ppb		H000B244	EPA 300.0
299-W19-27	Phosphate	4/06/90	46	1000	141		U	ppb		H000B245	EPA 300.0
299-W19-27	Phosphate	2/27/92	124	400			U	ppb	400	B01VY6	ASTM D-4327-88
299-W19-27	Phosphate	2/27/92	124	400			U	ppb	500	B01VY6	ASTM D-4327-88
299-W19-27	Phosphate	4/30/92	124	400			U	ppb	400	B06DY3	ASTM D-4327-88
299-W19-27	Phosphate	4/30/92	124	400			U	ppb	500	B06DY3	ASTM D-4327-88
299-W19-27	Phosphate	8/12/92	124	400			U	ppb	400	B074N1	ASTM D-4327-88
299-W19-27	Phosphate	8/12/92	124	400			U	ppb	500	B074N1	ASTM D-4327-88
299-W19-27	Phosphate	8/12/92	124	400			U	ppb	400	B074N2	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Phosphate	8/12/92	124	400			U	ppb	500	B074N2	ASTM D-4327-88
299-W19-27	Phosphate	12/03/92	124	400			U	ppb	400	B07QG3	ASTM D-4327-88
299-W19-27	Phosphate	12/03/92	124	400			U	ppb	500	B07QG3	ASTM D-4327-88
299-W19-27	Phosphate	2/03/93	124	400			U	ppb	400	B08415	ASTM D-4327-88
299-W19-27	Phosphate	2/03/93	124	400			U	ppb	500	B08415	ASTM D-4327-88
299-W19-27	Phosphate	6/29/93	124	147			U	ppb	400	B08MQ6	ASTM D-4327-88
299-W19-27	Phosphate	6/29/93	124	147			U	ppb	500	B08MQ6	ASTM D-4327-88
299-W19-27	Phthalic acid esters	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Plutonium-238	7/01/87	77	0	0		U	pCi/L		H000B232	
299-W19-27	Plutonium-238	7/20/87	77					pCi/L		H000B233	
299-W19-27	Plutonium-238	8/18/87	77	0	0		U	pCi/L		H000B234	
299-W19-27	Plutonium-238	9/16/87	77	0	0		U	pCi/L		H000B235	
299-W19-27	Plutonium-238	10/12/87	77	-0	0		U	pCi/L		H000B236	
299-W19-27	Plutonium-238	11/11/87	77	-0	0		U	pCi/L		H000B237	
299-W19-27	Plutonium-238	12/08/87	77	-0	0		U	pCi/L		H000B238	
299-W19-27	Plutonium-238	1/11/88	77	-0	0		U	pCi/L		H000B239	
299-W19-27	Plutonium-238	5/18/88	77	-0	0		U	pCi/L		H000B240	
299-W19-27	Plutonium-238	7/22/88	77	-0	0		U	pCi/L		H000B241	
299-W19-27	Plutonium-238	11/30/88	77	-0	0		U	pCi/L		H000B242	
299-W19-27	Plutonium-238	2/01/89	77	-0	0		U	pCi/L		H000B243	
299-W19-27	Plutonium-238	11/02/89	77	-0	0		U	pCi/L		H000B244	
299-W19-27	Plutonium-238	6/29/93	146	-0	0		U	pCi/L	0	B08MQ6	ITAS Isotopic Pu
299-W19-27	Plutonium-239/40	7/01/87	77	0	0		U	pCi/L		H000B232	
299-W19-27	Plutonium-239/40	7/20/87	77					pCi/L		H000B233	
299-W19-27	Plutonium-239/40	8/18/87	77	0	0		U	pCi/L		H000B234	
299-W19-27	Plutonium-239/40	9/16/87	77	-0	0		U	pCi/L		H000B235	
299-W19-27	Plutonium-239/40	10/12/87	77	0	0		U	pCi/L		H000B236	
299-W19-27	Plutonium-239/40	11/11/87	77	-0	0		U	pCi/L		H000B237	
299-W19-27	Plutonium-239/40	12/08/87	77	-0	0		U	pCi/L		H000B238	
299-W19-27	Plutonium-239/40	1/11/88	77	-0	0		U	pCi/L		H000B239	
299-W19-27	Plutonium-239/40	5/18/88	77	0	0		U	pCi/L		H000B240	
299-W19-27	Plutonium-239/40	7/22/88	77	0	0		U	pCi/L		H000B241	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Plutonium-239/40	11/30/88	77	0	0		U	pCi/L		H000B242	
299-W19-27	Plutonium-239/40	2/01/89	77	0	0		U	pCi/L		H000B243	
299-W19-27	Plutonium-239/40	11/02/89	77	-0	0		U	pCi/L		H000B244	
299-W19-27	Plutonium-239/40	6/29/93	146	0	0		U	pCi/L	0	B08MQ6	ITAS Isotopic Pu
299-W19-27	Potassium	11/02/89	35	3260	375			ppb		H000B244	
299-W19-27	Potassium	2/03/93	34	4000				ppb	300	B08415	SW-846 6010
299-W19-27	Potassium	2/03/93	34	4000				ppb	1000	B08415	SW-846 6010
299-W19-27	Potassium	6/29/93	34	3000	2870			ppb	300	B08MQ6	SW-846 6010
299-W19-27	Potassium	6/29/93	34	3000	2870			ppb	1000	B08MQ6	SW-846 6010
299-W19-27	Potassium, filtered	11/02/89	34	3150	363	Y		ppb	300	H000B244	SW-846 6010
299-W19-27	Potassium, filtered	11/02/89	34	3150	363	Y		ppb	1000	H000B244	SW-846 6010
299-W19-27	Potassium, filtered	4/06/90	34	2880	333	Y		ppb	300	H000B245	SW-846 6010
299-W19-27	Potassium, filtered	4/06/90	34	2880	333	Y		ppb	1000	H000B245	SW-846 6010
299-W19-27	Potassium, filtered	4/30/92	34	3000		Y		ppb	300	B06DY4	SW-846 6010
299-W19-27	Potassium, filtered	4/30/92	34	3000		Y		ppb	1000	B06DY4	SW-846 6010
299-W19-27	Potassium, filtered	8/12/92	34	1900		Y		ppb	300	B074N3	SW-846 6010
299-W19-27	Potassium, filtered	8/12/92	34	1900		Y		ppb	1000	B074N3	SW-846 6010
299-W19-27	Potassium, filtered	8/12/92	34	2900		Y		ppb	300	B074N4	SW-846 6010
299-W19-27	Potassium, filtered	8/12/92	34	2900		Y		ppb	1000	B074N4	SW-846 6010
299-W19-27	Potassium, filtered	12/03/92	34	3400		Y		ppb	300	B07QG4	SW-846 6010
299-W19-27	Potassium, filtered	12/03/92	34	3400		Y		ppb	1000	B07QG4	SW-846 6010
299-W19-27	Potassium, filtered	2/03/93	34	3800		Y		ppb	300	B08416	SW-846 6010
299-W19-27	Potassium, filtered	2/03/93	34	3800		Y		ppb	1000	B08416	SW-846 6010
299-W19-27	Potassium, filtered	6/29/93	34	2900	2780	Y		ppb	300	B08MQ7	SW-846 6010
299-W19-27	Potassium, filtered	6/29/93	34	2900	2780	Y		ppb	1000	B08MQ7	SW-846 6010
299-W19-27	Potassium, filtered	8/26/93	34	3100	2970	Y		ppb	300	B091J4	SW-846 6010
299-W19-27	Potassium, filtered	8/26/93	34	3100	2970	Y		ppb	1000	B091J4	SW-846 6010
299-W19-27	Pronamide	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Propionitrile	11/02/89	16	5	2		U	ppb		H000B244	SW-846 8240
299-W19-27	Pyrene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Pyridine	11/02/89	16	500	175		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Radium	11/02/89	77	-0	0		U	pCi/L		H000B244	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Reserpine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Resorcinol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Ruthenium-106	7/01/87	77	-200	100		U	pCi/L		H000B232	
299-W19-27	Ruthenium-106	7/20/87	77					pCi/L		H000B233	
299-W19-27	Ruthenium-106	8/18/87	77	-123	75		U	pCi/L		H000B234	
299-W19-27	Ruthenium-106	9/16/87	77	13	57		U	pCi/L		H000B235	
299-W19-27	Ruthenium-106	10/12/87	77	18	86		U	pCi/L		H000B236	
299-W19-27	Ruthenium-106	11/11/87	77	54	53			pCi/L		H000B237	
299-W19-27	Ruthenium-106	12/08/87	77	-47	63		U	pCi/L		H000B238	
299-W19-27	Ruthenium-106	1/11/88	77	50	51		U	pCi/L		H000B239	
299-W19-27	Ruthenium-106	5/18/88	77	40	41		U	pCi/L		H000B240	
299-W19-27	Ruthenium-106	7/22/88	77	-55	57		U	pCi/L		H000B241	
299-W19-27	Ruthenium-106	11/30/88	77	35	48		U	pCi/L		H000B242	
299-W19-27	Ruthenium-106	2/01/89	77	-15	51		U	pCi/L		H000B243	
299-W19-27	Ruthenium-106	11/02/89	77	35	64		U	pCi/L		H000B244	
299-W19-27	Ruthenium-106	2/03/93	140	28	52		U	pCi/L		B08415	ITAS Gamma Scan
299-W19-27	Safrol	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Selenium	11/02/89	76	5	3		U	ppb		H000B244	
299-W19-27	Selenium	6/29/93	48	1			U	ppb	10	B08MQ6	SW-846 7740
299-W19-27	Selenium, filtered	11/02/89	48	5	3	Y	U	ppb	10	H000B244	SW-846 7740
299-W19-27	Selenium, filtered	6/29/93	48	1		Y	U	ppb	10	B08MQ7	SW-846 7740
299-W19-27	Silicon	11/02/89	34	18700	3070	Y		ppb		H000B244	SW-846 6010
299-W19-27	Silicon	11/02/89	35	19100	3140			ppb		H000B244	
299-W19-27	Silicon	4/06/90	34	17800	2920	Y		ppb		H000B245	SW-846 6010
299-W19-27	Silver	11/02/89	35	10	2		U	ppb		H000B244	
299-W19-27	Silver	2/03/93	34	20			U	ppb	20	B08415	SW-846 6010
299-W19-27	Silver	6/29/93	34	3			U	ppb	20	B08MQ6	SW-846 6010
299-W19-27	Silver, filtered	11/02/89	34	10	2	Y	U	ppb	20	H000B244	SW-846 6010
299-W19-27	Silver, filtered	4/06/90	34	10	2	Y	U	ppb	20	H000B245	SW-846 6010
299-W19-27	Silver, filtered	4/30/92	34	20		Y	U	ppb	20	B06DY4	SW-846 6010
299-W19-27	Silver, filtered	8/12/92	34	20		Y	U	ppb	20	B074N3	SW-846 6010
299-W19-27	Silver, filtered	8/12/92	34	20		Y	U	ppb	20	B074N4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Silver, filtered	12/03/92	34	20		Y	U	ppb	20	B07QG4	SW-846 6010
299-W19-27	Silver, filtered	2/03/93	34	20		Y	U	ppb	20	B08416	SW-846 6010
299-W19-27	Silver, filtered	6/29/93	34	3		Y	U	ppb	20	B08MQ7	SW-846 6010
299-W19-27	Silver, filtered	8/26/93	34	3	1	Y	L	ppb	20	B091J4	SW-846 6010
299-W19-27	Sodium	11/02/89	35	22300	2500			ppb		H000B244	
299-W19-27	Sodium	2/03/93	34	18000				ppb	300	B08415	SW-846 6010
299-W19-27	Sodium	6/29/93	34	18000	5620			ppb	300	B08MQ6	SW-846 6010
299-W19-27	Sodium, filtered	11/02/89	34	21700	2430	Y		ppb	300	H000B244	SW-846 6010
299-W19-27	Sodium, filtered	4/06/90	34	20900	2340	Y		ppb	300	H000B245	SW-846 6010
299-W19-27	Sodium, filtered	4/30/92	34	18000		Y		ppb	300	B06DY4	SW-846 6010
299-W19-27	Sodium, filtered	8/12/92	34	10000		Y		ppb	300	B074N3	SW-846 6010
299-W19-27	Sodium, filtered	8/12/92	34	15000		Y		ppb	300	B074N4	SW-846 6010
299-W19-27	Sodium, filtered	12/03/92	34	17000		Y		ppb	300	B07QG4	SW-846 6010
299-W19-27	Sodium, filtered	2/03/93	34	17000		Y		ppb	300	B08416	SW-846 6010
299-W19-27	Sodium, filtered	6/29/93	34	18000	5620	Y		ppb	300	B08MQ7	SW-846 6010
299-W19-27	Sodium, filtered	8/26/93	34	18000	5620	Y		ppb	300	B091J4	SW-846 6010
299-W19-27	Specific conductance	11/02/89	76	233				umhos		H000B244	
299-W19-27	Specific conductance	4/06/90	73	231	24			umhos		H000B245	ASTM D-1125-A
299-W19-27	Specific conductance	4/06/90	76	270				umhos		H000B245	
299-W19-27	Specific conductance	3/20/91	76	280				umhos		H000B246	
299-W19-27	Specific conductance	12/03/91	94	489				umhos	1	H00072Z4	Probe, Conductivity
299-W19-27	Specific conductance	2/27/92	73	210				umhos		B01VY6	ASTM D-1125-A
299-W19-27	Specific conductance	2/27/92	94	230				umhos	1	B01VY6	Probe, Conductivity
299-W19-27	Specific conductance	4/30/92	73	200				umhos		B06DY3	ASTM D-1125-A
299-W19-27	Specific conductance	4/30/92	94	208				umhos	1	B06DY3	Probe, Conductivity
299-W19-27	Specific conductance	8/12/92	73	210				umhos		B074N1	ASTM D-1125-A
299-W19-27	Specific conductance	8/12/92	94	214				umhos	1	B074N1	Probe, Conductivity
299-W19-27	Specific conductance	8/12/92	73	210				umhos		B074N2	ASTM D-1125-A
299-W19-27	Specific conductance	12/03/92	73	200				umhos		B07QG3	ASTM D-1125-A
299-W19-27	Specific conductance	12/03/92	94	213				umhos	1	B07QG3	Probe, Conductivity
299-W19-27	Specific conductance	2/03/93	73	200				umhos		B08415	ASTM D-1125-A
299-W19-27	Specific conductance	2/03/93	94	196				umhos	1	B08415	Probe, Conductivity

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Specific conductance	8/26/93	94	198				umhos	1	B091J3	Probe. Conductivity
299-W19-27	Strontium	11/02/89	35	73	9			ppb		H000B244	
299-W19-27	Strontium, filtered	11/02/89	34	72	9	Y		ppb		H000B244	SW-846 6010
299-W19-27	Strontium, filtered	4/06/90	34	68	9	Y		ppb		H000B245	SW-846 6010
299-W19-27	Strontium-90	7/01/87	77	0	1		U	pCi/L		H000B232	
299-W19-27	Strontium-90	7/20/87	77					pCi/L		H000B233	
299-W19-27	Strontium-90	8/18/87	77	0	1		U	pCi/L		H000B234	
299-W19-27	Strontium-90	9/16/87	77	-0	1		U	pCi/L		H000B235	
299-W19-27	Strontium-90	10/12/87	77	-0	1		U	pCi/L		H000B236	
299-W19-27	Strontium-90	11/11/87	77	0	1		U	pCi/L		H000B237	
299-W19-27	Strontium-90	12/08/87	77	-0	1		U	pCi/L		H000B238	
299-W19-27	Strontium-90	1/11/88	77	-0	1		U	pCi/L		H000B239	
299-W19-27	Strontium-90	5/18/88	77	-0	1		U	pCi/L		H000B240	
299-W19-27	Strontium-90	7/22/88	77	0	1		U	pCi/L		H000B241	
299-W19-27	Strontium-90	11/30/88	77	-0	1		U	pCi/L		H000B242	
299-W19-27	Strontium-90	2/01/89	77	0	1		U	pCi/L		H000B243	
299-W19-27	Strontium-90	11/02/89	77	0	1		U	pCi/L		H000B244	
299-W19-27	Strontium-90	2/03/93	141	-1	1		U	pCi/L	5	B08415	ITAS Sr-90
299-W19-27	Strontium-90	6/29/93	141	0	0		U	pCi/L	5	B08MQ6	ITAS Sr-90
299-W19-27	Strychnine	11/02/89	21	50	18		U	ppb		H000B244	
299-W19-27	Styrene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Sulfate	11/02/89	46	11500	1150			ppb		H000B244	EPA 300.0
299-W19-27	Sulfate	4/06/90	46	11400	1140			ppb		H000B245	EPA 300.0
299-W19-27	Sulfate	2/27/92	124	9600	9260			ppb	500	B01VY6	ASTM D-4327-88
299-W19-27	Sulfate	4/30/92	124	9300	8970			ppb	500	B06DY3	ASTM D-4327-88
299-W19-27	Sulfate	8/12/92	124	9000	8680			ppb	500	B074N1	ASTM D-4327-88
299-W19-27	Sulfate	8/12/92	124	9100	8780			ppb	500	B074N2	ASTM D-4327-88
299-W19-27	Sulfate	12/03/92	124	8700	8390			ppb	500	B07QG3	ASTM D-4327-88
299-W19-27	Sulfate	2/03/93	124	6600	6370			ppb	500	B08415	ASTM D-4327-88
299-W19-27	Sulfate	6/29/93	124	11000	535			ppb	500	B08MQ6	ASTM D-4327-88
299-W19-27	Sulfide	11/02/89	63	1000	208		U	ppb	10000	H000B244	SW-846 9030
299-W19-27	Sulfide	6/29/93	63	300			U	ppb	10000	B08MQ6	SW-846 9030

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Technetium-99	2/27/92	143	1	2		U	pCi/L	15	B01VD9	ITAS Tc-99
299-W19-27	Temperature, field	11/02/89	170	18				DegC	0	H000GPG8	Probe, temperature
299-W19-27	Temperature, field	4/06/90	170	19				DegC	0	H000GQR3	Probe, temperature
299-W19-27	Temperature, field	3/20/91	170	17				DegC	0	H000GSX4	Probe, temperature
299-W19-27	Temperature, field	12/03/91	170	15				DegC	0	H0007224	Probe, temperature
299-W19-27	Temperature, field	2/27/92	170	17				DegC	0	B01VY6	Probe, temperature
299-W19-27	Temperature, field	4/30/92	170	18				DegC	0	B06DY3	Probe, temperature
299-W19-27	Temperature, field	8/12/92	170	18				DegC	0	B074N1	Probe, temperature
299-W19-27	Temperature, field	12/03/92	170	18				DegC	0	B07QG3	Probe, temperature
299-W19-27	Temperature, field	2/03/93	170	18				DegC	0	B08415	Probe, temperature
299-W19-27	Temperature, field	8/26/93	170	17				DegC	0	B091J3	Probe, temperature
299-W19-27	Tetrachloroethene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Tetrachloroethene	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Tetrachloroethene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Tetrachloroethene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Tetrachloroethene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Tetrachloroethene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Tetraethylpyrophosphate	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Tetrahydrofuran	11/02/89	29	2	1		U	ppb		H000B244	SW-846 8140
299-W19-27	Tetrahydrofuran	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Tetrahydrofuran	4/06/90	16	10	4		U	ppb	10	H000B245	SW-846 8240
299-W19-27	Tetrahydrofuran	2/27/92	16	10			U	ppb	10	B01VY6	SW-846 8240
299-W19-27	Tetrahydrofuran	4/30/92	16	10			U	ppb	10	B06DY3	SW-846 8240
299-W19-27	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074N1	SW-846 8240
299-W19-27	Tetrahydrofuran	8/12/92	16	10			U	ppb	10	B074N2	SW-846 8240
299-W19-27	Tetrahydrofuran	12/03/92	16	10			U	ppb	10	B07QG3	SW-846 8240
299-W19-27	Tetrahydrofuran	2/03/93	16	10			U	ppb	10	B08415	SW-846 8240
299-W19-27	Thallium	11/02/89	76	5	3		U	ppb		H000B244	
299-W19-27	Thallium	6/29/93	42	1			U	ppb	5	B08MQ6	SW-846 7841
299-W19-27	Thallium, filtered	11/02/89	42	5	3	Y	U	ppb	5	H000B244	SW-846 7841
299-W19-27	Thallium, filtered	6/29/93	42	1		Y	U	ppb	5	B08MQ7	SW-846 7841

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Thiofanox	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Thiourea	11/02/89	18	200	40		U	ppb		H000B244	
299-W19-27	Thiuram	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Tin	11/02/89	35	30	6		U	ppb		H000B244	
299-W19-27	Tin	2/03/93	34	100			U	ppb	100	B08415	SW-846 6010
299-W19-27	Tin	6/29/93	34	51			U	ppb	100	B08MQ6	SW-846 6010
299-W19-27	Tin, filtered	11/02/89	34	30	6	Y	U	ppb	100	H000B244	SW-846 6010
299-W19-27	Tin, filtered	4/06/90	34	30	6	Y	U	ppb	100	H000B245	SW-846 6010
299-W19-27	Tin, filtered	4/30/92	34	100		Y	U	ppb	100	B06DY4	SW-846 6010
299-W19-27	Tin, filtered	8/12/92	34	100		Y	U	ppb	100	B074N3	SW-846 6010
299-W19-27	Tin, filtered	8/12/92	34	100		Y	U	ppb	100	B074N4	SW-846 6010
299-W19-27	Tin, filtered	12/03/92	34	100		Y	U	ppb	100	B07QG4	SW-846 6010
299-W19-27	Tin, filtered	2/03/93	34	100		Y	U	ppb	100	B08416	SW-846 6010
299-W19-27	Tin, filtered	6/29/93	34	51		Y	U	ppb	100	B08MQ7	SW-846 6010
299-W19-27	Tin, filtered	8/26/93	34	51		Y	U	ppb	100	B091J4	SW-846 6010
299-W19-27	Titanium	11/02/89	34	60	17	Y	U	ppb		H000B244	SW-846 6010
299-W19-27	Titanium	11/02/89	35	60	17		U	ppb		H000B244	
299-W19-27	Titanium	4/06/90	34	60	17	Y	U	ppb		H000B245	SW-846 6010
299-W19-27	Toluene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Toluene	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Toluene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Toluene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Toluene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Toluene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Toluene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Toluene	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Toluenediamine	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Total Carbon	11/02/89	127	23900	2570			ppb	2000	H000B244	ASTM D-2579-A
299-W19-27	Total Dissolved Solids	11/02/89	65	123000	12400			ppm	10	H000B244	Std Meth #209B
299-W19-27	Total Dissolved Solids	6/29/93	65	170				ppm	10	B08MQ6	Std Meth #209B
299-W19-27	Total Organic Carbon	11/02/89	66	500	66		U	ppb		H000B244	
299-W19-27	Total Organic Carbon	2/27/92	122	1000			U	ppb	1000	B01VY6	SW-846 9060

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Total Organic Carbon	4/30/92	122	1000			U	ppb	1000	B06DY3	SW-846 9060
299-W19-27	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074N1	SW-846 9060
299-W19-27	Total Organic Carbon	8/12/92	122	1000			U	ppb	1000	B074N2	SW-846 9060
299-W19-27	Total Organic Carbon	12/03/92	122	1000			U	ppb	1000	B07QG3	SW-846 9060
299-W19-27	Total Organic Carbon	2/03/93	122	1000			U	ppb	1000	B08415	SW-846 9060
299-W19-27	Total Organic Carbon	6/29/93	122	500			LB	ppb	1000	B08MQ6	SW-846 9060
299-W19-27	Total Organic Halogen	11/02/89	67	11	4			ppb	10	H000B244	SW-846 9020
299-W19-27	Total Organic Halogen	4/06/90	67	8	4		U	ppb	10	H000B245	SW-846 9020
299-W19-27	Total Organic Halogen	2/27/92	67	20				ppb	10	B01VY6	SW-846 9020
299-W19-27	Total Organic Halogen	4/30/92	67	10				ppb	10	B06DY3	SW-846 9020
299-W19-27	Total Organic Halogen	4/30/92	67	20				ppb	10	B06DY3	SW-846 9020
299-W19-27	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074N1	SW-846 9020
299-W19-27	Total Organic Halogen	8/12/92	67	10			U	ppb	10	B074N2	SW-846 9020
299-W19-27	Total Organic Halogen	12/03/92	67	20				ppb	10	B07QG3	SW-846 9020
299-W19-27	Total Organic Halogen	12/03/92	67	20	5			ppb	10	B07QG3	SW-846 9020
299-W19-27	Total Organic Halogen	2/03/93	67	10				ppb	10	B08415	SW-846 9020
299-W19-27	Total Organic Halogen	6/29/93	67	8			U	ppb	10	B08MQ6	SW-846 9020
299-W19-27	Total Organic Halogen	8/26/93	67	8			U	ppb	10	B091J3	SW-846 9020
299-W19-27	Toxaphene	11/02/89	37	1	0		U	ppb		H000B244	
299-W19-27	Toxaphene	6/29/93	17	1			U	ppb	2	B08MQ6	SW-846 8080
299-W19-27	Tributylphosphoric Acid	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Trichloroethene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Trichloroethene	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Trichloroethene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Trichloroethene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Trichloroethene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Trichloroethene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Trichloroethene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Trichloroethene	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Trichloromethanethiol	11/02/89	16	10	4		U	ppb		H000B244	SW-846 8240
299-W19-27	Trichloromonofluoromethane	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Tris(2,3-dibromopropyl) phosphate	11/02/89	21	10	4		U	ppb		H000B244	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Tritium	7/01/87	77	15	252		U	pCi/L		H000B232	
299-W19-27	Tritium	7/20/87	77					pCi/L		H000B233	
299-W19-27	Tritium	8/18/87	77	120	314		U	pCi/L		H000B234	
299-W19-27	Tritium	9/16/87	77	159	312		U	pCi/L		H000B235	
299-W19-27	Tritium	10/12/87	77	90	326		U	pCi/L		H000B236	
299-W19-27	Tritium	11/11/87	77	241	316		U	pCi/L		H000B237	
299-W19-27	Tritium	12/08/87	77	112	255		U	pCi/L		H000B238	
299-W19-27	Tritium	1/11/88	77	227	370		U	pCi/L		H000B239	
299-W19-27	Tritium	5/18/88	77	65	307		U	pCi/L		H000B240	
299-W19-27	Tritium	7/22/88		138	330		U	pCi/L		H000B241	
299-W19-27	Tritium	11/30/88		138	311		U	pCi/L		H000B242	
299-W19-27	Tritium	2/01/89		162	295		U	pCi/L		H000B243	
299-W19-27	Tritium	11/02/89		114	237		U	pCi/L		H000B244	
299-W19-27	Tritium	4/06/90	77	165	222		U	pCi/L		H000B245	
299-W19-27	Tritium	12/03/91	142	219	214			pCi/L	500	H0007224	ITAS H-3
299-W19-27	Tritium	2/27/92	142	104	209		U	pCi/L	500	B01VY6	ITAS H-3
299-W19-27	Tritium	4/30/92	142	144	232		U	pCi/L	500	B06DY3	ITAS H-3
299-W19-27	Tritium	8/12/92	142	67	223		U	pCi/L	500	B074N1	ITAS H-3
299-W19-27	Tritium	8/12/92	142	138	226		U	pCi/L	500	B074N2	ITAS H-3
299-W19-27	Tritium	12/03/92	142	-1	229		U	pCi/L	500	B07QG3	ITAS H-3
299-W19-27	Tritium	2/03/93	142	264	224		U	pCi/L	500	B08415	ITAS H-3
299-W19-27	Tritium	6/29/93	142	53	225		U	pCi/L	500	B08MQ6	ITAS H-3
299-W19-27	Tritium	8/26/93	142	-71	220		U	pCi/L	500	B091J3	ITAS H-3
299-W19-27	Turbidity	11/02/89	76	0	0			NTU		H000B244	
299-W19-27	Uranium	7/01/87	77	12	3			pCi/L		H000B232	
299-W19-27	Uranium	7/20/87	77					pCi/L		H000B233	
299-W19-27	Uranium	8/18/87	77	12	4			pCi/L		H000B234	
299-W19-27	Uranium	9/16/87	77	13	5			pCi/L		H000B235	
299-W19-27	Uranium	10/12/87	77	13	5			pCi/L		H000B236	
299-W19-27	Uranium	11/11/87	77	12	4			pCi/L		H000B237	
299-W19-27	Uranium	12/08/87	77	11	4			pCi/L		H000B238	
299-W19-27	Uranium	1/11/88	77	11	5			pCi/L		H000B239	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Uranium	5/18/88	77	9	4			pCi/L		H000B240	
299-W19-27	Uranium	7/22/88	77	10	4			pCi/L		H000B241	
299-W19-27	Uranium	11/30/88	77	14	5			pCi/L		H000B242	
299-W19-27	Uranium	2/01/89	77	13	5			pCi/L		H000B243	
299-W19-27	Uranium	11/02/89	77	9	2			pCi/L		H000B244	
299-W19-27	Uranium	4/06/90	77	8	2			pCi/L		H000B245	
299-W19-27	Uranium	12/03/91	145	26	7			ppb	1	H0007224	ITAS Gross U
299-W19-27	Uranium	2/27/92	145	23	3			ppb	1	B01VY6	ITAS Gross U
299-W19-27	Uranium	4/30/92	145	23	6			ppb	1	B06DY3	ITAS Gross U
299-W19-27	Uranium	8/12/92	145	24	7			ppb	1	B074N1	ITAS Gross U
299-W19-27	Uranium	8/12/92	145	18	5			ppb	1	B074N2	ITAS Gross U
299-W19-27	Uranium	12/03/92	145	20	6			ppb	1	B07QG3	ITAS Gross U
299-W19-27	Uranium-234	7/01/87	77	4	0			pCi/L		H000B232	
299-W19-27	Uranium-234	7/20/87	77					pCi/L		H000B233	
299-W19-27	Uranium-234	8/18/87	77	5	0			pCi/L		H000B234	
299-W19-27	Uranium-234	9/16/87	77	5	1			pCi/L		H000B235	
299-W19-27	Uranium-234	10/12/87	77	4	0			pCi/L		H000B236	
299-W19-27	Uranium-234	11/11/87	77	5	1			pCi/L		H000B237	
299-W19-27	Uranium-234	12/08/87	77	5	1			pCi/L		H000B238	
299-W19-27	Uranium-234	1/11/88	77	4	0			pCi/L		H000B239	
299-W19-27	Uranium-234	5/18/88	77	4	0			pCi/L		H000B240	
299-W19-27	Uranium-234	7/22/88	77	4	0			pCi/L		H000B241	
299-W19-27	Uranium-234	11/30/88	77	4	0			pCi/L		H000B242	
299-W19-27	Uranium-234	2/01/89	77	4	0			pCi/L		H000B243	
299-W19-27	Uranium-234	6/29/93	148	11	1			pCi/L	0	B08MQ6	ITAS Isotopic U
299-W19-27	Uranium-235	7/01/87	77	0	0			pCi/L		H000B232	
299-W19-27	Uranium-235	7/20/87	77					pCi/L		H000B233	
299-W19-27	Uranium-235	8/18/87	77	0	0			pCi/L		H000B234	
299-W19-27	Uranium-235	9/16/87	77	0	0			pCi/L		H000B235	
299-W19-27	Uranium-235	10/12/87	77	0	0			pCi/L		H000B236	
299-W19-27	Uranium-235	11/11/87	77	0	0			pCi/L		H000B237	
299-W19-27	Uranium-235	12/08/87	77	0	0			pCi/L		H000B238	

