FIRST EVENT THIRD YEAR SAMPLING REPORT, JANUARY, 1997 LONG-TERM MONITORING OF SOLDIER CREEK TINKER AFB OKLAHOMA CITY, OKLAHOMA CONTRACT NO. F34650-93-D-0109 ORDER 5014

Prepared for
Department of the Air Force
Tinker AFB
Oklahoma City, Oklahoma

April 1997

Woodward-Clyde
Engineering & sciences applied to the earth & its environment

April 11, 1997
WCFS Project No. F96515

Department of the Air Force
Headquarters Oklahoma City Air Logistics Center (AFMC)
OC-ALC/PKOSS
ATTN: Sharon Beatty
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Subject: Submittal of First Event Third Year Monitoring Report
Long-Term Monitoring of Soldier Creek
Contract No. F34650-93-D-0109, Order No. 5014
WCFS Document Control No. F96515.25

Dear Ms. Beatty:

This letter transmits the First Event Third Year Monitoring Report prepared by Woodward-Clyde Federal Services (WCFS) for the Long-Term Monitoring of Soldier Creek. Tinker personnel requested that a total 15 copies of the report be submitted. Fourteen copies of the report were delivered to James Dawson.

If you have any questions regarding this submittal, please contact the undersigned.

Sincerely,

Daphne D. Nickisch
Senior Staff Scientist

Charles M. Johnson
Project Manager

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CONTRACT NO. F34650-93-D-0109 ORDER 5014

Prepared for
Department of the Air Force
Tinker AFB
Oklahoma City, Oklahoma

April, 1997

FIRST EVENT THIRD YEAR SAMPLING REPORT

FOR LONG-TERM MONITORING OF SOLDIER CREEK

SEDIMENT AND SURFACE WATER OPERABLE UNIT

Document Prepared for:

Tinker Air Force Base
Environmental Directorate
OC-ALC/EM
Tinker AFB, Oklahoma

405-734-3058

This First Event Third Year Sampling Report is intended for review by Tinker personnel. The document presents sediment and surface water data collected by Woodward-Clyde Federal Services during the first event third year long-term monitoring.

Outline of Document

- Introduction
- Sample Locations
- January, 1997 Quarterly Sampling Event
    - Sampling Procedures
    - Sample Identification
    - Analytical Parameters
    - Quality Assurance
- Analytical Results and Field Measurements
- Conclusions and References

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10^{-4}	One in ten thousand
10^{-5}	One in one-hundred thousand
10^{-6}	One in one million
AFB	Air Force Base
B&V	Black & Veatch Waste Science Technology
BHRA	Baseline Health Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CLP	Contract Laboratory Program
COCs	Contaminants of Concern
DEQ	Department of Environmental Quality
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EM	Tinker Environmental Management
EPA	United States Environmental Protection Agency
FFA	Federal Facilities Agreement
HHRA I	Human Health Risk Assessment I
HIs	Hazard Indices
HPLC	High Performance Liquid Chromatography
HQ	Hazard Quotient
IRP	Installation Restoration Program
IWTP	Industrial Wastewater Treatment Plant
NCP	National Contingency Plan
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OU	Operable Unit
PCBs	Polychlorinated Biphenyls
QA	Quality Assurance

QAPP	Quality Assurance Project Plan
QC	Quality Control
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
USAF	United States Air Force
VOC	Volatile Organic Compound
WCFS	Woodward-Clyde Federal Services

1.0
INTRODUCTION

As required by Contract No. F34650-93-D-0109, Order No. 5014 between Tinker Air Force Base (Tinker) and Woodward-Clyde Federal Services (WCFS), this sampling report was prepared for the Soldier Creek Sediment and Surface Water Operable Unit, as mandated by the signed Record of Decision (ROD), dated September, 1993 (B&V, 1993a). This report provides analytical data for the first event of the third year (1Evnt3Yr) monitoring event, which occurred in January, 1997. A brief summary of the site location, and previous investigations are included in this section.

1.1 REGULATORY BASIS

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986 established the Defense Environmental Restoration Program (DERP) for the U.S. Department of Defense (DoD) to clean up past hazardous waste disposal and spill sites nationwide. In 1980, the United States Air Force (USAF) began implementing the DoD Installation Restoration Program (IRP). The IRP is designed to identify and evaluate suspected problems associated with past hazardous waste management practices, including impacts on human health and the environment.

Section 105 of SARA mandates that procedures for undertaking response actions follow the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) as promulgated by the U.S. Environmental Protection Agency (EPA).

Two sites located within Tinker AFB, Building 3001 and Soldier Creek, were listed on the CERCLA National Priority List (NPL) in 1987. Tinker AFB, EPA Region VI, and the Oklahoma Department of Environmental Quality (DEQ) signed a Federal Facilities Agreement (FFA) (Administrative Docket Number NPL-U3-2-27) under Section 120 CERCLA in December 1988. The intent of this agreement is to ensure that past and present activities of Tinker AFBs NPL sites are thoroughly investigated and appropriately remediated to protect the public health, welfare, and the environment.

1.2 INVESTIGATION SCOPE AND OBJECTIVES

The focus of this monitoring program is sediment and surface water contamination from the Soldier Creek Sediment and Surface Water Operable Unit (OU) from the headwaters of East and West Soldier Creeks to Interstate Highway 40 (I-40). The Soldier Creek OU is located in the northeast portion of Tinker AFB and was identified in the ROD as a potential threat to human health and the environment. The objective of quarterly monitoring is to evaluate analytical results of sediment and surface water samples for exceedance of health based cleanup goals developed during the Baseline Health Risk Assessment (BHRA) (B&V, 1993a), and reported in the ROD (B&V, 1993b). In addition to the health based cleanup goals developed in the BHRA, screening was performed based on human health cleanup goals developed by the Human Health Risk Assessment (HHRA I) described in Section 1.4.

Analytical results for the 1Evnt3Yr monitoring event of the Soldier Creek Sediment and Surface Water Operable Unit are provided in this report. Sediment and surface water analytical results were screened against the risk-based screening criteria developed by the BHRA and HHRA I. Conclusions and recommendations based on analytical results will be incorporated into the Third Year Long-Term Monitoring Annual Report.

1.3 SITE DESCRIPTION

Tinker is an active military industrial facility located in Oklahoma City, Oklahoma, responsible for the maintenance of a wide variety of military aircraft. Tinker was activated in March 1942 as the Midwest Air Depot. During World War II, the depot was responsible for reconditioning, modifying and modernizing aircraft, vehicles and equipment. The primary mission has not changed. Tinker is still a major industrial complex for overhauling, modifying and repairing military aircraft, aircraft engines and accessory items (B&V, 1993b).

Tinker is located approximately seven miles east-southeast of Oklahoma City's central business district. The base is bounded by Midwest City on the north, Del City on the northwest and Oklahoma City on the east, south and southwest (See Figure 1-1). The boundaries of Tinker are defined by Sooner Road to the west, Douglas Boulevard to the east, Southeast 29th Street to the north and Southeast 74th Street to the south. Midwest City and

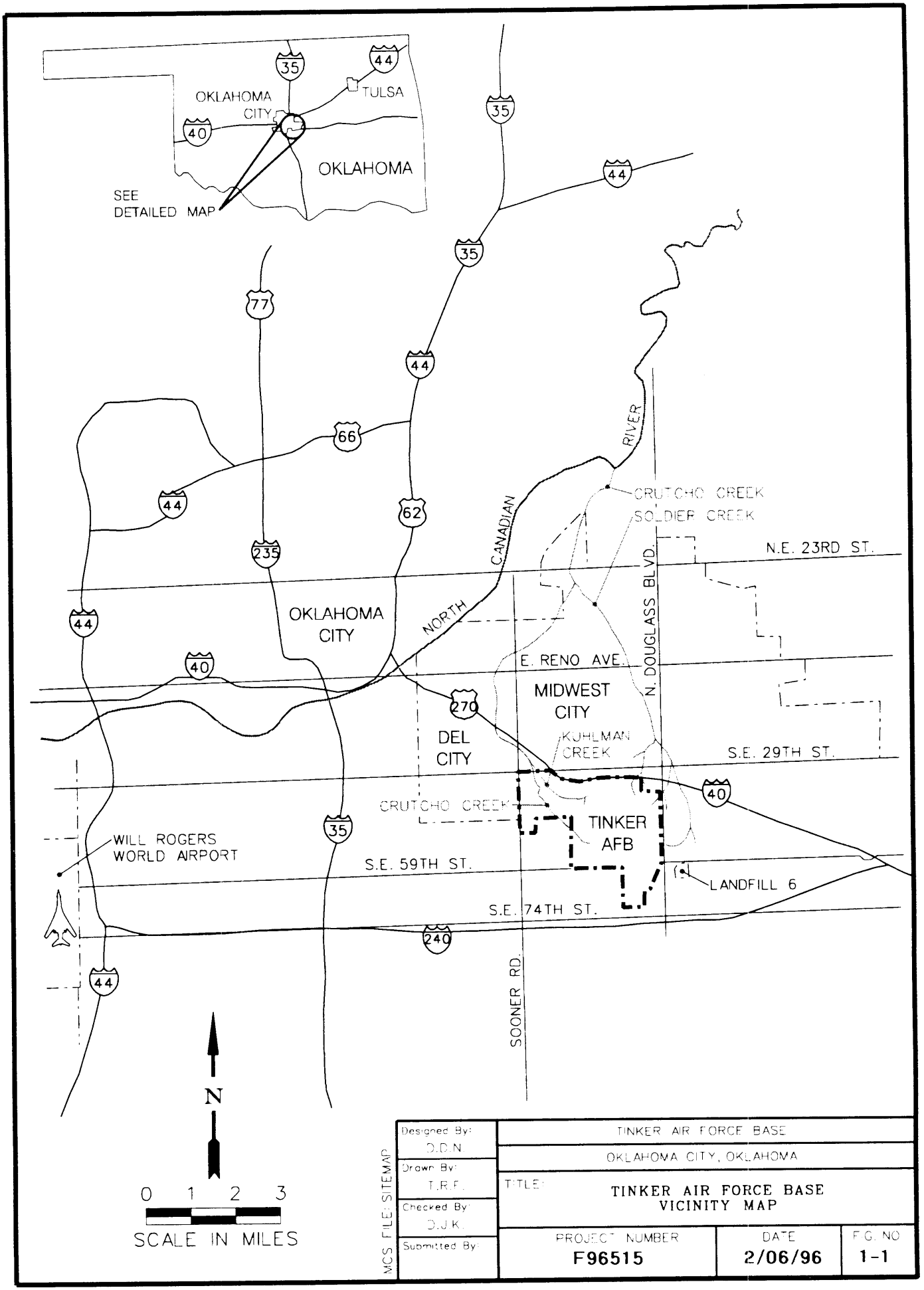
Del City are heavily populated with mixed residential and commercial areas. The area under Oklahoma City jurisdiction is lightly developed residential.

Lake Stanley Draper lies approximately one-half mile south of the extreme southeastern corner of Tinker. A small portion of the lake's drainage basin is included within the boundaries of the base. The western, southwestern and southern portions of the base are drained by Crutcho Creek, which flows to the west-northwest. The northeastern portion of the base is drained by Soldier Creek. The northern portion of the base is drained by Kuhlman Creek

For the purposes of this investigation, the tributary east of Building 3001 is designated East Soldier Creek and the tributary west of Building 3001 is designated West Soldier Creek. East Soldier Creek flows northward along the east side of Building 3001 and past the Industrial Waste Water Treatment Plant (IWTP), from its origin north of Building 3705 to its confluence with Soldier Creek approximately one mile downstream. West Soldier Creek originates on the west side of Building 3001 and flows northward to its confluence with Soldier Creek approximately two miles downstream. Soldier Creek flows to the north from its headwaters near Southeast 59th Street to its confluence with Crutcho Creek approximately six miles downstream.

The boundaries of Soldier Creek for this project are as follows: 1) All sediment and surface water of East Soldier Creek that originate on Tinker to the intersection of East Soldier Creek and Interstate 40 north of Tinker; 2) All sediment and surface water of West Soldier Creek that originate on Tinker to the intersection of West Soldier Creek and Interstate 40 north of Tinker.

The study area boundary was determined by comparing the Phase I and II Remedial Investigation (RI) sampling results to one-tenth of the risk based clean-up levels established in the baseline health risk assessment. Sediment and surface water of Soldier Creek with greater than one-tenth the risk-based clean-up levels are included in the study area boundary.



MCS FILE: SITEMAP	Designed By: D.D.N.	TINKER AIR FORCE BASE	
	Drawn By: T.R.F.	OKLAHOMA CITY, OKLAHOMA	
	Checked By: D.J.K.	TITLE: TINKER AIR FORCE BASE VICINITY MAP	
	Submitted By:	PROJECT NUMBER F96515	DATE 2/06/96
			F.G. NO 1-1

Soldier Creek receives discharge and runoff from Tinker's eastern-most runway area, the Building 3001 Complex and the IWTP. The Building 3001 Complex consists of an aircraft overhaul and modification complex to support the mission of the Oklahoma City Air Logistics Center. The IWTP, located in the northeastern portion of the base, receives industrial process discharge waters from the Building 3001 Complex via a series of underground lines. The IWTP also receives discharge waters from other industrial sources in the northeast quadrant of the base. Prior to April 1996, these waters were treated and combined with treated sanitary wastewater prior to discharge to East Soldier Creek under a National Pollutant Discharge Elimination System (NPDES) permit. Since April 1996, treated industrial & sanitary waste water is discharged to the Oklahoma City Public Owned Treatment Works.

1.4 PREVIOUS INVESTIGATIONS AND SUPPORTING PROJECT DOCUMENTS

Numerous activities have been conducted to identify and eliminate potential sources of contamination to Soldier Creek. In 1990 and 1991, B&V Waste Science Technology (B&V) conducted Phase I and Phase II Remedial Investigation/Feasibility Study (RI/FS) to determine the extent of sediment and surface water contamination along East, West and Main Soldier Creek. The baseline health risk assessment (BHRA) performed by B&V (1993c) determined that Soldier Creek sediment and surface water did not pose a risk to human health in excess of the acceptable risk-based exposure levels established by the EPA. The Final Workplans for Long-Term Monitoring and Ecological Assessment of Soldier Creek, revised November, 1994, (Workplans) provided sampling procedures and quality assurance protocol for the quarterly monitoring event (WCFS, 1994). The Quarterly Monitoring Annual Report provides a summary of analytical results and the HHRA I based on data from the first year of quarterly monitoring (WCFS, 1996) and sediment data collected in conjunction with the Soldier Creek Operable Unit RI/FS (PES, 1995). Data from the second year of quarterly monitoring are summarized in the Second Year Quarterly Monitoring Annual Report (WCFS, 1997)

2.0
SAMPLE LOCATION

Sediment and surface water samples were collected from East and West Soldier Creeks during the 1Evnt3Yr monitoring event from the segments identified in Figure 2-1. On-base sampling segments include five segments along West Soldier Creek, and nine segments along East Soldier Creek, and a sample location on a tributary to West Soldier Creek. The off-base portion of Soldier Creek bounded by I-40 has been split into four segments, two on West Soldier Creek, two on East Soldier Creek and a sample location on Tributary B, just above the confluence with East Soldier Creek. Stream segments were established based on the locations of known outfalls from Building 3001, known or suspected areas of contamination, stream morphology, and by communication with Tinker Environmental Management (EM) personnel familiar with the project.

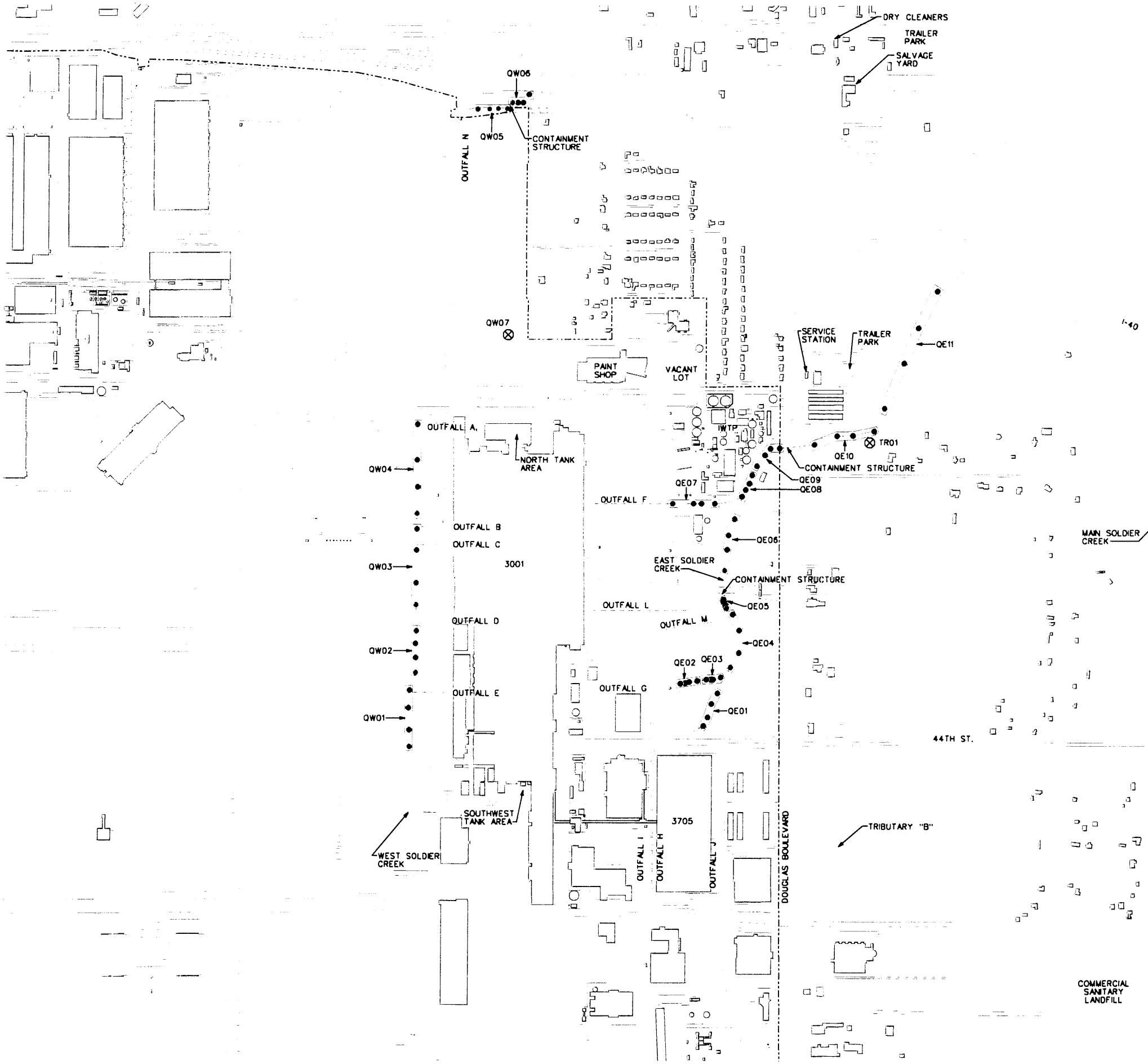
Each stream segment was divided into quarters for the first two years of quarterly monitoring. During each quarterly event, a different quarter of each stream segment was sampled from upstream to downstream. (Figure 2-1). Locations for semi-annual sampling were based on results from the past two years of quarterly monitoring for each section of stream. Using sediment concentrations of PAHs as a guide (since they consistently exceed BHRA screening criteria), the two most contaminated segments of each quarter were selected for sampling (from upstream to downstream) during semi-annual monitoring. In the event that PAHs do not or have never exceeded the health criteria, best professional judgment was used in determining which segments of each section are more contaminated and which segments to sample. If a section was "equally" contaminated or there were no significant differences in contamination, the first and third quarter segments of that section were selected for sampling. During the first semi-annual sampling event (1Evnt3Yr), the upstream most segment of each section was sampled. Table 2-1 presents the rationale for each stream segment. Table 2-2 presents the segments of each sections for semi-annual monitoring.

Samples were collected from a representative location of each section, within the stream channel, as determined in the field. Basic criteria for determining a representative sample location within a stream segment included flow, depth, deposition, discolored sediment, and change in stream morphology in the quarter of a stream segment being sampled. High

velocity areas were avoided, when possible, due to increased volatilization in turbulent waters. Stagnant waters were unavoidable in many segments due to the intermittent nature of the streams.

Sediments were sampled from three different depths at a single location in each segment, from the upper 6 inches, 6 to 12 inches, and 3 to 5 feet, if possible. Table 2-1 and Figure 2-1 describe and illustrate the sampling segments. Where a 3-5 foot depth sediment sample was not obtainable due to refusal, a sample was collected at the maximum available depth interval (if greater than 12 inches). A total of 39 sediment samples were collected during the 1Evnt3Yr monitoring event.

Due to the intermittent nature of the streams, insufficient water flow preclude obtaining surface water samples from three sections on West Soldier Creek (QW01, QW02, and QW04) and the sampling location on Tributary B, during the sampling event. A total of 15 surface water samples were collected during the 1Evnt3Yr monitoring event.



Designed By: D.D.N.	TINKER AIR FORCE BASE		
Drawn By: J.W.B.	OKLAHOMA CITY, OKLAHOMA		
Checked By: D.J.K.	TITLE: SOLDIER CREEK QUARTERLY MONITORING SAMPLING LOCATIONS		
Submitted By:	PROJECT NUMBER F96515	DATE JAN 1997	FIG NO. 2-1

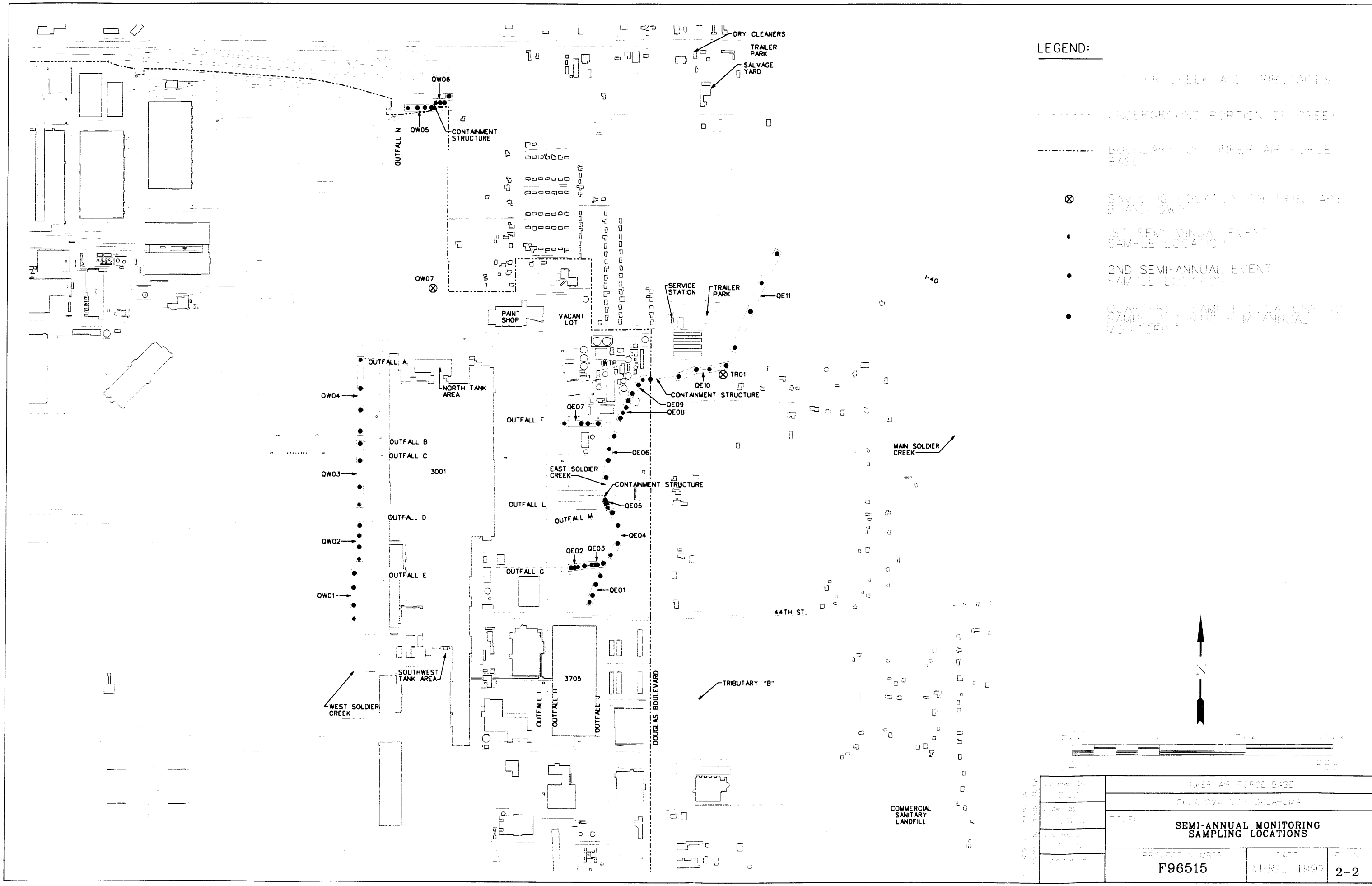

LEGEND:
SOLDIER CREEK AND TRIBUTARIES
UNDERGROUND PORTION OF CREEK
BOUNDARY OF TINKER AIR FORCE BASE
SAMPLING LOCATION ON TRIBUTARY B AND QW01
1ST SEMI-ANNUAL EVENT SAMPLE LOCATION
2ND SEMI-ANNUAL EVENT SAMPLE LOCATION
QUARTERLY SAMPLE LOCATIONS NOT SAMPLED DURING SEMI-ANNUAL MONITORING
DRY CLEANERS
TRAILER PARK
SALVAGE YARD
QW06
QW05
CONTAINMENT STRUCTURE
OUTFALL N
QW07
PAINT SHOP
VACANT LOT
SERVICE STATION
TRAILER PARK
QE11
I-40
IWTP
TR01
QE10
CONTAINMENT STRUCTURE
QE09
QE08
QE07
OUTFALL A
NORTH TANK AREA
QW04
OUTFALL F
OUTFALL B
OUTFALL C
3001
QW03
QE06
EAST SOLDIER CREEK
CONTAINMENT STRUCTURE
QE05
OUTFALL L
OUTFALL M
OUTFALL D
QW02
QE04
QE02
QE03
OUTFALL G
OUTFALL E
QE01
QW01
MAIN SOLDIER CREEK
44TH ST.
SOUTHWEST TANK AREA
3705
WEST SOLDIER CREEK
OUTFALL I
OUTFALL H
OUTFALL J
DOUGLAS BOULEVARD
TRIBUTARY "B"
COMMERCIAL SANITARY LANDFILL
N
TINKER AIR FORCE BASE
OKLAHOMA CITY, OKLAHOMA
SEMI-ANNUAL MONITORING SAMPLING LOCATIONS
F96515
APRIL 1997
2-2

TABLE 2-1 LONG-TERM MONITORING STREAM SEGMENT RATIONALE

WEST SOLDIER CREEK ON-BASE PORTION	
Section 1 (QW01)	South Tank Area to Outfall E
Section 2 (QW02)	Outfall E to just above Outfall D
Section 3 (QW03)	Outfall D to just above Outfall C
Section 4 (QW04)	Outfall C to culvert opposite north end of Building 3001, where on-base above ground portion of West Soldier Creek ends.
Section 5 (QW07)	Single location located on tributary to West Soldier Creek at emergence from north-east corner of parking lot, north of Building 3001 .

WEST SOLDIER CREEK OFF-BASE PORTION	
Section 1 (QW05)	Above-ground reach from it's emergence at three culverts near Tinker Gate 7 to the spill containment structure
Section 2 (QW06)	Spill containment structure to Interstate 40

EAST SOLDIER CREEK ON-BASE PORTION	
Section 1 (QE01)	Mainstem from its emergence at 44th Street to just above the confluence of Outfall G
Section 2 (QE02)	Outfall G from its emergence east, half way to its confluence with the mainstem
Section 3 (QE03)	Outfall G from halfway to its confluence with the mainstem to the mainstem.
Section 4 (QE04)	Mainstem from Outfall G to just above the confluence of Outfall M
Section 5 (QE05)	Outfall M to Bradley Drive
Section 6 (QE06)	The long pool from Bradley Drive north to just above Outfall F
Section 7 (QE07)	Outfall F from its emergence to its confluence with the mainstem
Section 8 (QE08)	The mainstem from Outfall F to the dam on the mainstem
Section 9 (QE09)	The mainstem from the dam to the spill containment structure on Douglas Blvd.

EAST SOLDIER CREEK OFF-BASE PORTION	
Section 1 (QE10)	The mainstem from Douglas Boulevard to just above the confluence with Tributary B
Section 2 (QE11)	The mainstem from Tributary B to Interstate 40

TABLE 2-2
SEMI-ANNUAL MONITORING
SAMPLE LOCATIONS

Sample Segment	1Evnt3Yr (January 1997)	2Evnt3Yr (Anticipated in July 1997)
QE01	1st Quarter Location	4th Quarter Location
QE02	3rd Quarter Location	4th Quarter Location
QE03	1st Quarter Location	2nd Quarter Location
QE04	1st Quarter Location	3rd Quarter Location
QE05	1st Quarter Location	2nd Quarter Location
QE06	3rd Quarter Location	4th Quarter Location
QE07	1st Quarter Location	3rd Quarter Location
QE08	2nd Quarter Location	3rd Quarter Location
QE09	1st Quarter Location	3rd Quarter Location
QE10	1st Quarter Location	3rd Quarter Location
QE11	1st Quarter Location	3rd Quarter Location
TR01	1st Quarter Location	1st Quarter Location
QW01	1st Quarter Location	3rd Quarter Location
QW02	1st Quarter Location	3rd Quarter Location
QW03	1st Quarter Location	2nd Quarter Location
QW04	3rd Quarter Location	4th Quarter Location
QW05	1st Quarter Location	3rd Quarter Location
QW06	1st Quarter Location	3rd Quarter Location
QW07	1st Quarter Location	1st Quarter Location

3.1 SAMPLING PROCEDURES

3.1.1 Surface Water Sampling

Surface water samples were collected from the same location as sediment samples. Care was taken not to disturb the bottom sediments during sampling. Grab surface water samples were collected prior to sediment sampling by submerging glass and stainless steel sampling devices directly into the creek. The opening of the container faced upstream. The water was then transferred directly into the sample containers and submitted for laboratory analysis.

Field tests were conducted on surface water samples. These tests included pH, specific conductance, temperature and dissolved oxygen. Field measurements were recorded on field sheets. A total of four replicates were measured and averaged for each field parameter. Volumetric stream flow in each segment was estimated by determining the cross-sectional area and measuring current velocities across a representative transect using a flow meter.

3.1.2 Sediment Sampling

Sediment samples were collected from a representative location along the stream channel as determined in the field. Depending on the water column depth, and sediment characteristics, a stainless steel trowel, ponar dredge, or hand augers/multi-stage samplers was used to collect sediment samples.

A stainless steel trowel was used to collect samples from the 0-6 inch interval. In areas, where the water column was to deep to use a trowel, a stainless steel hand auger/multi-stage sampler or ponar dredge (ie. Section QE08) was used. Sediment samples obtained from 6-12 inches and 3-5 feet were collected using a stainless steel hand auger/multi-stage sampler or ponar dredge.

For discrete sample collection using the trowel, the sampling area was first cleared of vegetation and/or debris. The sample was collected from the upper 6 inches. Upon reaching the surface, the sample was placed in a stainless steel bowl or on a clean sheet of aluminum foil. The sample for volatile and semi-volatile analysis was placed immediately in sample containers. Free water obtained during sample collection was used to eliminate headspace in the volatile and semi-volatile sample containers. The remaining portion of the sample was composited and then transferred to the appropriate containers based upon sample matrix and analysis to be performed. Any remaining free water from the sample collection was returned to the stream. To the extent practical, the sample hole was backfilled with native soil and vegetation.

The hand auger/multi-stage sampler was lowered to the sediment surface and manually augured to the desired depth or to refusal of the device. Upon reaching the surface, the sample was placed on a clean sheet of aluminum foil. The sample for volatile and semi-volatile analysis was placed immediately in sample containers. Free water obtained during sample collection was used to eliminate headspace in the volatile and semi-volatile sample containers. The remaining portion of the sample was composited and then transferred to the appropriate containers based upon sample matrix and analysis to be performed. Any remaining free water from the sample collection was returned to the stream. To the extent practical, the sample hole was backfilled with native soil and vegetation.