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Uranium-235	1/11/88	77	0	0			pCi/L		H000B239	
299-W19-27	Uranium-235	5/18/88	77	0	0			pCi/L		H000B240	
299-W19-27	Uranium-235	7/22/88	77	0	0			pCi/L		H000B241	
299-W19-27	Uranium-235	11/30/88	77	1	0			pCi/L		H000B242	
299-W19-27	Uranium-235	2/01/89	77	0	0			pCi/L		H000B243	
299-W19-27	Uranium-235	6/29/93	148	0	0			pCi/L	0	B08MQ6	ITAS Isotopic U
299-W19-27	Uranium-236	9/16/87	77	0	0			pCi/L		H000B235	
299-W19-27	Uranium-238	7/01/87	77	4	0			pCi/L		H000B232	
299-W19-27	Uranium-238	7/20/87	77					pCi/L		H000B233	
299-W19-27	Uranium-238	8/18/87	77	5	1			pCi/L		H000B234	
299-W19-27	Uranium-238	9/16/87	77	5	1			pCi/L		H000B235	
299-W19-27	Uranium-238	10/12/87	77	4	0			pCi/L		H000B236	
299-W19-27	Uranium-238	11/11/87	77	5	0			pCi/L		H000B237	
299-W19-27	Uranium-238	12/08/87	77	5	1			pCi/L		H000B238	
299-W19-27	Uranium-238	1/11/88	77	4	0			pCi/L		H000B239	
299-W19-27	Uranium-238	5/18/88	77	4	0			pCi/L		H000B240	
299-W19-27	Uranium-238	7/22/88	77	3	0			pCi/L		H000B241	
299-W19-27	Uranium-238	11/30/88	77	6	1			pCi/L		H000B242	
299-W19-27	Uranium-238	2/01/89	77	4	0			pCi/L		H000B243	
299-W19-27	Uranium-238	2/03/93	145	18	5			ppb	1	B08415	ITAS Gross U
299-W19-27	Uranium-238	6/29/93	148	11	1			pCi/L	0	B08MQ6	ITAS Isotopic U
299-W19-27	Vanadium	11/02/89	35	39	6			ppb		H000B244	
299-W19-27	Vanadium	2/03/93	34	30			U	ppb	30	B08415	SW-846 6010
299-W19-27	Vanadium	6/29/93	34	4			U	ppb	30	B08MQ6	SW-846 6010
299-W19-27	Vanadium, filtered	11/02/89	34	36	6	Y		ppb	30	H000B244	SW-846 6010
299-W19-27	Vanadium, filtered	4/06/90	34	34	6	Y		ppb	30	H000B245	SW-846 6010
299-W19-27	Vanadium, filtered	4/30/92	34	33	4	Y		ppb	30	B06DY4	SW-846 6010
299-W19-27	Vanadium, filtered	8/12/92	34	30		Y	U	ppb	30	B074N3	SW-846 6010
299-W19-27	Vanadium, filtered	8/12/92	34	30	4	Y		ppb	30	B074N4	SW-846 6010
299-W19-27	Vanadium, filtered	12/03/92	34	40	5	Y		ppb	30	B07QG4	SW-846 6010
299-W19-27	Vanadium, filtered	2/03/93	34	30	4	Y		ppb	30	B08416	SW-846 6010
299-W19-27	Vanadium, filtered	6/29/93	34	4		Y	U	ppb	30	B08MQ7	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Vanadium, filtered	8/26/93	34	35	7	Y		ppb	30	B091J4	SW-846 6010
299-W19-27	Vinyl acetate	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Vinyl chloride	11/02/89	16	10	4		U	ppb	10	H000B244	SW-846 8240
299-W19-27	Vinyl chloride	4/06/90	16	10	4		U	ppb	10	H000B245	SW-846 8240
299-W19-27	Vinyl chloride	2/27/92	16	10			U	ppb	10	B01VY6	SW-846 8240
299-W19-27	Vinyl chloride	4/30/92	16	10			U	ppb	10	B06DY3	SW-846 8240
299-W19-27	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074N1	SW-846 8240
299-W19-27	Vinyl chloride	8/12/92	16	10			U	ppb	10	B074N2	SW-846 8240
299-W19-27	Vinyl chloride	12/03/92	16	10			U	ppb	10	B07QG3	SW-846 8240
299-W19-27	Vinyl chloride	2/03/93	16	10			U	ppb	10	B08415	SW-846 8240
299-W19-27	Warfarin	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	Xylenes	11/02/89	16	5	2		U	ppb		H000B244	SW-846 8240
299-W19-27	Xylenes	4/06/90	16	5	2		U	ppb		H000B245	SW-846 8240
299-W19-27	Xylenes (total)	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	Xylenes (total)	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	Xylenes (total)	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	Xylenes (total)	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	Xylenes (total)	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	Xylenes (total)	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	Xylenes (total)	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	Zinc	11/02/89	35	14	4			ppb		H000B244	
299-W19-27	Zinc	2/03/93	34	40	5			ppb	10	B08415	SW-846 6010
299-W19-27	Zinc	6/29/93	34	19	6			ppb	10	B08MQ6	SW-846 6010
299-W19-27	Zinc, filtered	11/02/89	34	8	3	Y		ppb	10	H000B244	SW-846 6010
299-W19-27	Zinc, filtered	4/06/90	34	9	3	Y		ppb	10	H000B245	SW-846 6010
299-W19-27	Zinc, filtered	4/30/92	34	18	2	Y		ppb	10	B06DY4	SW-846 6010
299-W19-27	Zinc, filtered	8/12/92	34	10		Y	U	ppb	10	B074N3	SW-846 6010
299-W19-27	Zinc, filtered	8/12/92	34	15	2	Y		ppb	10	B074N4	SW-846 6010
299-W19-27	Zinc, filtered	12/03/92	34	10		Y	U	ppb	10	B07QG4	SW-846 6010
299-W19-27	Zinc, filtered	2/03/93	34	30	4	Y		ppb	10	B08416	SW-846 6010
299-W19-27	Zinc, filtered	6/29/93	34	13	4	Y		ppb	10	B08MQ7	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	Zinc, filtered	8/26/93	34	60	19	Y		ppb	10	B091J4	SW-846 6010
299-W19-27	Zirconium	11/02/89	34	50	7	Y	U	ppb		H000B244	SW-846 6010
299-W19-27	Zirconium	11/02/89	35	50	7		U	ppb		H000B244	
299-W19-27	Zirconium	4/06/90	34	50	7	Y	U	ppb		H000B245	SW-846 6010
299-W19-27	allylchloride	11/02/89	16	100	35		U	ppb	100	H000B244	SW-846 8240
299-W19-27	gamma-BHC (Lindane)	11/02/89	17	0	0		U	ppb	0	H000B244	SW-846 8080
299-W19-27	gamma-BHC (Lindane)	6/29/93	17	0			U	ppb	0	B08MQ6	SW-846 8080
299-W19-27	m-dinitrobenzene	11/02/89	19	10	4		U	ppb	10	H000B244	SW-846 8270
299-W19-27	o-Nitroaniline	11/02/89	74	10	4		U	ppb		H000B244	
299-W19-27	o-Nitroaniline	11/02/89	76	10	4		U	ppb		H000B244	
299-W19-27	o-Toluidine hydrochloride	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	p-Benzquinone	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	p-Dimethylaminoazobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	pH	11/02/89	76	7						H000B244	
299-W19-27	pH	4/06/90	75	8	0					H000B245	
299-W19-27	pH	4/06/90	76	8						H000B245	
299-W19-27	pH	3/20/91	76	8						H000B246	
299-W19-27	pH	12/03/91	93	7					0	H00072Z4	Probe, pH
299-W19-27	pH	2/27/92	125	8				pH		B01VY6	ASTM D-1293
299-W19-27	pH	2/27/92	93	8					0	B01VY6	Probe, pH
299-W19-27	pH	4/30/92	125	8				pH		B06DY3	ASTM D-1293
299-W19-27	pH	4/30/92	93	820					0	B06DY3	Probe, pH
299-W19-27	pH	8/12/92	125	8				pH		B074N1	ASTM D-1293
299-W19-27	pH	8/12/92	93	8					0	B074N1	Probe, pH
299-W19-27	pH	8/12/92	125	8				pH		B074N2	ASTM D-1293
299-W19-27	pH	12/03/92	125	8				pH		B07QG3	ASTM D-1293
299-W19-27	pH	12/03/92	93	8					0	B07QG3	Probe, pH
299-W19-27	pH	2/03/93	125	8				pH		B08415	ASTM D-1293
299-W19-27	pH	2/03/93	93	8					0	B08415	Probe, pH
299-W19-27	pH	6/29/93	125	8				pH		B08MQ6	ASTM D-1293
299-W19-27	pH	8/26/93	125	8				pH		B091J3	ASTM D-1293
299-W19-27	pH	8/26/93	93	8					0	B091J3	Probe, pH

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-27	sym-Trinitrobenzene	11/02/89	21	10	4		U	ppb		H000B244	
299-W19-27	trans-1,2-Dichloroethylene	11/02/89	16	5	2		U	ppb	5	H000B244	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	4/06/90	16	5	2		U	ppb	5	H000B245	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	2/27/92	16	5			U	ppb	5	B01VY6	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	4/30/92	16	5			U	ppb	5	B06DY3	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074N1	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	8/12/92	16	5			U	ppb	5	B074N2	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	12/03/92	16	5			U	ppb	5	B07QG3	SW-846 8240
299-W19-27	trans-1,2-Dichloroethylene	2/03/93	16	5			U	ppb	5	B08415	SW-846 8240
299-W19-27	trans-1,4-dichloro-2-butene	11/02/89	16	10	4		U	ppb	5	H000B244	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	1,1,1,2-Tetrachloroethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,1,1-Trichloroethane	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	1,1,1-Trichloroethane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,1,1-Trichloroethane	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	1,1,2,2-Tetrachloroethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,1,2-Trichloroethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,1,2-Trichloroethane	7/20/93	25	0			U	ppb	0	B08MZ2	SW-846 8010/8020
299-W19-32	1,1,2-Trichloroethane	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	1,1-Dichloroethane	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	1,1-Dichloroethane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,1-Dichloroethane	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	1,1-Dichloroethene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2,3-Trichloropropane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2-Dibromo-3-chloropropane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2-Dibromoethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2-Dichloroethane	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	1,2-Dichloroethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2-Dichloroethane	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	1,2-Dichloroethene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,2-Dichloropropane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	1,4-Dichlorobenzene	7/20/93	25	0			U	ppb	2	B08MZ2	SW-846 8010/8020
299-W19-32	1,4-Dioxane	7/20/93	16	44			U	ppb	200	B08MQ9	SW-846 8240
299-W19-32	1-Butanol	7/20/93	16	13			U	ppb	1000	B08MQ9	SW-846 8240
299-W19-32	2,4,5-T	4/22/92	49	2			U	ppb	2	B01QW2	SW-846 8150
299-W19-32	2,4,5-T	7/20/92	49	2			U	ppb	2	B071R4	SW-846 8150
299-W19-32	2,4,5-T	11/13/92	49	2			U	ppb	2	B07M33	SW-846 8150
299-W19-32	2,4,5-T	3/05/93	49	2			U	ppb	2	B08840	SW-846 8150
299-W19-32	2,4,5-T	7/20/93	49	0			U	ppb	2	B08MQ9	SW-846 8150
299-W19-32	2,4,5-TP	4/22/92	49	2			U	ppb	2	B01QW2	SW-846 8150
299-W19-32	2,4,5-TP	7/20/92	49	2			U	ppb	2	B071R4	SW-846 8150
299-W19-32	2,4,5-TP	11/13/92	49	2			U	ppb	2	B07M33	SW-846 8150

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	2,4,5-TP	3/05/93	49	2			U	ppb	2	B08840	SW-846 8150
299-W19-32	2,4,5-TP	7/20/93	49	0			U	ppb	2	B08MQ9	SW-846 8150
299-W19-32	2,4,6-Trichlorophenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2,4,6-Trichlorophenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2,4,6-Trichlorophenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2,4,6-Trichlorophenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2,4-D	4/22/92	49	10			U	ppb	10	B01QW2	SW-846 8150
299-W19-32	2,4-D	7/20/92	49	10			U	ppb	10	B071R4	SW-846 8150
299-W19-32	2,4-D	11/13/92	49	10			U	ppb	10	B07M33	SW-846 8150
299-W19-32	2,4-D	3/05/93	49	10			U	ppb	10	B08840	SW-846 8150
299-W19-32	2,4-D	7/20/93	49	0			U	ppb	10	B08MQ9	SW-846 8150
299-W19-32	2,4-Dichlorophenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2,4-Dichlorophenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2,4-Dichlorophenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2,4-Dichlorophenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2,4-Dimethylphenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2,4-Dimethylphenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2,4-Dimethylphenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2,4-Dimethylphenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2,4-Dinitrophenol	4/22/92	30	150			U	ppb	150	B01QW2	SW-846 8040
299-W19-32	2,4-Dinitrophenol	7/20/92	30	150			U	ppb	150	B071R4	SW-846 8040
299-W19-32	2,4-Dinitrophenol	11/13/92	30	150			U	ppb	150	B07M33	SW-846 8040
299-W19-32	2,4-Dinitrophenol	3/05/93	30	150			U	ppb	150	B08840	SW-846 8040
299-W19-32	2,6-Dichlorophenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2,6-Dichlorophenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2,6-Dichlorophenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2,6-Dichlorophenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2-Chlorophenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2-Chlorophenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2-Chlorophenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2-Chlorophenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2-Hexanone	7/20/93	16	1			U	ppb	50	B08MQ9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	2-Nitrophenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2-Nitrophenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2-Nitrophenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2-Nitrophenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	4/22/92	49	1			U	ppb	1	B01QW2	SW-846 8150
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	7/20/92	49	1			U	ppb	1	B071R4	SW-846 8150
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	11/13/92	49	1			U	ppb	1	B07M33	SW-846 8150
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	3/05/93	49	1			U	ppb	1	B08840	SW-846 8150
299-W19-32	2-sec-Butyl-4,6-dinitrophenol (DNBP)	7/26/93	49	0			U	ppb	1	B08MQ9	SW-846 8150
299-W19-32	4,4'-DDD	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	4,4'-DDD	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	4,4'-DDD	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	4,4'-DDD	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	4,4'-DDD	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	4,4'-DDE	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	4,4'-DDE	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	4,4'-DDE	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	4,4'-DDE	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	4,4'-DDE	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	4,4'-DDT	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	4,4'-DDT	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	4,4'-DDT	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	4,4'-DDT	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	4,4'-DDT	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	4,6-Dinitro-2-methylphenol	4/22/92	30	200			U	ppb	200	B01QW2	SW-846 8040
299-W19-32	4,6-Dinitro-2-methylphenol	7/20/92	30	200			U	ppb	200	B071R4	SW-846 8040
299-W19-32	4,6-Dinitro-2-methylphenol	11/13/92	30	200			U	ppb	200	B07M33	SW-846 8040
299-W19-32	4,6-Dinitro-2-methylphenol	3/05/93	30	200			U	ppb	200	B08840	SW-846 8040

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	4-Chloro-3-methylphenol	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	4-Chloro-3-methylphenol	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	4-Chloro-3-methylphenol	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	4-Chloro-3-methylphenol	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	4-Methyl-2-pentanone	7/20/93	16	1			U	ppb	50	B08MQ9	SW-846 8240
299-W19-32	4-Nitrophenol	4/22/92	30	30			U	ppb	30	B01QW2	SW-846 8040
299-W19-32	4-Nitrophenol	7/20/92	30	30			U	ppb	30	B071R4	SW-846 8040
299-W19-32	4-Nitrophenol	11/13/92	30	30			U	ppb	30	B07M33	SW-846 8040
299-W19-32	4-Nitrophenol	3/05/93	30	30			U	ppb	30	B08840	SW-846 8040
299-W19-32	Acetone	7/20/93	16	13			U	ppb	100	B08MQ9	SW-846 8240
299-W19-32	Acetonitrile	7/20/93	16	19			U	ppb	200	B08MQ9	SW-846 8240
299-W19-32	Acrolein	7/20/93	16	10			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Acrylonitrile	7/20/93	16	4			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Aldrin	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Aldrin	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Aldrin	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Aldrin	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Aldrin	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Alkalinity	7/20/93	52	110				ppm	50	B08MQ9	ASTM D-1067-A
299-W19-32	Alpha-BHC	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Alpha-BHC	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Alpha-BHC	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Alpha-BHC	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Alpha-BHC	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Americium-241	7/20/93	147	0	0		U	pCi/L	0	B08MQ9	ITAS Am-241
299-W19-32	Ammonium ion	4/22/92	54	100			U	ppb	100	B01QW2	ASTM D-1426-D
299-W19-32	Ammonium ion	7/20/92	54	100	13			ppb	100	B071R4	ASTM D-1426-D
299-W19-32	Ammonium ion	11/13/92	54	100	13			ppb	100	B07M33	ASTM D-1426-D
299-W19-32	Ammonium ion	3/05/93	54	100			U	ppb	100	B08840	ASTM D-1426-D
299-W19-32	Ammonium ion	7/20/93	54	39			U	ppb	100	B08MQ9	ASTM D-1426-D
299-W19-32	Antimony	10/01/91	34	200			U	ppb	200	B00LT5	SW-846 6010
299-W19-32	Antimony	4/22/92	34	200			U	ppb	200	B01QW2	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Antimony	7/20/92	34	200			U	ppb	200	B071R4	SW-846 6010
299-W19-32	Antimony	11/13/92	34	200			U	ppb	200	B07M33	SW-846 6010
299-W19-32	Antimony	3/05/93	34	200			U	ppb	200	B08840	SW-846 6010
299-W19-32	Antimony, filtered	10/01/91	34	200		Y	U	ppb	200	B00LT5F	SW-846 6010
299-W19-32	Antimony, filtered	4/22/92	34	200		Y	U	ppb	200	B01QW5	SW-846 6010
299-W19-32	Antimony, filtered	7/20/92	34	200		Y	U	ppb	200	B071R8	SW-846 6010
299-W19-32	Antimony, filtered	11/13/92	34	200		Y	U	ppb	200	B07M37	SW-846 6010
299-W19-32	Antimony, filtered	3/05/93	34	200		Y	U	ppb	200	B08844	SW-846 6010
299-W19-32	Antimony-125	10/01/91	140	-16	24		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Antimony-125	4/22/92	140	4	16		U	pCi/L		B01QW2	ITAS Gamma Scan
299-W19-32	Antimony-125	7/20/92	140	-7	16		U	pCi/L		B071R4	ITAS Gamma Scan
299-W19-32	Antimony-125	11/13/92	140	-9	16		U	pCi/L		B07M33	ITAS Gamma Scan
299-W19-32	Antimony-125	3/05/93	140	0	16		U	pCi/L		B08840	ITAS Gamma Scan
299-W19-32	Antimony-125	7/20/93	140	2	17		U	pCi/L		B08MQ9	ITAS Gamma Scan
299-W19-32	Aroclor-1016	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1221	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1232	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1242	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1248	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1254	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Aroclor-1260	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Arsenic	4/22/92	43	5			U	ppb	5	B01QW2	SW-846 7060
299-W19-32	Arsenic	7/20/92	43	5			U	ppb	5	B071R4	SW-846 7060
299-W19-32	Arsenic	11/13/92	43	5			U	ppb	5	B07M33	SW-846 7060
299-W19-32	Arsenic	3/05/93	43	5			U	ppb	5	B08840	SW-846 7060
299-W19-32	Arsenic	7/20/93	43	2	2		L	ppb	5	B08MQ9	SW-846 7060
299-W19-32	Arsenic, filtered	4/22/92	43	5		Y	U	ppb	5	B01QW6	SW-846 7060
299-W19-32	Arsenic, filtered	7/20/92	43	5		Y	U	ppb	5	B071R8	SW-846 7060
299-W19-32	Arsenic, filtered	11/13/92	43	5		Y	U	ppb	5	B07M37	SW-846 7060
299-W19-32	Arsenic, filtered	3/05/93	43	5		Y	U	ppb	5	B08844	SW-846 7060
299-W19-32	Arsenic, filtered	7/20/93	43	1		Y	U	ppb	5	B08MR4	SW-846 7060
299-W19-32	Barium	10/01/91	34	69	10			ppb	20	B00LT5	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Barium	4/22/92	34	76	11			ppb	20	B01QW2	SW-846 6010
299-W19-32	Barium	7/20/92	34	54	7			ppb	20	B071R4	SW-846 6010
299-W19-32	Barium	11/13/92	34	60	8			ppb	20	B07M33	SW-846 6010
299-W19-32	Barium	3/05/93	34	50	7			ppb	20	B08840	SW-846 6010
299-W19-32	Barium, filtered	10/01/91	34	56	8	Y		ppb	20	B00LT5F	SW-846 6010
299-W19-32	Barium, filtered	4/22/92	34	52	7	Y		ppb	20	B01QW6	SW-846 6010
299-W19-32	Barium, filtered	7/20/92	34	53	7	Y		ppb	20	B071R8	SW-846 6010
299-W19-32	Barium, filtered	11/13/92	34	50	7	Y		ppb	20	B07M37	SW-846 6010
299-W19-32	Barium, filtered	3/05/93	34	50	7	Y		ppb	20	B08844	SW-846 6010
299-W19-32	Benzene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Benzene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Benzene	7/20/93	25	0			U	ppb	2	B08M22	SW-846 8010/8020
299-W19-32	Beryllium	10/01/91	34	3			U	ppb	3	B00LT5	SW-846 6010
299-W19-32	Beryllium	4/22/92	34	3			U	ppb	3	B01QW2	SW-846 6010
299-W19-32	Beryllium	7/20/92	34	3			U	ppb	3	B071R4	SW-846 6010
299-W19-32	Beryllium	11/13/92	34	3			U	ppb	3	B07M33	SW-846 6010
299-W19-32	Beryllium	3/05/93	34	3			U	ppb	3	B08840	SW-846 6010
299-W19-32	Beryllium, filtered	10/01/91	34	3		Y	U	ppb	3	B00LT5F	SW-846 6010
299-W19-32	Beryllium, filtered	4/22/92	34	3		Y	U	ppb	3	B01QW6	SW-846 6010
299-W19-32	Beryllium, filtered	7/20/92	34	3		Y	U	ppb	3	B071R8	SW-846 6010
299-W19-32	Beryllium, filtered	11/13/92	34	3		Y	U	ppb	3	B07M37	SW-846 6010
299-W19-32	Beryllium, filtered	3/05/93	34	3		Y	U	ppb	3	B08844	SW-846 6010
299-W19-32	Beryllium-7	10/01/91	140	90	117		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Beta-BHC	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Beta-BHC	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Beta-BHC	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Beta-BHC	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Beta-BHC	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Bromide	4/22/92	124	500			U	ppb	500	B01QW2	ASTM D-4327-88
299-W19-32	Bromide	7/20/92	124	500			U	ppb	500	B071R4	ASTM D-4327-88
299-W19-32	Bromide	11/13/92	124	500			U	ppb	500	B07M33	ASTM D-4327-88
299-W19-32	Bromide	3/05/93	124	500			U	ppb	500	B08840	ASTM D-4327-88

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Bromodichloromethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Bromoform	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Cadmium	10/01/91	34	10			U	ppb	10	B00LT5	SW-846 6010
299-W19-32	Cadmium	4/22/92	34	10			U	ppb	10	B01QW2	SW-846 6010
299-W19-32	Cadmium	7/20/92	34	10			U	ppb	10	B071R4	SW-846 6010
299-W19-32	Cadmium	11/13/92	34	10			U	ppb	10	B07M33	SW-846 6010
299-W19-32	Cadmium	3/05/93	34	10			U	ppb	10	B08840	SW-846 6010
299-W19-32	Cadmium, filtered	10/01/91	34	10		Y	U	ppb	10	B00LT5F	SW-846 6010
299-W19-32	Cadmium, filtered	4/22/92	34	10		Y	U	ppb	10	B01QW6	SW-846 6010
299-W19-32	Cadmium, filtered	7/20/92	34	10		Y	U	ppb	10	B071R8	SW-846 6010
299-W19-32	Cadmium, filtered	11/13/92	34	10		Y	U	ppb	10	B07M37	SW-846 6010
299-W19-32	Cadmium, filtered	3/05/93	34	10		Y	U	ppb	10	B08844	SW-846 6010
299-W19-32	Calcium	10/01/91	34	31000				ppb	100	B00LT5	SW-846 6010
299-W19-32	Calcium	4/22/92	34	34000				ppb	100	B01QW2	SW-846 6010
299-W19-32	Calcium	7/20/92	34	34000				ppb	100	B071R4	SW-846 6010
299-W19-32	Calcium	11/13/92	34	32000				ppb	100	B07M33	SW-846 6010
299-W19-32	Calcium	3/05/93	34	32000				ppb	100	B08840	SW-846 6010
299-W19-32	Calcium, filtered	10/01/91	34	31000		Y		ppb	100	B00LT5F	SW-846 6010
299-W19-32	Calcium, filtered	4/22/92	34	32000		Y		ppb	100	B01QW6	SW-846 6010
299-W19-32	Calcium, filtered	7/20/92	34	33000		Y		ppb	100	B071R8	SW-846 6010
299-W19-32	Calcium, filtered	11/13/92	34	30000		Y		ppb	100	B07M37	SW-846 6010
299-W19-32	Calcium, filtered	3/05/93	34	31000		Y		ppb	100	B08844	SW-846 6010
299-W19-32	Carbon disulfide	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Carbon tetrachloride	4/22/92	83	8				ppb		B06574	PNL VOAs
299-W19-32	Carbon tetrachloride	7/20/93	16	14				ppb	5	B08MQ9	SW-846 8240
299-W19-32	Carbon tetrachloride	7/20/93	25	11				ppb	1	B08M22	SW-846 8010/8020
299-W19-32	Cerium/Praseodymium-144	10/01/91	140	-30	79		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Cesium-134	10/01/91	140	-11	9		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Cesium-137	10/01/91	140	-3	8		U	pCi/L	20	B00LT5	ITAS Gamma Scan
299-W19-32	Cesium-137	4/22/92	140	-5	7		U	pCi/L	20	B01QW2	ITAS Gamma Scan
299-W19-32	Cesium-137	7/20/92	140	-3	6		U	pCi/L	20	B071R4	ITAS Gamma Scan
299-W19-32	Cesium-137	11/13/92	140	1	7		U	pCi/L	20	B07M33	ITAS Gamma Scan

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299-W19-32	Cesium-137	3/05/93	140	0	8		U	pCi/L	20	B08840	ITAS Gamma Scan
299-W19-32	Cesium-137	7/20/93	140	2	6		U	pCi/L	20	B08MQ9	ITAS Gamma Scan
299-W19-32	Chlordane	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Chlordane	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Chlordane	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Chlordane	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Chlordane	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Chloride	4/22/92	124	14000	4710			ppb	200	B01QW2	ASTM D-4327-88
299-W19-32	Chloride	7/20/92	124	14000	4710			ppb	200	B071R4	ASTM D-4327-88
299-W19-32	Chloride	11/13/92	124	17000	5720			ppb	200	B07M33	ASTM D-4327-88
299-W19-32	Chloride	3/05/93	124	17000	5720			ppb	200	B08840	ASTM D-4327-88
299-W19-32	Chlorobenzene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Chloroethane	7/20/93	16	1			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Chloroform	4/22/92	83	1			J	ppb		B06574	PNL VOAs
299-W19-32	Chloroform	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Chloroform	7/20/93	25	0			L	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	Chloroprene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Chromium	10/01/91	34	160	96			ppb	20	B00LT5	SW-846 6010
299-W19-32	Chromium	4/22/92	34	360	215			ppb	20	B01QW2	SW-846 6010
299-W19-32	Chromium	7/20/92	34	130	78			ppb	20	B071R4	SW-846 6010
299-W19-32	Chromium	11/13/92	34	170	101			ppb	20	B07M33	SW-846 6010
299-W19-32	Chromium	3/05/93	34	260	155			ppb	20	B08840	SW-846 6010
299-W19-32	Chromium, filtered	10/01/91	34	34	20	Y		ppb	20	B00LT5F	SW-846 6010
299-W19-32	Chromium, filtered	4/22/92	34	34	20	Y		ppb	20	B01QW6	SW-846 6010
299-W19-32	Chromium, filtered	7/20/92	34	31	19	Y		ppb	20	B071R8	SW-846 6010
299-W19-32	Chromium, filtered	11/13/92	34	20	12	Y		ppb	20	B07M37	SW-846 6010
299-W19-32	Chromium, filtered	3/05/93	34	30	18	Y		ppb	20	B08844	SW-846 6010
299-W19-32	Cobalt	10/01/91	34	20			U	ppb	20	B00LT5	SW-846 6010
299-W19-32	Cobalt	4/22/92	34	20			U	ppb	20	B01QW2	SW-846 6010
299-W19-32	Cobalt	7/20/92	34	20			U	ppb	20	B071R4	SW-846 6010
299-W19-32	Cobalt	11/13/92	34	20			U	ppb	20	B07M33	SW-846 6010
299-W19-32	Cobalt	3/05/93	34	20			U	ppb	20	B08840	SW-846 6010