3.1.3 Decontamination Procedures

All sampling equipment was decontaminated prior to each sampling location and prior to initial use. Decontamination of equipment minimized the risk of cross-contamination to environmental samples from improperly cleaned sampling equipment and ensures that representative samples are obtained. Potable water for all decontamination activities was provided by Tinker. Equipment used in the cleaning or decontamination of field equipment included:

- Methanol, reagent grade
- Aluminum foil
- High Performance Liquid Chromatography (HPLC) water
- Disposable gloves

- Teflon® and stainless steel squeeze bottles or sprayers
- Wash tubs of various sizes and scrub brushes
- Potable water
- Plastic sheeting
- Washwater containment tubs or containers

Equipment decontamination procedures that were employed in the Soldier Creek investigation are as follows:

- Only Teflon® and stainless steel containers were used to dispense water, methanol, or other cleaning agents. No plastic containers were used.

- All personnel performing decontamination procedures wore appropriate protective clothing such as disposable gloves, rubber boots, etc., as specified by the Site Safety Officer.

- All decontamination waste fluids were collected in containers, with secondary containment, and were stored at the drum staging area until disposal.

- All surface water and sediment sampling equipment (e.g. glass pitchers, and stainless steel bowls, trowels, dredges, and samplers) were decontaminated using brushes and a laboratory-grade detergent/potable water solution, followed by a potable water rinse, a pesticide-grade methanol rinse, and a HPLC water rinse. All sampling equipment was wrapped in foil before storage, transport, or reuse, if not used immediately. All equipment was allowed to air dry before sampling.

- All cleaning or wash buckets or tubs were cleaned using laboratory grade detergent/potable water solution and potable water rinse upon mobilization, and upon demobilization.

3.2 SAMPLE IDENTIFICATION

Each sample was identified by a specific field identification number which indicates site name, sampling location, sample type, and sequence number. An example of the sample identification number is as follows:

- SC-QE01-SD-901

where SC indicates the site name (Soldier Creek Sediment and Surface Water Operable Unit), QE01 indicates the sampling segment, SD the sample type, and 901 the sequence number. Following the site name, a four digit alpha-numeric code was used to identify the sampling location. Sampling locations for the investigation were as follows:

- Quarterly monitoring sampling segments on East Soldier Creek were designated by QE01, QE02, etc.
- Quarterly monitoring sampling segments on West Soldier Creek were designated by QW01, QW02, etc.

A two-letter designation was used to identify the specific type of sample collected. For the investigation, these sample types were:

- SW - surface water sample
- SD - sediment sample

The last three-digit code is the sequence identifier. This number is used to separate samples collected at the same sampling location, but at different depth intervals (for soil samples) or time intervals, or for duplicate samples. The first digit of the sequence number indicates the quarter of the stream segment being sampled for long-term monitoring. The second and third digits indicate, in sequence, the samples taken from each location. The second and third digits always begin with 01 at each location. In the above example, 901 indicates the first sample (i.e., 0-6 inches) taken in segment QE01 during the 1Evnt3Yr monitoring event, 902 indicates the second sample (i.e., 6-12 inches), taken in segment QE01 during the 1Evnt3Yr monitoring event. Duplicate samples for each sampling event were identified by adding 500

to the sequence identifier of the corresponding sample (ie., SC-QE01-SD-901 duplicate would be identified as SC-QE01-SD-1401).

3.3 ANALYTICAL PARAMETERS

Sediment and surface water samples were analyzed for volatile organics, semi-volatile organics, metals, polychlorinated biphenyls (PCBs) and pesticides. Sediment from 0-6 inches and surface water samples were analyzed for hexavalent chromium. Surface water samples were also analyzed for hardness, dissolved metals, total suspended solids, total dissolved solids, alkalinity, chloride, sulfate, chemical oxygen demand, and total organic carbon. A summary of the constituents for analysis, containers, preservation, and holding times are presented in Table 3-1.

Samples collected for hexavalent chromium analysis were analyzed by Southwell Analytical Laboratory, Oklahoma City, OK. All other samples collected for analysis were analyzed by Quanterra Environmental Services of Arvada, Colorado.

3.4 QUALITY ASSURANCE

Quality Assurance (QA) procedures were performed in general accordance with the Quality Assurance Project Plan (QAPP) of the Workplans (WCFS, 1994). If during field sampling any of the QA procedures were not performed within the guidelines of the QAPP, they were noted in field notebook by the field manager.

QA samples (field duplicates) were collected at a rate of approximately 20 percent (i.e., 1 for every 20 samples). One rinsate was collected for each day of sampling. These samples were collected to assess field sampling procedures (including decontamination) and field collection precision. Laboratory controlled trip blank samples accompanied each cooler with samples for VOC analysis to assess potential cross-contamination. One field ambient blank was collected by pouring HPLC water, used for decontamination of equipment and rinsate samples, directly into sample bottles. The ambient blank sample was collected to assess the effects of background conditions, potential sample container contamination and the quality of the HPLC water. A total of 18 QA samples were collected during the 1Evnt3Yr monitoring

event (4 rinsate blanks, 4 trip blanks, 1 ambient blank, 1 surface water field duplicates, and 2 sediment field duplicates, 1 set of surface water field designated matrix spike/matrix spike duplicates, and 2 sets of sediment field designated matrix spike/matrix spike duplicates).

Results of data validation are presented in Appendix A: Data Validation Report. Signed Chain of Custody forms are presented in Appendix B.

TABLE 3-1
SEDIMENT AND SURFACE WATER SAMPLING
LONG-TERM MONITORING II OF SOLDIER CREEK
CONTAINERS, PRESERVATIONS, AND HOLDING TIMES

Parameter	SW-846 Analytical Method	Container	Preservation	Holding Time
Sediment				
Volatile Organics (w/ TICs)	8260	2, 4 oz wide mouth jars	4°C	14 days
Semivolatile Organics (w/ TICs)	8670	1, 16 oz wide mouth jar[1]	4°C	14 days to extraction, 40 days to analysis
PCBs & Pesticides	8080	1, 16 oz wide mouth jar[1]	4°C	14 days to extraction, 40 days to analysis
ICP and ICP/MS Metals	6010/6020	1, 16 oz wide mouth jar[1]	4°C	6 months
Arsenic	7060	1, 16 oz wide mouth jar[1]	4°C	6 months
Mercury	7471	1, 16 oz wide mouth jar[1]	4°C	28 days
Hexavalent Chromium	7196A	1, 125 ml glass jar	4°C	24 hours
Surface Water				
Volatile Organics (w/ TICs)	8260	4, 40 ml glass vials w/ Teflon cap	4°C, HCl pH<2	14 days
Semivolatile Organics (w/ TICs)	8270	2, 32 oz amber glass jars	4°C	7 days to extraction, 40 days to analysis
PCBs & Pesticides	8080	2, 32 oz amber glass jars	4°C	7 days to extraction, 40 days to analysis
ICP and ICP/MS Metals	6010/6020	1, 32 oz poly[4]	4°C, HNO^3 pH<2	6 months
ICP and ICP/MS Dissolved Metals	6010/6020	1, 32 oz poly[5]	4°C, HNO^3 pH<3	6 months
Arsenic	7060	1, 32 oz poly[4]	4°C	6 months
Mercury	7470	1, 32 oz poly[4]	4°C	28 days
Hexavalent Chromium	7196A	1, 500 ml glass	4°C	24 hours

TABLE 3-1
SEDIMENT AND SURFACE WATER SAMPLING
LONG-TERM MONITORING II OF SOLDIER CREEK
CONTAINERS, PRESERVATIONS, AND HOLDING TIMES

Parameter	SW-846 Analytical Method	Container	Preservation	Holding Time
Alkalinity	310.1	2, 32 oz poly[2]	4°C	14 days
Chemical Oxygen Demand	410.4	1, 16 oz glass[3]	4°C, H_2SO_4 pH<2	28 days
Hardness	130.1	1, 32 oz poly[4]	4°C, HNO^3 pH<2	6 months
Total Dissolved Solids	160.2	2, 32 oz poly[2]	4°C	7 days
Total Organic Carbon	415.1	1, 16 oz glass[3]	4°C, H_2SO_4 pH<2	28 days
Total Suspended Solids	160.1	2, 32 oz poly[2]	4°C	7 days
Chloride	300	2, 32 oz poly[2]	4°C	28 days
Sulfate	300	2, 32 oz poly[2]	4°C	28 days

Note:

[1] one 16 oz wide mouth jar for SVOC, PCB/Pesticide, and Metal analysis

[2] two 32 oz poly bottles for TSS, TDS, alkalinity, chloride and sulfate

[3] one 16 oz glass bottle for COD and TOC

[4] one 32 oz bottle for Total Metals 6010/6020, mercury, arsenic, and hardness

[5] one 32 oz bottle for Dissolved Metals 6010/6020

4.0
ANALYTICAL RESULTS AND FIELD MEASUREMENTS

The 1Evnt3Yr sediment and surface water monitoring event of Soldier Creek was conducted from January 20 through January 24, 1997. Surface water and sediment analytical data for the monitoring event is presented in Appendices C and D, respectively. Hexavalent chromium analytical data is presented in Appendix E. Appendix F presents analytes and concentrations detected in the sediment and surface water during the monitoring event.

Contaminant concentrations associated with the 1Evnt3Yr monitoring event were compared with risk-based screening criteria. Screening criteria were based on exposure factors developed by the BHRA for human health under the RI/FS (B&V, 1993c) and the HHRA I for human health prepared by WCFS. Screening criteria were based on an excess lifetime cancer risk of 10^{-4} (BHRA and HHRA I), 10^{-5} (HHRA I), and 10^{-6} (BHRA and HHRA I), and noncarcinogenic hazard indices (HIs) (BHRA and HHRA I).

The risk of adverse noncarcinogenic effects from chemical exposure is expressed in terms of the Hazard Quotient (HQ). All the HQ values for chemicals within each exposure pathway are summed to yield the HI. An HI value of less than 1.0 indicates little concern for noncarcinogenic effects, while an HI value greater than or equal to 1.0 indicates an increased level of concern. The risk of cancer from exposure to a chemical is described in terms of the probability than an exposed individual will develop cancer during his or her lifetime from that exposure.

4.1 SUMMARY OF BHRA SCREENING CRITERIA EXCEEDANCES

No exceedances of BHRA screening criteria were identified for surface water analytical results from East and West Soldier Creek. Sediment analytical results did not exceed BHRA screening criteria for noncarcinogenic hazard indices or for 10^{-4} carcinogenic risk.

Sediment analytical results exceeded BHRA 10^{-6} screening criteria in five segments located on-base East Soldier Creek (QE01, QE02, QE03, QE06, QE07, and QE08), three segments located on-base West Soldier Creek (QW02, QW03, and QW04), and one segment off-base

West Soldier Creek (QW05). No screening criteria were exceeded off-base East Soldier Creek. The BHRA contaminants of concern with concentrations in excess of 10^{-6} carcinogenic screening criteria were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene. Table 4-1 presents the sample locations, depths, and analytical results for contaminants of concern which exceeded the BHRA 10^{-6} screening criteria.

4.2 SUMMARY OF HHRA I SCREENING CRITERIA EXCEEDANCES

No exceedances of HHRA I screening criteria were identified in surface water analytical results from East and West Soldier Creek. Sediment analytical results did not exceed HHRA I screening criteria for 10^{-4} carcinogenic risk. Sediment analytical results exceeded noncarcinogenic screening criteria for aroclor 1254 (66 mg/kg) in one segment on-base West Soldier Creek (Table 4-2). Aroclor 1254 was detected at 82 mg/kg at QW03-902 (6-12 inches bgs).

Sediment analytical results exceeded HHRA I 10^{-5} screening criteria for benzo(a)pyrene (10.58 mg/kg) in one segment on-base East Soldier Creek (Table 4-3). Benzo(a)pyrene was detected at 11 mg/kg at QE07-901 (0-6 inches bgs).

Sediment analytical results exceeded HHRA I 10^{-6} screening criteria for six segments located on-base East Soldier Creek (QE01, QE02, QE03, QE06, QE07, and QE08), three segments located on-base West Soldier Creek (QW02, QW03, and QW04), and one segment off-base West Soldier Creek (QW05). No screening criteria were exceeded off-base East Soldier Creek. The HHRA I contaminants of concern with concentrations in excess of 10^{-6} carcinogenic screening criteria were benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Table 4-4 presents the sample locations, depths, and analytical results for contaminants of concern which exceeded the HHRA I 10^{-6} screening criteria.

4.3 FIELD PARAMETER MEASUREMENTS

A summary table of results for surface water field parameters is presented in Table 4-3. Field measurement ranges for East and West Soldier Creeks are presented below:

Field Parameters	Range of Measurements
Temperature (°C)	2.4-21.6
Conductivity (umhos/cm)	142-619
pH	8.2-9.77
Dissolved Oxygen (mg/l)	0.00*-9.41
Discharge (ft^3/sec)	0.0-0.22

Note: * Actual recorded value was -0.29 mg/l, possibly due to extremely cold temperatures and associated probe malfunction.

Table 4-1
Sediment Samples with Analytical Concentrations
Greater than BHRA 10-6 Screening Criteria
First Event Third Year Sampling, January 1997

CLIENT DESCRIPTION	DEPTH (feet)	COMPOUND NAME	RESULT (mg/kg)	CARCINOGENIC 10-6 (mg/kg)
QE01	0.0-0.5	Benzo(a)anthracene	1.9	1.6
		Chrysene	2	1.6
QE02	0.5-1.00	Benzo(b)fluoranthene	1.8	1.6
		Chrysene	1.9	1.6
QE03	0.0-0.5	Benzo(a)anthracene	6.2	1.6
		Benzo(a)pyrene	7	1.6
		Benzo(b)fluoranthene	8.3	1.6
		Benzo(k)fluoranthene	5.1	1.6
		Chrysene	8.9	1.6
QE06	0.0-0.5	Benzo(a)anthracene	5.4	1.6
		Benzo(a)pyrene	6.8	1.6
		Benzo(b)fluoranthene	8.8	1.6
		Benzo(k)fluoranthene	7	1.6
		Chrysene	9.3	1.6
QE06	0.5-1.00	Benzo(a)anthracene	2.9	1.6
		Benzo(b)fluoranthene	2.9	1.6
		Benzo(k)fluoranthene	2.8	1.6
		Chrysene	4	1.6
QE06	1.0-1.5	Chrysene	1.8	1.6
QE07	0.0-0.5	Benzo(a)anthracene	9.1	1.6
		Benzo(a)pyrene	11	1.6
		Benzo(b)fluoranthene	13	1.6
		Benzo(k)fluoranthene	8.6	1.6
		Chrysene	12	1.6
QE07	0.5-1.0	Benzo(a)anthracene	4.7	1.6
		Benzo(a)pyrene	5	1.6
		Benzo(b)fluoranthene	5.9	1.6
		Benzo(k)fluoranthene	4.8	1.6
		Chrysene	6.3	1.6
QE08	0.0-0.5	Benzo(a)anthracene	7.3	1.6
		Benzo(a)pyrene	7.3	1.6
		Benzo(b)fluoranthene	9.6	1.6
		Benzo(k)fluoranthene	5.9	1.6
		Chrysene	9.2	1.6
QW02	0.0-0.5	Benzo(a)pyrene	1.7	1.6
		Benzo(b)fluoranthene	1.9	1.6
		Benzo(k)fluoranthene	2.4	1.6
		Chrysene	1.7	1.6
QW03	0.5-1.0	Benzo(a)pyrene	1.8	1.6
		Benzo(b)fluoranthene	2.2	1.6
		Benzo(k)fluoranthene	2.3	1.6
		Chrysene	2.1	1.6

Table 4-1
Sediment Samples with Analytical Concentrations
Greater than BHRA 10-6 Screening Criteria
First Event Third Year Sampling, January 1997

CLIENT DESCRIPTION	DEPTH (feet)	COMPOUND NAME	RESULT (mg/kg)	CARCINOGENIC 10-6 (mg/kg)
QW04	0.0-0.5	Benzo(a)anthracene	1.9	1.6
		Benzo(a)pyrene	5.2	1.6
		Benzo(b)fluoranthene	4.2	1.6
		Benzo(k)fluoranthene	4.1	1.6
		Chrysene	2.5	1.6
QW04	0.5-1.0	Benzo(a)anthracene	4.7	1.6
		Benzo(a)pyrene	4.6	1.6
		Benzo(b)fluoranthene	5.6	1.6
		Benzo(k)fluoranthene	5.5	1.6
		Chrysene	6.1	1.6
QW04	2.0-2.5	Benzo(a)anthracene	5.7	1.6
		Benzo(a)pyrene	5.8	1.6
		Benzo(b)fluoranthene	5.5	1.6
		Benzo(k)fluoranthene	9.5	1.6
		Chrysene	7	1.6
QW05	0.0-0.5	Benzo(a)anthracene	9.9	1.6
		Benzo(a)pyrene	7.9	1.6
		Benzo(b)fluoranthene	9.4	1.6
		Benzo(k)fluoranthene	8.3	1.6
		Chrysene	12	1.6