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299-W19-32	Cobalt, filtered	10/01/91	34	20		Y	U	ppb	20	B00LT5F	SW-846 6010
299-W19-32	Cobalt, filtered	4/22/92	34	20		Y	U	ppb	20	B01QW6	SW-846 6010
299-W19-32	Cobalt, filtered	7/20/92	34	20		Y	U	ppb	20	B071R8	SW-846 6010
299-W19-32	Cobalt, filtered	11/13/92	34	20		Y	U	ppb	20	B07M37	SW-846 6010
299-W19-32	Cobalt, filtered	3/05/93	34	20		Y	U	ppb	20	B08844	SW-846 6010
299-W19-32	Cobalt-60	10/01/91	140	6	8		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Cobalt-60	4/22/92	140	6	5			pCi/L		B01QW2	ITAS Gamma Scan
299-W19-32	Cobalt-60	7/20/92	140	-1	7		U	pCi/L		B071R4	ITAS Gamma Scan
299-W19-32	Cobalt-60	11/13/92	140	3	5		U	pCi/L		B07M33	ITAS Gamma Scan
299-W19-32	Cobalt-60	3/05/93	140	6	9		U	pCi/L		B08840	ITAS Gamma Scan
299-W19-32	Cobalt-60	7/20/93	140	4	6		U	pCi/L		B08M09	ITAS Gamma Scan
299-W19-32	Coliforms	12/05/91	144	1			U	COL		B00N82	
299-W19-32	Coliforms	12/05/91	144	1			U	COL	1	B00N82	SW-846 9132
299-W19-32	Coliforms	4/22/92	144	1			U	COL		B01QW2	
299-W19-32	Coliforms	4/22/92	144	1			U	COL	1	B01QW2	SW-846 9132
299-W19-32	Coliforms	7/20/92	144	1			U	COL		B071R4	
299-W19-32	Coliforms	7/20/92	144	1			U	COL	1	B071R4	SW-846 9132
299-W19-32	Coliforms	11/13/92	144	1			U	COL		B07M33	
299-W19-32	Coliforms	11/13/92	144	1			U	COL	1	B07M33	SW-846 9132
299-W19-32	Coliforms	3/05/93	144	1			U	COL		B08840	
299-W19-32	Coliforms	3/05/93	144	1			U	COL	1	B08840	SW-846 9132
299-W19-32	Coliforms	7/20/93	144	1			U	COL		B08MR8	
299-W19-32	Coliforms	7/20/93	144	1			U	COL	1	B08MR8	SW-846 9132
299-W19-32	Copper	10/01/91	34	35	7			ppb	20	B00LT5	SW-846 6010
299-W19-32	Copper	4/22/92	34	33	7			ppb	20	B01QW2	SW-846 6010
299-W19-32	Copper	7/20/92	34	20			U	ppb	20	B071R4	SW-846 6010
299-W19-32	Copper	11/13/92	34	20			U	ppb	20	B07M33	SW-846 6010
299-W19-32	Copper	3/05/93	34	20			U	ppb	20	B08840	SW-846 6010
299-W19-32	Copper, filtered	10/01/91	34	20		Y	U	ppb	20	B00LT5F	SW-846 6010
299-W19-32	Copper, filtered	4/22/92	34	20		Y	U	ppb	20	B01QW6	SW-846 6010
299-W19-32	Copper, filtered	7/20/92	34	20		Y	U	ppb	20	B071R8	SW-846 6010
299-W19-32	Copper, filtered	11/13/92	34	20		Y	U	ppb	20	B07M37	SW-846 6010

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299-W19-32	Copper, filtered	3/05/93	34	20		Y	U	ppb	20	B08844	SW-846 6010
299-W19-32	Cresols (methylphenols)	4/22/92	30	10			U	ppb	10	B01QW2	SW-846 8040
299-W19-32	Cresols (methylphenols)	7/20/92	30	10			U	ppb	10	B071R4	SW-846 8040
299-W19-32	Cresols (methylphenols)	11/13/92	30	10			U	ppb	10	B07M33	SW-846 8040
299-W19-32	Cresols (methylphenols)	3/05/93	30	10			U	ppb	10	B08840	SW-846 8040
299-W19-32	Cyanide	4/22/92	56	20			U	ppb	20	B01QW2	SW-846 9010
299-W19-32	Cyanide	7/20/92	56	20			U	ppb	20	B071R4	SW-846 9010
299-W19-32	Cyanide	11/13/92	56	20			U	ppb	20	B07M33	SW-846 9010
299-W19-32	Cyanide	3/05/93	56	20			U	ppb	20	B08840	SW-846 9010
299-W19-32	Cyanide	7/20/93	56	1			U	ppb	20	B08MQ9	SW-846 9010
299-W19-32	Delta-BHC	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Delta-BHC	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Delta-BHC	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Delta-BHC	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Delta-BHC	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Dibromochloromethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Dibromomethane	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Dichlorodifluoromethane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Dieldrin	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Dieldrin	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Dieldrin	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Dieldrin	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Dieldrin	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Disulfoton	7/20/93	29	0			U	ppb	2	B08MQ9	SW-846 8140
299-W19-32	Endosulfan I	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Endosulfan I	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Endosulfan I	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Endosulfan I	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Endosulfan I	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Endosulfan II	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Endosulfan II	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Endosulfan II	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Endosulfan II	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Endosulfan II	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Endosulfan sulfate	4/22/92	17	1			U	ppb	1	B01QW2	SW-846 8080
299-W19-32	Endosulfan sulfate	7/20/92	17	1			U	ppb	1	B071R4	SW-846 8080
299-W19-32	Endosulfan sulfate	11/13/92	17	1			U	ppb	1	B07M33	SW-846 8080
299-W19-32	Endosulfan sulfate	3/05/93	17	1			U	ppb	1	B08840	SW-846 8080
299-W19-32	Endosulfan sulfate	7/20/93	17	0			L	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Endrin	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Endrin	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Endrin	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Endrin	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Endrin	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Endrin Aldehyde	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Endrin Aldehyde	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Endrin Aldehyde	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Endrin Aldehyde	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Endrin Aldehyde	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Ethyl cyanide	7/20/93	16	4			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Ethyl cyanide	7/20/93	16	4			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Ethyl methacrylate	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Ethylbenzene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Ethylbenzene	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Ethylbenzene	7/20/93	25	0			U	ppb	2	B08M22	SW-846 8010/8020
299-W19-32	Europium-154	10/01/91	140	5	25		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Europium-155	10/01/91	140	4	18		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Fluoride	4/22/92	124	600	127			ppb	100	B01QW2	ASTM D-4327-88
299-W19-32	Fluoride	7/20/92	124	500	105			ppb	100	B071R4	ASTM D-4327-88
299-W19-32	Fluoride	11/13/92	124	700	148			ppb	100	B07M33	ASTM D-4327-88
299-W19-32	Fluoride	3/05/93	124	700	148			ppb	100	B08840	ASTM D-4327-88
299-W19-32	Gross alpha	10/01/91	135	2	1			pCi/L	4	B00LT5	SW-846 9310, Alpha
299-W19-32	Gross alpha	4/22/92	135	2	1		U	pCi/L	4	B01QW2	SW-846 9310, Alpha
299-W19-32	Gross alpha	7/20/92	135	1	1		U	pCi/L	4	B071R4	SW-846 9310, Alpha

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299-W19-32	Gross alpha	11/13/92	135	2	2		U	pCi/L	4	B07M33	SW-846 9310, Alpha
299-W19-32	Gross alpha	3/05/93	135	2	1		U	pCi/L	4	B08840	SW-846 9310, Alpha
299-W19-32	Gross alpha	7/20/93	135	5	2			pCi/L	4	B08MQ9	SW-846 9310, Alpha
299-W19-32	Gross beta	10/01/91	136	107	11			pCi/L	8	B00LT5	SW-846 9310, Beta
299-W19-32	Gross beta	4/22/92	136	127	15			pCi/L	8	B01QW2	SW-846 9310, Beta
299-W19-32	Gross beta	7/20/92	136	88	9			pCi/L	8	B071R4	SW-846 9310, Beta
299-W19-32	Gross beta	11/13/92	136	102	10			pCi/L	8	B07M33	SW-846 9310, Beta
299-W19-32	Gross beta	3/05/93	136	118	11			pCi/L	8	B08840	SW-846 9310, Beta
299-W19-32	Gross beta	7/20/93	136	430	33			pCi/L	8	B08MQ9	SW-846 9310, Beta
299-W19-32	Heptachlor	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	Heptachlor	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	Heptachlor	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	Heptachlor	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	Heptachlor	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	Heptachlor epoxide	4/22/92	17	1			U	ppb	1	B01QW2	SW-846 8080
299-W19-32	Heptachlor epoxide	7/20/92	17	1			U	ppb	1	B071R4	SW-846 8080
299-W19-32	Heptachlor epoxide	11/13/92	17	1			U	ppb	1	B07M33	SW-846 8080
299-W19-32	Heptachlor epoxide	3/05/93	17	1			U	ppb	1	B08840	SW-846 8080
299-W19-32	Heptachlor epoxide	7/20/93	17	0			U	ppb	1	B08MQ9	SW-846 8080
299-W19-32	Hydrazine	4/22/92	36	30			U	ppb	30	B01QW2	ASTM D-1385
299-W19-32	Hydrazine	7/20/92	36	30			U	ppb	30	B071R4	ASTM D-1385
299-W19-32	Hydrazine	11/13/92	36	30			U	ppb	30	B07M33	ASTM D-1385
299-W19-32	Hydrazine	3/05/93	36	30			U	ppb	30	B08840	ASTM D-1385
299-W19-32	Hydrazine	7/20/93	36	2			U	ppb	30	B08MR8	ASTM D-1385
299-W19-32	Iodine-129	10/01/91	139	0	0		U	pCi/L	1	B00LT5	ITAS I-129 Low Level
299-W19-32	Iodine-129	4/22/92	139	0	0		U	pCi/L	1	B01QW2	ITAS I-129 Low Level
299-W19-32	Iodine-129	7/20/92	139	-0	0		U	pCi/L	1	B071R4	ITAS I-129 Low Level
299-W19-32	Iodine-129	11/13/92	139	-0	0		U	pCi/L	1	B07M33	ITAS I-129 Low Level
299-W19-32	Iodine-129	3/05/93	139	-0	0		U	pCi/L	1	B08840	ITAS I-129 Low Level
299-W19-32	Iodine-129, Low level	7/20/93	139	0	0		U	pCi/L	1	B08MR8	ITAS I-129 Low Level
299-W19-32	Iron	10/01/91	34	2100	1810			ppb	20	B00LT5	SW-846 6010
299-W19-32	Iron	4/22/92	34	5300	4560			ppb	20	B01QW2	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Iron	7/20/92	34	500	430			ppb	20	B071R4	SW-846 6010
299-W19-32	Iron	11/13/92	34	1200	1030			ppb	20	B07M33	SW-846 6010
299-W19-32	Iron	3/05/93	34	1300	1120			ppb	20	B08840	SW-846 6010
299-W19-32	Iron, filtered	10/01/91	34	230	198	Y		ppb	20	B00LT5F	SW-846 6010
299-W19-32	Iron, filtered	4/22/92	34	99	85	Y		ppb	20	B01QW6	SW-846 6010
299-W19-32	Iron, filtered	7/20/92	34	20		Y	U	ppb	20	B071R8	SW-846 6010
299-W19-32	Iron, filtered	11/13/92	34	30	26	Y		ppb	20	B07M37	SW-846 6010
299-W19-32	Iron, filtered	3/05/93	34	40	34	Y		ppb	20	B08844	SW-846 6010
299-W19-32	Isobutyl alcohol	7/20/93	16	27			U	ppb	200	B08MQ9	SW-846 8240
299-W19-32	Lead	4/22/92	40	19	8			ppb	5	B01QW2	SW-846 7421
299-W19-32	Lead	7/20/92	40	5			U	ppb	5	B071R4	SW-846 7421
299-W19-32	Lead	11/13/92	40	8	3			ppb	5	B07M33	SW-846 7421
299-W19-32	Lead	3/05/93	40	45	19			ppb	5	B08840	SW-846 7421
299-W19-32	Lead	7/20/93	40	2	0		L	ppb	5	B08MQ9	SW-846 7421
299-W19-32	Lead, filtered	4/22/92	40	5		Y	U	ppb	5	B01QW6	SW-846 7421
299-W19-32	Lead, filtered	7/20/92	40	5		Y	U	ppb	5	B071R8	SW-846 7421
299-W19-32	Lead, filtered	11/13/92	40	5		Y	U	ppb	5	B07M37	SW-846 7421
299-W19-32	Lead, filtered	3/05/93	40	5		Y	U	ppb	5	B08844	SW-846 7421
299-W19-32	Lead, filtered	7/20/93	40	1		Y	U	ppb	5	B08MR4	SW-846 7421
299-W19-32	Magnesium	10/01/91	34	9100				ppb	100	B00LT5	SW-846 6010
299-W19-32	Magnesium	4/22/92	34	9800				ppb	100	B01QW2	SW-846 6010
299-W19-32	Magnesium	7/20/92	34	9300				ppb	100	B071R4	SW-846 6010
299-W19-32	Magnesium	11/13/92	34	9200				ppb	100	B07M33	SW-846 6010
299-W19-32	Magnesium	3/05/93	34	9100				ppb	100	B08840	SW-846 6010
299-W19-32	Magnesium, filtered	10/01/91	34	9000		Y		ppb	100	B00LT5F	SW-846 6010
299-W19-32	Magnesium, filtered	4/22/92	34	9200		Y		ppb	100	B01QW6	SW-846 6010
299-W19-32	Magnesium, filtered	7/20/92	34	9200		Y		ppb	100	B071R8	SW-846 6010
299-W19-32	Magnesium, filtered	11/13/92	34	8600		Y		ppb	100	B07M37	SW-846 6010
299-W19-32	Magnesium, filtered	3/05/93	34	9100		Y		ppb	100	B08844	SW-846 6010
299-W19-32	Manganese	10/01/91	34	120	18			ppb	10	B00LT5	SW-846 6010
299-W19-32	Manganese	4/22/92	34	130	20			ppb	10	B01QW2	SW-846 6010
299-W19-32	Manganese	7/20/92	34	31	5			ppb	10	B071R4	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Manganese	11/13/92	34	30	5			ppb	10	B07M33	SW-846 6010
299-W19-32	Manganese	3/05/93	34	40	6			ppb	10	B08840	SW-846 6010
299-W19-32	Manganese, filtered	10/01/91	34	53	8	Y		ppb	10	B00LT5F	SW-846 6010
299-W19-32	Manganese, filtered	4/22/92	34	22	3	Y		ppb	10	B01QW6	SW-846 6010
299-W19-32	Manganese, filtered	7/20/92	34	23	4	Y		ppb	10	B071R8	SW-846 6010
299-W19-32	Manganese, filtered	11/13/92	34	10		Y	U	ppb	10	B07M37	SW-846 6010
299-W19-32	Manganese, filtered	3/05/93	34	10	2	Y		ppb	10	B08844	SW-846 6010
299-W19-32	Mercury	4/22/92	41	0			U	ppb	0	B01QW2	SW-846 7470
299-W19-32	Mercury	7/20/92	41	0			U	ppb	0	B071R4	SW-846 7470
299-W19-32	Mercury	11/13/92	41	0			U	ppb	0	B07M33	SW-846 7470
299-W19-32	Mercury	3/05/93	41	0			U	ppb	0	B08840	SW-846 7470
299-W19-32	Mercury	7/20/93	41	0			U	ppb	0	B08MQ9	SW-846 7470
299-W19-32	Mercury, filtered	4/22/92	41	0		Y	U	ppb	0	B01QW6	SW-846 7470
299-W19-32	Mercury, filtered	7/20/92	41	0		Y	U	ppb	0	B071R8	SW-846 7470
299-W19-32	Mercury, filtered	11/13/92	41	0		Y	U	ppb	0	B07M37	SW-846 7470
299-W19-32	Mercury, filtered	3/05/93	41	0		Y	U	ppb	0	B08844	SW-846 7470
299-W19-32	Mercury, filtered	7/20/93	41	0		Y	U	ppb	0	B08MR4	SW-846 7470
299-W19-32	Methacrylonitrile	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Methoxychlor	4/22/92	17	2			U	ppb	2	B01QW2	SW-846 8080
299-W19-32	Methoxychlor	7/20/92	17	2			U	ppb	2	B071R4	SW-846 8080
299-W19-32	Methoxychlor	11/13/92	17	2			U	ppb	2	B07M33	SW-846 8080
299-W19-32	Methoxychlor	3/05/93	17	2			U	ppb	2	B08840	SW-846 8080
299-W19-32	Methoxychlor	7/20/93	17	0			U	ppb	2	B08MQ9	SW-846 8080
299-W19-32	Methyl Iodide	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Methyl bromide	7/20/93	16	1			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Methyl chloride	7/20/93	16	1			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Methyl ethyl ketone	7/20/93	16	4			U	ppb	100	B08MQ9	SW-846 8240
299-W19-32	Methyl methacrylate	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Methyl parathion	7/20/93	29	0			U	ppb	1	B08MQ9	SW-846 8140
299-W19-32	Methylene chloride	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Methylene chloride	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Methylene chloride	7/20/93	25	0			U	ppb	5	B08MZ2	SW-846 8010/8020

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Nickel	10/01/91	34	65	14			ppb	30	B00LT5	SW-846 6010
299-W19-32	Nickel	4/22/92	34	170	36			ppb	30	B01QW2	SW-846 6010
299-W19-32	Nickel	7/20/92	34	55	12			ppb	30	B071R4	SW-846 6010
299-W19-32	Nickel	11/13/92	34	80	17			ppb	30	B07M33	SW-846 6010
299-W19-32	Nickel	3/05/93	34	140	29			ppb	30	B08840	SW-846 6010
299-W19-32	Nickel, filtered	10/01/91	34	30		Y	U	ppb	30	B00LT5F	SW-846 6010
299-W19-32	Nickel, filtered	4/22/92	34	30		Y	U	ppb	30	B01QW6	SW-846 6010
299-W19-32	Nickel, filtered	7/20/92	34	30		Y	U	ppb	30	B071R8	SW-846 6010
299-W19-32	Nickel, filtered	11/13/92	34	30		Y	U	ppb	30	B07M37	SW-846 6010
299-W19-32	Nickel, filtered	3/05/93	34	30		Y	U	ppb	30	B08844	SW-846 6010
299-W19-32	Nitrate	10/01/91	130	5500				ppb	200	B00LT5	EPA Method 300.0
299-W19-32	Nitrate	4/22/92	124	7000	3770			ppb	200	B01QW2	ASTM D-4327-88
299-W19-32	Nitrate	7/20/92	124	6600	3710			ppb	200	B071R4	ASTM D-4327-88
299-W19-32	Nitrate	11/13/92	124	4600	2590			ppb	200	B07M33	ASTM D-4327-88
299-W19-32	Nitrate	3/05/93	124	5100	2870			ppb	200	B08840	ASTM D-4327-88
299-W19-32	Nitrite	4/22/92	124	200			U	ppb	200	B01QW2	ASTM D-4327-88
299-W19-32	Nitrite	7/20/92	124	200			U	ppb	200	B071R4	ASTM D-4327-88
299-W19-32	Nitrite	11/13/92	124	200			U	ppb	200	B07M33	ASTM D-4327-88
299-W19-32	Nitrite	3/05/93	124	200			U	ppb	200	B08840	ASTM D-4327-88
299-W19-32	Pentachloroethane	7/20/93	16	1			U	ppb	5	B08M09	SW-846 8240
299-W19-32	Pentachlorophenol	4/22/92	30	100			U	ppb	100	B01QW2	SW-846 8040
299-W19-32	Pentachlorophenol	7/20/92	30	100			U	ppb	100	B071R4	SW-846 8040
299-W19-32	Pentachlorophenol	11/13/92	30	100			U	ppb	100	B07M33	SW-846 8040
299-W19-32	Pentachlorophenol	3/05/93	30	100			U	ppb	100	B08840	SW-846 8040
299-W19-32	Perchlorate	4/22/92	62	500			U	ppb	500	B01QW2	Inhouse Ion Chrom.
299-W19-32	Perchlorate	7/20/92	62	500			U	ppb	500	B071R4	Inhouse Ion Chrom.
299-W19-32	Perchlorate	11/13/92	62	500			U	ppb	500	B07M33	Inhouse Ion Chrom.
299-W19-32	Perchlorate	3/05/93	62	500			U	ppb	500	B08840	Inhouse Ion Chrom.
299-W19-32	Perchlorate	7/20/93	62	104			U	ppb	500	B08MR8	Inhouse Ion Chrom.
299-W19-32	Phenol	4/22/92	30	1			U	ppb	1	B01QW2	SW-846 8040
299-W19-32	Phenol	7/20/92	30	1			U	ppb	1	B071R4	SW-846 8040
299-W19-32	Phenol	11/13/92	30	1			U	ppb	1	B07M33	SW-846 8040

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Phenol	3/05/93	30	1			U	ppb	1	B08840	SW-846 8040
299-W19-32	Phorate	7/20/93	29	0			U	ppb	2	B08MQ9	SW-846 8140
299-W19-32	Phosphate	4/22/92	124	400			U	ppb	400	B01QW2	ASTM D-4327-88
299-W19-32	Phosphate	4/22/92	124	400			U	ppb	500	B01QW2	ASTM D-4327-88
299-W19-32	Phosphate	7/20/92	124	400			U	ppb	400	B071R4	ASTM D-4327-88
299-W19-32	Phosphate	7/20/92	124	400			U	ppb	500	B071R4	ASTM D-4327-88
299-W19-32	Phosphate	11/13/92	124	400			U	ppb	400	B07M33	ASTM D-4327-88
299-W19-32	Phosphate	11/13/92	124	400			U	ppb	500	B07M33	ASTM D-4327-88
299-W19-32	Phosphate	3/05/93	124	400			U	ppb	400	B08840	ASTM D-4327-88
299-W19-32	Phosphate	3/05/93	124	400			U	ppb	500	B08840	ASTM D-4327-88
299-W19-32	Plutonium-238	10/01/91	146	-0	0		U	pCi/L	0	B00LT5	ITAS Isotopic Pu
299-W19-32	Plutonium-238	4/22/92	146	-0	0		U	pCi/L	0	B01QW2	ITAS Isotopic Pu
299-W19-32	Plutonium-238	7/20/92	146	0	0		U	pCi/L	0	B071R4	ITAS Isotopic Pu
299-W19-32	Plutonium-238	11/13/92	146	0	0		U	pCi/L	0	B07M33	ITAS Isotopic Pu
299-W19-32	Plutonium-238	3/05/93	146	-0	0		U	pCi/L	0	B08840	ITAS Isotopic Pu
299-W19-32	Plutonium-238	7/20/93	146	-0	0		U	pCi/L	0	B08MQ9	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	10/01/91	146	-0	0		U	pCi/L	0	B00LT5	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	4/22/92	146	0	0		U	pCi/L	0	B01QW2	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	7/20/92	146	0	0		U	pCi/L	0	B071R4	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	11/13/92	146	-0	0		U	pCi/L	0	B07M33	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	3/05/93	146	-0	0		U	pCi/L	0	B08840	ITAS Isotopic Pu
299-W19-32	Plutonium-239/40	7/20/93	146	0	0		U	pCi/L	0	B08MQ9	ITAS Isotopic Pu
299-W19-32	Potassium	10/01/91	34	3900				ppb	300	B00LT5	SW-846 6010
299-W19-32	Potassium	10/01/91	34	3900				ppb	1000	B00LT5	SW-846 6010
299-W19-32	Potassium	4/22/92	34	4900				ppb	300	B01QW2	SW-846 6010
299-W19-32	Potassium	4/22/92	34	4900				ppb	1000	B01QW2	SW-846 6010
299-W19-32	Potassium	7/20/92	34	5200				ppb	300	B071R4	SW-846 6010
299-W19-32	Potassium	7/20/92	34	5200				ppb	1000	B071R4	SW-846 6010
299-W19-32	Potassium	11/13/92	34	4900				ppb	300	B07M33	SW-846 6010
299-W19-32	Potassium	11/13/92	34	4900				ppb	1000	B07M33	SW-846 6010
299-W19-32	Potassium	3/05/93	34	4300				ppb	300	B08840	SW-846 6010
299-W19-32	Potassium	3/05/93	34	4300				ppb	1000	B08840	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Potassium, filtered	10/01/91	34	3600		Y		ppb	300	B00LT5F	SW-846 6010
299-W19-32	Potassium, filtered	10/01/91	34	3600		Y		ppb	1000	B00LT5F	SW-846 6010
299-W19-32	Potassium, filtered	4/22/92	34	4600		Y		ppb	300	B01QW6	SW-846 6010
299-W19-32	Potassium, filtered	4/22/92	34	4600		Y		ppb	1000	B01QW6	SW-846 6010
299-W19-32	Potassium, filtered	7/20/92	34	5200		Y		ppb	300	B071R8	SW-846 6010
299-W19-32	Potassium, filtered	7/20/92	34	5200		Y		ppb	1000	B071R8	SW-846 6010
299-W19-32	Potassium, filtered	11/13/92	34	4300		Y		ppb	300	B07M37	SW-846 6010
299-W19-32	Potassium, filtered	11/13/92	34	4300		Y		ppb	1000	B07M37	SW-846 6010
299-W19-32	Potassium, filtered	3/05/93	34	5100		Y		ppb	300	B08844	SW-846 6010
299-W19-32	Potassium, filtered	3/05/93	34	5100		Y		ppb	1000	B08844	SW-846 6010
299-W19-32	Radium	10/01/91	137	0	0			pCi/L	1	B00LT5	SW-846 9315, Radium
299-W19-32	Radium	4/22/92	137	0	0		U	pCi/L	1	B01QW2	SW-846 9315, Radium
299-W19-32	Radium	7/20/92	137	0	0		U	pCi/L	1	B071R4	SW-846 9315, Radium
299-W19-32	Radium	11/13/92	137	0	0		U	pCi/L	1	B07M33	SW-846 9315, Radium
299-W19-32	Radium	3/05/93	137	-0	0		U	pCi/L	1	B08840	SW-846 9315, Radium
299-W19-32	Radium	7/20/93	137	0	0			pCi/L	1	B08MR8	SW-846 9315, Radium
299-W19-32	Ruthenium-106	10/01/91	140	-38	77		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Ruthenium-106	4/22/92	140	-2	57		U	pCi/L		B01QW2	ITAS Gamma Scan
299-W19-32	Ruthenium-106	7/20/92	140	31	60		U	pCi/L		B071R4	ITAS Gamma Scan
299-W19-32	Ruthenium-106	11/13/92	140	7	52		U	pCi/L		B07M33	ITAS Gamma Scan
299-W19-32	Ruthenium-106	3/05/93	140	47	58		U	pCi/L		B08840	ITAS Gamma Scan
299-W19-32	Ruthenium-106	7/20/93	140	4	47		U	pCi/L		B08MQ9	ITAS Gamma Scan
299-W19-32	Selenium	4/22/92	48	10			U	ppb	10	B01QW2	SW-846 7740
299-W19-32	Selenium	7/20/92	48	10			U	ppb	10	B071R4	SW-846 7740
299-W19-32	Selenium	11/13/92	48	10			U	ppb	10	B07M33	SW-846 7740
299-W19-32	Selenium	3/05/93	48	10			U	ppb	10	B08840	SW-846 7740
299-W19-32	Selenium	7/20/93	48	4	2		L	ppb	10	B08MQ9	SW-846 7740
299-W19-32	Selenium, filtered	4/22/92	48	10		Y	U	ppb	10	B01QW6	SW-846 7740
299-W19-32	Selenium, filtered	7/20/92	48	10		Y	U	ppb	10	B071R8	SW-846 7740
299-W19-32	Selenium, filtered	11/13/92	48	10		Y	U	ppb	10	B07M37	SW-846 7740
299-W19-32	Selenium, filtered	3/05/93	48	10		Y	U	ppb	10	B08844	SW-846 7740
299-W19-32	Selenium, filtered	7/20/93	48	3	2	Y	L	ppb	10	B08MR4	SW-846 7740