Table 4-2
Sediment Samples with Analytical Concentrations
Greater than HHRA I Non-Carcinogenic Screening Criteria
First Event Third Year Sampling, January 1997

CLIENT DESCRIPTION	DEPTH (feet)	COMPOUND NAME	RESULT (mg/kg)	NON-CARCINOGENIC (mg/kg)
QW03	0.5-1.0	Aroclor 1254	82	66.17

Table 4-3
Sediment Samples with Analytical Concentrations
Greater than HHRA I 10^{-5} Screening Criteria
First Event Third Year Sampling, January 1997

CLIENT DESCRIPTION	DEPTH (feet)	COMPOUND NAME	RESULT (mg/kg)	CARCINOGENIC 10^{-5} (mg/kg)
QE07	0.0-0.5	Benzo(a)pyrene	11	10.58

Table 4-4
Sediment Samples with Analytical Concentrations
Greater than HHRA I 10^{-6} Screening Criteria
First Event Third Year Sampling, January 1997

CLIENT DESCRIPTION	DEPTH (feet)	COMPOUND NAME	RESULT (mg/kg)	CARCINOGENIC 10^{-6} (mg/kg)
QE01	0.0-0.5	Benzo(a)pyrene	1.5	1.058
QE02	0.5-1.0	Benzo(a)pyrene	1.6	1.058
QE03	0.0-0.5	Benzo(a)pyrene	7	1.058
		Dibenz(a,h)anthracene	1.3	1.058
QE06	0.0-0.5	Benzo(a)pyrene	6.8	1.058
		Dibenz(a,h)anthracene	1.5	1.058
QE06	1.0-1.5	Benzo(a)pyrene	1.6	1.058
QE07	0.0-0.5	Benzo(a)pyrene	11	1.058
		Benzo(b)fluoranthene	13	10.575
		Dibenz(a,h)anthracene	1.9	1.058
QE07	0.5-1.0	Benzo(a)pyrene	5	1.058
QE08	0.0-0.5	Benzo(a)pyrene	7.3	1.058
		Dibenz(a,h)anthracene	1.6	1.058
QW02	0.0-0.5	Benzo(a)pyrene	1.7	1.058
QW03	0.5-1.0	Benzo(a)pyrene	1.8	1.058
QW04	0.0-0.5	Benzo(a)pyrene	5.2	1.058
		Dibenz(a,h)anthracene	1.6	1.058
QW04	0.5-1.0	Benzo(a)pyrene	4.6	1.058
QW04	2.0-2.5	Benzo(a)pyrene	5.8	1.058
QW05	0.0-0.5	Benzo(a)pyrene	7.9	1.058

Table 4-5
Water Quality Summary
Fourth Quarter Second Year - August 1996

Site	Date	Time	Temperature (degrees C)	Conductivity (umhos/cm)	pH*	DO (mg/l)	Discharge (ft^3/sec)	Description of Site Location	General Comments
QW01	1/20/97	NA	NA	NA	NA	NA	NA	1st Quarter Location	No water in creek
QW02	1/20/97	NA	21.6	142	8.2	-0.29	NA	1st Quarter Location	Immeasureable flow, very shallow
QW03	1/20/97	11:50	9.7	164	8.37	5.41	NA	1st Quarter Location	Immeasureable flow, very shallow
QW04	1/20/97	NA	2.4	159	8.26	4.72	NA	3rd Quarter Location	Immeasureable flow, very shallow
QW05	1/20/97	10:15	8.9	394	8.91	7.68	0.01	1st Quarter Location	Very shallow
QW06	1/20/97	9:30	6.3	403	8.84	6.79	0.02	1st Quarter Location	Very shallow
QW07	1/21/97	7:30	7.2	146	8.24	5.96	NA	1st Quarter Location	No flow, water backed up
QE01	1/23/97	10:30	14.3	432	9.46	6.86	0.20	1st Quarter Location	
QE02	1/23/97	13:30	19.8	565	9.11	4.97	0.02	3rd Quarter Location	
QE03	1/23/97	12:30	19.3	619	9.11	5.41	0.02	1st Quarter Location	
QE04	1/23/97	9:30	15.5	403	9.2	6.55	0.20	1st Quarter Location	
QE05	1/23/97	7:45	14.2	382	8.99	5.18	0.15	1st Quarter Location	
QE06	1/22/97	10:50	12.6	429	9.11	7.33	NA	3rd Quarter Location	Pond, immeasureable flow
QE07	1/22/97	14:15	13.6	354	9.65	8.94	NM	1st Quarter Location	
QE08	1/22/97	9:40	11.6	413	9.51	8.92	NA	2nd Quarter Location	Pond, immeasureable flow
QE09	1/22/97	7:45	11.8	411	9.77	8.58	0.13	1st Quarter Location	Clear, oily sheen after pulling hand auger bucket

Table 4-5
Water Quality Summary
Fourth Quarter Second Year - August 1996

Site	Date	Time	Temperature (degrees C)	Conductivity (umhos/cm)	pH*	DO (mg/l)	Discharge (ft^3/sec)	Description of Site Location	General Comments
QE10	1/21/97	13:00	12.1	395	9.64	8.36	0.19	1st Quarter Location	
QE11	1/21/97	10:00	11.1	404	9.21	9.41	0.02	1st Quarter Location	
Trib B	1/21/97	NA	NA	NA	NA	NA	NA	1st Quarter Location	No water in creek

Notes:
NA=Not Applicable

5.0
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TABLE 7-1 RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES IN SDG 53426 (GENERAL INORGANICS)

LIST OF ACRONYMS

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
CCS	Contract Compliance Screening
COD	Chemical Oxygen Demand
CLP	Contract Laboratory Program
DBC	Dibutyl Chlorendate
DCB	Decachlorobiphenyl
DQO	Data Quality Objective
GC/MS	Gas Chromatograph/Mass Spectrometer
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma Emission Spectrometry
ICP/MS	Inductively Coupled Plasma Emission Spectrometry / Mass Spectrometry
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Completeness, and Comparability
PCB	Polychlorinated Biphenyl
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QES	Quanterra Environmental Services
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
TCX	Tetrachloro-m-xylene
TDS	Total Dissolved Solids

TOC	Total Organic Carbon
TIC	Tentatively Identified Compound
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WCFS	Woodward-Clyde Federal Services

1.0
INTRODUCTION

During January 1997, 39 sediment samples and 15 surface water samples, along with 18 quality assurance samples (4 rinsate blanks, 4 trip blanks, 1 ambient blank, 1 surface water field duplicate samples, 2 sediment field duplicate samples, 1 sets of surface water field designated matrix spike/matrix spike duplicates, and 2 sets of sediment field designated matrix spike/matrix spike duplicates) were collected at Soldier Creek, Tinker Air Force Base, Oklahoma City, Oklahoma in support of the quarterly monitoring program. These samples were shipped in four sample delivery groups (SDGs) to Quanterra Environmental Services (QES)[1] and analyzed by United States Environmental Protection Agency (USEPA) SW-846 methods (USEPA, 1992) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and polychlorinated biphenyls (Pesticide/PCBs), metals, alkalinity, chemical oxygen demand (COD), chloride, hardness, sulfate, total dissolved solids (TDS), total suspended solids (TSS), and/or total organic carbon (TOC) as specified in the Woodward-Clyde Federal Services' (WCFS) Quality Assurance Project Plan (QAPP), Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base, Oklahoma City, Oklahoma (WCFS 1994). The VOC and SVOC analyses were for the analytes listed in Appendix IX from Part 264 of Title 40 of the Code of Federal Regulations (40CFR). Sample aliquots were also delivered to Southwell Laboratory (Southwell)[2] and analyzed for hexavalent chromium by SW-846 Method 7196A.

Quality Assurance/Quality Control (QA/QC) reviews were performed by QES and Southwell prior to reporting the results. An independent data assessment was performed by WCFS. Data assessment is herein defined as the systematic, structured process of evaluating, editing, screening, checking, verifying, and reviewing to assure that analytical data were in compliance with established criteria and were valid for the intended use. This assessment consisted of a full validation for SDG 53426, which contained more than twenty percent of the data, and an evaluation of method, trip, and field blank contamination for all SDGs. The guidance documents

[1] Quanterra Environmental Services. 4955 Yarrow Street, Arvada, Colorado 80002.

[2] Southwell Laboratory, Incorporated. 1838 S.W. 13th Street, Oklahoma City, Oklahoma 73125.

used to conduct the data assessment include the SW-846 methods (USEPA, 1992) and the EPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic and Inorganic Data Review (Guidelines) (USEPA, 1994a, 1994b).

The full validation consisted of a review of SW-846 results summary sheets and instrument reports for QA/QC parameters such as matrix spikes (MSs), matrix spike duplicates (MSDs), detection limits, calibrations, laboratory control samples (LCSs), chain of custody forms, sample preparations, holding times, etc. In addition the review, consisted of recalculating laboratory data and standard calibration curves, checking for transcription errors, and carefully checking chromatograms and reconstructed ion chromatograms. The purpose of the full validation is to evaluate whether laboratory performance and analytical data were in compliance with method requirements and project specifications for accuracy, precision, validity, and completeness.

The data assessment process provides information on analytical limitations of data based on regulatory or method specific QA/QC criteria. In addition, the review process assigns data qualifiers and provides a statement concerning usability of data. To ensure the data gathered during the investigation activities were adequate; precision, accuracy, representativeness, completeness, and comparability (PARCC) parameter targets have been identified for Level III analyses during the development of Data Quality Objectives (DQOs) and planning of the field activities. Level III analyses included all laboratory analyses using EPA methods. Quality of the analytical data is indicated by the calculation of values for precision, accuracy, and completeness. The quantitative target values for precision, accuracy, and completeness were as follows:

- Precision = 20 percent
- Accuracy = control limits specified for the particular analysis
- Completeness = 90 percent

Comparability and representativeness were assessed in a qualitative evaluation of the data generated during the field investigation. This report summarizes the findings of the data assessment.

2.0
PARCC PARAMETERS

The PARCC parameters were identified specifically in Section 13.0 of the QAPP (WCFS, 1994).

2.1 PRECISION

Precision is a measure of agreement between a set of duplicate measurements and is used as a check on the quality of the analytical procedures. Precision is assessed through the calculation of a relative percent difference (RPD) between duplicate analytical results of a sample component. Sets of MS/MSDs provide the duplicate results which are used to calculate RPD.

2.2 ACCURACY

Accuracy is a measure of the nearness of a result to the true value. Possible causes of low accuracy are field or laboratory contamination, preservation, handling, sample matrix, sample preparation, and analytical techniques. Accuracy is assessed through the use of reference materials and is expressed as the percent recovery (%R) of the known concentration. The accuracy of reported data is assessed through %Rs from MSs, surrogate spikes, LCSs, and instrument performance during instrument calibration (initial calibration, continuing calibration, and internal standards performance).

2.2.1 Matrix Spike Percent Recovery

A matrix is defined as the predominant material composition of the sample to be analyzed. A matrix is usually referred to as aqueous, soil, or solid, but is not synonymous with phase (liquid or solid). A measured portion of a sample which has been fortified (spiked) with known quantities of specific compounds is referred to as a MS. A second spiked portion of the same matrix is the MSD. After being spiked, the MS/MSD samples are subjected to the complete analytical procedure. The %R is calculated for each spiked analyte and must meet established SW-846 control limits (USEPA, 1992). In addition to providing an indication of accuracy, the

%R value indicates the appropriateness (the precision) of the method for the matrix. Sample matrix effects are evaluated using MS/MSDs (VOCs and SVOCs) and MS (metals) analyses. The samples utilized for MS/MSDs are shown in **Table 2-1**.

2.2.2 Surrogate Percent Recovery

Organic data accuracy is assessed on an individual sample basis using surrogate compound %Rs. Surrogate standards are intended to represent the entire suite of analyzed compounds with similar chemical and physical characteristics. These compounds are spiked into all blanks, calibration standards, samples, and MS/MSDs, and LCSs prior to sample preparation and analysis. The %R is calculated for each surrogate and must meet established SW-846 control limits to be acceptable (USEPA, 1992).

Inorganic analyses do not incorporate the use of surrogate compounds.

2.2.3 Laboratory Control Sample Percent Recovery

The LCSs are well-characterized, laboratory generated samples used to monitor the laboratory's daily performance of analytical methods independent of matrix effects. The laboratory analyzed an LCS with each analytical batch of samples for each sample preparation method. The LCS consists of a control matrix that is spiked with target analytes. For LCSs the %Rs are calculated for each of the analytes detected and must meet the control limits established by the laboratory in order to be acceptable.

2.2.4 Calibrations

2.2.4.1 Initial Calibrations

Instruments must be calibrated correctly in order to ensure the accuracy and precision of the sample results. For organic analyses the relative response factors (RRFs) must be at least 0.05 for each compound. Also, the percent relative standard deviations (%RSDs) between the RRFs for the same compound but different standards must be within 30 percent. For inorganic

analyses, the calibration curves must be linear, and the initial calibration verification %Rs must be within the control limits.

2.2.4.2 Continuing Calibrations

Instruments must be checked on a regular basis to ensure that the calibration curve is still valid. For organic analyses, the percent difference (%D) between the average RRF for a compound and the continuing calibration RRF must be within 25 percent. The minimum RRF is 0.05 for all compounds of interest. For inorganic analyses, the continuing calibration verification %Rs must be within the control limits.

2.2.5 Internal Standard Performance

For VOC and SVOC analyses all standards and samples are spiked with internal standards. Quantitation of target compound concentrations in a sample is based upon internal standard areas for that sample. This eliminates some of the variability in sample results due to injection technique and gas chromatograph/mass spectrometer (GC/MS) sensitivity and response. Internal standard areas and retention times must be within control limits.

2.2.6 Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery

Graphite Furnace Atomic Adsorption (GFAA) post-digestion spikes establish the accuracy of the individual GFAA analytical measurements for arsenic and selenium.

2.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data accurately and precisely represent actual site conditions. The criterion for representativeness is best satisfied by making certain that sampling locations are properly selected and a sufficient number of samples are collected. Confirmation that specified holding times were met and examination of the results obtained from blanks provide a measure of assurance that the samples collected are representative of the sampling points.

2.3.1 Holding Times

Holding time is defined, according to a specific method, regulation, or project requirement, as the period of time during which samples, after collection and preservation, may be stored prior to analysis.

2.3.2 Blanks

Potential contamination is evaluated through the use of method blanks, trip blanks, and field blanks (rinsates and ambient).

2.3.2.1 Method Blanks

Method blank analyses are used to assess possible sample contamination due to laboratory procedures and/or equipment. Method blanks are analytical control samples consisting of all reagents, internal standards, and surrogate standards. These blanks are subjected to the same laboratory preparation and analytical processes as the samples.

2.3.2.2 Trip Blanks

Trip blanks are used to assess effects of shipping activities on investigative sample VOC data. Trip blanks, prepared using analyte-free laboratory-grade water, are kept with the VOC sample containers during shipment to the laboratory for analysis.

2.3.2.3 Field Blanks (Rinsates and Ambient)

Field blanks are used to evaluate potential cross-contamination of samples due to sample handling and field sampling equipment. Rinsate blanks are prepared by rinsing the sampling equipment with analyte-free laboratory grade water immediately following the equipment decontamination procedure. An ambient blank is prepared by pouring analyte-free laboratory-grade water into a sample container at the site. The ambient blank allows the evaluation of

potential cross-contamination due to field sample handling and the evaluation of the quality of the laboratory reagent water used for decontamination.

2.3.3 Field Duplicates

Field duplicates are collected to check the representativeness of the field samples. The RPD between field duplicate results should be adequately low to ensure that sampling and analytical techniques can be reproduced. The samples duplicated and the field duplicate samples are listed in **Table 2-1**.

2.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid.

2.5 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Sample data should be comparable with other measurement data for similar samples and conditions. This goal is achieved by using standard techniques to collect and analyze representative samples and reporting analytical results in the appropriate units.