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Silver	10/01/91	34	20			U	ppb	20	B00LT5	SW-846 6010
299-W19-32	Silver	4/22/92	34	20			U	ppb	20	B01QW2	SW-846 6010
299-W19-32	Silver	7/20/92	34	20			U	ppb	20	B071R4	SW-846 6010
299-W19-32	Silver	11/13/92	34	20			U	ppb	20	B07M33	SW-846 6010
299-W19-32	Silver	3/05/93	34	20			U	ppb	20	B08840	SW-846 6010
299-W19-32	Silver, filtered	10/01/91	34	20		Y	U	ppb	20	B00LT5F	SW-846 6010
299-W19-32	Silver, filtered	4/22/92	34	20		Y	U	ppb	20	B01QW6	SW-846 6010
299-W19-32	Silver, filtered	7/20/92	34	20		Y	U	ppb	20	B071R8	SW-846 6010
299-W19-32	Silver, filtered	11/13/92	34	20		Y	U	ppb	20	B07M37	SW-846 6010
299-W19-32	Silver, filtered	3/05/93	34	20		Y	U	ppb	20	B08844	SW-846 6010
299-W19-32	Sodium	10/01/91	34	19000				ppb	300	B00LT5	SW-846 6010
299-W19-32	Sodium	4/22/92	34	19000				ppb	300	B01QW2	SW-846 6010
299-W19-32	Sodium	7/20/92	34	19000				ppb	300	B071R4	SW-846 6010
299-W19-32	Sodium	11/13/92	34	19000				ppb	300	B07M33	SW-846 6010
299-W19-32	Sodium	3/05/93	34	19000				ppb	300	B08840	SW-846 6010
299-W19-32	Sodium, filtered	10/01/91	34	18000		Y		ppb	300	B00LT5F	SW-846 6010
299-W19-32	Sodium, filtered	4/22/92	34	17000		Y		ppb	300	B01QW6	SW-846 6010
299-W19-32	Sodium, filtered	7/20/92	34	19000		Y		ppb	300	B071R8	SW-846 6010
299-W19-32	Sodium, filtered	11/13/92	34	18000		Y		ppb	300	B07M37	SW-846 6010
299-W19-32	Sodium, filtered	3/05/93	34	19000		Y		ppb	300	B08844	SW-846 6010
299-W19-32	Specific conductance	10/01/91	94	326				umhos	1	B00LT8	Probe, Conductivity
299-W19-32	Specific conductance	10/01/91	94	327				umhos	1	B00LT6	Probe, Conductivity
299-W19-32	Specific conductance	10/01/91	94	327				umhos	1	B00LT7	Probe, Conductivity
299-W19-32	Specific conductance	10/01/91	94	329				umhos	1	B00LT5	Probe, Conductivity
299-W19-32	Specific conductance	12/05/91	94	325				umhos	1	B00N82	Probe, Conductivity
299-W19-32	Specific conductance	4/22/92	94	317				umhos	1	B01QW5	Probe, Conductivity
299-W19-32	Specific conductance	4/22/92	94	318				umhos	1	B01QW2	Probe, Conductivity
299-W19-32	Specific conductance	4/22/92	94	318				umhos	1	B01QW4	Probe, Conductivity
299-W19-32	Specific conductance	4/22/92	94	319				umhos	1	B01QW3	Probe, Conductivity
299-W19-32	Specific conductance	7/20/92	94	278				umhos	1	B071R5	Probe, Conductivity
299-W19-32	Specific conductance	7/20/92	94	279				umhos	1	B071R6	Probe, Conductivity
299-W19-32	Specific conductance	7/20/92	94	280				umhos	1	B071R4	Probe, Conductivity

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Specific conductance	11/13/92	94	347				umhos	1	B07M36	Probe, Conductivity
299-W19-32	Specific conductance	11/13/92	94	353				umhos	1	B07M35	Probe, Conductivity
299-W19-32	Specific conductance	11/13/92	94	355				umhos	1	B07M33	Probe, Conductivity
299-W19-32	Specific conductance	11/13/92	94	357				umhos	1	B07M34	Probe, Conductivity
299-W19-32	Specific conductance	3/05/93	73	320				umhos		B08840	ASTM D-1125-A
299-W19-32	Specific conductance	3/05/93	94	324				umhos	1	B08840	Probe, Conductivity
299-W19-32	Specific conductance	3/05/93	94	324				umhos	1	B08842	Probe, Conductivity
299-W19-32	Specific conductance	3/05/93	94	324				umhos	1	B08843	Probe, Conductivity
299-W19-32	Specific conductance	3/05/93	94	325				umhos	1	B08841	Probe, Conductivity
299-W19-32	Specific conductance	7/20/93	73	380				umhos		B08MQ9	ASTM D-1125-A
299-W19-32	Specific conductance	7/20/93	94	372				umhos	1	B08MR2	Probe, Conductivity
299-W19-32	Specific conductance	7/20/93	94	373				umhos	1	B08MQ9	Probe, Conductivity
299-W19-32	Specific conductance	7/20/93	94	373				umhos	1	B08MR0	Probe, Conductivity
299-W19-32	Specific conductance	7/20/93	94	373				umhos	1	B08MR1	Probe, Conductivity
299-W19-32	Strontium-90	10/01/91	141	-0	0		U	pCi/L	5	B00LT5	ITAS Sr-90
299-W19-32	Strontium-90	4/22/92	141	-0	0		U	pCi/L	5	B01QW2	ITAS Sr-90
299-W19-32	Strontium-90	7/20/92	141	-0	1		U	pCi/L	5	B071R4	ITAS Sr-90
299-W19-32	Strontium-90	11/13/92	141	-1	0		U	pCi/L	5	B07M33	ITAS Sr-90
299-W19-32	Strontium-90	3/05/93	141	-0	0		U	pCi/L	5	B08840	ITAS Sr-90
299-W19-32	Strontium-90	7/20/93	141	0	0		U	pCi/L	5	B08MQ9	ITAS Sr-90
299-W19-32	Styrene	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Sulfate	4/22/92	124	28000	27000			ppb	500	B01QW2	ASTM D-4327-88
299-W19-32	Sulfate	7/20/92	124	24000	23200			ppb	500	B071R4	ASTM D-4327-88
299-W19-32	Sulfate	11/13/92	124	24000	23200			ppb	500	B07M33	ASTM D-4327-88
299-W19-32	Sulfate	3/05/93	124	24000	23200			ppb	500	B08840	ASTM D-4327-88
299-W19-32	Sulfide	4/22/92	63	10000			U	ppb	10000	B01QW2	SW-846 9030
299-W19-32	Sulfide	7/20/92	63	10000			U	ppb	10000	B071R4	SW-846 9030
299-W19-32	Sulfide	11/13/92	63	10000			U	ppb	10000	B07M33	SW-846 9030
299-W19-32	Sulfide	3/05/93	63	10000			U	ppb	10000	B08840	SW-846 9030
299-W19-32	Sulfide	7/20/93	63	300	97		LB	ppb	10000	B08MQ9	SW-846 9030
299-W19-32	Technetium-99	10/01/91	143	397	45			pCi/L	15	B00LT5	ITAS Tc-99
299-W19-32	Technetium-99	4/22/92	143	521	58			pCi/L	15	B01QW2	ITAS Tc-99

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299-W19-32	Technetium-99	7/20/92	143	463	52			pCi/L	15	B071R4	ITAS Tc-99
299-W19-32	Technetium-99	11/13/92	143	433	49			pCi/L	15	B07M33	ITAS Tc-99
299-W19-32	Technetium-99	3/05/93	143	439	49			pCi/L	15	B08840	ITAS Tc-99
299-W19-32	Technetium-99	7/20/93	143	1970	216			pCi/L	15	B08MQ9	ITAS Tc-99
299-W19-32	Temperature, field	10/01/91	170	17				DegC	0	B00LT5	Probe, temperature
299-W19-32	Temperature, field	12/05/91	170	17				DegC	0	B00N82	Probe, temperature
299-W19-32	Temperature, field	4/22/92	170	16				DegC	0	B01QW5	Probe, temperature
299-W19-32	Temperature, field	7/20/92	170	18				DegC	0	B071R4	Probe, temperature
299-W19-32	Temperature, field	11/13/92	170	17				DegC	0	B07M33	Probe, temperature
299-W19-32	Temperature, field	11/13/92	170	17				DegC	0	B07M34	Probe, temperature
299-W19-32	Temperature, field	11/13/92	170	17				DegC	0	B07M35	Probe, temperature
299-W19-32	Temperature, field	3/05/93	170	17				DegC	0	B07M36	Probe, temperature
299-W19-32	Temperature, field	3/05/93	170	17				DegC	0	B08840	Probe, temperature
299-W19-32	Temperature, field	3/05/93	170	17				DegC	0	B08841	Probe, temperature
299-W19-32	Temperature, field	3/05/93	170	17				DegC	0	B08842	Probe, temperature
299-W19-32	Temperature, field	3/05/93	170	17				DegC	0	B08843	Probe, temperature
299-W19-32	Temperature, field	7/20/93	170	17				DegC	0	B08MQ9	Probe, temperature
299-W19-32	Temperature, field	7/20/93	170	17				DegC	0	B08MR0	Probe, temperature
299-W19-32	Temperature, field	7/20/93	170	17				DegC	0	B08MR1	Probe, temperature
299-W19-32	Temperature, field	7/20/93	170	17				DegC	0	B08MR2	Probe, temperature
299-W19-32	Tetrachloroethene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Tetrachloroethene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Tetrachloroethene	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	Tetrachlorophenols	4/22/92	30	10			U	ppb	10	B01QW2	SW-846 8040
299-W19-32	Tetrachlorophenols	7/20/92	30	10			U	ppb	10	B071R4	SW-846 8040
299-W19-32	Tetrachlorophenols	11/13/92	30	10			U	ppb	10	B07M33	SW-846 8040
299-W19-32	Tetrachlorophenols	3/05/93	30	10			U	ppb	10	B08840	SW-846 8040
299-W19-32	Tetrahydrofuran	7/20/93	16	4			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Thallium	4/22/92	42	5			U	ppb	5	B01QW2	SW-846 7841
299-W19-32	Thallium	7/20/92	42	5			U	ppb	5	B071R4	SW-846 7841
299-W19-32	Thallium	11/13/92	42	5			U	ppb	5	B07M33	SW-846 7841
299-W19-32	Thallium	3/05/93	42	5			U	ppb	5	B08840	SW-846 7841

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Thallium	7/20/93	42	1			U	ppb	5	B08MQ9	SW-846 7841
299-W19-32	Thallium, filtered	4/22/92	42	5		Y	U	ppb	5	B01QW6	SW-846 7841
299-W19-32	Thallium, filtered	7/20/92	42	5		Y	U	ppb	5	B071R8	SW-846 7841
299-W19-32	Thallium, filtered	11/13/92	42	5		Y	U	ppb	5	B07M37	SW-846 7841
299-W19-32	Thallium, filtered	3/05/93	42	5		Y	U	ppb	5	B08844	SW-846 7841
299-W19-32	Thallium, filtered	7/20/93	42	1		Y	U	ppb	5	B08MR4	SW-846 7841
299-W19-32	Tin	10/01/91	34	100			U	ppb	100	B00LT5	SW-846 6010
299-W19-32	Tin	4/22/92	34	100			U	ppb	100	B01QW2	SW-846 6010
299-W19-32	Tin	7/20/92	34	100			U	ppb	100	B071R4	SW-846 6010
299-W19-32	Tin	11/13/92	34	100			U	ppb	100	B07M33	SW-846 6010
299-W19-32	Tin	3/05/93	34	100			U	ppb	100	B08840	SW-846 6010
299-W19-32	Tin, filtered	10/01/91	34	100		Y	U	ppb	100	B00LT5F	SW-846 6010
299-W19-32	Tin, filtered	4/22/92	34	100		Y	U	ppb	100	B01QW6	SW-846 6010
299-W19-32	Tin, filtered	7/20/92	34	100		Y	U	ppb	100	B071R8	SW-846 6010
299-W19-32	Tin, filtered	11/13/92	34	100		Y	U	ppb	100	B07M37	SW-846 6010
299-W19-32	Tin, filtered	3/05/93	34	100		Y	U	ppb	100	B08844	SW-846 6010
299-W19-32	Toluene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Toluene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Toluene	7/20/93	25	0			U	ppb	2	B08MZ2	SW-846 8010/8020
299-W19-32	Total Carbon	4/22/92	127	23000				ppb	2000	B01QW2	ASTM D-2579-A
299-W19-32	Total Carbon	7/20/92	127	28000				ppb	2000	B071R4	ASTM D-2579-A
299-W19-32	Total Carbon	11/13/92	127	26000				ppb	2000	B07M33	ASTM D-2579-A
299-W19-32	Total Carbon	3/05/93	127	24000				ppb	2000	B08840	ASTM D-2579-A
299-W19-32	Total Carbon	7/20/93	127	25000			B	ppb	2000	B08MR8	ASTM D-2579-A
299-W19-32	Total Dissolved Solids	7/20/93	65	240				ppm	10	B08MQ9	Std Meth #209B
299-W19-32	Total Organic Carbon	4/22/92	122	1000			U	ppb	1000	B01QW2	SW-846 9060
299-W19-32	Total Organic Carbon	4/22/92	122	1000			U	ppb	1000	B01QW3	SW-846 9060
299-W19-32	Total Organic Carbon	4/22/92	122	1000			U	ppb	1000	B01QW4	SW-846 9060
299-W19-32	Total Organic Carbon	4/22/92	122	1000			U	ppb	1000	B01QW5	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/92	122	1000			U	ppb	1000	B071R4	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/92	122	1000			U	ppb	1000	B071R5	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/92	122	1000			U	ppb	1000	B071R6	SW-846 9060

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Total Organic Carbon	7/20/92	122	1000			U	ppb	1000	B071R7	SW-846 9060
299-W19-32	Total Organic Carbon	11/13/92	122	1000			U	ppb	1000	B07M33	SW-846 9060
299-W19-32	Total Organic Carbon	11/13/92	122	1000			U	ppb	1000	B07M34	SW-846 9060
299-W19-32	Total Organic Carbon	11/13/92	122	1000			U	ppb	1000	B07M35	SW-846 9060
299-W19-32	Total Organic Carbon	11/13/92	122	1000			U	ppb	1000	B07M36	SW-846 9060
299-W19-32	Total Organic Carbon	3/05/93	122	1000			U	ppb	1000	B08840	SW-846 9060
299-W19-32	Total Organic Carbon	3/05/93	122	1000			U	ppb	1000	B08841	SW-846 9060
299-W19-32	Total Organic Carbon	3/05/93	122	1000			U	ppb	1000	B08842	SW-846 9060
299-W19-32	Total Organic Carbon	3/05/93	122	1000			U	ppb	1000	B08843	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/93	122	500			L	ppb	1000	B08MQ9	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/93	122	500			L	ppb	1000	B08MR1	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/93	122	600			L	ppb	1000	B08MR0	SW-846 9060
299-W19-32	Total Organic Carbon	7/20/93	122	600			L	ppb	1000	B08MR2	SW-846 9060
299-W19-32	Total Organic Halogen	4/22/92	67	10				ppb	10	B01QW2	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	10				ppb	10	B01QW3	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	10				ppb	10	B01QW4	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	10				ppb	10	B01QW5	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	20				ppb	10	B01QW4	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	30				ppb	10	B01QW3	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	30				ppb	10	B01QW5	SW-846 9020
299-W19-32	Total Organic Halogen	4/22/92	67	50				ppb	10	B01QW2	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10				ppb	10	B071R4	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10				ppb	10	B071R6	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10				ppb	10	B071R7	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10			U	ppb	10	B071R5	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10			U	ppb	10	B071R6	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	10			U	ppb	10	B071R7	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	20				ppb	10	B071R4	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/92	67	20				ppb	10	B071R5	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	10				ppb	10	B07M33	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	10				ppb	10	B07M34	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	10				ppb	10	B07M35	SW-846 9020

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Total Organic Halogen	11/13/92	67	10				ppb	10	B07M36	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	10			U	ppb	10	B07M33	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	10			U	ppb	10	B07M34	SW-846 9020
299-W19-32	Total Organic Halogen	11/13/92	67	20				ppb	10	B07M36	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10				ppb	10	B08840	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10				ppb	10	B08841	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10				ppb	10	B08842	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10				ppb	10	B08843	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10			U	ppb	10	B08840	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10			U	ppb	10	B08841	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10			U	ppb	10	B08842	SW-846 9020
299-W19-32	Total Organic Halogen	3/05/93	67	10			U	ppb	10	B08843	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/93	67	10	5			ppb	10	B08MR1	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/93	67	20	11			ppb	10	B08MQ9	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/93	67	20	11			ppb	10	B08MR0	SW-846 9020
299-W19-32	Total Organic Halogen	7/20/93	67	20	11			ppb	10	B08MR2	SW-846 9020
299-W19-32	Toxaphene	4/22/92	17	2			U	ppb	2	B01QW2	SW-846 8080
299-W19-32	Toxaphene	7/20/92	17	2			U	ppb	2	B071R4	SW-846 8080
299-W19-32	Toxaphene	11/13/92	17	2			U	ppb	2	B07M33	SW-846 8080
299-W19-32	Toxaphene	3/05/93	17	2			U	ppb	2	B08840	SW-846 8080
299-W19-32	Toxaphene	7/20/93	17	1			U	ppb	2	B08MQ9	SW-846 8080
299-W19-32	Trichloroethene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Trichloroethene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Trichloroethene	7/20/93	25	0			L	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	Trichloromonofluoromethane	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Trichlorophenols	4/22/92	30	5			U	ppb	5	B01QW2	SW-846 8040
299-W19-32	Trichlorophenols	7/20/92	30	5			U	ppb	5	B071R4	SW-846 8040
299-W19-32	Trichlorophenols	11/13/92	30	5			U	ppb	5	B07M33	SW-846 8040
299-W19-32	Trichlorophenols	3/05/93	30	5			U	ppb	5	B08840	SW-846 8040
299-W19-32	Tritium	10/01/91	142	603	236			pCi/L	500	B00LT5	ITAS H-3
299-W19-32	Tritium	4/22/92	142	1550	435			pCi/L	500	B01QW2	ITAS H-3
299-W19-32	Tritium	7/20/92	142	508	244			pCi/L	500	B071R4	ITAS H-3

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Tritium	11/13/92	142	483	282		U	pCi/L	500	B07M33	ITAS H-3
299-W19-32	Tritium	3/05/93	142	528	248			pCi/L	500	B08840	ITAS H-3
299-W19-32	Tritium	7/20/93	142	582	252			pCi/L	500	B08MQ9	ITAS H-3
299-W19-32	Turbidity	4/22/92	126	1				NTU	0	B01QW2	Std Meth #214A
299-W19-32	Turbidity	7/20/92	126	1				NTU	0	B071R4	Std Meth #214A
299-W19-32	Turbidity	11/13/92	126	2				NTU	0	B07M33	Std Meth #214A
299-W19-32	Turbidity	3/05/93	126	1				NTU	0	B08840	Std Meth #214A
299-W19-32	Turbidity	7/20/93	126	43				NTU	0	B08MR8	Std Meth #214A
299-W19-32	Uranium	10/01/91	145	3	1			ppb	1	B00LT5	ITAS Gross U
299-W19-32	Uranium	4/22/92	145	3	1			ppb	1	B01QW2	ITAS Gross U
299-W19-32	Uranium	7/20/92	145	3	1			ppb	1	B071R4	ITAS Gross U
299-W19-32	Uranium	11/13/92	145	3	1			ppb	1	B07M33	ITAS Gross U
299-W19-32	Uranium	7/20/93	145	6	2			ppb	1	B08MR8	ITAS Gross U
299-W19-32	Uranium-234	7/20/93	148	2	0			pCi/L	0	B08MQ9	ITAS Isotopic U
299-W19-32	Uranium-235	7/20/93	148	0	0		U	pCi/L	0	B08MQ9	ITAS Isotopic U
299-W19-32	Uranium-238	3/05/93	145	4	1			ppb	1	B08840	ITAS Gross U
299-W19-32	Uranium-238	7/20/93	148	2	0			pCi/L	0	B08MQ9	ITAS Isotopic U
299-W19-32	Vanadium	10/01/91	34	30			U	ppb	30	B00LT5	SW-846 6010
299-W19-32	Vanadium	4/22/92	34	30			U	ppb	30	B01QW2	SW-846 6010
299-W19-32	Vanadium	7/20/92	34	30			U	ppb	30	B071R4	SW-846 6010
299-W19-32	Vanadium	11/13/92	34	30			U	ppb	30	B07M33	SW-846 6010
299-W19-32	Vanadium	3/05/93	34	30			U	ppb	30	B08840	SW-846 6010
299-W19-32	Vanadium, filtered	10/01/91	34	30		Y	U	ppb	30	B00LT5F	SW-846 6010
299-W19-32	Vanadium, filtered	4/22/92	34	30		Y	U	ppb	30	B01QW6	SW-846 6010
299-W19-32	Vanadium, filtered	7/20/92	34	30		Y	U	ppb	30	B071R8	SW-846 6010
299-W19-32	Vanadium, filtered	11/13/92	34	30		Y	U	ppb	30	B07M37	SW-846 6010
299-W19-32	Vanadium, filtered	3/05/93	34	30		Y	U	ppb	30	B08844	SW-846 6010
299-W19-32	Vinyl acetate	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	Vinyl chloride	7/20/93	16	1			U	ppb	10	B08MQ9	SW-846 8240
299-W19-32	Vinyl chloride	7/20/93	25	0			U	ppb	2	B08MZ2	SW-846 8010/8020
299-W19-32	Xylenes (total)	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	Xylenes (total)	7/20/93	16	2			U	ppb	5	B08MQ9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	Xylenes (total)	7/20/93	25	0			U	ppb	5	B08MZ2	SW-846 8010/8020
299-W19-32	Zinc	10/01/91	34	55	7			ppb	10	B00LT5	SW-846 6010
299-W19-32	Zinc	4/22/92	34	76	10			ppb	10	B01QW2	SW-846 6010
299-W19-32	Zinc	7/20/92	34	10			U	ppb	10	B071R4	SW-846 6010
299-W19-32	Zinc	11/13/92	34	10			U	ppb	10	B07M33	SW-846 6010
299-W19-32	Zinc	3/05/93	34	10			U	ppb	10	B08840	SW-846 6010
299-W19-32	Zinc, filtered	10/01/91	34	10		Y	U	ppb	10	B00LT5F	SW-846 6010
299-W19-32	Zinc, filtered	4/22/92	34	11	1	Y		ppb	10	B01QW6	SW-846 6010
299-W19-32	Zinc, filtered	7/20/92	34	10		Y	U	ppb	10	B071R8	SW-846 6010
299-W19-32	Zinc, filtered	11/13/92	34	10		Y	U	ppb	10	B07M37	SW-846 6010
299-W19-32	Zinc, filtered	3/05/93	34	10		Y	U	ppb	10	B08844	SW-846 6010
299-W19-32	Zinc-65	10/01/91	140	-1	19		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	Zirconium/Niobium-95	10/01/91	140	0	28		U	pCi/L		B00LT5	ITAS Gamma Scan
299-W19-32	allylchloride	7/20/93	16	1			U	ppb	100	B08MQ9	SW-846 8240
299-W19-32	cis-1,2-Dichloroethylene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	cis-1,2-Dichloroethylene	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	cis-1,3-Dichloropropene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	gamma-BHC (Lindane)	4/22/92	17	0			U	ppb	0	B01QW2	SW-846 8080
299-W19-32	gamma-BHC (Lindane)	7/20/92	17	0			U	ppb	0	B071R4	SW-846 8080
299-W19-32	gamma-BHC (Lindane)	11/13/92	17	0			U	ppb	0	B07M33	SW-846 8080
299-W19-32	gamma-BHC (Lindane)	3/05/93	17	0			U	ppb	0	B08840	SW-846 8080
299-W19-32	gamma-BHC (Lindane)	7/20/93	17	0			U	ppb	0	B08MQ9	SW-846 8080
299-W19-32	pH	10/01/91	93	7					0	B00LT6	Probe, pH
299-W19-32	pH	10/01/91	93	7					0	B00LT5	Probe, pH
299-W19-32	pH	10/01/91	93	7					0	B00LT7	Probe, pH
299-W19-32	pH	10/01/91	93	7					0	B00LT8	Probe, pH
299-W19-32	pH	12/05/91	93	8					0	B00N82	Probe, pH
299-W19-32	pH	4/22/92	93	8					0	B01QW2	Probe, pH
299-W19-32	pH	4/22/92	93	8					0	B01QW3	Probe, pH
299-W19-32	pH	4/22/92	93	8					0	B01QW4	Probe, pH
299-W19-32	pH	4/22/92	93	8					0	B01QW5	Probe, pH
299-W19-32	pH	7/20/92	93	8					0	B071R4	Probe, pH

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W19-32	pH	7/20/92	93	8					0	B071R5	Probe, pH
299-W19-32	pH	7/20/92	93	8					0	B071R6	Probe, pH
299-W19-32	pH	7/20/92	93	8					0	B071R7	Probe, pH
299-W19-32	pH	11/13/92	93	8					0	B07M33	Probe, pH
299-W19-32	pH	11/13/92	93	8					0	B07M35	Probe, pH
299-W19-32	pH	11/13/92	93	8					0	B07M36	Probe, pH
299-W19-32	pH	11/13/92	93	8					0	B07M34	Probe, pH
299-W19-32	pH	3/05/93	125	8				pH		B08840	ASTM D-1293
299-W19-32	pH	3/05/93	93	8					0	B08840	Probe, pH
299-W19-32	pH	3/05/93	93	8					0	B08841	Probe, pH
299-W19-32	pH	3/05/93	93	8					0	B08842	Probe, pH
299-W19-32	pH	3/05/93	93	8					0	B08843	Probe, pH
299-W19-32	pH	7/20/93	125	8				pH		B08MQ9	ASTM D-1293
299-W19-32	pH	7/20/93	93	8					0	B08MR0	Probe, pH
299-W19-32	pH	7/20/93	93	8					0	B08MR1	Probe, pH
299-W19-32	pH	7/20/93	93	8					0	B08MR2	Probe, pH
299-W19-32	pH	7/20/93	93	8					0	B08MQ9	Probe, pH
299-W19-32	trans-1,2-Dichloroethylene	4/22/92	83				U	ppb		B06574	PNL VOAs
299-W19-32	trans-1,2-Dichloroethylene	7/20/93	25	0			U	ppb	1	B08MZ2	SW-846 8010/8020
299-W19-32	trans-1,3-Dichloropropene	7/20/93	16	0			U	ppb	5	B08MQ9	SW-846 8240
299-W19-32	trans-1,4-dichloro-2-butene	7/20/93	16	1			U	ppb	5	B08MQ9	SW-846 8240

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-16	2,4,5-T	4/29/93	49	0			U	ppb	2	B08CG9	SW-846 8150
299-W23-16	2,4,5-T	6/25/93	49	0			U	ppb	2	B08NJ0	SW-846 8150
299-W23-16	2,4,5-TP	4/29/93	49	0			U	ppb	2	B08CG9	SW-846 8150
299-W23-16	2,4,5-TP	6/25/93	49	0			U	ppb	2	B08NJ0	SW-846 8150
299-W23-16	2,4-D	4/29/93	49	0			U	ppb	10	B08CG9	SW-846 8150
299-W23-16	2,4-D	6/25/93	49	0			U	ppb	10	B08NJ0	SW-846 8150
299-W23-16	2-sec-Butyl-4,6-dinitrophenol(DNBP)	4/29/93	49	0			U	ppb	1	B08CG9	SW-846 8150
299-W23-16	2-sec-Butyl-4,6-dinitrophenol(DNBP)	6/25/93	49	0			U	ppb	1	B08NJ0	SW-846 8150
299-W23-16	4,4'-DDD	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	4,4'-DDE	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	4,4'-DDT	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Aldrin	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Alkalinity	6/25/93	52	80				ppm	50	B08NJ0	ASTM D-1067-A
299-W23-16	Alpha-BHC	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Aluminum	6/25/93	34	33		Y	U	ppb	200	B08NJ1	SW-846 6010
299-W23-16	Aluminum	6/25/93	34	250				ppb	200	B08NJ0	SW-846 6010
299-W23-16	Americium-241	6/25/93	147	-0	0		U	pCi/L	0	B08NJ0	ITAS Am-241
299-W23-16	Ammonium ion	6/25/93	54	39			U	ppb	100	B08NJ0	ASTM D-1426-D
299-W23-16	Antimony	6/25/93	34	69			U	ppb	200	B08NJ0	SW-846 6010
299-W23-16	Antimony, filtered	6/25/93	34	69		Y	U	ppb	200	B08NJ1	SW-846 6010
299-W23-16	Aroclor-1016	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1221	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1232	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1242	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1248	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1254	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Aroclor-1260	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Arsenic	6/25/93	43	6	5			ppb	5	B08NJ0	SW-846 7060
299-W23-16	Arsenic, filtered	6/25/93	43	6	4	Y		ppb	5	B08NJ1	SW-846 7060
299-W23-16	Barium	6/25/93	34	37	0			ppb	20	B08NJ0	SW-846 6010
299-W23-16	Barium, filtered	6/25/93	34	33	0	Y		ppb	20	B08NJ1	SW-846 6010