2.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is evaluated through dilutions and quantitation limits of chemical analysis.

3.1 PRECISION

Based on the results presented in Section 3.1.1, the overall precision for VOC analyses was judged to be within the acceptance criteria identified in Section 1.0.

3.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. For VOCs the MS/MSD samples were spiked with target compounds (1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene) at 10 times the reporting limit. Values for RPD were calculated for each VOC spiked in the MS/MSD samples. RPDs were acceptable for all VOCs. No qualification of the data was necessary based upon MS/MSD precision.

3.2 ACCURACY

Based on the results presented in the following sections, the overall accuracy for VOC analyses was judged to be within the acceptance criteria identified in Section 1.0.

3.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for VOCs met the acceptance criteria, therefore, no qualification was necessary based upon matrix spike accuracy.

3.2.2 Surrogate Percent Recovery

The surrogates used for Method 8260 were toluene-d8, 4-bromofluorobenzene, dibromofluoromethane, and 1,2-dichloroethane-d4. All surrogate %Rs for VOCs were within the acceptable range in all samples and blanks.

3.2.3 Laboratory Control Sample Percent Recovery

The laboratory analyzed a LCS with each analytical batch of samples for each organic method. For VOC analyses, the LCS consists of a control matrix that was spiked with target compounds (1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene) at 10 times the reporting limit. All %Rs for the LCSs for VOC analyses were within the acceptable range.

3.2.4 Calibrations

3.2.4.1 Initial Calibrations

All initial calibrations for VOC analyses met the required criteria except for ethanol and acrolein, whose relative response factor were below the minimum acceptance criteria of 0.05. The results for ethanol and acrolein were qualified as unusable (R). The qualifications made as a result of unacceptable initial calibration criteria are shown in **Table 3-1**.

3.2.4.2 Continuing Calibrations

All continuing calibrations for VOC analyses met the required criteria except for the VOCs listed in **Table 3-1**. The compounds outside the continuing calibration criteria which were not detected in the associated samples were qualified as not detected with the quantitation limit estimated (UJ) at the reporting limit. The compounds with detected quantities were qualified as estimated (J).

3.2.5 Internal Standard Performance

Internal standards performance criteria ensure that GC/MS sensitivity and response were stable during every analytical run. For VOC analyses, internal standard peak areas and retention times were used to assess GC/MS performance. All internal standard peak areas and retention times were within control limits. Therefore, the GC/MS performance was acceptable.

3.3 REPRESENTATIVENESS

3.3.1 Holding Times

All holding times were met for analysis of VOCs for all samples in SDG 53426.

3.3.2 Blanks

Results of each category of blanks for VOC analyses are discussed in the following sections. Common volatile laboratory contaminants (acetone, 2-butanone, and methylene chloride) were qualified as not detected (U) in a sample if the concentration in the sample is less than 10 times the concentration in the associated blank. For other volatile compounds that were detected in a sample as well as the associated blank, the results were qualified if the concentration is less than 5 times the concentration in the associated blank.

3.3.2.1 Method Blanks

As shown in **Table 3-2**, acetone and/or methylene chloride were found in several of the method blanks. These two compounds, as discussed above, are specified as common volatile laboratory contaminants (USEPA, 1994a). The associated samples were qualified as not detected (U) with the detection limit at the concentration reported for the compound in the sample analysis, the concentration reported in the method blank, or the method detection limit, whichever was the highest concentration. The results qualified based upon method blank contamination are summarized in **Table 3-2**.

3.3.2.2 Trip Blanks

The five volatile compounds (acetone, acrylonitrile, bromomethane, 2-butanone, and methylene chloride) detected in the trip blanks, are shown in **Table 3-3**. While some of the acetone and methylene chloride detections were previously qualified as not detected (U) based upon method blank contamination, there were additional detections which were qualified as not detected (U) based upon trip blank contamination. The qualifications and detection limits of sample data based upon trip blank contamination are summarized in **Table 3-3**.

3.3.2.3 Field Blanks (Rinsates and Ambient)

Acetone, acrolein, acrylonitrile, bromomethane, 2-butanone, chloroform, 2-hexanone, 4-methyl-2-pentanone, and methylene chloride were detected in the field blanks. Some of the detections were previously qualified as not detected (U) based upon method blank or trip blank contamination. However, some of the associated samples with detections had not been previously qualified as not detected (U). The results qualified based upon field blank contamination are given in **Table 3-4**. The chloroform, 2-hexanone, and 4-methyl-2-pentanone were not detected in any of the associated investigative samples, therefore no qualifications of the results were necessary.

Acrolein, 2-butanone, and methylene chloride were detected in samples which were not associated with field blanks that contained these compounds. It is the reviewer's judgement that the concentrations of these detections along with the fact that these compounds were detected in other field blanks implies that these detections were the result of contamination. Therefore, these detections were qualified as not detected (U) based upon professional judgement. The qualifications to the results based upon professional judgement are shown in **Table 3-5**.

3.3.3 Field Duplicates

No target compounds were detected in the field duplicate samples which had not been qualified as not detected based upon blank contamination. Therefore, no additional qualifications were necessary.

3.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results were judged to be valid. The only data that were found to be invalid were the ethanol results. Completeness of the VOC data was greater than 90 percent and, therefore, was acceptable.

3.5 COMPARABILITY

The sampling procedures for VOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). VOC samples were analyzed by Method 8260 as required. All reporting units for VOC analyses were consistent. Therefore, comparability of the VOC data was acceptable.

3.6 SENSITIVITY

Laboratory quantitation limits achieved in VOC analyses for SDG 53426 met the project requirements. Sensitivity for the VOC analyses was acceptable.

4.0
SEMIVOLATILE ORGANIC COMPOUNDS

4.1 PRECISION

Based on the results presented in Section 4.1.1, the overall precision for SVOC analyses was judged to be within the acceptance criteria identified in Section 1.0.

4.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. For SVOCs, the MS/MSD samples were spiked with target compounds (acenaphthene, 4-chloro-3-methylphenol, 2-chlorophenol, 1,4-dichlorobenzene, 2,4-dinitrotoluene, 4-nitrophenol, n-nitroso-di-n-propylamine, pentachlorophenol, phenol, pyrene, and 1,2,4-trichlorobenzene) at 2.5 to 10 times the reporting limit. RPDs were calculated for each SVOC spiked into the MS/MSD samples. All RPDs were 20% or less, with the exception of the RPDs for samples SC-QW07-SW-901 MS/MSD. The RPDs for all spiked compounds for samples SC-QW07-SW-901 MS/MSD were between 39 and 53% due to the lowered, yet acceptable, recoveries in the MSD sample. The problems appear to be related just to the analysis of the MSD sample. Therefore, no qualifications were judged necessary based upon the precision.

4.2 ACCURACY

Based on the results presented in the following sections, the overall accuracy for SVOC analyses was judged to be within the acceptance criteria identified in Section 1.0.

4.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for SVOCs met the acceptance criteria. Although the recoveries of the spiked compounds in sample SC-QW07-SW-901 MSD demonstrated a low bias, the recoveries were still within acceptable limits.

4.2.2 Surrogate Percent Recovery

For SVOCs, all samples were spiked with surrogate compounds (nitrobenzene-d5, 2-fluorobiphenyl, terphenyl-d14, 2-fluorophenol, phenol-d5, and 2,4,6-tribromophenol). The surrogate %Rs for SVOCs were within the acceptable range in all samples.

4.2.3 Laboratory Control Sample Percent Recovery

The laboratory analyzed an LCS with each analytical batch of samples for each organic method. For SVOC analyses, the LCS samples were a control matrix spiked with target compounds (acenaphthene, 4-chloro-3-methylphenol, 2-chlorophenol, 1,4-dichlorobenzene, 2,4-dinitrotoluene, 4-nitrophenol, n-nitroso-di-n-propylamine, pentachlorophenol, phenol, pyrene, and 1,2,4-trichlorobenzene) at 5 to 20 times the reporting limit. All %Rs for the LCSs for SVOC analyses were within the acceptable range.

4.2.4 Calibrations

4.2.4.1 Initial Calibrations

The initial calibrations for the SVOC analyses met the required criteria. Therefore, no qualifications were necessary based upon unacceptable initial calibrations.

4.2.4.2 Continuing Calibrations

All continuing calibrations for SVOC analyses met the required criteria except for the SVOCs listed in **Table 4-1**. The SVOCs with %Ds outside the criteria which were not detected in the associated samples were qualified as not detected with the quantitation limit estimated (UJ). The SVOCs with %Ds outside the criteria and detected quantities in the associated samples were qualified as estimated (J) in those samples.

4.2.5 Internal Standard Performance

All internal standards for SVOC analyses met the required criteria.

4.3 REPRESENTATIVENESS

4.3.1 Holding Times

All holding times were met for the preparation and analysis of SVOCs for all samples.

4.3.2 Blanks

Results of each category of blanks for SVOC analyses are discussed in the following sections.

4.3.2.1 Method Blanks

Only one target SVOC was detected in the method blanks. Bis(2-ethylhexyl)phthalate was detected in several method blanks associated with the aqueous samples. The qualifications to the SVOC results based upon method blank contamination are listed in **Table 4-2**.

4.3.2.2 Field Blanks (Rinsate Blanks)

Only one target SVOC was detected in the field blanks. Bis(2-ethylhexyl)phthalate was detected in at least one rinsate blank. The qualifications to the SVOC results based upon field blank contamination are listed in **Table 4-3**.

4.3.3 Field Duplicates

Three field duplicate sets were collected during the field investigation. No SVOCs, other than bis(2-ethylhexyl)phthalate which was qualified as not detected (U) based upon method blank contamination, were detected in the field duplicate samples. Therefore, no evaluation of the representativeness based upon the agreement of the field duplicates for SVOCs was able to be made.

4.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results were judged to be valid. All results were judged to be valid as qualified. Therefore, completeness of the SVOC data was greater than 90 percent and was acceptable.

4.5 COMPARABILITY

Comparability of the SVOC data was acceptable. The sampling procedures for SVOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). SVOC samples were analyzed by Method 8270 as required. All reporting units for SVOC analyses were consistent with the matrix.

4.6 SENSITIVITY

Dilutions were required during the analyses of two samples in SDG 53426. The dilutions are listed in **Table 4-4**. Laboratory quantitation limits achieved for SVOC analyses met the project requirements. Sensitivity for the SVOC analyses was acceptable.

5.1 PRECISION

Based on the results presented in Section 5.1.1, the overall precision for the analysis of pesticide/PCBs in SDG 53426 was judged to be within the acceptance criteria identified in Section 1.0.

5.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. For pesticide/PCBs, the MS/MSDs were samples spiked with target compounds (aldrin, 4,4'-DDT, dieldrin, endrin, gamma-BHC (lindane), and heptachlor) at 4 to 20 times the reporting limits. RPDs were calculated for each pesticide spiked into the MS/MSD samples. All RPDs for the MS/MSD samples were acceptable. Therefore, no qualification to the results was judged necessary.

5.2 ACCURACY

Based on the results presented in Sections 5.2.1, 5.2.2 and 5.2.3, the overall accuracy for pesticide/PCB analyses in SDG 53426 was judged to be within the acceptance criteria identified in Section 1.0.

5.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for pesticide/PCB analyses met the acceptance criteria. No qualifications of the results were judged necessary.

5.2.2 Surrogate Percent Recovery

The surrogates used for Method 8080 were dibutyl chlorendate (DBC), decachlorobiphenyl (DCB), and tetrachloro-m-xylene (TCX). The surrogate %Rs were acceptable in all samples except the sediment samples which were diluted due to high levels of interfering compounds. It was not possible to quantitate the surrogates for these samples. The sample IDs and the dilutions are shown in **Table 5-1**. No qualification of the data was required.

5.2.3 Laboratory Control Sample Percent Recovery

The laboratory analyzed an LCS with each analytical batch of samples for each organic method. For pesticide/PCB analyses, an LCS consisted of a control matrix that was spiked with target compounds (aldrin, 4,4'-DDT, dieldrin, endrin, gamma-BHC (lindane), and heptachlor) at 4 to 15 times the reporting limits. All %Rs for the LCSs for pesticide/PCB analyses were within the acceptable range.

5.2.4 Calibrations

5.2.4.1 Initial Calibrations

All initial calibrations for pesticide/PCB analyses met the required criteria.

5.2.4.2 Continuing Calibrations

Continuing calibrations for pesticide/PCB analyses met the required criteria.

5.3 REPRESENTATIVENESS

5.3.1 Holding Times

All holding times were met for the pesticide/PCB analyses of all samples.

5.3.2 Blanks

Results of each category of blanks for pesticide/PCB analyses are discussed in the following sections.

5.3.2.1 Method Blanks

No pesticides/PCBs were detected in the method blanks.

5.3.2.2 Field Blanks (Rinsate Blanks)

No pesticides/PCBs were detected in the field blanks of SDG 53426.

5.3.3 Field Duplicates

Two sets of field duplicate samples were reported in SDG 53426. No pesticide/PCB analytes were detected in the two sets of field duplicates. Therefore, no qualifications were made based upon field duplicate results.

5.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results were judged to be valid. All results were judged to be valid. Therefore, completeness of the pesticide/PCB data was greater than 90 percent and was acceptable.

5.5 COMPARABILITY

The sampling procedures for pesticide/PCB samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). Pesticide/PCB samples were analyzed by Method 8080 as required. All reporting units for pesticide/PCB analyses were consistent. The identifications, or lack of identification, were judged to be correct. Samples SC-QE10-SD-901, SC-QE10-SD-902, SC-QE10-SD-903, SC-QE11-SD-901, SC-QE11-SD-902, and SC-TR01-SD-901 have detectable quantities of what appears to be Halowax 1014. However, no pesticide/PCB detections were found or reported in SDG 53426. Although pesticide compounds were identified as possible detections on one analytical system, the compounds were not confirmed on the second system. Therefore, comparability of the pesticide/PCB data was acceptable.

5.6 SENSITIVITY

Dilutions of sediment samples were necessary for pesticide/PCB analyses **(Table 5-1)**. However, laboratory quantitation limits achieved in pesticide/PCB analyses met the project requirements. Sensitivity for pesticide/PCB analyses was acceptable.

6.1 PRECISION

Based on the results presented in Section 6.1.1 , the overall precision for metals analyses was judged to be within the acceptance criteria identified in Section 1.0.

6.1.1 Matrix Spikes/Matrix Spike Duplicates

Samples used for MS/MSD are listed in **Table 2-1**. Values for RPD were calculated for each analyte spiked in the MS/MSD samples. The sediment MS/MSD RPD was outside of criteria for barium and, calcium. The surface water MS/MSD RPD for dissolved vanadium was outside of criteria. The associated samples with reported quantities of these elements were qualified as estimated (J), while samples with quantities below the detection limit were qualified as detection limit estimated (UJ). The summary of qualifications are shown in **Table 6-1**.

6.2 ACCURACY

Based on the results presented in Sections 6.2.1, 6.2.2 and 6.2.3, the overall accuracy for metals analyses was judged to be within the acceptance criteria identified in Section 1.0.

6.2.1 Matrix Spike Percent Recovery

One sediment MS/MSD and one surface water MS/MSD were analyzed for SDG 53426. The %Rs for dissolved vanadium in the surface water MS/MSD was lower than the lower acceptance criteria. The detected quantities of vanadium was previously qualified based upon MS/MSD RPDs, therefore, no further qualification was required. Calcium had low %R for the surface water MS result and high %Rs for the sediment MS and MSD. Barium had a low %R for the sediment MSD. The barium and calcium results were previously qualified as estimated (J) based upon MS/MSD

RPDs, therefore, no further qualifications were required. Antimony, arsenic, chromium, lead, and selenium had low %Rs for the sediment MS/MSDs. The antimony, arsenic, and zinc results for the sediment samples were qualified as estimated (J) for results with detections and as not detected with the detection limit estimated (UJ) for results with no detections. The lists of qualifications are shown in **Tables 6-1** and **6-2**.

6.2.2 Duplicate Control Sample Percent Recovery

The DCS %Rs were within the acceptance limits of 80-120 percent for all samples.

6.2.3 Calibrations

6.2.3.1 Initial Calibrations

The initial calibrations for metal analyses were acceptable. No action was required.

6.2.3.2 Continuing Calibrations

The continuing calibrations for metal analyses were acceptable. No action was required.