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-16	Beryllium	6/25/93	34	1			U	ppb	3	B08NJ0	SW-846 6010
299-W23-16	Beryllium, filtered	6/25/93	34	1		Y	U	ppb	3	B08NJ1	SW-846 6010
299-W23-16	Beta-BHC	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Bromide	4/29/93	124	53			U	ppb	500	B08CG9	ASTM D-4327-88
299-W23-16	Bromide	6/25/93	124	53			U	ppb	500	B08NJ0	ASTM D-4327-88
299-W23-16	Cadmium	6/25/93	34	5			U	ppb	10	B08NJ0	SW-846 6010
299-W23-16	Cadmium, filtered	6/25/93	34	5		Y	U	ppb	10	B08NJ1	SW-846 6010
299-W23-16	Calcium	6/25/93	34	14000	4240			ppb	100	B08NJ0	SW-846 6010
299-W23-16	Calcium, filtered	6/25/93	34	14000	4240	Y		ppb	100	B08NJ1	SW-846 6010
299-W23-16	Chlordane	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Chloride	4/29/93	124	1400	149			ppb	200	B08CG9	ASTM D-4327-88
299-W23-16	Chloride	6/25/93	124	1000	166			ppb	200	B08NJ0	ASTM D-4327-88
299-W23-16	Chromium	6/25/93	34	24	6			ppb	20	B08NJ0	SW-846 6010
299-W23-16	Chromium, filtered	6/25/93	34	5		Y	U	ppb	20	B08NJ1	SW-846 6010
299-W23-16	Cobalt	6/25/93	34	4			U	ppb	20	B08NJ0	SW-846 6010
299-W23-16	Cobalt, filtered	6/25/93	34	4		Y	U	ppb	20	B08NJ1	SW-846 6010
299-W23-16	Copper	6/25/93	34	3			U	ppb	20	B08NJ0	SW-846 6010
299-W23-16	Copper, filtered	6/25/93	34	3		Y	U	ppb	20	B08NJ1	SW-846 6010
299-W23-16	Cyanide	4/29/93	56	200	63		L	ppb	20	B08CG9	SW-846 9010
299-W23-16	Cyanide	6/25/93	56	1			U	ppb	20	B08NJ0	SW-846 9010
299-W23-16	Delta-BHC	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Dieldrin	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Endosulfan I	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Endosulfan II	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Endosulfan sulfate	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Endrin	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Endrin Aldehyde	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Fluoride	4/29/93	124	400	70			ppb	100	B08CG9	ASTM D-4327-88
299-W23-16	Fluoride	6/25/93	124	500	33			ppb	100	B08NJ0	ASTM D-4327-88
299-W23-16	Gross alpha	4/29/93	135	6	3			pCi/L	4	B08CG9	SW-846 9310, Alpha
299-W23-16	Gross alpha	6/25/93	135	2	1			pCi/L	4	B08NJ0	SW-846 9310, Alpha
299-W23-16	Gross beta	4/29/93	136	17	3			pCi/L	8	B08CG9	SW-846 9310, Beta

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-16	Gross beta	6/25/93	136	10	3			pCi/L	8	B08NJ0	SW-846 9310, Beta
299-W23-16	Heptachlor	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	Heptachlor epoxide	6/25/93	17	0			U	ppb	1	B08NJ0	SW-846 8080
299-W23-16	Iron	6/25/93	34	490	219			ppb	20	B08NJ0	SW-846 6010
299-W23-16	Iron, filtered	6/25/93	34	54	24	Y		ppb	20	B08NJ1	SW-846 6010
299-W23-16	Lead	6/25/93	40	1	0		L	ppb	5	B08NJ0	SW-846 7421
299-W23-16	Lead, filtered	6/25/93	40	1	0	Y	L	ppb	5	B08NJ1	SW-846 7421
299-W23-16	Magnesium	6/25/93	34	4500	2360			ppb	100	B08NJ0	SW-846 6010
299-W23-16	Magnesium, filtered	6/25/93	34	4400	2310	Y		ppb	100	B08NJ1	SW-846 6010
299-W23-16	Manganese	6/25/93	34	63	18			ppb	10	B08NJ0	SW-846 6010
299-W23-16	Manganese, filtered	6/25/93	34	51	14	Y		ppb	10	B08NJ1	SW-846 6010
299-W23-16	Mercury	4/29/93	41	0			U	ppb	0	B08CG9	SW-846 7470
299-W23-16	Mercury	6/25/93	41	0			U	ppb	0	B08NJ0	SW-846 7470
299-W23-16	Mercury, filtered	6/25/93	41	0		Y	U	ppb	0	B08NJ1	SW-846 7470
299-W23-16	Methoxychlor	6/25/93	17	0			U	ppb	2	B08NJ0	SW-846 8080
299-W23-16	Nickel	6/25/93	34	18			U	ppb	30	B08NJ0	SW-846 6010
299-W23-16	Nickel, filtered	6/25/93	34	18		Y	U	ppb	30	B08NJ1	SW-846 6010
299-W23-16	Nitrate	4/29/93	124	44			U	ppb	200	B08CG9	ASTM D-4327-88
299-W23-16	Nitrate	6/25/93	124	400	35			ppb	200	B08NJ0	ASTM D-4327-88
299-W23-16	Nitrite	4/29/93	124	38			U	ppb	200	B08CG9	ASTM D-4327-88
299-W23-16	Nitrite	6/25/93	124	38			U	ppb	200	B08NJ0	ASTM D-4327-88
299-W23-16	Phosphate	4/29/93	124	500	39		L	ppb	400	B08CG9	ASTM D-4327-88
299-W23-16	Phosphate	4/29/93	124	500	39		L	ppb	500	B08CG9	ASTM D-4327-88
299-W23-16	Phosphate	6/25/93	124	147			U	ppb	400	B08NJ0	ASTM D-4327-88
299-W23-16	Phosphate	6/25/93	124	147			U	ppb	500	B08NJ0	ASTM D-4327-88
299-W23-16	Plutonium-238	6/25/93	146	-0	0		U	pCi/L	0	B08NJ0	ITAS Isotopic Pu
299-W23-16	Plutonium-239/40	6/25/93	146	0	0		U	pCi/L	0	B08NJ0	ITAS Isotopic Pu
299-W23-16	Potassium	6/25/93	34	3600	3450			ppb	300	B08NJ0	SW-846 6010
299-W23-16	Potassium	6/25/93	34	3600	3450			ppb	1000	B08NJ0	SW-846 6010
299-W23-16	Potassium, filtered	6/25/93	34	3600	3450	Y		ppb	300	B08NJ1	SW-846 6010
299-W23-16	Potassium, filtered	6/25/93	34	3600	3450	Y		ppb	1000	B08NJ1	SW-846 6010
299-W23-16	Radium	4/29/93	137	1	0			pCi/L	1	B08CG9	SW-846 9315, Radium

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-16	Selenium	6/25/93	48	1			U	ppb	10	B08NJ0	SW-846 7740
299-W23-16	Selenium, filtered	6/25/93	48	1		Y	U	ppb	10	B08NJ1	SW-846 7740
299-W23-16	Silver	6/25/93	34	3			U	ppb	20	B08NJ0	SW-846 6010
299-W23-16	Silver, filtered	6/25/93	34	3		Y	U	ppb	20	B08NJ1	SW-846 6010
299-W23-16	Sodium	6/25/93	34	19000	5930			ppb	300	B08NJ0	SW-846 6010
299-W23-16	Sodium, filtered	6/25/93	34	19000	5930	Y		ppb	300	B08NJ1	SW-846 6010
299-W23-16	Strontium-90	6/25/93	141	-0	0		U	pCi/L	5	B08NJ0	ITAS Sr-90
299-W23-16	Sulfate	4/29/93	124	5000	544			ppb	500	B08CG9	ASTM D-4327-88
299-W23-16	Sulfate	6/25/93	124	9300	452			ppb	500	B08NJ0	ASTM D-4327-88
299-W23-16	Sulfide	6/25/93	63	300	97		L	ppb	10000	B08NJ0	SW-846 9030
299-W23-16	Thallium	6/25/93	42	1			U	ppb	5	B08NJ0	SW-846 7841
299-W23-16	Thallium, filtered	6/25/93	42	1		Y	U	ppb	5	B08NJ1	SW-846 7841
299-W23-16	Tin	6/25/93	34	51			U	ppb	100	B08NJ0	SW-846 6010
299-W23-16	Tin, filtered	6/25/93	34	51		Y	U	ppb	100	B08NJ1	SW-846 6010
299-W23-16	Total Dissolved Solids	6/25/93	65	140				ppm	10	B08NJ0	Std Meth #2098
299-W23-16	Total Organic Carbon	6/25/93	122	400			LB	ppb	1000	B08NJ0	SW-846 9060
299-W23-16	Total Organic Halogen	6/25/93	67	8			U	ppb	10	B08NJ0	SW-846 9020
299-W23-16	Toxaphene	6/25/93	17	1			U	ppb	2	B08NJ0	SW-846 8080
299-W23-16	Tritium	6/25/93	142	190	240		U	pCi/L	500	B08NJ0	ITAS H-3
299-W23-16	Uranium-234	6/25/93	148	6	1			pCi/L	0	B08NJ0	ITAS Isotopic U
299-W23-16	Uranium-235	6/25/93	148	0	0			pCi/L	0	B08NJ0	ITAS Isotopic U
299-W23-16	Uranium-238	6/25/93	148	5	1			pCi/L	0	B08NJ0	ITAS Isotopic U
299-W23-16	Vanadium	6/25/93	34	4			U	ppb	30	B08NJ0	SW-846 6010
299-W23-16	Vanadium, filtered	6/25/93	34	4		Y	U	ppb	30	B08NJ1	SW-846 6010
299-W23-16	Zinc	6/25/93	34	430	134			ppb	10	B08NJ0	SW-846 6010
299-W23-16	Zinc, filtered	6/25/93	34	3		Y	U	ppb	10	B08NJ1	SW-846 6010
299-W23-16	gamma-BHC (Lindane)	6/25/93	17	0			U	ppb	0	B08NJ0	SW-846 8080
299-W23-16	pH	6/25/93	125	8				pH		B08NJ0	ASTM D-1293

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Downgradient Groundwater Data for Well 299-W23-17 Page 1

Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-17	2,4,5-T	6/24/93	49	0			U	ppb	2	B08NJ2	SW-846 8150
299-W23-17	2,4,5-TP	6/24/93	49	0			U	ppb	2	B08NJ2	SW-846 8150
299-W23-17	2,4-D	6/24/93	49	0			U	ppb	10	B08NJ2	SW-846 8150
299-W23-17	2-sec-Butyl-4,6-dinitrophenol(DNBP)	6/24/93	49	0			U	ppb	1	B08NJ2	SW-846 8150
299-W23-17	4,4'-DDD	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	4,4'-DDE	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	4,4'-DDT	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	Aldrin	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	Alkalinity	6/24/93	52	80				ppm	50	B08NJ2	ASTM D-1067-A
299-W23-17	Alpha-BHC	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	Aluminum	6/24/93	34	33		Y	U	ppb	200	B08NJ3	SW-846 6010
299-W23-17	Aluminum	6/24/93	34	210				ppb	200	B08NJ2	SW-846 6010
299-W23-17	Americium-241	6/24/93	147	-0	0		U	pCi/L	0	B08NJ2	ITAS Am-241
299-W23-17	Ammonium ion	6/24/93	54	39			U	ppb	100	B08NJ2	ASTM D-1426-D
299-W23-17	Antimony	6/24/93	34	69			U	ppb	200	B08NJ2	SW-846 6010
299-W23-17	Antimony, filtered	6/24/93	34	69		Y	U	ppb	200	B08NJ3	SW-846 6010
299-W23-17	Antimony-125	6/24/93	140	6	14		U	pCi/L		B08NJ2	ITAS Gamma Scan
299-W23-17	Aroclor-1016	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1221	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1232	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1242	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1248	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1254	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Aroclor-1260	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
299-W23-17	Arsenic	6/24/93	43	10	8			ppb	5	B08NJ2	SW-846 7060
299-W23-17	Arsenic, filtered	6/24/93	43	10	8	Y		ppb	5	B08NJ3	SW-846 7060
299-W23-17	Barium	6/24/93	34	28	0			ppb	20	B08NJ2	SW-846 6010
299-W23-17	Barium, filtered	6/24/93	34	25	0	Y		ppb	20	B08NJ3	SW-846 6010
299-W23-17	Beryllium	6/24/93	34	1			U	ppb	3	B08NJ2	SW-846 6010
299-W23-17	Beryllium, filtered	6/24/93	34	1		Y	U	ppb	3	B08NJ3	SW-846 6010
299-W23-17	Beta-BHC	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
F-190	299-W23-17 Bromide	6/24/93	124	500			U	ppb	500	B08NJ2	ASTM D-4327-88
	299-W23-17 Cadmium	6/24/93	34	5			U	ppb	10	B08NJ2	SW-846 6010
	299-W23-17 Cadmium, filtered	6/24/93	34	5		Y	U	ppb	10	B08NJ3	SW-846 6010
	299-W23-17 Calcium	6/24/93	34	18000	5450			ppb	100	B08NJ2	SW-846 6010
	299-W23-17 Calcium, filtered	6/24/93	34	17000	5150	Y		ppb	100	B08NJ3	SW-846 6010
	299-W23-17 Cesium-137	6/24/93	140	-3	4		U	pCi/L	20	B08NJ2	ITAS Gamma Scan
	299-W23-17 Chlordane	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Chloride	6/24/93	124	900	149			ppb	200	B08NJ2	ASTM D-4327-88
	299-W23-17 Chromium	6/24/93	34	29	8			ppb	20	B08NJ2	SW-846 6010
	299-W23-17 Chromium, filtered	6/24/93	34	5		Y	U	ppb	20	B08NJ3	SW-846 6010
	299-W23-17 Cobalt	6/24/93	34	4			U	ppb	20	B08NJ2	SW-846 6010
	299-W23-17 Cobalt, filtered	6/24/93	34	4		Y	U	ppb	20	B08NJ3	SW-846 6010
	299-W23-17 Cobalt-60	6/24/93	140	3	7		U	pCi/L		B08NJ2	ITAS Gamma Scan
	299-W23-17 Copper	6/24/93	34	3			U	ppb	20	B08NJ2	SW-846 6010
	299-W23-17 Copper, filtered	6/24/93	34	3		Y	U	ppb	20	B08NJ3	SW-846 6010
	299-W23-17 Cyanide	6/24/93	56	1			U	ppb	20	B08NJ2	SW-846 9010
	299-W23-17 Delta-BHC	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Dieldrin	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Endosulfan I	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Endosulfan II	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Endosulfan sulfate	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
	299-W23-17 Endrin	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Endrin Aldehyde	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Fluoride	6/24/93	124	300	20			ppb	100	B08NJ2	ASTM D-4327-88
	299-W23-17 Gross alpha	6/24/93	135	12	4			pCi/L	4	B08NJ2	SW-846 9310, Alpha
	299-W23-17 Gross beta	6/24/93	136	13	3			pCi/L	8	B08NJ2	SW-846 9310, Beta
	299-W23-17 Heptachlor,	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
	299-W23-17 Heptachlor epoxide	6/24/93	17	0			U	ppb	1	B08NJ2	SW-846 8080
	299-W23-17 Iron	6/24/93	34	420	188			ppb	20	B08NJ2	SW-846 6010
	299-W23-17 Iron, filtered	6/24/93	34	38	17	Y		ppb	20	B08NJ3	SW-846 6010
	299-W23-17 Lead	6/24/93	40	1			U	ppb	5	B08NJ2	SW-846 7421
	299-W23-17 Lead, filtered	6/24/93	40	1		Y	U	ppb	5	B08NJ3	SW-846 7421

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-17	Magnesium	6/24/93	34	5900	3100			ppb	100	B08NJ2	SW-846 6010
299-W23-17	Magnesium, filtered	6/24/93	34	5800	3040	Y		ppb	100	B08NJ3	SW-846 6010
299-W23-17	Manganese	6/24/93	34	25	7			ppb	10	B08NJ2	SW-846 6010
299-W23-17	Manganese, filtered	6/24/93	34	13	4	Y		ppb	10	B08NJ3	SW-846 6010
299-W23-17	Mercury	6/24/93	41	0			U	ppb	0	B08NJ2	SW-846 7470
299-W23-17	Mercury, filtered	6/24/93	41	0		Y	U	ppb	0	B08NJ3	SW-846 7470
299-W23-17	Methoxychlor	6/24/93	17	0			U	ppb	2	B08NJ2	SW-846 8080
299-W23-17	Nickel	6/24/93	34	18			U	ppb	30	B08NJ2	SW-846 6010
299-W23-17	Nickel, filtered	6/24/93	34	18		Y	U	ppb	30	B08NJ3	SW-846 6010
299-W23-17	Nitrate	6/24/93	124	400	35			ppb	200	B08NJ2	ASTM D-4327-88
299-W23-17	Nitrite	6/24/93	124	200			U	ppb	200	B08NJ2	ASTM D-4327-88
299-W23-17	Phosphate	6/24/93	124	400			U	ppb	400	B08NJ2	ASTM D-4327-88
299-W23-17	Phosphate	6/24/93	124	400			U	ppb	500	B08NJ2	ASTM D-4327-88
299-W23-17	Plutonium-238	6/24/93	146	-0	0		U	pCi/L	0	B08NJ2	ITAS Isotopic Pu
299-W23-17	Plutonium-239/40	6/24/93	146	0	0		U	pCi/L	0	B08NJ2	ITAS Isotopic Pu
299-W23-17	Potassium	6/24/93	34	4800	4590			ppb	300	B08NJ2	SW-846 6010
299-W23-17	Potassium	6/24/93	34	4800	4590			ppb	1000	B08NJ2	SW-846 6010
299-W23-17	Potassium, filtered	6/24/93	34	4300	4120	Y		ppb	300	B08NJ3	SW-846 6010
299-W23-17	Potassium, filtered	6/24/93	34	4300	4120	Y		ppb	1000	B08NJ3	SW-846 6010
299-W23-17	Ruthenium-106	6/24/93	140	9	53		U	pCi/L		B08NJ2	ITAS Gamma Scan
299-W23-17	Selenium	6/24/93	48	1			U	ppb	10	B08NJ2	SW-846 7740
299-W23-17	Selenium, filtered	6/24/93	48	1		Y	U	ppb	10	B08NJ3	SW-846 7740
299-W23-17	Silver	6/24/93	34	3			U	ppb	20	B08NJ2	SW-846 6010
299-W23-17	Silver, filtered	6/24/93	34	3		Y	U	ppb	20	B08NJ3	SW-846 6010
299-W23-17	Sodium	6/24/93	34	12000	3740			ppb	300	B08NJ2	SW-846 6010
299-W23-17	Sodium, filtered	6/24/93	34	10000	3120	Y		ppb	300	B08NJ3	SW-846 6010
299-W23-17	Specific conductance	6/24/93	73	190				umhos		B08NJ2	ASTM D-1125-A
299-W23-17	Strontium-90	6/24/93	141	-0	0		U	pCi/L	5	B08NJ2	ITAS Sr-90
299-W23-17	Sulfate	6/24/93	124	9300	452			ppb	500	B08NJ2	ASTM D-4327-88
299-W23-17	Sulfide	6/24/93	63	300			U	ppb	10000	B08NJ2	SW-846 9030
299-W23-17	Technetium-99	6/24/93	143	1	2		U	pCi/L	15	B08NJ2	ITAS Tc-99
299-W23-17	Thallium	6/24/93	42	1			U	ppb	5	B08NJ2	SW-346 7841

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Downgradient Groundwater Data for Well 299-W23-17 Page 4

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Well	Constituent Name	Collect Date	Method	Result	Error	Filtered	Qualifier	Units	CRQL	Sample No	Method Name
299-W23-17	Thallium, filtered	6/24/93	42	1		Y	U	ppb	5	B08NJ3	SW-846 7841
299-W23-17	Tin	6/24/93	34	51			U	ppb	100	B08NJ2	SW-846 6010
299-W23-17	Tin, filtered	6/24/93	34	51		Y	U	ppb	100	B08NJ3	SW-846 6010
299-W23-17	Total Dissolved Solids	6/24/93	65	120				ppm	10	B08NJ2	Std Meth #209B
299-W23-17	Total Organic Carbon	6/24/93	122	300			LB	ppb	1000	B08NJ2	SW-846 9060
299-W23-17	Total Organic Halogen	6/24/93	67	8			U	ppb	10	B08NJ2	SW-846 9020
299-W23-17	Toxaphene	6/24/93	17	1			U	ppb	2	B08NJ2	SW-846 8080
299-W23-17	Tritium	6/24/93	142	28	231		U	pCi/L	500	B08NJ2	ITAS H-3
299-W23-17	Uranium-234	6/24/93	148	8	1			pCi/L	0	B08NJ2	ITAS Isotopic U
299-W23-17	Uranium-235	6/24/93	148	0	0			pCi/L	0	B08NJ2	ITAS Isotopic U
299-W23-17	Uranium-238	6/24/93	148	8	1			pCi/L	0	B08NJ2	ITAS Isotopic U
299-W23-17	Vanadium	6/24/93	34	4			U	ppb	30	B08NJ2	SW-846 6010
299-W23-17	Vanadium, filtered	6/24/93	34	4		Y	U	ppb	30	B08NJ3	SW-846 6010
299-W23-17	Zinc	6/24/93	34	3			U	ppb	10	B08NJ2	SW-846 6010
299-W23-17	Zinc, filtered	6/24/93	34	3		Y	U	ppb	10	B08NJ3	SW-846 6010
299-W23-17	gamma-BHC (Lindane)	6/24/93	17	0			U	ppb	0	B08NJ2	SW-846 8080
299-W23-17	pH	6/24/93	125	8				pH		B08NJ2	ASTM D-1293

MHC-EP-0698

APPENDIX G
AQUIFER TESTING

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**SLUG TEST ANALYSIS RESULTS
FOR THREE WELLS NEAR THE
216-U-14 DITCH**

Instantaneous slug injection and withdrawal tests were conducted at wells 299-W23-16, 299-W23-17, and 299-W18-33 on June 15, 11, and 28, 1993, respectively. The following sections describe the analysis and test results for each of these wells.

Analysis Results

Slug withdrawal data were analyzed by the Bouwer and Rice (1976, 1989) method which is applicable to unconfined aquifer conditions. The hydraulic conductivities were 2, 5, and 4 ft/d for wells 299-W23-16, 299-W23-17, and 299-W18-33, respectively. Figures 1, 2, and 3 show the analysis plots for each of the wells. The computer software package ISOAQX (a trademark of HydraLogic, Missoula, MT) was used to evaluate the slug test data.

Each of the data plots shows the double curve effect usually caused by the filter pack material around the well screen (Bouwer 1989). The first straight-line portion with the higher slope is probably due to the highly permeable filter pack material. The second straight line is more representative of flow from the aquifer. For this reason, the hydraulic conductivity of the aquifer was calculated using the second straight-line section.

Test Limitations

Slug tests stress a relatively small portion of the aquifer immediately around the borehole. As a consequence, the test results may be influenced by local formational heterogeneities, borehole skin effects created by drilling operations, incomplete well development, and filter pack effects. Any use of the test results should include a note of these limitations.

The slug injection portion of the data was not analyzed because of the significant amount disruption to the water surface when the slugging rod is injected. This introduces an error factor in the test results, and generally provides a less unique analysis solution.

Test Equipment and Setup

A slug rod volume of 0.194 ft³ was used to perform the slug injection and withdrawal tests. Water level changes during injection and withdrawal of the slug rod were measured with an in situ pressure transducer and the data were recorded on a data logger.

Analysis Input Parameters

The input parameters for the analyses are listed in Table 1. More detailed computations were needed to estimate the effective radius of the well casing. When the rise of the water level during a slug test is in the screened section of a filter packed well, Bouwer (1989) indicates that a correction to the casing radius term is necessary. A correction to the casing radius can be calculated from the equation:

$$r_{ce} = [(1-n)r_c^2 + nr_w^2]^{1/2}$$

Where, r_{ce} = effective casing radius

n = porosity

r_c = inside radius of the casing (well screen)

r_w = radius of the borehole.

This correction takes into account the thickness and porosity of the filter pack. As shown in Table 1, the effective casing radius was calculated to be 0.27 ft for a standard 20-40 mesh filter pack material with a porosity of 40%, a nominal 8-inch diameter borehole, and a well screen with an insider diameter of 4 inches.

Table 1. Input Parameters Used for the Bouwer and Rice (1976) Slug Withdrawal Analysis for three Wells Near the 216-U-14 Ditch.

Well Name	Aquifer Thickness (ft)	Effective Casing Radius (ft)	Well Radius (ft)	Screened Interval (ft)
216-W23-16	215	0.27	0.33	0 - 27.2
216-W23-17	215	0.27	0.33	0 - 24.5
216-W18-33	215	0.27	0.33	0 - 27.9

Figure 1. Bouwer and Rice Analysis Plot for Well 216-W23-16.

Figure 2. Bouwer and Rice Analysis Plot for Well 216-W23-17.

Figure 3. Bouwer and Rice Analysis Plot for Well 216-W18-33.

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APPENDIX H
GEOPHYSICAL LOGGING

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**Westinghouse
Hanford Company****Internal
Memo**

From: Geophysics
Phone: 6-4224 H6-06
Date: October 28, 1993
Subject: SPECTRAL GAMMA-RAY LOGGING REPORT OF RADIONUCLIDE SURVEYS
ACQUIRED FOR THE U-14 DITCH GROUNDWATER IMPACT ASSESSMENT

81234-93-034

To: K. M. Singleton H6-06

cc: J. R. Brodeur H6-06
J. W. Fassett H6-06
K. R. Fecht H6-06
S. E. Kos H6-06
R. K. Price H6-06
R. R. Thompson L4-96
JWF File/LB

Attached is a report for eight boreholes surveyed with the spectral gamma-ray logging truck in the vicinity of the U-14 ditch. The spectral gamma-ray logs were collected with the Radionuclide Logging System high-purity germanium passive gamma-ray logging probe and showed the presence of gamma-ray emitting man-made radionuclides in four of the eight boreholes. The maximum activity where man-made radionuclides were detected did not exceed five pCi/g, and in all wells the activity occurred near ground surface.

Questions about the technical material in the report should be directed to R. K. Price of the Geophysics staff at 376-9148.

J. W. Fassett
J.W. Fassett, Manager

dds

Attachments 2

RLS Passive Spectral Gamma-Ray Borehole Survey Report

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Report Date: October 28, 1993
Project: U-14 Ditch Groundwater Impact Assessment
Boreholes: 299-W18-15 299-W19-32
 299-W19-21 299-W19-91
 299-W19-22 299-W19-92
 299-W19-27 299-W19-93

Calibration Date: November 1991
Logging Engineers: R. V. Cram, S. E. Kos, J. P. Kiesler
Analyst: R. K. Price, W. F. Nicaise

Introduction

Logging with the high-resolution, high-purity germanium (HPGe) passive spectral gamma-ray system has been completed for the eight boreholes in the vicinity of the U-14 ditch. A summary of the boreholes included in this report are presented in Table 1. Table 1 contains a summary of the information presented in this report and includes the following: survey completion date, maximum survey depth, and the maximum depth at which each man-made radionuclide was identified.

The objective of the borehole surveys was to identify the presence and species of man-made, gamma-ray emitting radionuclides and their relative activity levels. The graphs of the decay activities (concentrations) versus depth for man-made radionuclides and the natural radionuclides are presented for each survey. Decay activities are reported in pico-curies per gram (pCi/g) of sample.

The contents of the report are limited to the description of the survey results for each borehole logged. Details of equipment configuration, calibration, logging procedures, casing and water-correction factors, spectra analysis software, and data management have been excluded. The details of these topics are described in the papers cited at the end of this report.

U-14 Ditch Groundwater Impact Assessment

Observations of the Radionuclide Logging System (RLS) borehole surveys included in this report are summarized below. This review does not necessarily include all the information that can be gleaned from the spectral gamma-ray survey data.

Table 1: Summary of Maximum Radionuclide Depths from RLS Log Surveys of U-14 Ditch Wells

Borehole ID	Survey Date ¹	Survey Depth ²	Cesium-137 Depth ³	Cobalt-60 Depth ³	Europium-152 Depth ³	Europium-154 Depth ³
299-W18-15	05/19/93	239.5'	28.0'	-	-	-
299-W19-21	06/01/93	220.5'	-	-	-	-
299-W19-22	06/17/93	131.0'	-	-	-	-
299-W19-27	05/25/93	222.0'	-	-	-	-
299-W19-32	06/23/93	220.0'	-	-	-	-
299-W19-91	06/09/93	110.5'	19.5'	-	-	-
299-W19-92	06/07/93	117.0'	27.0'	-	-	-
299-W19-93	06/03/93	110.5'	7.5'	-	-	-

¹ Date survey was completed² Maximum survey depth³ Maximum depth where radionuclide was identified

LONG-COUNT MEASUREMENTS: Long-count stationary measurements of at least 300 seconds were recorded at the bottom of wells 299-W19-21, 299-W19-92, and 299-W19-93 to verify the data acquired from the 150-second acquisition time. Both the long and 150-second measurements were acquired at essentially the same depth interval. The extended acquisition time did not identify additional radionuclides in any of these wells.

EQUIPMENT CALIBRATION: The borehole surveys presented in this report have all been analyzed using the calibration data acquired in November 1991. Calculation of the calibration factors used in data reduction depended on the calibration data and on nuclear data (half-lives, branching ratios, number of gamma-rays per decay) for the particular nuclide. All of the nuclear data were taken from Erdtmann and Soyka, Die Gamma-Linien der Radionuklide (The Gamma Rays of the Radionuclides), Verlag Chemie GMBh Weinheim, Deutschland, 1979.

Borehole Survey Report

The report for each borehole survey by the RLS (Attachment 2) contains three types of information. The contents of each information type are described below. The borehole survey reports are presented in the same order as they are listed in Table 1.

1. A single-page log header form is first. The form is titled "RLS Spectral Gamma-Ray Borehole Survey Log Header" and summarizes the borehole and survey information.

The form contains the borehole name, coordinates, and elevation.

Borehole environment information is next and includes casing specifications and depths and water depth (if present). These are the parameters used for data reduction.

RLS survey information is then presented and includes the logging engineers names, date, file names, logging mode, and survey depths.

The survey data-reduction information follows and includes calibration date and calibration report number, analyst names and analysis date. A single line is present for analysis notes and man-made radionuclides encountered.

2. Radionuclide activity responses versus depth, i.e., data plots, are plotted on one or more pages. A uniform depth scale of 20 feet/inch is used for all plots. Four plot tracks are presented for uniformity. The experimental uncertainties in the computed radionuclide activities are not presented on the data plots at this time.

The "Total Gamma" is the count rate for all gamma rays detected by the RLS detector with no discrimination of gamma-ray energy. The "Total Gamma" is equivalent to the gross gamma log commonly used by some organizations at Hanford. The count-rate data values are plotted on two linear scales. The scale of the narrow line is 0 to 1000 c/s. The scale of the wide line is 0 to 100,000 c/s.