6.2.4 Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery

The post-digestion spike %Rs for arsenic and selenium were within criteria for all analyses except for samples listed in **Table 6-3** which required qualification. Samples with %Rs outside of criteria limits were qualified if the sample concentration was less than 50% of the post digestion spike concentration. results were qualified as estimated (J) for results with detections and as detection limit estimated (UJ) for results with no detections. Samples qualified as a result of post digestion spike not meeting criteria limits are shown in **Table 6-3**.

6.3 REPRESENTATIVENESS

6.3.1 Holding Times

All holding times were met for metals analyses of all samples.

6.3.2 Blanks

Results of each category of blanks for metals analysis is discussed below.

6.3.2.1 Method Blanks

All quantities of metals analytes in method blanks were below the reporting limit. Therefore, no qualifications were necessary.

6.3.2.2 Field Blanks

The field blanks were not analyzed for metals.

6.3.3 Field Duplicates

Results of total metals for the field duplicate analyses are presented in **Table 6-4**. Results of dissolved metals for the field duplicate analyses are presented in **Table 6-5**. Only those compounds with at least one detection were included. The precision shown for the duplicate samples was the result of the variability in analytical technique, variability in sample collection, and analytical results close to the detection limit for several analytes. At mg/kg or mg/L concentration, these factors were important and should be considered as contributors to the variance in field duplicate results. No actions were taken on the basis of field duplicate results.

6.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results were judged to be valid. Completeness of the metals data was greater than 90 percent and was acceptable.

6.5 COMPARABILITY

Comparability of the metals data was acceptable. The sampling procedures for metal samples were documented to be consistent with the required methods. Metals (except mercury, arsenic, and selenium) in sediment samples were analyzed by Method 6010 as required. Metals (except mercury, arsenic, calcium, iron, magnesium, potassium, and sodium) in surface water samples were analyzed using ICP-MS (Method 6020). The calcium, iron, magnesium, potassium, and sodium for surface water samples were analyzed using Method 6010 as required. Mercury samples were analyzed by Method 7470, arsenic by Method 7060, and selenium in sediment samples by Method 7740. All reporting units for metals analyses were consistent.

6.6 SENSITIVITY

The reporting limit for arsenic, selenium and mercury in sample SC-QE10-SD-901 was raised as a result of dilutions. The dilution was required due to matrix interferences. The reporting limit for selenium in eight samples and arsenic in one sample were raised as a result of matrix interferences, although dilution of the samples were not necessary. Samples requiring raised reporting limits are listed in **Table 6-6**. Quantitation limits for metals analyses for all investigative samples met the project requirements. Sensitivity for metals analyses was acceptable.

7.1 PRECISION

Based on the results presented in Section 7.1.1, the overall precision for alkalinity, chloride, COD, hardness, hexavalent chromium, TDS, TOC, TSS, and sulfate analyses was judged to be within acceptance criteria identified in Section 1.0.

7.1.1 Matrix Spikes/Matrix Spike Duplicates

Samples used for MS/MSD are listed in **Table 2-1**. Values for RPD were calculated for each analyte spiked in the MS/MSD samples. The results were acceptable for all analyses.

7.2 ACCURACY

Based on the results presented in Sections 7.2.1, 7.2.2 and 7.2.3, the overall accuracy was judged to be within the acceptance criteria identified in Section 1.0.

7.2.1 Matrix Spike Percent Recovery

One surface water MS/MSD set was analyzed in SDG 53426. Since the hexavalent chromium analyses included sediment samples, one sediment MS/MSD set was analyzed for hexavalent chromium. All recoveries met acceptance criteria. No action was required.

7.2.2 Laboratory Control Sample Percent Recovery

The LCS %Rs were within the acceptance limits of 80-120 percent for all samples.

7.2.3 Calibrations

The calibrations for all analyses were acceptable.

7.3 REPRESENTATIVENESS

7.3.1 Holding Times

The holding times were met for all samples.

7.3.2 Method Blanks

Method blanks were free of contamination.

7.3.3 Field Duplicates

Results of field duplicate analyses are presented in **Table 7-1**. The precision shown for the duplicate samples was the result of the variability in analytical technique and variability in sample collection. No qualifications were necessary.

7.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results were judged to be valid. Completeness of the general inorganics data was greater than 90 percent and was acceptable.

7.5 COMPARABILITY

Comparability of the general inorganics data was acceptable. The sampling procedures for the samples were documented to be consistent with the required methods. Alkalinity was analyzed in water samples using USEPA Method 310.1. Chloride and sulfate were analyzed in water samples using USEPA Method 300.0. COD was analyzed in water samples using USEPA Method 410.4.

Hardness in the water samples was measured using USEPA Method 130.2. Hexavalent chromium was analyzed using USEPA SW-846 Method 7196A in both water and sediment samples. The sediment samples were digested prior to analysis for hexavalent chromium using USEPA SW-846 Proposed Method 3060. TDS was analyzed in water samples using USEPA Method 160.1. TOC was analyzed in the water samples using USEPA Method 415.1. TSS was analyzed in the water samples using USEPA Method 160.2. All reporting units for the inorganic analyses were consistent.

7.6 SENSITIVITY

Quantitation limits for the general inorganic analyses for all investigative samples met the project requirements. Sensitivity for the general inorganic analyses was acceptable.

8.0
CONCLUSIONS

The data generated during the August 1996 Quarterly Monitoring at Soldier Creek, Tinker Air Force Base were reviewed. The data were judged to be usable as received from QES and Southwell for their stated and intended purpose. Those data qualified as a result of this data review were identified. Results qualified as unusable (R) should be disregarded. Results qualified as estimated (J) or quantitation limits estimated (UJ) should be used with caution.

9.0
REFERENCES

U.S. Environmental Protection Agency (USEPA). 1992. Test Methods for Evaluating Solid Waste. SW-846, 7-92, Rev 1.

U.S. Environmental Protection Agency (USEPA). 1994a. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. February 1994 Revision.

U.S. Environmental Protection Agency (USEPA). 1994b. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. February 1994 Revision.

Woodward-Clyde Federal Services (WCFS). 1994. Quality Assurance Project Plan, Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base, Oklahoma City, Oklahoma. Prepared for Department of Air Force, Tinker AFB, Oklahoma City, Oklahoma. August.

TABLES

TABLE 2-1

FIELD SAMPLES USED FOR MS/MSDs AND FIELD DUPLICATE SAMPLES
(FIRST QUARTER 1997)

SDG NUMBER	FIELD SAMPLE ID	FIELD DUPLICATE ID	MS/MSD IDs
53426	SC-QW07-SW-901 SC-QW07-SD-901	SC-QW07-SW-1401 SC-QW07-SD-1401	SC-QW07-SW-901-MSMSD SC-QW07-SD-901-MSMSD
53447	SC-QE05-SD-901	SC-QE05-SD-1401	SC-QE05-SD-901-MS/MSD

TABLE 3-1

RESULTS QUALIFIED BASED UPON UNACCEPTABLE INITIAL AND/OR CONTINUING CALIBRATIONS IN SDG 53426 (VOLATILE ORGANIC COMPOUNDS)

Instrument	Date	Compound	Q	Relative Response Factor	Relative Standard Deviation	Percent Difference	Sample Delivery Group	Samples Affected
		Initial Calibration						
H	1/27/97	Ethanol	R	<0.05	MC		53426	SC-QW07-SD-901
		Acrolein	R	<0.05	MC			SC-QW07-SD-902
								SC-QW07-SD-903
								SC-QW07-SD-1401
								SC-QE10-SD-901
								SC-QE10-SD-902
								SC-QE10-SD-903
								SC-QE11-SD-901
								SC-QE11-SD-902
								SC-TR01-SD-901
H	1/28/97	Continuing Calibration						
		Acetone	J, UJ*	MC		>25	53426	SC-QW07-SD-901*
		2-Butanone	UJ	MC		>25		SC-QW07-SD-1401
		2-Hexanone	UJ	MC		>25		
H	1/29/97	Continuing Calibration						
		Acetone	J	MC		>25	53426	SC-QW07-SD-902*
		2-Butanone	J, UJ*	MC		>25		SC-QW07-SD-903*
								SC-QE10-SD-901
								SC-QE10-SD-902
								SC-QE10-SD-903
								SC-QE11-SD-901
								SC-QE11-SD-902
								SC-TR01-SD-901
		Initial Calibration						
Z	2/3/97	Ethanol	R	<0.05	MC		53426	SC-QW07-SW-901
								SC-QW07-SW-1401
								SC-QE10-SW-901
								SC-QE11-SW-901
		Continuing Calibration						
Z	2/3/96	Acetone	J	MC		>25	53426	SC-QW07-SW-901
								SC-QW07-SW-1401
								SC-QE10-SW-901
								SC-QE11-SW-901

Q = Qualifier
MC = Meets Criteria

TABLE 3-2

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON METHOD BLANK CONTAMINATION (VOLATILE ORGANIC COMPOUNDS)

Blank ID	Compound	Blank Concentration (mg/L)	Detection Limit	Associated Samples
28-JAN97-Z	Acetone	0.003	0.010 mg/L	SC-QW03-SW-901
			0.010 mg/L	SC-QW05-SW-901
			0.010 mg/L	SC-QW06-SW-901
03-FEB97-Z	Acetone	0.0049	0.010 mg/L	SC-QW07-SW-901
			0.010 mg/L	SC-QW07-SW-1401
			0.010 mg/L	SC-QE08-SW-901
			0.010 mg/L	SC-QE09-SW-901
			0.010 mg/L	SC-QE10-SW-901
			0.010 mg/L	SC-QE11-SW-901
04-FEB97-Z	Acetone	0.0046	0.010 mg/L	SC-QE06-SW-901
			0.010 mg/L	SC-QE07-SW-901
05-FEB97-Z	Acetone	0.0037	0.010 mg/L	SC-QE01-SW-901
			0.010 mg/L	SC-QE02-SW-901
			0.010 mg/L	SC-QE03-SW-901
			0.010 mg/L	SC-QE04-SW-901
			0.010 mg/L	SC-QE05-SW-901
29-JAN97-H	Acetone	0.0028	0.025 mg/kg	SC-QW07-SD-902
			0.012 mg/kg	SC-QW07-SD-903
			0.016 mg/kg	SC-QE09-SD-901
			0.019 mg/kg	SC-QE09-SD-902
			0.012 mg/kg	SC-QE10-SD-901
			0.021 mg/kg	SC-QE10-SD-902
			0.012 mg/kg	SC-QE10-SD-903
			0.016 mg/kg	SC-QE11-SD-901
			0.019 mg/kg	SC-QE11-SD-902
			0.015 mg/kg	SC-TR01-SD-901
03-FEB97-H	Acetone	0.005	0.013 mg/kg	SC-QE07-SD-901
			0.011 mg/kg	SC-QE07-SD-902
			0.014 mg/kg	SC-QE07-SD-903
05-FEB97-H	Acetone	0.0036	0.012 mg/kg	SC-QE02-SD-901
			0.017 mg/kg	SC-QE02-SD-902
			0.034 mg/kg	SC-QE03-SD-901
	Methylene Chloride	0.001	0.006 mg/kg	SC-QE02-SD-901
			0.006 mg/kg	SC-QE02-SD-902
			0.006 mg/kg	SC-QE03-SD-901

TABLE 3-3

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON TRIP BLANK CONTAMINATION (VOLATILE ORGANIC COMPOUNDS)

Trip Blank ID	Compound	Blank Concentration (mg/L)	Detection Limit	Associated Samples
SC-QW00-SW-901 TRIP	Acetone	0.0056	0.012 mg/kg	SC-QW01-SD-903
			0.027 mg/kg	SC-QW02-SD-902
			0.044 mg/kg	SC-QW03-SD-901
			0.023 mg/kg	SC-QW03-SD-903
			0.055 mg/kg	SC-QW04-SD-901
			0.016 mg/kg	SC-QW04-SD-903
			0.012 mg/kg	SC-QW05-SD-901
	Acrylonitrile	0.0036	0.12 mg/kg	SC-QW01-SD-901
	Bromomethane	0.0017	0.010 mg/L	SC-QW03-SW-901
			0.010 mg/L	SC-QW05-SW-901
			0.010 mg/L	SC-QW06-SW-901
SC-QW00-SW-902 TRIP	Acetone	0.0062	0.012 mg/kg	SC-QW07-SD-1401
SC-QE00-SW-903 TRIP	Methylene chloride	0.0039	0.005 mg/L	SC-QE06-SW-901
			0.005 mg/L	SC-QE07-SW-901
	2-Butanone	0.0019	0.013 mg/kg	SC-QE06-SD-903
			0.012 mg/kg	SC-QE07-SD-901
			0.012 mg/kg	SC-QE07-SD-902
			0.012 mg/kg	SC-QE07-SD-903
			0.012 mg/kg	SC-QE09-SD-901
			0.012 mg/kg	SC-QE09-SD-902
			0.012 mg/kg	SC-QE09-SD-903
			0.010 mg/L	SC-QE07-SW-901
			0.010 mg/L	SC-QE08-SW-901
			0.010 mg/L	SC-QE09-SW-901
SC-QW00-SW-904 TRIP	Methylene chloride	0.0046	0.010 mg/L	SC-QE02-SW-901
			0.010 mg/L	SC-QE03-SW-901
	2-Butanone	0.004	0.012 mg/kg	SC-QE02-SD-902
			0.012 mg/kg	SC-QE03-SD-901
			0.010 mg/L	SC-QE01-SW-901
			0.010 mg/L	SC-QE02-SW-901
			0.010 mg/L	SC-QE04-SW-901

TABLE 3-4

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON FIELD BLANK CONTAMINATION (VOLATILE ORGANIC COMPOUNDS)

Field Blank ID	Compound	Blank Concentration (mg/L)	Detection Limit	Associated Samples
SC-QW00-SW-900 AMB	Acrylonitrile	0.0015	0.10 mg/L 0.10 mg/L	SC-QE02-SW-901 SC-QE09-SW-901
SC-QE09-SW-901 RIN	Acrolein	0.0027	0.10 mg/L	SC-QE09-SW-901
SC-QW06-SW-901 RIN	2-Butanone	0.003	0.014 mg/kg 0.012 mg/kg 0.012 mg/kg 0.028 mg/kg 0.012 mg/kg 0.012 mg/kg	SC-QW02-SD-901 SC-QW02-SD-902 SC-QW03-SD-901 SC-QW03-SD-902 SC-QW03-SD-903 SC-QW04-SD-903
	Methylene chloride	0.0013	0.012 mg/kg 0.012 mg/kg 0.012 mg/kg 0.012 mg/kg 0.012 mg/kg 0.012 mg/kg 0.012 mg/kg 0.012 mg/kg	SC-QW01-SD-901 SC-QW01-SD-902 SC-QW02-SD-901 SC-QW02-SD-902 SC-QW03-SD-901 SC-QW03-SD-903 SC-QW04-SD-903 SC-QW06-SD-901

TABLE 3-5

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON REVIEWER'S PROFESSIONAL JUDGEMENT (VOLATILE ORGANIC COMPOUNDS)

Compound	Detection Limit	Sample IDs
Acrolein	0.10 mg/L	SC-QE02-SW-901
2-Butanone	0.012 mg/kg	SC-QE10-SD-901
	0.012 mg/kg	SC-QE10-SD-902
	0.012 mg/kg	SC-QE11-SD-901
	0.012 mg/kg	SC-QE11-SD-902
	0.012 mg/kg	SC-TR01-SD-901
	0.010 mg/L	SC-QE11-SW-901
	0.010 mg/L	SC-QW07-SW-901
	0.010 mg/L	SC-QW07-SW-1401
Methylene chloride	0.017 mg/kg	SC-QW03-SD-902
	0.012 mg/kg	SC-QW07-SD-1401

TABLE 4-1

RESULTS QUALIFIED BASED UPON UNACCEPTABLE INITIAL AND/OR CONTINUING CALIBRATIONS IN SDG 53426 (SEMIVOLATILE ORGANIC COMPOUNDS)

Instrument	Date	Compound	Q	Relative Response Factor	Relative Standard Deviation	Percent Difference	SDG	Samples Affected
		Continuing Calibration						
G	2/4/97	Benzoic Acid	UJ	MC		>25	53426	SC-QW07-SW-901 SC-QW07-SW-1401 SC-QE10-SW-901 SC-QE11-SW-901
		Continuing Calibration						
V	2/11/97	Benzo(k)fluoranthene	UJ,J*	MC		>25	53426	SC-QE11-SD-901* SC-QE11-SD-902 SC-TR01-SD-901
		Dibenzofuran	UJ	MC		>25		
		Fluorene	UJ	MC		>25		
		Hexachlorocyclopentadiene	UJ	MC		>25		
		Naphthalene	UJ	MC		>25		
		4-Nitrophenol	UJ	MC		>25		