The remaining plot tracks contain the results of the spectra gamma-ray analysis. The computed data values are generally plotted on two linear scales. The scale of the narrow line is given at the top of the plot and is 0 to 50 pCi/g. The scale of the wide line is given at the bottom of the plot and is 0 to 5000 pCi/g.

The natural radionuclide activities, if presented, will be plotted on a separate graph. The total gamma is plotted with a maximum linear scale of 500 cps. The natural radionuclides (potassium, uranium and thorium) are plotted in the three remaining tracks.

3. The analysis notes follow as the third type of information reported for each spectral gamma-ray survey. The notes contain descriptions of the borehole conditions and possible limitations of the plotted results. The depth ranges where each radionuclide was encountered and the maximum activities are reported.

Limitations to the Radioelement Analyses

Several limitations of the borehole survey equipment, calibration, and data acquisition objectives follow.

The logging cable equipped on the RLS was specifically designed for the system. It suspends the detector in the well, conducts power to the detector, receives electrical signals from the detector, and provides the conduit for venting the liquid nitrogen component of the detector. Errors in the depth measuring system of the RLS are mainly related to cable stretch, cable and sheave wheel contact, and electronic encoding components. The recorded depth of the detector is estimated to be accurate to 98.5 percent, with a precision (repeatability) of 99 percent. Comparisons with drilling measurements, other logging equipment, and secondary measuring systems have verified the accuracy. An upgrade in the logging cable and measuring system is being investigated.

The standard logging configuration optimizes the counting system for detecting low decay activities of radioelements. The RLS has frequently detected man-made radioelement activities of 0.3 pCi/g for nuclides with gamma rays having energies greater than 500 keV and number of gammas per decay at greater than 50 percent. The maximum decay activity the RLS has detected is about 10,000 pCi/g in this standard configuration.

The alternate logging configuration employs a lead shield and changes the counting system to maximize the count rate. Configuring the counting system to maximize the count rate compromises its ability to detect radioelements at low decay activities (concentrations). The RLS has frequently detected man-made radioelement activities exceeding 33,000 pCi/g in this shielded configuration. The alternate logging configuration was not employed for the surveys included in this report because of the low count rates encountered.

Borehole-environment correction factors have been determined for steel casing and water in the borehole. Correction factors for other borehole configurations have not been investigated. Borehole configurations for which no correction is available include: (1) grout between multiple casing strings, (2) formation seals containing bentonite, sand, or grout behind the casing, and (3) drilling mud remaining inside the borehole during logging. The calculated decay activity for man-made radionuclides will be underestimated for boreholes with these configurations.

Energy-dependent casing corrections have been established for steel casing thicknesses up to 0.40 inches. Corrections for casings of different materials and/or cumulative thicknesses greater than 0.40 inches have not been calculated and therefore cannot be used in the data reduction.

The calibration data were recorded with the detector centered in calibration zones that are uniform in density, water content, and gamma-ray source material. The dimensions of each zone are large enough that the detector always responded as though surrounded by a medium of infinite extent. Therefore, the use of the calibration results to calculate nuclide activity carries the assumption that the nuclides in the logged formation are also distributed in thick uniform layers.

Gamma-ray sources are not normally distributed in the earth in thick uniform layers. Source inhomogeneities are reflected to some degree by the fluctuations in the amplitudes of the log traces. A factor called the vertical spacial resolution quantifies the correlation between (1) the intensity of the log fluctuation and the depth interval over which it extends, and (2) the intensity of the corresponding gamma-ray source and the thickness of the zone in which the source is embedded. The vertical spatial resolution of the RLS HPGe logging system is scheduled for investigation.

Radionuclide decay activities are determined from the net area of the gamma-ray peaks. Radioelements such as strontium-90, which do not emit a gamma-ray when they decay, will not be identified or quantified by the spectra analysis performed for this report. The decay of strontium-90 results in a high-energy beta particle that can excite surrounding elements to emit photon radiation that can be identified by the HPGe detector. This type of radiation is called bremsstrahlung radiation. A method to obtain estimates of the concentrations of strontium-90 is under consideration.

Conclusion

No man-made radionuclides were identified with the RLS in the subsurface for wells 299-W19-21, 299-W19-22, 299-W19-27, and 299-W19-32. Cesium-137 was detected near the surface in wells 299-W18-15, 299-W19-91, 299-W19-92, and 299-W19-93. The distribution and activity of cesium in these wells is as follows:

299-W18-15	0'-12.0' maximum activity 4.5 pCi/g at 1.0' 24.0'-28.0' maximum activity 3.0 pCi/g at 26.0'
299-W19-91	0'-19.5' maximum activity 1.2 pCi/g at 11.5'
299-W19-92	0'-27.0' maximum activity 0.5 pCi/g at 4.5'
299-W19-93	0'-2.5' maximum activity 0.4 pCi/g at 1.5' 7.5' trace activity

The decay activity for natural radionuclides, KUT, have been computed by the data reduction program and are presented in this report.

Cited Reports

Koizumi, C. J., J. R. Brodeur, W. H. Ulbricht, and R. K. Price, 1991, "Calibration of the RLS HPGe Spectral Gamma-Ray Logging System," WHC external publication WHC-EP-0464

Brodeur, J. R., C. J. Koizumi, W. H. Ulbricht, and R. K. Price, 1991, "Calibration of a High-Resolution Passive Gamma-Ray Logging System for Nuclear Waste Assessment," WHC Speech Article Report WHC-SA-1175-FP

Koizumi, C. J., R. K. Price, and R. D. Wilson, 1992, "Calibration of the RLS System for 200 Aggregate Area Management Study Screening Measurements," WHC supporting document WHC-SD-EN-TRP-001

Brodeur, J. R., C. J. Koizumi, R. K. Price, and R. D. Wilson, 1992, "Gamma-Ray Logging Results for the 200 Aggregate Area Management Study," WHC supporting document WHC-SD-EN-TI-021

Koizumi, C. J., R. K. Price, 1992, "Calibration of the Radionuclide Logging System Germanium Detector," WHC-SD-EN-TRP-004, Rev.0, Westinghouse Hanford Company, Richland, Washington

WHC-EP-0698

Westinghouse Hanford Company

RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W18-15</u>		
Coordinates	<u>36990 N</u>	<u>77152 W</u>	Feet (Plant 200 W Area)
Elevation	<u>659.5 est.</u> ft		Top of casing (Plant 200 W Area)

Borehole Environment Information

Borehole liquid depth <u>194.5</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
8	0.323	0	248

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>						
Log depth reference at zero (0.0) depth is <u>ground level</u>						
Log Date	Archive file names	Log mode	speed	Depth interval (ft)		
				Top	Base	Incr
May 13, 1993	H2W1815\A369	MSA	150sec RT	0	64	0.5
May 17, 1993	H2W1815\A370	MSA	150sec RT	62	133	0.5
May 18, 1993	H2W1815\A371	MSA	150sec RT	131.5	197	0.5
May 19, 1993	H2W1815\A372	MSA	150sec RT	195.5	239.5	0.5

MSA: Move-Stop-Acquire RT: Real Time LT: Live Time
 FIXED: Fixed cable speed velocity fpm: Feet per minute
 Stations: Long count stationary measurements

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names:	<u>W. F. Nicaise</u>
Analysis Date:	<u>Jul 6, 1993</u>
Analysis Notes: _____	
Radionuclides Identified: <u>Cs-137</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 19, 1993

Borehole: 299-W18-15

Anal. Date: Jul 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 19, 1993

Borehole: 299-W18-15

Anal. Date: Jul 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Borehole : 299-W18-15

Log Date : May 19, 1993

Anal Date: Jul 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U#-14 Ditch
Borehole : 299-W18-15

Log Date : May 19, 1993
Anal Date: Jul 06, 1993

RLS Borehole Survey ReportBorehole: 299-W18-15

Casing	Depth: 248'	Size: 8"	Thickness: 0.323"
Water	Depth: 194.5'		
Survey	Depth: 0 - 64'	Mode: MSA 150 sec	Date: 5/13/93
	62 - 133	MSA 150 sec	5/17/93
	131.5- 197'	MSA 150 sec	5/18/93
	195.5- 239'	MSA 150 sec	5/19/93

General Notes:

The well was monitored from zero to 239 feet in increments of 0.5 feet for counting periods of 150 seconds. The well casing consisted of an eight inch carbon steel casing and water was encountered at a depth of 194.5 feet. The only man-made radionuclide identified in the well is cesium-137. There are two regions of low cesium activity, the first centered at one foot and the second centered at 25.5 feet. This is shown on the first set of plots.

The naturally occurring radionuclides potassium, uranium, and thorium were also observed throughout the monitored depths of the well as shown on the second set of plots. The natural radionuclide activities are typical for Hanford soils. There is a slight increase in the activities of both natural and man-made radionuclides in the range from 20 to 28 feet. This may be due to a discontinuity in the soil in this region from sand to gravel as is noted in the Hanford well construction and completion summary.

Man-made Radionuclides:

Cesium (Cs-137) was detected from 0 to 12 feet and from 24 to 28 feet. The maximum calculated activity of 4.5 pCi/g occurred at a depth of one foot.

No other man-made radionuclides were detected in the monitored portions of the well. The plot tracks for cobalt and europium are presented for uniformity of display only.

Westinghouse Hanford Company RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-21</u>		
Coordinates	<u>37,462 N</u>	<u>75,273 W</u>	Feet (Hanford System)
Elevation	<u>678.53 ft</u>	Top of casing	

Borehole Environment Information

Borehole liquid depth <u>211.2</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
6	0.284	0	201
6	0.284	191	201
6	0.200	201	226
8	0.322	0	157

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
May 26, 1993	H2W1921\A377	MSA 150sec RT	0 71 0.5
May 27, 1993	H2W1921\A378	MSA 150sec RT	69 138 0.5
May 28, 1993	H2W1921\A379	MSA 150sec RT	137 190 0.5
Jun 01, 1993	H2W1921\A380	MSA 150sec RT 300sec RT	189 220 0.5 Station 220.5

MSA: Move-Stop-Acquire
RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	<u>R. K. Price</u>
Analysis Date: <u>Jul 27, 1993</u>	
Analysis Notes: <u>Casing exceeded maximum correction factor as noted.</u>	
Radionuclides Identified: <u>No man-made radionuclides identified.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
 Borehole : 299-W19-21
 Log Date : Jun 01, 1993
 Anal Date: Jul 27, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date : Jun 01, 1993

Borehole : 299-W19-21

Anal Date: Jul 27, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 01, 1993

Borehole: 299-W19-21

Anal. Date: Jul 27, 1993

Log Date: Jun 01, 1993

Anal. Date: Jul 27, 1993

RLS Borehole Survey ReportBorehole: 299-W19-21

Casing	Depth: 0'-201'	Size: 6"	Thickness: 0.284"
Casing	Depth: 191'-201'	Size: 6"	Thickness: 0.284"
Casing	Depth: 201'-226'	Size: 6"	Thickness: 0.200"
Casing	Depth: 0'-157'	Size: 8"	Thickness: 0.322"
Water	Depth: 211.2'		
Survey	Depth: 0'- 220.5'	Date: 6/01/93	
	Stations: 300 seconds at 220.5'		

General Notes:

The well was monitored from 0 to 220 feet, in increments of 0.5 feet for counting periods of 150 seconds. A stationary count was made at 220.5 feet for 300 seconds. An eight inch casing extends to 157 feet. It is perforated with 2 cuts/rd/ft from 20 to 80 feet. A six inch blank casing extends from 191 to 201 feet, followed by a telescoping screen from 201 to 226 feet. A six inch telescoping screen extends from 201 to 226 feet. A Bentonite grout between the casings extends to 157 feet. A cement-Bentonite grout outside the eight inch casing extends to 80 feet.

The plot tracks for the naturally occurring radionuclides potassium, uranium, and thorium show activities which are typical for Hanford soils. In the region from 191 to 201 feet the two casing thicknesses exceed the maximum casing correction factor the calculated activities are underestimated.

The plot tracks for the man-made radionuclides show that none were detected within the limits of sensitivity of the detection system. The total gamma ray count rate therefor reflects the natural radionuclide activity.

Man-made Radionuclides:

No man-made radionuclides were observed in the spectral gamma-ray survey.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-22</u>		
Coordinates	<u>37,628 N</u>	<u>74,796 W</u>	Feet (Hanford System)
Elevation	<u>686.14 ft</u>	Top of casing	

Borehole Environment Information

Borehole liquid depth <u>none</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
5	0.250	0	130
5	0.200	130	135
8	0.322	0	100

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>					
Log depth reference at zero (0.0) depth is <u>ground level</u>					
Log Date	Archive file names	Log mode	speed	Depth interval (ft)	
				Top	Base Incr
Jun 16, 1993	H2W1922\A387	MSA	150sec RT	0	70 0.5
Jun 17, 1993	H2W1922\A388	MSA	150sec RT	68.5	131 0.5

MSA: Move-Stop-Acquire

RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	
Analysis Date: <u>Aug 06, 1993</u>	
Analysis Notes: <u>Casings exceeded maximum correction factor as noted.</u>	
Radionuclides Identified: <u>No man-made radionuclides identified.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date : Jun 17, 1993

Borehole : 299-W19-22

Anal Date: Aug 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole : 299-W19-22

Log Date : Jun 17, 1993
Anal Date: Aug 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 17, 1993

Borehole: 299-W19-22

Anal. Date: Aug 06, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole: 299-W19-22

Log Date: Jun 17, 1993
Anal. Date: Aug 06, 1993

RLS Borehole Survey ReportBorehole: 299-W19-22

Casing	Depth: 0'-130'	Size: 5"	Thickness: 0.250"
Casing	Depth: 130'-135'	Size: 5"	Thickness: 0.200"
Casing	Depth: 0'-100'	Size: 8"	Thickness: 0.322"
Water	Depth: none		
Survey	Depth: 0'- 130'	Date: 6/17/93	

General Notes:

The well was monitored from 0 to 130 feet, in increments of 0.5 feet for counting periods of 150 seconds. An eight inch casing extends to 100 feet. A five inch casing extends from 0 to 130 feet, followed by a five inch stainless steel, #10 slot telescoping screen from 130 to 135 feet. Between the casings there is a cement grout to a depth of approximately 115 feet. Below that a Bentonite plug extends to approximately to 125 feet. Below this plug there is a silica sand filter pack to 135 feet. From there to the bottom of the well at 142 feet there is a cement plug.

The plot tracks for the naturally occurring radionuclides potassium, uranium, and thorium show activities which are typical for Hanford soils, for the first 128 feet of the well. Beginning at approximately 128 feet the calculated potassium activity rises to about 50 per cent higher than usual. This may be due to the presence of both the screen and to silica sand pack inside the well at the bottom. This could result in an overcorrection for the casing correction factor, resulting in a calculated activity which is biased high.

The plot tracks for the man-made radionuclides show that none were detected within the limits of sensitivity of the detection system. The total gamma ray count rate therefore reflects the natural radionuclide activity.

Man-made Radionuclides:

No man-made radionuclides were observed in the spectral gamma-ray survey.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch Characterization

Borehole	<u>299-W19-27</u>		
Coordinates	<u>37629 N</u>	<u>75072 W</u>	Feet (Plant 200 W Area)
Elevation	<u>680.55</u> ft		Top of casing (Plant 200 W Area)

Borehole Environment Information

Borehole liquid depth <u>215.7</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
10	0.25	0	3
5	0.258	0	208
5	0.0125	208.1	228

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>J. P. Kiesler</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
May 20, 1993	H2W1927\A373	MSA 150sec RT	0 64 0.5
May 21, 1993	H2W1927\A374	MSA 150sec RT	63 116 0.5
May 24, 1993	H2W1927\A375	MSA 150sec RT	114 179 0.5
May 25, 1993	H2W1927\A376	MSA 150sec RT	177 222 0.5

FIXED: Fixed cable speed velocity fpm: Feet per minute
Stations: Long count stationary measurements

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	_____
Analysis Date: <u>Jul 14, 1993</u>	_____
Analysis Notes: _____	
Radionuclides Identified: <u>No man-made radionuclides detected.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 01, 1993

Borehole: 299-W19-27

Anal. Date: Jul 14, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch Log Date: Jun 01, 1993
Borehole: 299-W19-27 Anal. Date: Jul 14, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
 Borehole : 299-W19-27

Log Date : Jun 01, 1993
 Anal Date: Jul 14, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U#14 Ditch

Borehole : 299-W19-27

Log Date : Jun 01, 1993

Anal Date: Jul 14, 1993

RLS Borehole Survey Report

Borehole: 299-W19-27

Casing	Depth: 3'	Size: 10"	Thickness: 0.25"
Casing	Depth: 0'-208'	Size: 5"	Thickness: 0.258"
Casing	Depth: 208'-228'	Size: 5"	Thickness: 0.0125"
Water	Depth: 215.7'		
Survey	Depth: 0'- 222'	Date: 5/25/93	

General Notes:

The well was monitored from 0 to 222 feet, in increments of 0.5 feet for real counting periods of 150 seconds. A ten inch protective casing extends 3 feet down in the well. The five inch stainless steel casing extends downward to 208 feet. Below that there is a five inch diameter, #20 slot stainless steel screen to a depth of 228 feet. The combined casing thicknesses exceed the maximum casing correction factor for the first 3 feet resulting in calculated activities which are slightly lower than the actual activities.

The plot tracks for the naturally occurring radionuclides show the depth profile for the total gamma ray count rate and the radionuclides potassium, uranium, and thorium. The total gamma ray count rate profile is determined by the features of the profiles for the naturally occurring radionuclides. The well casing is surrounded by a bentonite filler. The slightly higher than normal natural activity profiles for uranium and thorium, and less than normal potassium, are consistent with the radionuclide content of the bentonite.

Man-made Radionuclides:

No man-made radionuclides were observed in the spectral gamma-ray survey.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-32</u>		
Coordinates	<u>37,887 N</u>	<u>75,459 W</u>	Feet (Hanford System)
Elevation	<u>671.92 ft</u>	<u>Top of casing</u>	

Borehole Environment Information

Borehole liquid depth <u>206.5</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
4	0.125	0	201.7
4	0.01	201.7	222.4

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u> <u>J. P. Kiesler</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
Jun 18, 1993	H2W1932\A389	MSA 150sec RT	0 50 0.5
Jun 21, 1993	H2W1932\A390	MSA 150sec RT	48.5 116 0.5
Jun 22, 1993	H2W1932\A391	MSA 150sec RT	114.5 183.5 0.5
Jun 23, 1993	H2W1932\A392	MSA 150sec RT	182 220 0.5

MSA: Move-Stop-Acquire

RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names:	<u>W. F. Nicaise</u>
Analysis Date:	<u>May 18, 1993</u>
Analysis Notes:	
Radionuclides Identified:	<u>No man-made radionuclides identified.</u>

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole : 299-W19-32

Log Date : Jun 23, 1993
Anal Date: Aug 02, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Borehole : 299-W19-32

Log Date : Jun 23, 1993

Anal Date: Aug 02, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 23, 1993

Borehole: 299-W19-32

Anal. Date: Aug 02, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole: 299-W19-32

Log Date: Jun 23, 1993
Anal. Date: Aug 02, 1993

RLS Borehole Survey ReportBorehole: 299-W19-32

Casing	Depth: 0'-201.7'	Size: 4"	Thickness: 0.125"
Casing	Depth: 201.7'-222.4'	Size: 4"	Thickness: 0.01"
Water	Depth: 206.5'		
Survey	Depth: 0'- 220'	Date: 6/23/93	
	Stations:		

General Notes:

The well was monitored from 0 to 220 feet, in increments of 0.5 feet for real counting periods of 150 seconds. A pre-mix concrete pad extends to 3.1 feet, and a cement grout extends from 3.1 to 20.3 feet below the ground level. From 20.3 to 195.4 feet there is a Bentonite seal. From 195.4 to 223.1 is a sand fill. A four inch stainless steel casing 0.125 inch in thickness extends to 201.7 feet. From there to the well bottom at 222.4 there is a #10-slot stainless steel screen.

There were no man-made radionuclides identified in this well, within the limits of sensitivity of the detection system. The plot tracks for man-made radionuclides are shown for uniformity of presentation only.

The plot tracks for the man-made radionuclides potassium, uranium, and thorium show calculated activities which are typical of Hanford soils. What little variation in these activities with depth are consistent with the known properties of the Bentonite seal materials used in the well.

Man-made Radionuclides:

No man-made radionuclides were observed in the spectral gamma-ray survey.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-91</u>		
Coordinates	<u>37.617 N</u>	<u>75.269 W</u>	Feet (Hanford System)
Elevation	<u>675.42</u> ft	Top of casing	

Borehole Environment Information

Borehole liquid depth <u>110.6</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
8	0.331	0	105
6	0.280	99	109
8	0.200	109	119

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
Jun 08, 1993	H2W1991\A385	MSA 150sec RT	0 70 0.5
Jun 09, 1993	H2W1991\A386	MSA 150sec RT	68.5 110.5 0.5

MSA: Move-Stop-Acquire

RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	
Analysis Date: <u>Aug 08, 1993</u>	
Analysis Notes: _____	
Radionuclides Identified: <u>Cs-137 only, near surface.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 09, 1993

Borehole: 299-W19-91

Anal. Date: Aug 09, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole : 299-W19-91

Log Date : Jun 09, 1993
Anal Date: Aug 06, 1993

RLS Borehole Survey ReportBorehole: 299-W19-91

Casing	Depth: 0'-105'	Size: 8"	Thickness: 0.331"
Casing	Depth: 99'-109'	Size: 6"	Thickness: 0.280"
Casing	Depth: 109'-119'	Size: 8"	Thickness: 0.200"
Water	Depth: 110.6'		
Survey	Depth: 0'- 110.5'	Date: 6/09/93	

General Notes:

The well was monitored from 0 to 110.5 feet, in increments of 0.5 feet for counting periods of 150 seconds. The borehole diameter is 11 inches to 105 feet. Outside the eight inch casing there is granular Bentonite to about 90 feet, followed by a sand plug to 105 feet. Below 105 feet the well diameter is a nominal nine inches. A six inch carbon steel casing extends from 99 to 109 feet. From 109 to 119 feet there is an eight inch #10 slot stainless steel telescoping screen. From about 110.5 feet downward there is gravel packed inside the telescoping screen.

The plot tracks for the naturally occurring radionuclides potassium, uranium, and thorium show calculated activities which are typical for Hanford soils. The plot track for the total gamma ray count rate reflects the general features of the naturally occurring radionuclides. The breaks in the plot track data at 21 feet and at 95 feet are due to poor quality individual spectra at these points. The other spectra are normal.

The only man-made radionuclide observed in the well is Cs-137 which occurs intermittently from the ground level to 19.5 feet.

Man-made Radionuclides:

Cesium (Cs-137) is detected from 0 to 19.5 feet. The maximum calculated activity of 1.2 pCi/g occurs at 11.5 feet. No other man-made radionuclides were observed.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-92</u>		
Coordinates	<u>37.492 N</u>	<u>75.319 W</u>	Feet (Hanford System)
Elevation	<u>676.0</u>	ft	Top of casing

Borehole Environment Information

Borehole liquid depth <u>94.0</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
8	0.329	0	111
6	0.280	100.5	113
8	0.01	113	123

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
Jun 04, 1993	H2W1992\A383	MSA 150sec RT	0 55 0.5
Jun 07, 1993	H2W1992\A384	MSA 150sec RT	53.5 117 0.5
Jun 07, 1993	H2W1992\A384	500sec RT	Station 117

MSA: Move-Stop-Acquire
RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	<u>R. K. Price</u>
Analysis Date: <u>Aug 04, 1993</u>	
Analysis Notes: _____	
Radionuclides Identified: <u>Cs-137 only.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 07, 1993

Borehole: 299-W19-92

Anal. Date: Aug 04, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole : 299-W19-92

Log Date : Jun 07, 1993
Anal Date: Aug 04, 1993

RLS Borehole Survey ReportBorehole: 299-W19-92

Casing	Depth: 0'-111'	Size: 8"	Thickness: 0.329"
Casing	Depth: 100.5'-113'	Size: 6"	Thickness: 0.280"
Casing	Depth: 113'-123'	Size: 8"	Thickness: 0.010"
Water	Depth: 110.0'		
Survey	Depth: 0'- 117'	Date: 6/07/93	
	Stations: 117'		

General Notes:

The well was monitored from 0 to 117 feet, in increments of 0.5 feet for real counting periods of 150 seconds. A stationary count was taken at 117 feet for 500 seconds. The borehole diameter is 11 inches to 111 feet. The space between the 8 inch casing and the well side was filled with granular Bentonite. Below 111 feet the well diameter is a nominal nine inches. A six inch casing extends from 100.5 to 113 feet. From 113 to 123 feet there is an eight inch #10 slot stainless steel screen.

The plot tracks for the naturally occurring radionuclides potassium, uranium, and thorium show calculated activities which are typical for Hanford soils. The plot track for the total gamma ray count rate reflects the general features of the naturally occurring radionuclides.

The only man-made radionuclide observed in the well is Cs-137 which occurs intermittently for the ground level to 27 feet. The calculated activities for this radionuclide range from 0.1 to 0.5 pCi/g which is just at the lower limit of detection for the detection system.

Man-made Radionuclides:

Cesium (Cs-137) is detected from 0 to 27 feet. The maximum calculated activity of 0.5 pCi/g occurs at from 4.5 to 5.0 feet. No other man-made radionuclides were observed.

Westinghouse Hanford Company
RLS Spectral Gamma-Ray Borehole Survey Log Header

Project: U-14 Ditch

Borehole	<u>299-W19-93</u>		
Coordinates	<u>37,289 N</u>	<u>75,431 W</u>	Feet (Hanford System)
Elevation	<u>675.0 ft</u>	Top of casing	

Borehole Environment Information

Borehole liquid depth <u>110.0</u> (ft) from zero (0.0) depth reference of log			
Casing size (in.)	Casing thickness (in.)	Top depth (ft)	Base depth (ft)
8	0.337	0	101
6	0.280	95	105
8	0.01	105	115

RLS Passive Spectral Gamma Survey Information

Logging Engineers <u>R. V. Cram</u> <u>S. E. Kos</u>			
Log depth reference at zero (0.0) depth is <u>ground level</u>			
Log Date	Archive file names	Log mode speed	Depth interval (ft) Top Base Incr
Jun 02, 1993	H2W1993\A381	MSA 150sec RT	0 74 0.5
Jun 03, 1993	H2W1993\A382	MSA 150sec RT	72.5 110.5 0.5
Jun 03, 1993	H2W1993\A382	300sec RT	Station 110.5

MSA: Move-Stop-Acquire
RT: Real time

Calibration and Analysis Information

RLS Calibration Date: Nov. 21, 1991	
Calibration Report: WHC-SD-EN-TRP-001	
Analyst Names: <u>W. F. Nicaise</u>	<u>R. K. Price</u>
Analysis Date: <u>Aug 03, 1993</u>	
Analysis Notes: _____	
Radionuclides Identified: <u>Surface Cs-137 only.</u>	

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Borehole : 299-W19-93

Log Date : Jun 03, 1993

Anal Date: Aug 03, 1993

RLS Spectral Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: Jun 03, 1993

Borehole: 299-W19-93

Anal. Date: Aug 03, 1993

RLS Borehole Survey ReportBorehole: 299-W19-93

Casing	Depth: 0'-101'	Size: 8"	Thickness: 0.337"
Casing	Depth: 95'-105'	Size: 6"	Thickness: 0.280"
Casing	Depth: 105'-115'	Size: 8"	Thickness: 0.010"
Water	Depth: 94.0'		
Survey	Depth: 0'-110.5'	Date: 6/03/93	
	Stations: 110.5'		

General Notes:

The well was monitored from 0 to 110 feet, in increments of 0.5 feet for real counting periods of 150 seconds. A stationary count was taken at 110.5 feet for 300 seconds. The borehole diameter is 11 inches to 85 feet. The space between the 8 inch casing and the well side was filled with granular Bentonite. Below 85 feet the well diameter is a nominal nine inches. A six inch casing extends from 95 to 105 feet. From 105 to 115 feet there is an eight inch #10 slot stainless steel screen.

The plot tracks for the naturally occurring radionuclides potassium, uranium, and thorium show calculated activities which are typical for Hanford soils. The plot track for the total gamma ray count rate reflects the general features of the naturally occurring radionuclides. An elevated total gamma ray count rate at about 29 feet is associated with slightly elevated thorium and uranium concentrations. A detailed review of the survey spectra indicates that only natural radionuclide gamma ray photopeaks are present in this region.

The only man-made radionuclide observed in the well is Cs-137 which occurs at trace activities near the surface and a trace at 7.5 feet.

Man-made Radionuclides:

Cesium (Cs-137) is detected from 0 to 2.5 feet and at 7.5 feet. The maximum calculated activity of 0.4 pCi/g occurs at one to 1.5 feet.

No other man-made radionuclides were observed.

**Westinghouse
Hanford Company****Internal
Memo**

From: Geophysics 81234-93-038
Phone: 6-4224 H6-06
Date: December 30, 1993
Subject: GROSS GAMMA-RAY LOGGING REPORT OF SURVEYS ACQUIRED FOR THE
216-U-14 DITCH GROUNDWATER IMPACT ASSESSMENT

To: K. M. Singleton H6-06
cc: J. W. Fassett H6-06
K. R. Fecht H6-06
A. J. Knepp H6-06
S. E. Kos H6-06
R. K. Price H6-06
R. R. Thompson H6-06
JWF File/LB

Attached is a report concerning eight boreholes logged during the drilling and completion activities associated with the U-14 Ditch Groundwater Impact Assessment. The log surveys included in this report have been acquired with two detector types. They are Gross Gamma-ray operated by PNL, and Spectral Gamma-ray Sodium-Iodide (NaI) operated by WHC. No man-made radionuclides above the detection limit of each detector were identified in any of the boreholes surveyed.