Q = Qualifier
MC = Meets Criteria

TABLE 4-2

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON METHOD BLANK CONTAMINATION (SEMIVOLATILE ORGANIC COMPOUNDS)

Blank ID	Compound	Blank Concentration (mg/L)	Detection Limit	Associated Samples
23-JAN97-02	Bis(2-ethylhexyl)phthalate	0.019	0.010 mg/L 0.010 mg/L	SC-QW03-SW-901 SC-QW06-SW-901
27-JAN97-01	Bis(2-ethylhexyl)phthalate	0.0021	0.010 mg/L 0.010 mg/L 0.010 mg/L	SC-QW07-SW-901 SC-QW07-SW-1401 SC-QE11-SW-901

TABLE 4-3

RESULTS QUALIFIED AS NOT DETECTED (U) BASED UPON FIELD BLANK CONTAMINATION (SEMIVOLATILE ORGANIC COMPOUNDS)

Field Blank ID	Compound	Blank Concentration (mg/L)	Detection Limit	Associated Samples
SC-QW06-SW-901 RIN	Bis(2-ethylhexyl)phthalate	3.4	1.3 mg/kg	SC-QW01-SD-901
			0.25 mg/kg	SC-QW02-SD-901
			0.083 mg/kg	SC-QW02-SD-902
			1.2 mg/kg	SC-QW03-SD-901
			8.7 mg/kg	SC-QW03-SD-902
			1.2 mg/kg	SC-QW03-SD-903
			3.4 mg/kg	SC-QW04-SD-901
			1.6 mg/kg	SC-QW04-SD-902
			19 mg/kg	SC-QW04-SD-903
			1.4 mg/kg	SC-QW05-SD-901
			0.16 mg/kg	SC-QW06-SD-901

TABLE 4-4

SAMPLES ANALYZED WITH DILUTION IN SDG 53426
(SEMIVOLATILE ORGANIC COMPOUNDS)

Sample ID	Dilution Factor
SC-QE10-SD-901	5
SC-QE10-SD-902	5

TABLE 5-1

SAMPLES ANALYZED WITH DILUTION IN SDG 53426
(PESTICIDE/PCB COMPOUNDS)

Sample ID	Dilution Factor
SC-QE10-SD-901	2000
SC-QE10-SD-902	100
SC-QE10-SD-903	20
SC-QE11-SD-901	10
SC-QE11-SD-902	20
SC-TR01-SD-901	20

TABLE 6-1

RESULTS QUALIFIED AS ESTIMATED (J) BASED UPON MATRIX SPIKE/MATRIX SPIKE DUPLICATE RPDs OUTSIDE OF CONTROL LIMITS IN SDG 53426 (METALS)

Metal	Qualifer	Associated Samples	
Barium	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Calcium	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Vanadium	J	SC-QW07-SW-901 (dissolved)	SC-QE11-SW-901(dissolved)
		SC-QW07-SW-1401(dissolved)	SC-QE10-SW-901(dissolved)

TABLE 6-2

RESULTS QUALIFIED AS ESTIMATED (J) BASED UPON MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES OUTSIDE OF CONTROL LIMITS IN SDG 53426 (TOTAL METALS)

Metal	Qualifier	Associated Samples	
Antimony	UJ	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Arsenic	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Chromium	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Cobalt	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Lead	J	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901
Selenium	UJ	SC-QW07-SD-901	SC-TRO1-SD-901
		SC-QW07-SD-1401	SC-QE11-SD-901
		SC-QW07-SD-902	SC-QE11-SD-902
		SC-QW07-SD-903	SC-QE10-SD-901

TABLE 6-3

RESULTS QUALIFIED BASED UPON GFAA POST DIGESTION SPIKE RECOVERIES OUTSIDE OF CONTROL LIMITS IN SDG 53426 (METALS)

Metal	Qualifier	Associated Samples	
Arsenic	UJ	SC-QW07-SW-901 (Total)	SC-QW07-SW-1401 (Total)
	J	SC-QW07-SD-1401 SC-QW07-SD-902	SC-QE10-SW-901
Selenium	UJ	SC-QW07-SD-1401 SC-QW07-SD-902 SC-QW07-SD-903 SC-TR01-SD-901	SC-QE11-SD-901 SC-QE11-SD-902 SC-QE10-SD-901 SC-QE10-SD-902 SC-QE10-SD-903

TABLE 6-4

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES IN SDG 53426 (TOTAL METALS)

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
METAL: ALUMINUM (mg/kg or mg/L)				
SC-QW07-SW-1401	0.041	SC-QW07-SW-901	0.040	2.5%
SC-QW07-SD-1401	14100	SC-QW07-SD-901	13300	6%
METAL: ANTIMONY (mg/L)				
SC-QW07-SW-1401	0.00025	SC-QW07-SW-901	0.00013	63%
METAL: ARSENIC (mg/kg)				
SC-QW07-SD-1401	2.5	SC-QW07-SD-901	2.1	17%
METAL: BARIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	0.051	SC-QW07-SW-901	0.050	2.0%
SC-QW07-SD-1401	468	SC-QW07-SD-901	534	13%
METAL: BERYLLIUM (mg/kg)				
SC-QW07-SD-1401	0.63	SC-QW07-SD-901	0.70	11%
METAL: CALCIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	17.5	SC-QW07-SW-901	17.7	1.1%
SC-QW07-SD-1401	6370	SC-QW07-SD-901	7390	15%
METAL: CHROMIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	0.00053	SC-QW07-SW-901	0.00040	28%
SC-QW07-SD-1401	25.5	SC-QW07-SD-901	24.3	4.8%
METAL: COBALT (mg/kg)				
SC-QW07-SW-1401	0.00018	SC-QW07-SW-901	0.00017	5.7%
SC-QW07-SD-1401	6.2	SC-QW07-SD-901	20.1	106%
METAL: COPPER (mg/kg or mg/L)				
SC-QW07-SW-1401	0.0041	SC-QW07-SW-901	0.0041	0.0%
SC-QW07-SD-1401	9.3	SC-QW07-SD-901	7.1	27%
METAL: IRON (mg/kg or mg/L)				
SC-QW07-SW-1401	0.085	SC-QW07-SW-901	0.060	34%
SC-QW07-SD-1401	17600	SC-QW07-SD-901	21400	19%
METAL: LEAD (mg/kg)				
SC-QW07-SD-1401	20.7	SC-QW07-SD-901	9.5	74%
METAL: MAGNESIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	1.2	SC-QW07-SW-901	1.2	0.0%
SC-QW07-SD-1401	2170	SC-QW07-SD-901	2110	2.8%
METAL: MANGANESE (mg/kg or mg/L)				
SC-QW07-SW-1401	0.0086	SC-QW07-SW-901	0.0080	7.2%
SC-QW07-SD-1401	325	SC-QW07-SD-901	1510	129%
METAL: NICKEL (mg/kg or mg/L)				
SC-QW07-SW-1401	0.0048	SC-QW07-SW-901	0.0075	44%
SC-QW07-SD-1401	13.2	SC-QW07-SD-901	27.6	71%
METAL: POTASSIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	1.6	SC-QW07-SW-901	1.6	0.0%
SC-QW07-SD-1401	1330	SC-QW07-SD-901	1260	5.4%
METAL: SODIUM (mg/L)				
SC-QW07-SW-1401	4.8	SC-QW07-SW-901	5.4	12%
METAL: VANADIUM (mg/kg or mg/L)				
SC-QW07-SW-1401	0.00079	SC-QW07-SW-901	0.00080	1.3%
SC-QW07-SD-1401	31.1	SC-QW07-SD-901	35.5	13%
METAL: ZINC (mg/kg or mg/L)				
SC-QW07-SW-1401	0.037	SC-QW07-SW-901	0.036	2.7%
SC-QW07-SD-1401	26.4	SC-QW07-SD-901	22.6	16%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

TABLE 6-5

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES IN SDG 53426 (DISSOLVED METALS)

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
METAL: ALUMINUM (mg/L)				
SC-QW07-SW-1401	0.10	SC-QW07-SW-901	0.11	10%
METAL: BARIUM (mg/L)				
SC-QW07-SW-1401	0.054	SC-QW07-SW-901	0.052	3.8%
METAL: CALCIUM (mg/L)				
SC-QW07-SW-1401	24.1	SC-QW07-SW-901	16.7	36%
METAL: CHROMIUM (mg/L)				
SC-QW07-SW-1401	0.0012	SC-QW07-SW-901	0.0013	8.0%
METAL: COPPER (mg/L)				
SC-QW07-SW-1401	0.0039	SC-QW07-SW-901	0.0039	0.0%
METAL: MAGNESIUM (mg/L)				
SC-QW07-SW-1401	1.8	SC-QW07-SW-901	1.1	48%
METAL: MANGANESE (mg/L)				
SC-QW07-SW-1401	0.03	SC-QW07-SW-901	0.03	0.0%
METAL: MOLYBDENUM (mg/L)				
SC-QW07-SW-1401	0.00042	SC-QW07-SW-901	0.00046	9.1%
METAL: NICKEL (mg/L)				
SC-QW07-SW-1401	0.00077	SC-QW07-SW-901	0.00069	11%
METAL: POTASSIUM (mg/L)				
SC-QW07-SW-1401	2.2	SC-QW07-SW-901	2.3	4.4%
METAL: SODIUM (mg/L)				
SC-QW07-SW-1401	6.2	SC-QW07-SW-901	5.2	18%
METAL: VANADIUM (mg/L)				
SC-QW07-SW-1401	0.0	SC-QW07-SW-901	0.0013	8.0%
METAL: ZINC (mg/L)				
SC-QW07-SW-1401	0.036	SC-QW07-SW-901	0.036	0.0%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

TABLE 6-6

RESULTS REQUIRING RAISED REPORTING LIMITS DUE TO MATRIX INTERFERENCES IN SDG 53426 (METALS)

Metal	Sample ID
Selenium	SC-QW07-SD-1401 SC-QW07-SD-902 SC-TR01-SD-901 SC-QW07-SD-903 SC-QE11-SD-901 SC-QE11-SD-902 SC-QE10-SD-901 SC-QE10-SD-902 SC-QE10-SD-903
Arsenic	SC-QW07-SW-901

TABLE 7-1

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES IN SDG 53426 (GENERAL INORGANICS)

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
GENERAL INORGANICS: CHEMICAL OXYGEN DEMAND (mg/L)				
SC-QW07-SW-1401	15.4	SC-QW07-SW-901	9.6	46%
GENERAL INORGANICS: CHLORIDE (mg/L)				
SC-QW07-SW-1401	6.9	SC-QW07-SW-901	6.9	0.0%
GENERAL INORGANICS: HARDNESS (mg/L CaCO3)				
SC-QW07-SW-1401	50.6	SC-QW07-SW-901	54.7	7.8%
GENERAL INORGANICS: SULFATE (mg/L)				
SC-QW07-SW-1401	7.6	SC-QW07-SW-901	7.6	0.0%
GENERAL INORGANICS: TOTAL ALKALINITY (mg/L CaCO3)				
SC-QW07-SW-1401	39.3	SC-QW07-SW-901	41.9	6.4%
GENERAL INORGANICS: TOTAL BICARBONATE ALKALINITY (mg/L CaCO3)				
SC-QW07-SW-1401	39.3	SC-QW07-SW-901	41.9	6.4%
GENERAL INORGANICS: TOTAL DISSOLVED SOLIDS (mg/L)				
SC-QW07-SW-1401	91	SC-QW07-SW-901	93	2.2%
GENERAL INORGANICS: TOTAL ORGANIC CARBON (mg/L)				
SC-QW07-SW-1401	4.5	SC-QW07-SW-901	4.3	4.5%
GENERAL INORGANICS: TOTAL SUSPENDED SOLIDS (mg/L)				
SC-QW07-SW-1401	2.8	SC-QW07-SW-901	2.4	15%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

APPENDIX B

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

A-263

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 1
Page 1 of 3
VOC
RIN
Ambient

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/21/97	0715	SC-QWQ7-SW-901 RIN	H_2O	8	X	X	X						-01
	0720	SC-QWQ0-SW-900	H_2O	4	X								-02
	0730	SC-QWQ7-SW-901	H_2O	4	X								-03
	0730	SC-QWQ7-SW-1901	H_2O	4	X								-04
	0730	SC-QWQ7-SW-901 MS	H_2O	4	X								-03MS
	0730	SC-QWQ7-SW-901 MSD	H_2O	4	X								-03SD
	0820	SC-QWQ7-SD-901	Sed	2	X								-05
	0820	SC-QWQ7-SD-1901	Sed	2	X								-06
	0820	SC-QWQ7-SD-901 MS	sed	2	X								-07MS
1/21/97	0820	SC-QWQ7-SD-901 MSD	Sed	2	X								-07SD

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/21/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633636964

Received for Lab by (signed)

Date/Time
1/23/97 930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

A-264

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Cooler 1

Page 2 of 3

Voc RIN Amb.

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/21/97	0900	SC-QW07-SD-902	Sed	2	X								
	0910	SC-QW07-SD-903	Sed	2	X								
	0945	SC-TB01-SD-101	Sed	2	X								Depth = 3-3.5 FT
	1000	SC-QE11-SW-901 JMU 1/31/97	~~H2O~~ Sed	~~2~~ 4	X								
	1110	SC-QE11-SD-901	Sed	2	X								
	1115	SC-QE11-SD-902	Sed	2	X								
	1300	SC-QE10-SW-901	H2O	4	X								
	1320	SC-QE10-SD-901	Sed	2	X								
	1330	SC-QE10-SD-902	Sed	2	X								
1/21/97	1335	SC-QE10-SD-903	Sed	2	X								3 FT bgs

Analytical Parameters *

*Water — VOC - Four 40 ml vial - 4° C/HCL pH<2; SVOC - Two 32 oz amber - 4° C; PCB's/Pest. - Two 32 oz amber - 4° C; Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2; COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2; TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C; Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment — VOC - Two 4 oz jars - 4° C; SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/21/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633 09964

Received for Lab by (signed)

Date/Time
1/23/97 9?

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/do15/field/2qtr/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

A-265

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Cooler 1
Page 3 of 3
Voc RIM Amb.