Borehole 299-W18-15 was surveyed with the WHC-RLS spectral gamma and the WHC-NaI system. Cesium-137 was identified in two intervals with the WHC-RLS system but was not identified by the WHC-NaI system gross gamma mode above the variations of the natural radionuclide.

Questions regarding the technical material in the report should be directed to R. K. Price of the Geosciences staff at 376-9148.

J. W. Fassett
Manager

mai

Attachment

Passive Gross Gamma-Ray Borehole Survey Report

Report Date: December 29, 1993
Project: 216-U-14 Ditch Groundwater Impact Assessment
Boreholes: 299-W18-15 299-W19-22
 299-W18-33 299-W23-16
 299-W18-250 299-W23-17
 299-W18-251 299-W23-18

1.0 Introduction

Passive gamma-ray borehole survey logs were acquired with the PNL and WHC systems in eight boreholes in the vicinity of the U-14 Ditch. Information regarding the boreholes, log date, maximum log depth, equipment utilized, and log-response ranges are presented in Table 1. A copy of the borehole survey logs are included in Appendix A.

Two detector types were used to acquire the borehole survey data included in this report. Each system records gamma-ray activity emitted by the formation. Both gamma-ray survey systems use a bow-spring device to center the tool in the borehole and reduce variations that may be present with non-homogenous formation properties. A summary of the configuration and differences in each system follows.

1.1 PNL Gross Gamma-Ray Detector Summary

The PNL system measures gross gamma-ray activity with a one inch diameter by four inch long sodium-iodide [NaI(Tl)] detector. A gross gamma-ray detection system cannot differentiate the energies of the gamma rays. The PNL logging vehicle winch retrieves the detector at a logging speed of five feet per minute or greater. The formation gamma-ray activity and detector depth are presented in counts per second as a function of depth. No corrections for attenuation of the gamma-ray signal from steel casing or borehole fluid are available.

1.2 WHC-NaI Spectral Gamma-Ray Detector Summary

The WHC-NaI system measures gamma-ray energy and activity with a 2.5 inch diameter by eight-inch long NaI(Tl) detector. An improved downhole amplifier and the addition of an analog-to-digital converter permits the gamma-ray energies to be tabulated in a 1000 channel pulse height analyzer for each depth interval. The WHC-NaI system acquires data at a minimum logging speed of 2.5 feet per minute. The software to process the spectra, apply casing and borehole fluid correction factors and compute the natural potassium, uranium, and thorium (KUT) concentrations is in development. During the interim, the gross gamma-ray activity detected by this tool is presented. No corrections for steel casing or borehole fluid are currently applied to the recorded gamma-ray activity.

Table 1: GROSS GAMMA-RAY BOREHOLE SURVES FOR 216-U-14 DITCH

Borehole	Log Date	Log Depth (ft)	Truck	Low (cps)	High (cps)
299-W18-15	5/20/93	230	WHC-NaI	320	700
299-W18-33	5/20/93 6/30/93	146 224	WHC-NaI WHC-NaI	230 380	760 600
299-W18-250	4/26/93	66	PNL	30	85
299-W18-251	4/23/93 4/26/93	146 146	WHC-NaI PNL	300 30	720 95
299-W19-22	5/24/93	131	WHC-NaI	300	810
299-W23-16	5/24/93	233	WHC-NaI	120	650
299-W23-17	5/10/93	230	WHC-NaI	200	500
299-W23-18	4/23/93	152	WHC-NaI	320	780

2.0 Detection of Man-Made Radionuclides

The lower detection limit for man-made radionuclides using gross gamma-ray detectors is influenced by many factors and consequently is difficult to quantify without appropriate studies. Comparisons of gross gamma-ray count rates with the high-resolution germanium spectral gamma-ray borehole survey system through field measurements has assisted in establishing some correlations.

Factors which affect the lower detection limit of man-made radionuclides are:

- Variations in the natural radionuclide concentrations encountered at Hanford. The variations will be discussed later.
- Borehole construction considerations, such as multiple casing strings with varying thicknesses, cement, bentonite, sand pack and grout between and behind the casing. The unconsolidated nature of the Hanford Formation leads to large variations in the hole sizes.
- Formation gamma-ray activity differences below the water and above the water in the vadose zone.
- The presence of other man-made radionuclides which raise the gamma-ray activity recorded by the detector. The presence of cesium-137, even at low concentrations, raises the detection level for most transuranic radionuclides (e.g., Pu-239) and U-235.

The man-made radionuclides normally encountered at Hanford that emit gamma rays when decaying include: cesium-137, cobalt-60, europium-152, europium-154, antimony-125, americium-241, neptunium-237, uranium-235, uranium-238,

plutonium-239, plutonium-240, and others. Some of these radionuclides (Cs-137, Co-60, Eu-152, Eu-154, and others) emit the gamma-rays with sufficient energy and intensity that will permit gross gamma-ray systems to identify their presence at relatively nominal concentrations. The other radionuclides (Am-241, U-238, Pu-239, Pu-240, and others) may be present at concentrations exceeding 200 picocuries per gram before the gamma-ray activity exceeds the natural variations present at Hanford.

The lower detection limits will be summarized for two commonly encountered radionuclides (Cs-137 and Co-60) and two other radionuclides that are of interest because of their mobility and health hazards (U-238 and Pu-239). The lower detection limits given in Table 2 for the RLS-germanium and gross-gamma detectors are taken from field collected 80-second measurements, in single cased boreholes, above the water table (vadose zone), and with no interference from other man-made radionuclides. The detection limits are estimates. The primary gamma-ray energy and gamma rays emitted per 100 decays (intensity) are included to demonstrate the range of gamma-ray intensities that are encountered at Hanford.

Table 2: Lower Detection Limits of Selected Radionuclides

Radionuclide	Gamma-Ray Energy (KeV)	Gamma-Ray Intensity (%)	RLS-Germanium Detection Limit (pCi/g)	Gross Gamma Detection Limit pCi/g est.*
Cesium-137	662	85.	0.2	5
Cobalt-60	1332	100.	0.2	5
Uranium-238	1001	0.83	20.	500
Plutonium-239	414	0.0015	20,000.	500,000

* Lower Detection Limit for Gross Gamma Detector are estimated from field observations.

The interpretive challenge is identifying the presence of man-made radionuclides above the variations that occur within the soils from natural radionuclides. The naturally occurring radionuclides are potassium, uranium, and thorium (KUT). Natural uranium and processed uranium-235 and uranium-238 can each be uniquely identified with the WHC-RLS high resolution germanium spectral gamma-ray system. Natural uranium is assumed to be in secular equilibrium and is identified by the gamma rays of its most energetic daughter isotopes of bismuth-214 and lead-214. Processed uranium (U-235 and U-238) are not in secular equilibrium with their daughter products and are identified by different gamma rays than the bismuth-214 and lead-214 isotopes. In fact, the process uranium have had their daughter isotopes removed through a chemical milling process. One of the well recognized daughters, radium-226, has a 1622 year half-life will require four half-lives to reach 94% equilibrium from this isotope to the bismuth-214 daughter. This is one reason natural uranium and processed uranium can be easily recognized. The variations of the natural radionuclides in the Hanford soils follow.

Potassium	range is 8 to 20 picocuries per gram
Uranium	range is 0.2 to 3 picocuries per gram
Thorium	range is 0.2 to 2 picocuries per gram

2.1 PNL Gross Gamma-Ray Detection Limits

The PNL gross gamma-ray system response to the natural radionuclides is 40 to 100 cps through single carbon-steel casing above the water table depth and with no sealing material (i.e., bentonite, grout, or sand) between the casing and formation. The lower detection limit for the cesium-137 and cobalt-60 is approximately five picocuries per gram. This means the formation gamma-ray activity will exceed the 100-cps upper range commonly observed for the natural radionuclides when 5 pCi/g of Cesium-137 is present.

The two PNL gross gamma-ray surveys acquired for this project are included in the appendix.

2.2 WHC-NaI Spectral Gamma-Ray Detection Limits

The WHC-NaI gamma-ray detector response to the natural radionuclides is 300 to 800 cps with the same borehole conditions. This elevated count rate originates from the larger detector size. The higher count rate also improves the counting statistics. The detection limit for cesium-137 and cobalt-60 is approximately five picocuries per gram if only the total gamma-ray activity is reviewed. The detection limit can be lowered by about half by examining the spectra.

Seven WHC-NaI surveys acquired for this project are included in the appendix. The survey for borehole 299-W19-22 reached approximately 810 cps, above the range for natural radionuclide variations, in a screened interval where borehole conditions differ from the standard sited above.

The WHC-NaI detector has only recently been introduced to Hanford. During this shake-down phase of the system, extensive repeat intervals for the borehole survey are acquired. The repeat interval is plotted over the main log response as a duplicate curve. The repeat interval frequently extends for the entire borehole when depths are less than 150 feet. The repeatability of the system is extremely good.

3.0 Interpretation

The WHC-NaI total gamma-ray surveys have good repeatability and demonstrate that minor variations in the formation gamma-ray activity can be identified. Variations in the natural radionuclide concentrations with depth can indicate stratigraphic, mineralogic, and lithologic changes, both abrupt and gradational. Interpretation of the WHC-NaI total gamma-ray surveys for geologic features are considered important, however, are beyond the scope of this report.

Review of the borehole surveys, well construction data, and comparisons with other information have contributed to the following interpretation.

- Borehole 299-W18-15 is an older well that pre-existed the ground water impact study of the 216-U-14 Ditch. This borehole was logged earlier by the WHC-RLS spectral gamma-ray system and the results reported in Internal Memo 81234-93-034. Figure 1 compares the RLS survey results with the NaI total gamma-ray activity. The RLS survey identified cesium-137 from 0 to 12 feet and from 24 to 28 feet. The maximum activity detected was 4.5 picocuries per gram at one foot. The WHC-NaI survey response at one foot is not characteristic of natural formation variations and generally can be interpreted as an indication of man-made radionuclides. Additionally, the gross gamma-ray log survey detected an elevated formation activity from 20 to 28 feet that corresponds to an increase in natural uranium and potassium activity, as recorded by in the RLS survey. The presence of cesium-137 at 27 feet was undetected by the gross gamma survey. Review of the WHC-NaI spectral data indicated the presence of cesium-137 around one foot and 26 feet when its concentration, from the RLS survey, approached two picocuries per gram.
- An offset between the repeated log survey (i.e., count rate) is observed for well 299-W18-33 from 110 to the total survey depth of 146 feet. The differences are attributed to problems with the tool centralizer that may have permitted the detector be located at different axial positions in the borehole for the two passes. This was the first well surveyed with the WHC-NaI system in which the centralizer was used. The exclusion zone around the well prevented the logging operator from verifying equipment performance. The discrepancy in the level of activity of the repeated section prompted extended rerun intervals on subsequent log surveys to identify the problem and expedite its correction. To date the problem has not reoccured, indicating that the problem may not be present when care is taken to acquire the highest quality data.
- Well 299-W18-251 was logged with both the PNL gross gamma-ray and the WHC-NaI systems. The correlation between the two systems is good even though the WHC-NaI system ran no repeat interval and the depth increment between measurements was one foot. A repeat interval was not acquired due to time constraints (i.e., end of the work shift) that limited access to the borehole. WHC-NaI log surveys acquired after May 1, 1993 were recorded with a depth increment of 0.5 feet.
- Well 299-W23-16 exhibits an unusual gross-gamma-ray-deflection character at 156 feet. Further examination of this survey will aid in demonstrating how the borehole environment effects the response. Deflections on the gross gamma-ray log at 18 ft (casing shoe), 147 ft (casing down size), and 156 ft (bendonite fill) are typical of the borehole environmental conditions that affect the measured gamma-ray activity. Corrections for the borehole environment are in development but have not been applied to this data.

Figure 1 Compare RLS and Nai Total Gamma

Project: U-14 Ditch
 Borehole : 299-W18-15
 RLS Survey 5/19/93
 Nai Survey 5/20/93

Contamination resulting from radionuclides with low photon energy (e.g., U-235 and U-238) may not be detected because of such perturbations as moderate man-made radionuclide concentration, casing thickness, fill-material composition, and logging speed. Although the WHC system has spectral capabilities, species identification of low-energy nuclides (i.e., U-235 and U-238) may be unlikely. When low-energy nuclides are suspected, surveys with the WHC-RLS are justifiable. The time required for an RLS surveys is significantly longer than that required for either the PNL tool or WHC-NaI system.

4.0 CONCLUSIONS

No man-made radionuclide contamination above the detection threshold of the gross gamma-ray systems were identified in any of the eight wells logged. Borehole 299-W18-15 was surveyed earlier with the WHC-RLS equipment and identified cesium-137 that was not readily apparent with the gross gamma-ray systems. This incident demonstrates that moderate concentrations of U-235 and U-238 will be undetected by gross gamma-ray systems. A high-resolution spectral gamma-ray system should be requested in these instances.

APPENDIX A

GAMMA-RAY BOREHOLE SURVEYS

Gamma-ray borehole surveys acquired between January 1993 and December 1993 in the 216-U-14 Ditch area follow. The survey order is tabulated in the following table.

Borehole	Log Date	Max Survey Depth
WHC-NaI		
299-W18-15	5/20/93	230
299-W18-33	5/20/93 & 6/30/93	224
299-W18-251	4/23/93	146
299-W19-22	5/24/93	131
299-W23-16	4/29/93 & 5/24/93	233
299-W23-17	5/10/93	230
299-W23-18	4/23/93	152
PNL		
299-W18-250	4/26/93	66
299-W18-251	4/26/93	146

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 20, 1993

Borehole: 299-W18-15

No Corrections Applied

A-2

NaI Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole: 299-W18-33
No Corrections Applied

Log Date Depth Range
May 20, 1993 0 - 146'
Jun 3, 1993 100-224'

A-3

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole: 299-W18-251
No Corrections Applied

Log Date Depth Range
Apr 23, 1993 0 - 143'

A-4

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 24, 1993

Borehole: 299-W19-22

No Corrections Applied

A-5

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 24, 1993

Borehole: 299-W23-16

No Corrections Applied

A-6

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch

Log Date: May 10, 1993

Borehole: 299-W23-17

No Corrections Applied

Nal Gamma-Ray Borehole Survey

Project: U-14 Ditch
Borehole: 299-W23-18
No Corrections Applied

Log Date Depth Range
APR 23, 1993 0 - 152'

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APPENDIX I
TEST PIT CHEMISTRY AND RADIOLOGICAL
SEDIMENT DATA

B = Blank.
J = Concentration is estimated.
L = Concentration is below CRQL but above the MDL.
pCi/g = Picocuries/gram.
X = Other.
U = Undetected.

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	0-0.5	B07CC7	6/26/93		1	PCI/G	1	1	140	
ETP-1	0-0.5	B07CC7	6/26/93		1	PCI/G	2	2	140	
ETP-1	0-0.5	B07CC7	6/26/93		1	PCI/G	1	1	140	
ETP-1	0-0.5	B07CC7	6/26/93		0	PCI/G	1	1	140	
ETP-1	0-0.5	B07CC7	6/26/93	Americium-241	1	PCI/G	1	1	147	
ETP-1	0-0.5	B07CC7	6/26/93	Antimony-125	1	PCI/G	3	3	140	
ETP-1	0-0.5	B07CC7	6/26/93	Cesium-137	2740	PCI/G	7	274	140	
ETP-1	0-0.5	B07CC7	6/26/93	Cobalt-60	1	PCI/G	0	0	140	
ETP-1	0-0.5	B07CC7	6/26/93	Plutonium-238	-0	PCI/G	0	1	146	
ETP-1	0-0.5	B07CC7	6/26/93	Plutonium-239/40	10	PCI/G	3	3	146	
ETP-1	0-0.5	B07CC7	6/26/93	Ruthenium-106	-4	PCI/G	5	5	140	
ETP-1	0-0.5	B07CC7	6/26/93	Strontium-90	4	PCI/G	1	1	141	
ETP-1	0-0.5	B07CC7	6/26/93	Technetium-99	12	PCI/G	4	21	143	
ETP-1	0-0.5	B07CC7	6/26/93	Uranium	188	PCI/G	0	70	145	
ETP-1	2-3	B07CD2	6/26/93		1	PCI/G	1	1	138	
ETP-1	2-3	B07CD2	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-1	2-3	B07CD2	6/26/93	Strontium-90	0	PCI/G	0	0	141	
ETP-1	2-4	B07CD3	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	1-Butanol		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	2,4,5-T		UG/KG			49	U
ETP-1	2-4	B07CD3	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-1	2-4	B07CD3	6/26/93	2,4-D		UG/KG			49	U
ETP-1	2-4	B07CD3	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	2-sec-Butyl-4,6-dinitrophenol		UG/KG			49	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	2-4	B07CD3	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Acetone		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Aldrin		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aluminum	*****	UG/KG			34	
ETP-1	2-4	B07CD3	6/26/93	Antimony	6100	UG/KG		2650	34	L
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Arsenic	820	UG/KG		608	43	
ETP-1	2-4	B07CD3	6/26/93	Barium	63000	UG/KG		9750	34	
ETP-1	2-4	B07CD3	6/26/93	Benzene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Benzothiazole		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Beryllium	290	UG/KG		46	34	L
ETP-1	2-4	B07CD3	6/26/93	Beta-BHC		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Cadmium		UG/KG			34	U
ETP-1	2-4	B07CD3	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-1	2-4	B07CD3	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Chlordane		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Chloroform		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Chromium	7100	UG/KG		2750	34	
ETP-1	2-4	B07CD3	6/26/93	Cobalt	6800	UG/KG		1650	34	

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	2-4	B07CD3	6/26/93	Copper	14000	UG/KG		6640	34	
ETP-1	2-4	B07CD3	6/26/93	Decane		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Delta-BHC		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Dieldrin		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Disulfoton		UG/KG			29	U
ETP-1	2-4	B07CD3	6/26/93	Dodecane		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Endosulfan I		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Endosulfan II		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Endrin		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Heptachlor		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-1	2-4	B07CD3	6/26/93	Lead	3400	UG/KG		1180	40	
ETP-1	2-4	B07CD3	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-1	2-4	B07CD3	6/26/93	Manganese	220000	UG/KG		45800	34	
ETP-1	2-4	B07CD3	6/26/93	Methoxychlor		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Methyl parathion		UG/KG			29	U
ETP-1	2-4	B07CD3	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-1	2-4	B07CD3	6/26/93	Naphthalene		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Nickel	6200	UG/KG		2380	34	
ETP-1	2-4	B07CD3	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Phenol		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Phorate		UG/KG			29	U
ETP-1	2-4	B07CD3	6/26/93	Potassium	730000	UG/KG		464000	34	
ETP-1	2-4	B07CD3	6/26/93	Selenium		UG/KG			48	U
ETP-1	2-4	B07CD3	6/26/93	Silver	3100	UG/KG		887	34	
ETP-1	2-4	B07CD3	6/26/93	Sodium	290000	UG/KG		132000	34	
ETP-1	2-4	B07CD3	6/26/93	Sulfide	20000	UG/KG		2860	63	L

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	2-4	B07CD3	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Tetradecane		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Thallium		UG/KG			42	U
ETP-1	2-4	B07CD3	6/26/93	Tin		UG/KG			34	U
ETP-1	2-4	B07CD3	6/26/93	Toluene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Toxaphene		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Trichloroethene		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-1	2-4	B07CD3	6/26/93	Vanadium	68000	UG/KG		16900	34	
ETP-1	2-4	B07CD3	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-1	2-4	B07CD3	6/26/93	Zinc	44000	UG/KG		19900	34	
ETP-1	2-4	B07CD3	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-1	2-4	B07CD3	6/26/93	m-Cresol		UG/KG			19	XU
ETP-1	6-7	B07CD4	6/26/93		-2	PCI/G	1	1	138	
ETP-1	6-7	B07CD4	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-1	6-7	B07CD4	6/26/93	Strontium-90	1	PCI/G	0	0	141	
ETP-1	6-7	B07CD5	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	1-Butanol		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	2,4,5-T		UG/KG			49	U
ETP-1	6-7	B07CD5	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-1	6-7	B07CD5	6/26/93	2,4-D		UG/KG			49	U
ETP-1	6-7	B07CD5	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	2-Nitrophenol		UG/KG			19	U

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	6-7	B07CD5	6/26/93	2-sec-Butyl-4,6-dinitrophenol		UG/KG			49	U
ETP-1	6-7	B07CD5	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Acetone		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Aldrin		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aluminum	*****	UG/KG			34	
ETP-1	6-7	B07CD5	6/26/93	Antimony		UG/KG			34	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1254	7	UG/KG			17	L
ETP-1	6-7	B07CD5	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-1	6-7	B07CD5	6/25/93	Arsenic	1000	UG/KG		741	43	
ETP-1	6-7	B07CD5	6/26/93	Barium	73000	UG/KG		11300	34	
ETP-1	6-7	B07CD5	6/26/93	Benzene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Benzothiazole		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Beryllium	210	UG/KG		33	34	L
ETP-1	6-7	B07CD5	6/26/93	Beta-BHC		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Bis(2-ethylhexyl) phthalate	97	UG/KG			19	L
ETP-1	6-7	B07CD5	6/26/93	Cadmium		UG/KG			34	U
ETP-1	6-7	B07CD5	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-1	6-7	B07CD5	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Chlordane		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Chloroform		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Chromium	5800	UG/KG		2240	34	

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	6-7	B07CD5	6/26/93	Cobalt	5100	UG/KG		1240	34	
ETP-1	6-7	B07CD5	6/26/93	Copper	14000	UG/KG		6640	34	
ETP-1	6-7	B07CD5	6/26/93	Decane		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Delta-BHC		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Dieldrin		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Disulfoton		UG/KG			29	U
ETP-1	6-7	B07CD5	6/26/93	Dodecane		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Endosulfan I		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Endosulfan II		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Endrin		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Heptachlor		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-1	6-7	B07CD5	6/26/93	Lead	3600	UG/KG		1250	40	
ETP-1	6-7	B07CD5	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-1	6-7	B07CD5	6/26/93	Manganese	220000	UG/KG		45800	34	
ETP-1	6-7	B07CD5	6/26/93	Methoxychlor		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Methyl parathion		UG/KG			29	U
ETP-1	6-7	B07CD5	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-1	6-7	B07CD5	6/26/93	Naphthalene		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Nickel	5000	UG/KG		1920	34	
ETP-1	6-7	B07CD5	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Phenol		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Phorate		UG/KG			29	U
ETP-1	6-7	B07CD5	6/26/93	Potassium	570000	UG/KG		363000	34	
ETP-1	6-7	B07CD5	6/26/93	Selenium		UG/KG			48	U
ETP-1	6-7	B07CD5	6/26/93	Silver	2700	UG/KG		773	34	
ETP-1	6-7	B07CD5	6/26/93	Sodium	290000	UG/KG		132000	34	

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-1	6-7	B07CD5	6/26/93	Sulfide	10000	UG/KG		1430	63	L
ETP-1	6-7	B07CD5	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Tetradecane		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Thallium		UG/KG			42	U
ETP-1	6-7	B07CD5	6/26/93	Tin		UG/KG			34	U
ETP-1	6-7	B07CD5	6/26/93	Toluene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Toxaphene		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Trichloroethene		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-1	6-7	B07CD5	6/26/93	Vanadium	46000	UG/KG		11400	34	
ETP-1	6-7	B07CD5	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-1	6-7	B07CD5	6/26/93	Zinc	40000	UG/KG		18100	34	
ETP-1	6-7	B07CD5	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-1	6-7	B07CD5	6/26/93	m-Cresol		UG/KG			19	XU
ETP-2	0.5-1	B07CC4	6/26/93	Strontium-90	0	PCI/G	0	0	141	
ETP-2	3-4	B07CC5	6/26/93		-0	PCI/G	0	0	138	
ETP-2	3-4	B07CC5	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-2	3-4	B07CC5	6/26/93	Strontium-90	0	PCI/G	0	0	141	
ETP-2	3-4	B07CC6	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	1-Butanol		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	2,4,5-T		UG/KG			49	U
ETP-2	3-4	B07CC6	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-2	3-4	B07CC6	6/26/93	2,4-D		UG/KG			49	U
ETP-2	3-4	B07CC6	6/26/93	2,4-Dichlorophenol		UG/KG			19	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4	B07CC6	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	2-sec-Butyl-4,6-dinitrophenol		UG/KG			49	U
ETP-2	3-4	B07CC6	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Acetone		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Aldrin		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aluminum	*****	UG/KG			34	
ETP-2	3-4	B07CC6	6/26/93	Antimony	6200	UG/KG		2700	34	L
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Arsenic	1400	UG/KG		1040	43	
ETP-2	3-4	B07CC6	6/26/93	Barium	86000	UG/KG		13300	34	
ETP-2	3-4	B07CC6	6/26/93	Benzene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Benzothiazole		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Beryllium	230	UG/KG		36	34	L
ETP-2	3-4	B07CC6	6/26/93	Beta-BHC		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Cadmium		UG/KG			34	U
ETP-2	3-4	B07CC6	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-2	3-4	B07CC6	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Chlordane		UG/KG			17	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4	B07CC6	6/26/93	Chloroform		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Chromium	7100	UG/KG		2750	34	
ETP-2	3-4	B07CC6	6/26/93	Cobalt	7100	UG/KG		1730	34	
ETP-2	3-4	B07CC6	6/26/93	Copper	15000	UG/KG		7110	34	
ETP-2	3-4	B07CC6	6/26/93	Decane		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Delta-BHC		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Dieldrin		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Disulfoton		UG/KG			29	U
ETP-2	3-4	B07CC6	6/26/93	Dodecane		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Endosulfan I		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Endosulfan II		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Endrin		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Heptachlor		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-2	3-4	B07CC6	6/26/93	Lead	2300	UG/KG		800	40	
ETP-2	3-4	B07CC6	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-2	3-4	B07CC6	6/26/93	Manganese	290000	UG/KG		60400	34	
ETP-2	3-4	B07CC6	6/26/93	Methoxychlor		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Methyl parathion		UG/KG			29	U
ETP-2	3-4	B07CC6	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-2	3-4	B07CC6	6/26/93	Naphthalene		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Nickel	6000	UG/KG		2300	34	
ETP-2	3-4	B07CC6	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Phenol		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Phorate		UG/KG			29	U
ETP-2	3-4	B07CC6	6/26/93	Potassium	600000	UG/KG		382000	34	
ETP-2	3-4	B07CC6	6/26/93	Selenium		UG/KG			48	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4	B07CC6	6/26/93	Silver	3300	UG/KG		944	34	
ETP-2	3-4	B07CC6	6/26/93	Sodium	320000	UG/KG		146000	34	
ETP-2	3-4	B07CC6	6/26/93	Sulfide	20000	UG/KG		2860	63	L
ETP-2	3-4	B07CC6	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Tetradecane		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Thallium		UG/KG			42	U
ETP-2	3-4	B07CC6	6/26/93	Tin		UG/KG			34	U
ETP-2	3-4	B07CC6	6/26/93	Toluene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Toxaphene		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Trichloroethene		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-2	3-4	B07CC6	6/26/93	Vanadium	66000	UG/KG		16400	34	
ETP-2	3-4	B07CC6	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-2	3-4	B07CC6	6/26/93	Zinc	42000	UG/KG		19000	34	
ETP-2	3-4	B07CC6	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-2	3-4	B07CC6	6/26/93	m-Cresol		UG/KG			19	XU
ETP-2	3-4 DUP	B07CC8	6/26/93		-0	PCI/G	1	1	138	
ETP-2	3-4 DUP	B07CC8	6/26/93	Americium-241	0	PCI/G	0	0	147	
ETP-2	3-4 DUP	B07CC8	6/26/93	Plutonium-238	0	PCI/G	0	0	146	
ETP-2	3-4 DUP	B07CC8	6/26/93	Plutonium-239/40	0	PCI/G	0	0	146	
ETP-2	3-4 DUP	B07CC8	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-2	3-4 DUP	B07CC8	6/26/93	Strontium-90	0	PCI/G	0	0	141	
ETP-2	3-4 DUP	B07CC9	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	1-Butanol		UG/KG			16	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4 DUP	B07CC9	6/26/93	2,4,5-T		UG/KG			49	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2,4-D		UG/KG			49	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	2-sec-Butyl-4,6-dinitropheno		UG/KG			49	U
ETP-2	3-4 DUP	B07CC9	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Acetone		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aldrin		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aluminum	*****	UG/KG			34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Antimony		UG/KG			34	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Arsenic	1500	UG/KG		1110	43	
ETP-2	3-4 DUP	B07CC9	6/26/93	Barium	85000	UG/KG		13200	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Benzene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Benzothiazole		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Beryllium	230	UG/KG		36	34	L
ETP-2	3-4 DUP	B07CC9	6/26/93	Beta-BHC		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Cadmium		UG/KG			34	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4 DUP	B07CC9	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Chlordane		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Chloroform		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Chromium	5800	UG/KG		2240	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Cobalt	6600	UG/KG		1610	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Copper	15000	UG/KG		7110	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Decane		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Delta-BHC		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Dieldrin		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Disulfoton		UG/KG			29	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Dodecane		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Endosulfan I		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Endosulfan II		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Endrin		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Heptachlor		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Lead	2100	UG/KG		731	40	
ETP-2	3-4 DUP	B07CC9	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Manganese	280000	UG/KG		58300	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Methoxychlor		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Methyl parathion		UG/KG			29	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-2	3-4 DUP	B07CC9	6/26/93	Naphthalene		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Nickel	6200	UG/KG		2380	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Pentachlorophenol		UG/KG			19	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	3-4 DUP	B07CC9	6/26/93	Phenol		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Phorate		UG/KG			29	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Potassium	450000	UG/KG		286000	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Selenium		UG/KG			48	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Silver	2900	UG/KG		830	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Sodium	290000	UG/KG		132000	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Sulfide	30000	UG/KG		4280	63	L
ETP-2	3-4 DUP	B07CC9	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Tetradecane		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Thallium		UG/KG			42	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Tin		UG/KG			34	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Toluene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Toxaphene		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Trichloroethene		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Vanadium	62000	UG/KG		15400	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-2	3-4 DUP	B07CC9	6/26/93	Zinc	42000	UG/KG		19000	34	
ETP-2	3-4 DUP	B07CC9	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-2	3-4 DUP	B07CC9	6/26/93	m-Cresol		UG/KG			19	XU
ETP-2	6-8	B07CD0	6/26/93		-0	PCI/G	1	1	138	
ETP-2	6-8	B07CD0	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-2	6-8	B07CD0	6/26/93	Strontium-90	0	PCI/G	0	0	141	
ETP-2	6-8	B07CD1	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	6-8	B07CD1	6/26/93	1-Butanol		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	2,4,5-T		UG/KG			49	U
ETP-2	6-8	B07CD1	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-2	6-8	B07CD1	6/26/93	2,4-D		UG/KG			49	U
ETP-2	6-8	B07CD1	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	2-sec-Butyl-4,6-dinitrophenol		UG/KG			49	U
ETP-2	6-8	B07CD1	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Acetone		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Aldrin		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aluminum	*****	UG/KG			34	
ETP-2	6-8	B07CD1	6/26/93	Antimony	7000	UG/KG		3050	34	L
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Arsenic	2200	UG/KG		1630	43	
ETP-2	6-8	B07CD1	6/26/93	Barium	73000	UG/KG		11300	34	
ETP-2	6-8	B07CD1	6/26/93	Benzene		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Benzothiazole		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Beryllium	250	UG/KG		39	34	L
ETP-2	6-8	B07CD1	6/26/93	Beta-BHC		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	6-8	B07CD1	6/26/93	Cadmium		UG/KG			34	U
ETP-2	6-8	B07CD1	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-2	6-8	B07CD1	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Chlordane		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Chloroform		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Chromium	8800	UG/KG		3410	34	
ETP-2	6-8	B07CD1	6/26/93	Cobalt	7300	UG/KG		1780	34	
ETP-2	6-8	B07CD1	6/26/93	Copper	14000	UG/KG		6640	34	
ETP-2	6-8	B07CD1	6/26/93	Decane		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Delta-BHC		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Dieldrin		UG/KG			17	U
ETP-2	6-8	307CD1	6/26/93	Disulfoton		UG/KG			29	U
ETP-2	6-8	B07CD1	6/26/93	Dodecane		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Endosulfan I		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Endosulfan II		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Endrin		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Heptachlor		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-2	6-8	B07CD1	6/26/93	Lead	2400	UG/KG		835	40	
ETP-2	6-8	B07CD1	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-2	6-8	B07CD1	6/26/93	Manganese	330000	UG/KG		68700	34	
ETP-2	6-8	B07CD1	6/26/93	Methoxychlor		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Methyl parathion		UG/KG			29	U
ETP-2	6-8	B07CD1	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-2	6-8	B07CD1	6/26/93	Naphthalene		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Nickel	11000	UG/KG		4220	34	

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-2	6-8	B07CD1	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Phenol		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Phorate		UG/KG			29	U
ETP-2	6-8	B07CD1	6/26/93	Potassium	690000	UG/KG		439000	34	
ETP-2	6-8	B07CD1	6/26/93	Selenium		UG/KG			48	U
ETP-2	6-8	B07CD1	6/26/93	Silver	3300	UG/KG		944	34	
ETP-2	6-8	B07CD1	6/26/93	Sodium	260000	UG/KG		119000	34	
ETP-2	6-8	B07CD1	6/26/93	Sulfide	20000	UG/KG		2860	63	L
ETP-2	6-8	B07CD1	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Tetradecane		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Thallium	120	UG/KG		91	42	L
ETP-2	6-8	B07CD1	6/26/93	Tin		UG/KG			34	U
ETP-2	6-8	B07CD1	6/26/93	Toluene		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Toxaphene		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Trichloroethene		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-2	6-8	B07CD1	6/26/93	Vanadium	68000	UG/KG		16900	34	
ETP-2	6-8	B07CD1	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-2	6-8	B07CD1	6/26/93	Zinc	44000	UG/KG		19900	34	
ETP-2	6-8	B07CD1	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-2	6-8	B07CD1	6/26/93	m-Cresol		UG/KG			19	XU
ETP-3	0-0.5	B07CC2	6/26/93	Strontium-90	1	PCI/G	0	0	141	
ETP-3	2-4	B07CC0	6/26/93		-2	PCI/G	1	1	138	
ETP-3	2-4	B07CC0	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-3	2-4	B07CC0	6/26/93	Strontium-90	1	PCI/G	0	0	141	
ETP-3	2-4	B07CC1	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	1,2-Dichloroethane		UG/KG			16	U

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	2-4	B07CC1	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	1-Butanol		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	2,4,5-T		UG/KG			49	U
ETP-3	2-4	B07CC1	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-3	2-4	B07CC1	6/26/93	2,4-D		UG/KG			49	U
ETP-3	2-4	B07CC1	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	2-sec-Butyl-4,6-dinitropheno		UG/KG			49	U
ETP-3	2-4	B07CC1	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Acetone	12	UG/KG			16	L
ETP-3	2-4	B07CC1	6/26/93	Aldrin		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aluminum	*****	UG/KG			34	
ETP-3	2-4	B07CC1	6/26/93	Antimony	6500	UG/KG		2830	34	L
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Aroclor-1260		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Arsenic	1400	UG/KG		1040	43	
ETP-3	2-4	B07CC1	6/26/93	Barium	65000	UG/KG		10100	34	
ETP-3	2-4	B07CC1	6/26/93	Benzene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Benzothiazole		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Beryllium	220	UG/KG		35	34	L

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	2-4	B07CC1	6/26/93	Beta-BHC		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Cadmium		UG/KG			34	U
ETP-3	2-4	B07CC1	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-3	2-4	B07CC1	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Chlordane		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Chloroform		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Chromium	6900	UG/KG		2670	34	
ETP-3	2-4	B07CC1	6/26/93	Cobalt	6100	UG/KG		1480	34	
ETP-3	2-4	B07CC1	6/26/93	Copper	14000	UG/KG		6640	34	
ETP-3	2-4	B07CC1	6/26/93	Decane		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Delta-BHC		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Dieldrin		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Disulfoton		UG/KG			29	U
ETP-3	2-4	B07CC1	6/26/93	Dodecane		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Endosulfan I		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Endosulfan II		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Endrin		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Heptachlor		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-3	2-4	B07CC1	6/26/93	Lead	2900	UG/KG		1010	40	
ETP-3	2-4	B07CC1	6/26/93	Magnesium	*****	UG/KG		*****	34	
ETP-3	2-4	B07CC1	6/26/93	Manganese	240000	UG/KG		50000	34	
ETP-3	2-4	B07CC1	6/26/93	Methoxychlor		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Methyl parathion		UG/KG			29	U
ETP-3	2-4	B07CC1	6/26/93	Methylene chloride	2	UG/KG			16	BL

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	2-4	B07CC1	6/26/93	Naphthalene		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Nickel	4400	UG/KG		1690	34	
ETP-3	2-4	B07CC1	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Phenol		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Phorate		UG/KG			29	U
ETP-3	2-4	B07CC1	6/26/93	Potassium	560000	UG/KG		356000	34	
ETP-3	2-4	B07CC1	6/26/93	Selenium		UG/KG			48	U
ETP-3	2-4	B07CC1	6/26/93	Silver	2900	UG/KG		830	34	
ETP-3	2-4	B07CC1	6/26/93	Sodium	290000	UG/KG		132000	34	
ETP-3	2-4	B07CC1	6/26/93	Sulfide	20000	UG/KG		2860	63	L
ETP-3	2-4	B07CC1	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Tetradecane		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Thallium		UG/KG			42	U
ETP-3	2-4	B07CC1	6/26/93	Tin		UG/KG			34	U
ETP-3	2-4	B07CC1	6/26/93	Toluene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Toxaphene		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Trichloroethene		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-3	2-4	B07CC1	6/26/93	Vanadium	60000	UG/KG		14900	34	
ETP-3	2-4	B07CC1	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-3	2-4	B07CC1	6/26/93	Zinc	40000	UG/KG		18100	34	
ETP-3	2-4	B07CC1	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-3	2-4	B07CC1	6/26/93	m-Cresol		UG/KG			19	XU
ETP-3	6-8	B07CC3	6/26/93	Strontium-90	1	PCI/G	0	0	141	
ETP-3	9-10	B07CB8	6/26/93		0	PCI/G	0	0	138	
ETP-3	9-10	B07CB8	6/26/93	Radium	1	PCI/G	0	0	137	
ETP-3	9-10	B07CB8	6/26/93	Strontium-90	1	PCI/G	0	0	141	
ETP-3	9-10	B07CB9	6/26/93			UG/KG			51	U
ETP-3	9-10	B07CB9	6/26/93			UG/KG			51	U

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	9-10	B07CB9	6/26/93	1,1,1-Trichloroethane		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1,1,2-Trichloroethane		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1,1-Dichloroethane		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1,2-Dichloroethane		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1,2-Dichloroethene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1,4-Dichlorobenzene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	1-Butanol		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	2,3,7,8-TCDD		UG/KG			51	U
ETP-3	9-10	B07CB9	6/26/93	2,4,5-T		UG/KG			49	U
ETP-3	9-10	B07CB9	6/26/93	2,4,5-TP		UG/KG			49	U
ETP-3	9-10	B07CB9	6/26/93	2,4-D		UG/KG			49	U
ETP-3	9-10	B07CB9	6/26/93	2,4-Dichlorophenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	2-Methylphenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	2-Nitrophenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	2-sec-Butyl-4,6-dinitrophenol		UG/KG			49	U
ETP-3	9-10	B07CB9	6/26/93	4,4'-DDD		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	4,4'-DDE		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	4,4'-DDT		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	4-Methyl-2-pentanone		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	4-Methylphenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Acetone		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Aldrin		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Alpha-BHC		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aluminum	*****	UG/KG			34	
ETP-3	9-10	B07CB9	6/26/93	Antimony		UG/KG			34	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1016		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1221		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1232		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1242		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1248		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1254		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Aroclor-1260		UG/KG			17	U

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	9-10	B07CB9	6/26/93	Arsenic	1100	UG/KG		815	43	
ETP-3	9-10	B07CB9	6/26/93	Barium	67000	UG/KG		10400	34	
ETP-3	9-10	B07CB9	6/26/93	Benzene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Benzothiazole		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Beryllium	310	UG/KG		49	34	
ETP-3	9-10	B07CB9	6/26/93	Beta-BHC		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Bis(2-ethylhexyl) phthalate		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Cadmium		UG/KG			34	U
ETP-3	9-10	B07CB9	6/26/93	Calcium	*****	UG/KG		*****	34	
ETP-3	9-10	B07CB9	6/26/93	Carbon disulfide		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Carbon tetrachloride		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Chlordane		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Chloroform		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Chromium	6700	UG/KG		2590	34	
ETP-3	9-10	B07CB9	6/26/93	Cobalt	6900	UG/KG		1680	34	
ETP-3	9-10	B07CB9	6/26/93	Copper	15000	UG/KG		7110	34	
ETP-3	9-10	B07CB9	6/26/93	Decane		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Delta-BHC		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Dieldrin		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Disulfoton		UG/KG			29	U
ETP-3	9-10	B07CB9	6/26/93	Dodecane		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Endosulfan I		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Endosulfan II		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Endosulfan sulfate		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Endrin		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Endrin Aldehyde		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Ethyl cyanide		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Heptachlor		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Heptachlor epoxide		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Iron	*****	UG/KG		*****	34	
ETP-3	9-10	B07CB9	6/26/93	Lead	2600	UG/KG		905	40	
ETP-3	9-10	B07CB9	6/26/93	Magnesium	*****	UG/KG		*****	34	

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TEST PIT SOIL DATA FOR THE 216-U-14 DITCH

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Test Pit	Depth In Feet	Sample No	Collect Date	Compound	Result	Units	Counting Error	Total Error	Method	Qualifier
ETP-3	9-10	B07CB9	6/26/93	Manganese	310000	UG/KG		64500	34	
ETP-3	9-10	B07CB9	6/26/93	Methoxychlor		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Methyl ethyl ketone		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Methyl parathion		UG/KG			29	U
ETP-3	9-10	B07CB9	6/26/93	Methylene chloride	1	UG/KG			16	BL
ETP-3	9-10	B07CB9	6/26/93	Naphthalene		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Nickel	6100	UG/KG		2340	34	
ETP-3	9-10	B07CB9	6/26/93	Pentachlorophenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Phenol		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Phorate		UG/KG			29	U
ETP-3	9-10	B07CB9	6/26/93	Potassium	630000	UG/KG		401000	34	
ETP-3	9-10	B07CB9	6/26/93	Selenium		UG/KG			48	U
ETP-3	9-10	B07CB9	6/26/93	Silver	3200	UG/KG		916	34	
ETP-3	9-10	B07CB9	6/26/93	Sodium	320000	UG/KG		146000	34	
ETP-3	9-10	B07CB9	6/26/93	Sulfide	40000	UG/KG		5710	63	LB
ETP-3	9-10	B07CB9	6/26/93	Tetrachloroethene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Tetradecane		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Tetrahydrofuran		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Thallium		UG/KG			42	U
ETP-3	9-10	B07CB9	6/26/93	Tin		UG/KG			34	U
ETP-3	9-10	B07CB9	6/26/93	Toluene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Toxaphene		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	Tributyl Phosphate		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Trichloroethene		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Tris-2-chloroethyl phosphate		UG/KG			19	U
ETP-3	9-10	B07CB9	6/26/93	Vanadium	67000	UG/KG		16700	34	
ETP-3	9-10	B07CB9	6/26/93	Vinyl chloride		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Xylenes (total)		UG/KG			16	U
ETP-3	9-10	B07CB9	6/26/93	Zinc	46000	UG/KG		20800	34	
ETP-3	9-10	B07CB9	6/26/93	gamma-BHC (Lindane)		UG/KG			17	U
ETP-3	9-10	B07CB9	6/26/93	m-Cresol		UG/KG			19	XU

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APPENDIX J

TWO-DIMENSIONAL MODEL RESULTS--PORFLO-3

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DON'T SAY IT --- Write It!

DATE: January 20, 1994

TO: Kevin Singleton H6-06

FROM: Niall Kline H0-36

Telephone: 376-8080

cc: John A. Rawlins H0-36
Rich Hirano B5-25

SUBJECT: 216-U-14 DITCH MODELLING

Attached is the final draft, including your revisions, of my write up of numerical modelling performed to date in support of the Groundwater Impact Assessment for the 216-U-14 Ditch. Please do not hesitate to contact me if there are any questions or comments.

This appendix includes results of some limited numerical modelling of vadose zone flow and transport due to operation of the 216-U-14 Ditch. The numerical modelling effort was complicated by the lack of known input parameters (e.g., source term, chemical and radiological inventory), and the suspected occurrence of preferential pathways.

Spatial Domain

The model domain for the 216-U-14 Ditch is taken along the eastern end of the ditch because this portion of the ditch has received most of the wastewater discharge since 1986. The longitudinal stratigraphy beneath the eastern end of the ditch is drawn from logs of wells 299-W19-91, 92 and 93 and is shown in Figure J-1. The thickness of the section is taken to be 2.4 m (8 ft), the base width of the ditch. The idealized representation of the layering in the cross-section is shown in Figure J-2. The model domain includes the approximate locations of the perched water wells (299-W19-91, -92 and -93), and extends vertically from the water table to the approximate bottom of the ditch. The total vertical extent of the model domain is 63.7 m (209 ft).

Each region of (assumed or inferred) homogeneous soil in the domain is called a "zone". Thirteen distinct zones are distinguished in the present model and are denoted by zone numbers 1 through 13 as shown in bold type in Figure J-2. These zones correspond to the "layers" identified in Figure J-1, but are approximated as rectangular regions. Each zone is generally unique in some way, and this is typically reflected in assignment of values for physical properties.

Physical Properties

Soil samples from some of the new wells in the vicinity of the 216-U-14 Ditch provide the basis for estimating values for some of the physical properties represented in the numerical model. Fitted wetting and drying curves describing the relationship between matrix potential and volumetric moisture content based on the van Genuchten (1978) formulation are shown for six samples in Figures J-3 through J-8. Associated unsaturated hydraulic conductivity is calculated from the Mualem (1976) theory. Assignment of the hydraulic parameter values from discrete sample points to material property zones in the model is summarized in Table J-1. Assignment of sample properties to zones is generally performed by matching sample textural descriptions to textural descriptions of the zones. For the present case, samples from new boreholes in the vicinity of the ditch which have been analyzed for hydraulic properties are generally representative of the lower units in the model. For the upper layers of the model domain (upper Hanford formation), some property assignments have been reused from the modelling reported in the groundwater impact assessment report recently prepared for the nearby 216-U-17 Crib (Reidel et al., 1993). All of the new data shown in Table J-1 is taken from Figures J-3 through J-8. Otherwise the sample data is available from Connelly et al. (1992).

Saturated volumetric moisture content during soil wetting and residual volumetric moisture content for all zones are displayed in Table J-2. These parameters are not input directly to the numerical model, but are used to

Figure J-1. Stratigraphy Beneath the 216-U-14 Ditch in Wells 299-W19-91, 299-W19-92, and 299-W19-93.

H9312013.2

Figure J-2. Idealized Longitudinal Cross-Section of Stratigraphy Beneath the 216-U-14 Ditch at Wells 299-W19-91, 299-W19-92, and 299-W19-93.

Figure J-3. Moisture Characteristic Curves Zones 5 and 6.

Figure J-4. Moisture Characteristic Curves Zones 8.

Figure J-5. Moisture Characteristic Curves Zones 9.

Figure J-6. Moisture Characteristic Curves Zones 10.

Figure J-7. Moisture Characteristic Curves Zones 11.

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Figure J-8. Moisture Characteristic Curves Zones 12.

Table J-1. Hydraulic Properties for 216-U-14 Ditch Model

Zone	Borehole	Depth (m)	Sample	α (m)	n	K_{sat} (m/yr)	Wetting/ Drying	Remarks
1	299-W10-13	18.3	0-169	0.1287	1.6829	0.72	W	U-17 Zone 2
2	299-W10-13	24.4	-	0.0359	1.3713	8520.6	D	U-17 Zone 4
3	299-W10-13	18.3	0-169	0.1287	1.6829	0.72	W	U-17 Zone 2
4	299-W10-13	12.2	0-168	0.1295	2.4706	1.22	W	
5 & 6	299-W7-9	19.8	0-072	0.9091	1.7158	1.17	W	Figure 5-3
7	299-W10-13	24.4	-	0.0359	1.3713	8520.6	D	U-17 Zone 4
8	299-W23-17	25.7	3-0928	0.9009	2.1483	19.79	W	Figure 5-4
9	299-W18-33	33.1	3-1129	0.578	3.0704	9.28	W	Figure 5-5
10	299-W18-251	29.6	3-0822	0.8475	1.6077	0.05	W	Figure 5-6
11	299-W18-33	39.8	3-1130	0.9346	2.1414	1.21	W	Figure 5-7
12	299-W18-33	51.9	3-1132	1.0989	1.3761	987.8	W	Figure 5-8
13	299-W15-2	30.5	0-170	0.0943	1.4734	39.5	W	U-17 Zone 8

Table J-2. Volumetric Moisture Content
for 216-U-14 Ditch Model

Zone	Wetting Saturation (θ_{sat})	Residual (θ_{res})
1	0.1931	0.023
2*	0.4955	0.102
3	0.1931	0.023
4	0.2539	0.062
5 & 6	0.3327	0
7*	0.4955	0.102
8	0.3692	0.051
9	0.3654	0.039
10	0.4337	0.030
11	0.3968	0.044
12	0.1160	0
13	0.2274	0.041

* Zones 2 and 7 are represented by drying curve data.

infer porosity. Total porosity is taken to be the same as saturated volumetric moisture content. Porosities used in the numerical model are shown in Table J-3.

Table J-3 also contains estimates of bulk density for zones with properties that are reused from the recent analysis of flow from the 216-U-17 Crib. In the absence of an estimate of bulk density, the default value used in the numerical model is 2,000 kilograms per cubic meter.

Initial and Boundary Conditions

Initial soil moisture tension prior to discharges to the ditch is estimated from the wetting curves and is shown along with initial volumetric moisture content, by zone, in Table J-4. These initial flow conditions are based on a soil moisture recharge rate of $q=10$ cm/yr (4 in./yr) due to net infiltration of precipitation from ground surface, and an assumed unit hydraulic gradient. Although the assumed recharge rate of $q=10$ cm/yr (4 in./yr) might be high, it is a modelling convenience in minimizing adverse computational effects from the nonlinear unsaturated (Richard's) flow equation. Moreover, it is very small compared to the discharges to the ditch and is not considered significant.

Boundary conditions are very similar to those used for the recent 216-U-17 Crib model (Reidel et al. 1993), and are summarized in Figure J-9. Distinguishing features here are that the model domain is restricted to the vadose zone, and the entire top surface of the model (at $z=63.7$ m [209 ft] above the water table) is overlain by the ditch floor and receives effluent. The north end boundary at $y=50$ m (162 ft) is intended to allow some drainage while symmetry is imposed at the south end (at $y=-80$ m [262 ft]). The "front" and "back" faces of the cross-sectional slice are also assigned the leaky boundary condition for flow, which is unique to the PORFLO-3 code (Runchal et al. 1992) used to implement the model.

Results and Discussion

Starting from the above described conditions, and simulating steady state flow at the initial recharge rate of $q=10$ cm/yr (4 in./yr) to smooth the constant initial pressure heads (Table J-4) into a differentiable head field from which to start transient flow, the two dimensional moisture distribution shown in Figure J-10 is obtained. Development of the large saturated (perched water) zone in the lower Hanford formation fines with recharge at 10 cm/yr (4 in./yr) is obvious from the hydraulic properties listed in Table J-1. The saturated hydraulic conductivity assigned to the main layer of the lower Hanford formation (zone 10) is 5 cm/yr (2 in./yr). Some of the other zones (e.g. zones 1, 3, 4, 5, and 6) also have relatively low saturated hydraulic conductivities. Given the typical high rates of discharge to the ditch, the sediment column is virtually saturated. The "leaky" boundary conditions on the front and back faces allow some outflow at saturation, but the amount is probably insignificant compared to actual lateral flow. If the hydraulic conductivity assignments are reasonable, then flow transverse to the ditch must admit nearly all of the flux from the ditch laterally through the layering (high anisotropy). If the effective hydraulic conductivity of the

Table J-3. Soil Properties for 216-U-14 Ditch Model

Zone	Effective Porosity (ϕ_e)	Total Porosity (ϕ_t)	Diffusive Porosity (ϕ_b)	Bulk Density (kg/m^3)
1	0.17	0.193	0.193	1800
2	0.394	0.496	0.496	2200
3	0.17	0.193	0.193	1800
4	0.192	0.254	0.254	
5 & 6	0.333	0.333	0.333	
7	0.394	0.496	0.496	2200
8	0.318	0.369	0.369	
9	0.326	0.365	0.365	
10	0.404	0.434	0.434	
11	0.353	0.397	0.397	
12	0.116	0.116	0.116	
13	0.186	0.227	0.227	1800

Table J-4. Initial Soil Moisture and Head Conditions
Based on 10 cm/yr Recharge Rate

Zone	θ	Ψ (m)
1	0.17	-0.09
2	0.22	-0.90
3	0.17	-0.09
4	0.19	-0.15
5 & 6	0.26	-0.80
7	0.22	-0.90
8	0.17	-2.0
9	0.15	-0.90
10	0.43	-0.05
11	0.29	-1.0
12	0.05	-8.5
13	0.14	-0.35

Figure J-9. Summary of Boundary Conditions for the 216-U-14 Ditch.

Figure J-10. Simulated Steady State Pressure Heads.

soil column is much greater than that represented in the model, then the perched water zone would not be as prominent, as demonstrated by field data, or might not develop at all. The assigned conductivities were the best available estimates at the time the simulations described herein were run.

As depicted in Figure J-10, the simulation was continued by first allowing the model to drain to a new steady state at a more representative recharge rate of $q=1$ cm/yr (0.4 in./yr) and then starting at the beginning of discharges to the ditch in 1944. From 1944 to 1986 the average infiltration through the ditch floor to the soil column is taken to be 5 gal/ft²/day. Although delivery to the soil column is more accurately represented by a sequence of pulses, the net effect of the sequence of pulses is a wetting front that moves indistinguishably from a wetting front driven by the constant average discharge (Reidel et al. 1993). Since contaminant discharge histories are incomplete, transport of dissolved conservative (non-decaying, non-sorbing) species is modelled as relative concentration (C/C_0). This provides breakthrough times, travel times, and peak relative concentrations, and is performed by simply setting unit concentration at the top boundary (i.e., $C_0=1$ in Figure J-9). The coefficient of molecular diffusion is taken to be 0.03 m²/yr (0.32 ft²/yr), and the longitudinal and transverse dispersivities are set to 1 m (3.3 ft) and 10 cm (3.9 in.), respectively.

In 1986 the fluid discharge rate to the soil column is increased due to shortening of the ditch, and in the model this is represented by a step change in the top boundary condition from 5 to 42 gal/ft²/day. At the same time, introduction of contaminant to the soil column through the ditch is assumed to stop. After 1995, fluid discharges to the ditch are also assumed to stop. The model runs as far as the year 2025 to allow visualization of the penetration of moisture and the fate of relative contaminant concentration. Since contaminant mass transport is dominated by advection in the model, the sequence of relative concentration contour plots shown in Figures J-11 through J-15 are sufficient to summarize the results of both flow and transport. Figure J-11 shows the effect of the constant uniform driving force from 1944 through 1986. The irregularity along the leading ("bottom") edge of the plume in Figure J-11 is due to changes in physical properties at zone boundaries (Figure J-2). Figure J-12 shows the approximate present distribution of relative concentration, generally with center of mass vertically in the Hanford formation gravels, after several years of flushing at the elevated infiltration rate without further introduction of contaminant. Figures J-13 through J-15 show the dissipating plume in 1995 when discharges cease and the subsequent more gradual dissipation thereafter.

Time history of simulated relative saturation at selected elevations near the approximate location of well 299-W19-92 is shown in Figure J-16. The elevated discharge rate from 1986 to 1995 is clearly reflected in Figure J-16 by the curve at $z=55.5$ m ("dash dot" curve), which is about eight meters beneath the ditch floor. Response in the Early Palouse/Plio-Pleistocene (EP/PP) however is much slower as shown by the curve at $z=16$ m ("dash dot dot" curve). Indeed, Figure J-16 indicates the start up of discharge to the ditch does not cause an appreciable increase in relative saturation in the EP/PP for almost forty years, and response to the increased discharge rate from 1986 to 1995 in the EP/PP does not occur before the year 2025. The transport time of contaminants with $K_d > 0$ would be even longer, suggesting most of the

Figure J-11. Simulated Relative Concentration of Conservative Species Under the Ditch in 1986.

Figure J-12. Simulated Relative Concentration of Conservative Species Under the Ditch in 1993.

Figure J-13. Simulated Relative Concentration of Conservative Species Under the Ditch in 1995.

Figure J-14. Simulated Relative Concentration of Conservative Species Under the Ditch in 2005.

Figure J-15. Simulated Relative Concentration of Conservative Species Under the Ditch in 2025.

Figure J-16. Simulated Relative Saturation--Time Histories at Selected Elevations Near Well 299-W19-92.

contaminants of concern would be retained in the soil column above the EP/PP elevation. However, the existence of poorly sealed well casings or natural vertical pathways could result in localized breakthrough to groundwater.

The anisotropy induced by the layering should also be noted. In particular, the lower Hanford formation fines (zone 10) cause a lateral diversion of flow through the highly conductive overlying Hanford formation gravels (assuming the saturated hydraulic conductivity of 5 cm/yr assigned to this layer is appropriate for the fine sand, silt and clayey silt layers comprising the lower Hanford fines).

Of special note are model modifications implemented to accommodate the pronounced lateral flow over the lower Hanford formation fines and out of the overlying gravels. First, the boundaries around the perched water zone were set to prescribed total head (equal to elevation above the water table) for the duration of discharges through the ditch. Otherwise the boundary conditions are as discussed previously. Secondly, anisotropy of magnitude 1000 was used assuming that only one in one thousand parts of the fluid infiltrating through the ditch floor constituted vertical flow; 99.9 percent of the fluid was assumed to flow out of the sides of the model and only 0.1 percent of the assumed infiltration rate from 1944 to 1995 was assumed to flow down through the 8-foot thick planar slice that constitutes the model domain. Justification of this 2-D approach is provided in Figure J-17, which shows similar response in the EP/PP *with no assumed anisotropy* (100% of assumed driving forces). For the latter (fully isotropic) case, response in the upper units is faster, but not in the lower units because of the impedance to downward vertical flow due to the lower Hanford formation fines; the net effect is greater (lateral) outflow through the Hanford formation gravels. In fact, in the latter case the hydraulic gradients became so steep as to necessitate time steps so small that the simulation finally terminated around 1980 (before the step increase in discharge rate).

Conclusions

The development of a perched water layer in the Hanford formation suggested by the PORFLO-3 model simulations (Figures J-13 through J-17), is in general consistent with observations summarized in the conceptual model (Section 4.8). However, the observed perched water distribution is less extensive and more irregular than implied by the modeling results. This may be because the PORFLO-3 simulations assume 1) laterally continuous sedimentary layers and 2) homogeneous hydraulic conductivities within each layer; i.e., preferential pathways are not accounted for. Indeed, the occurrence of less extensive perched water than predicted is indirect evidence for the existence of preferential pathways.

Figure J-17. Simulated Relative Saturation Assumed Isotropy--
Time Histories at Selected Elevations Near Well 299-W19-92.

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