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11/21/97	1500	SC-AWQC-SW-202 TRIP	H2O	3	X								-17-19-46
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/21/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
9426336964

Received for Lab by (signed)

Date/Time
11/21/97 9 PM

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/dot5/field/2qtr/2yr/coc xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

A-266

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Cooler 2

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/21/97	0730	SC-SWQ7-SW-901	H_2O	4		X	X	X	X	X	X		-3
	0820	SC-SWQ7-SD-901	Sed	1		X	X	X					-5
	0730	SC-SWQ7-SW-1401	H_2O	4		X	X	X	X	X	X		-4
	0820	SC-SWQ7-SD-1401	Sed	1		X	X	X					-6
	0900	SC-SWQ7-SD-902	Sed	1		X	X	X					-7
1/21/97	0910	SC-SWQ7-SD-103	Sed	1		X	X	X					DEPTH = 3-3.5 FT-168
		SC-											
		SC-											
		SC-	JMC	1/21/97									
		SC-											

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/21/97	1700
		1/22/97	930

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633964

Received for Lab by (signed)

Date/Time

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/dol5/field/2qtr/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

A-267

Cooler 3

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/21/97	0730	SC-QW07-SW-901 MS	H_2O	9		X	X	X	X	X	X		1 Bottle Dissolved Metals MS/MSD -3M
↓	0820	SC-QW07-SD-901 MS	Sed	1		X	X	X					-5M
↓	0730	SC-QW07-SW-901 MSD	H_2O	8		X	X	X	X	X	X		-3SI
1/21/97	0820	SC-QW07-SD-901 MSD	Sed	1		X	X	X					-5SI
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											

JNC 1/21/97

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney	[signature]	1/21/97	1700
		1/27/97	930

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
9426336964

Received for Lab by (signed)

Date/Time

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pi[illegible] File

tinker/do15/field/2qtr/2yr/coc xls

CHAIN OF CUSTODY RECORD

A-268

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 4

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfide (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11/21/97	1000	SC-QE11-SW-101	H2O	4		X	X	X	X	X	X		
	1110	SC-QE11-SD-101	Sed	1		X	X	X					
	0945	SC-TB01-SD-101	Sed	1		X	X	X					
11/21/97	1115	SC-QE11-SD-102	Sed	1		X	X	X					
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											
		SC-											

JMC 11/21/97

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2; SVOC - Two 32 oz amber - 4° C; PCB's/Pest - Two 32 oz amber - 4° C; Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2; COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2; TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C; Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C; SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/21/97	1700
		11/22/97	920

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633669 64

Received for Lab by (signed)

Date/Time

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/dot S/field/2qtr/2yr/coc xls

ChAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

A-269

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Cooler 5

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/21/97	1300	SC-QE10-SW-901	H_2O	9		X	X	X	X	X	X		
1/21/97	1320	SC-QE10-SD-901	Sed.	1		X	X	X					
		SC-TB01-SW-901	H_2O	9		X	X	X	X	X	X		Trip 1/21/97
		SC-TB01-SD-901	Sed	1		X	X	X					
1/21/97	1330	SC-QE10-SD-902	Sed	1		X	X	X					
1/21/97	1335	SC-QE10-SD-903	Sed	1		X	X	X					
		SC-											(3 FT BGS)
		SC-											
		SC-											
		SC-											

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

Analytical Parameters *

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/21/97	1700
		1/22/97	931

Delivered to Shipper By
Cherney/Hedenkamp/Nicklsch

Method of Shipment
FedEx

Airbill Number
942633 4964

Received for Lab by (signed)

Date/Time

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pi ! File

tinker/do15/field/2qu/2yr/coc xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

cooler #1
1063 —
VOCs in
Rin
Page 1 of 2

53380

Client Name:	WOODWARD-CLYDE FEDERAL SERVICES
Client Address:	3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name	SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
	1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader:	Cherney

	Date	Time	Sample ID/Description	Matrix	# Samples	Analytical Parameters * VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
01	11/20/97	0900	SC-QW06-SW-901 RIN	H2O	8	X	X	X						
02		0930	SC-QW06-SW-901	H2O	4	X								
03		0940	SC-QW06-SD-901	Sed	2	X								
04		1015	SC-QW05-SW-901	H2O	4	X								
05		1030	SC-QW05-SD-901	Sed	2	X								
06		0915	SC-QWAE-SW-901 TRIP	H2O	TRIP BLANK 3	X								
07		1110	SC-QW04-SD-901	Sed	2	X								
08		1120	SC-QW04-SD-902	Sed	3	X								
09		1130	SC-QW04-SD-903	Sed	2	X								
10		1210 1150 TNL	SC-QW03-SD-901	Sed	2	X								2-2.5 feet

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/20/97	1700

Delivered to Shipper By	Cherney/Hedenkamp/Nicklsch
Method of Shipment	FedEx
Airbill Number	942633692O
Received for Lab by (signed)	K. ZAHLLER
Date/Time	1/21/97 0930
WCFS Project Number:	F96515

White - Client
Yellow - Lab
Pink - File

A-260

tinker/do15/field/2qtr/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

53380

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Cooler 1
VOC
Page 2 of 2

	Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11	1/20/97	~~1216~~ 1220	SC-QWO2-SD-902	Sed	2	X								
12		~~1220~~ 1225	SC-QWO3-SD-903	Sed	2	X								
13		1355	SC-QWO2-SD-901	Sed	2	X								1-2 feet
14		1405	SC-QWO2-SD-902	Sed	2	X								
15		1420	SC-QWOL-SD-90L	Sed	2	X								
16		1425	SC-QWO1-SD-902	Sed	2	X								
17		1430	SC-QWOL-SD-903	Sed	2	X								
18		1150	SC-QWO3-SW-901	H2O	4	X								1-1.5 feet
			SC-											
			SC-											JMC 1/20/97

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2; SVOC - Two 32 oz amber - 4° C; PCB's/Pest - Two 32 oz amber - 4° C; Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2; COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2; TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C; Dissolved Metals - One 32 oz poly - 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C; SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/20/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nicklsch

Method of Shipment
FedEx

Airbill Number
942633 6920

Received for Lab by (signed)
K. Zahller

Date/Time
1/21/97 0930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

A-26

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 2
~~2 of 2~~
1 of 1

Client Name:	WOODWARD-CLYDE FEDERAL SERVICES
Client Address:	3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name	SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
	1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader:	Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/20 /97	0930	SC-Duck-SW-101	H2O	9		X	X	X	X	X	X		
	0940	SC-Duck-SD-101	Sed	1		X	X	X					
		SC-~~Duck-SW-101 TR~~											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											

Analytical Parameters *

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/20/97	1700
[redacted]			
[redacted]			
[redacted]			
[redacted]			
[redacted]			

Delivered to Shipper By	Cherney/Hedenkamp/Nickisch
Method of Shipment	FedEx
Airbill Number	942623692O
Received for Lab by (signed)	K. Zahller
Date/Time	1/21/97 0930
WCFS Project Number:	F96515

White - Client
Yellow - Lab
Pink - File

A526

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 3
34 JMC
1 of 1

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/20/97	1015	SC-QUOS-SW-101	H2O	1		X	X	X	X	X	X		
	1030	SC-QUOS-SD-101	Sed	1		X	X	X					
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											
		SC-_____											

JMC

Analytical Parameters *

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/20/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633692 0

Received for Lab by (signed)
K. ZAHLLER

Date/Time
1/21/97 0930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Cooler
4 dF
Page 1 of 2

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
					Analytical Parameters *								
1/20/97	1110	SC-QW04-SD-901	Sed	1		X	X	X					
	1120	SC-QW04-SD-902	Sed	1		X	X	X					
	1120	SC-QW04-SD-903	Sed	1		X	X	X					
	1210	SC-QW03-SD-901	Sed	1		X	X	X					
	1220	SC-QW03-SD-902	Sed	1		X	X	X		TMC			
	1225	SC-QW03-SD-903	Sed	1		X	X	X		1/20/97			
	1355	SC-QW02-SD-901	Sed	1		X	X	X					
	1405	SC-QW02-SD-902	Sed	1		X	X	X					
	1420	SC-QW01-SD-901	Sed	1		X	X	X					
	1425	SC-QW01-SD-902	Sed	1		X	X	X					

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/20/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633694 80

Received for Lab by (signed)
K. Zahller

Date/Time
1/21 97 0930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

A-264

tinker/dol5/field/2qtr/2yr/coc xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

cooler 4 of ~~5 of~~

Page 2 of 2

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11/20/97	1150	SC-SWQ3-SW-901	H2O	9		X	X	X	X	X	X		
	1210	SC-SWQ1-SD-901	Sed	1		X	X	X					
	1220	SC-SWQ3-SD-902	Sed	1		X	X	X					
	1225	SC-SWQ2-SD-903	sed	1		X	X	X					
		SC-SWQ1-SD-901	sed	1		X	X	X					
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											

Analytical Parameters *

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1]Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/20/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633692O

Received for Lab by (signed)
K. Zahller

Date/Time
1/21/97 0930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 1
VOC RIN

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	Analytical Parameters * VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfide (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11/22/97	0715	SC-QE09-SW-901 RIN	H_2O	8	X	X	X						-01
	0715	SC-QE09-SW-901	H_2O	4	X								-02
	0825	SC-QE09-SD-901	Sed	2	X								-03
	0835	SC-QE09-SD-902	Sed	3	X								-04
	0840	SC-QE09-SD-903	Sed	2	X								1-2 FT bgs -05
	0940	SC-QE08-SW-901	H_2O	4	X								-06
	0950	SC-QE08-SD-901	Sed	2	X								-07
	1000	SC-QE08-SD-902	Sed	2	X								-08
	1050	SC-QE06-SW-901	H_2O	4	X								-09
	1100	SC-QE06-SD-901	Sed	2	X								-10

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C
[1]Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/22/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
9426.3369 4.2

Received for Lab by (signed)

Date/Time
1/23/97 930

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/do15/field/2qtr/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

JMC 1/22/97
Cooler ~~No~~ 1
Page 2 of 2
RIN VOC

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/22/97	1110	SC-QE06-SD-903	Sed	2	X								-11
	1120	SC-QE06-SD-903	Sed	2	X								-12
	1415	SC-QE07-SW-901	H2O	4	X								-13
	1420	SC-QE07-SD-901	Sed	2	X								-14
	1430	SC-QE07-SD-902	Sed	2	X								-15
	1435	SC-QE07-SD-903	Sed	2	X								3-3.5' bgs -16
1/22/97	1500	SC-QW00-SW-903 TRIP	H2O	3	X								-17
		SC-____-__-___											
		SC-____-__-___											
		SC-____-__-___											

JMC 1/22/97

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest. - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
Jennie Cherney		1/22/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
9426336942

Received for Lab by (signed) [signature]

Date/Time 1/23/97

WCFS Project Number: F96515

White - Client
Yellow - [illegible]
Pink - [illegible]

tinker/do15/field/2qtr/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 2

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
11/22/97	0742	SC-QE04-SW-901	H2O	9		X	X	X	X	X	X		
	0825	SC-QE04-SD-901	Sed	1		X	X	X					
	0835	SC-QE04-SD-902	Sed	1		X	X	X					
	0840	SC-QE04-SD-903	Sed	1		X	X	X					1-2 FT bgs
	0940	SC-QE08-SW-901	H2O	9		X	X	X	X	X	X		
	0950	SC-QE08-SD-901	Sed	1		X	X	X					
11/22/97	1000	SC-QE08-SD-902	Sed	1		X	X	X					
		SC-											
		SC-					JMC	11/22/97					
		SC-											

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1]Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		11/22/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch
Method of Shipment
FedEx
Airbill Number
942633694 2
Received for Lab by (signed)
Date/Time
11/27/97 930
WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

A 1

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Cooler 3

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/22/97	1050	SC-QE06-SW-901	H2O	9		X	X	X	X	X	X		
	1106	SC-QE06-SD-901	Sed	1		X	X	X					
	1116	SC-QE06-SD-902	Sed	1		X	X	X					
	1120	SC-QE06-SD-903	Sed	1		X	X	X					2.5-3 FT bgs
	1415	SC-QE07-SW-901	H2O	9		X	X	X	X	X	X		
	1420	SC-QE07-SD-901	Sed	1		X	X	X					
	1430	SC-QE07-SD-902	Sed	1		X	X	X					
1/22/97	1435	SC-QE07-SD-903	Sed	1		X	X	X					3-3.5' bgs
		SC-											
		SC-										JMC 1/22/97	

Analytical Parameters *

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
Jamie Cherney		1/22/97	

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633694 2

Received for Lab by (signed)

Date/Time
1/23/97 1430

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 1
Page 1 of 2
RIN VOC

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

53447

	Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
01	1/23/97	0715	SC-QE05-SW-901 RIN	H_2O	8	X	X	X						
02		0745	SC-QE05-SW-901	H_2O	4	X								
03		0830	SC-QE05-SD-901	Sed	2	X								
04		0830	SC-QE05-SD-1401	Sed	2	X								
03MS		0830	SC-QE05-SD-901MS	Sed	2	X								
03SD		0830	SC-QE05-SD-901MSD	Sed	2	X								
05		0930	SC-QE04-SW-901	H_2O	4	X								
06		0945	SC-QE04-SD-901	Sed	2	X								
07	↓	1000	SC-QE01-SW-901	H_2O	4	X								
08	1/23/97	1020	SC-QE01-SD-901	Sed	2	X								

Analytical Parameters *

*Water — VOC - Four 40 ml vial - 4° C/HCL pH<2; SVOC - Two 32 oz amber - 4° C; PCB's/Pest - Two 32 oz amber - 4° C; Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2; COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2; TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C; Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment — VOC - Two 4 oz jars - 4° C; SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/23/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633693 1

Received for Lab by (signed)

Date/Time
1/24/97 1000

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink -File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

53447

Cooler 1

Page 2 of 2

RIN VOC

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

	Date	Time	Sample ID/Description	Matrix	# Samples	Analytical Parameters * VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
09	1/23/97	1230	SC-QE03-SW-901	H_2O	4	X								
10		1245	SC-QE03-SD-901	Sed	2	X								
11		1330	SC-QE02-SW-901	H_2O	4	X								
12		1340	SC-QE02-SD-901	Sed	2	X								
13		1350	SC-QE02-SD-902	Sed	JMC 2	X								
14	1/23/97	1500	SC-QWD0-SW-904 TRIP	H_2O	3	X								
			SC-											
			SC-											
			SC-		JMC	1/23/97								
			SC-											

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C
[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/23/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633693 1

Received for Lab by (signed)

Date/Time
1/24/97 1000

WCFS Project Number: F96515

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Yellow - Lab
Pink -File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 2

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/23/97	0745	SC-QE05-SW-901	H2O	9		X	X	X	X	X	X		
	0830	SC-QE05-SD-901	Sed	1		X	X	X					
	0830	SC-QE05-SD-1401	Sed	1		X	X	X					
	0830	SC-QE05-SD-901MS	Sed	1		X	X	X					
1/23/97	0830	SC-QE05-SD-901MSD	Sed	1		X	X	X					
		SC-_____											
		SC-_____											
		SC-_____	JMG	1/23/97									
		SC-_____											
		SC-_____											

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

Analytical Parameters *

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/23/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633693 1

Received for Lab by (signed)

Date/Time
1/24/97 1000

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink -File

tinker/do15/field/2qtr/2yr/coc xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 3

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/ 7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/23/97	0930	SC-QE04-SW-901	H_2O	9		X	X	X	X	X	X		
↓	0945	SC-QE04-SD-901	Sed	1		X	X	X					
↓	1000	SC-QE01-SW-901	H_2O	9		X	X	X	X	X	X		
1/23/97	1030	SC-QE01-SD-901	Sed	1		X	X	X					
		SC-											
		SC-											
		SC-											
		SC-											
		SC-	TMC	1/23/97									
		SC-											

Analytical Parameters *

*Water
VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard. - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment
VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/23/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633693 1

Received for Lab by (signed)

Date/Time
1/24/97 1000

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/do15/field/2qtr/2yr/coc xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Quanterra
4955 Yarrow Street
Arvada, CO 80002

Cooler 4

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	VOC (8260)	SVOC (8270)	PCB'S & Pest. (8080)	METALS + Hg, As, & Hardness[1] (6010/6020/7060/7470/7471/130.1)	Dissolved METALS (6010/6020)	TSS, TDS, alkalinity, chloride, & sulfate (160.1, 160.2, 310.1, 300.0)	COD &TOC (410.4, 415.1)		Remarks
1/23/97	1230	SC-QE02-SW-901	H_2O	9		X	X	X	X	X	X		
	1245	SC-QE03-SD-901	Sed	1		X	X	X					
	1330	SC-QE02-SW-901	H_2O	9		X	X	X	X	X	X		
	1340	SC-QE01-SD-901	Sed	1		X	X	X					
1/23/97	1350	SC-QE02-SD-902	Sed	1		X	X	X					
		SC-_-_-_											
		SC-_-_-_											
		SC-_-_-_			JMC	1/23/97							
		SC-_-_-_											
		SC-_-_-_											

*Water VOC - Four 40 ml vial - 4° C/HCL pH<2
SVOC - Two 32 oz amber - 4° C
PCB's/Pest - Two 32 oz amber - 4° C
Total Metals/As/Hg/Hard - One 32 oz poly - 4° C/HNO3 pH<2
COD/TOC - one 16 oz glass - 4° C/H2SO4 pH<2
TSS/TDS/Alk/Chl/Sul - two 32oz poly 4° C
Dissolved Metals - One 32 oz poly- 4° C/HNO3 pH<2

*Sediment VOC - Two 4 oz jars - 4° C
SVOC, Metals, PCB's & Pest. - One 16 oz jar - 4° C

[1] Hardness analyzed for water samples only

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney		1/23/97	1700

Delivered to Shipper By
Cherney/Hedenkamp/Nickisch

Method of Shipment
FedEx

Airbill Number
942633693 1

Received for Lab by (signed)

Date/Time
1/24/97 1000

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink -File

tinker/do15/field/2qu/2yr/coc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Southwell Laboratory
1838 SW 13th Street
Oklahoma City, OK 73125
(405)232-1966

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	Hexavalent Chromium (7196A)						Remarks
1/21/97	0820	SC-QW07-SD-901	Sed	1	X						9701103
	0920	SC-QW07-SD-1401	Sed	1	X						04
	1110	SC-QE11-SD-901	Sed	1	X						05
	1320	SC-QE10-SD-901	Sed	1	X						06
	0945	SC-IR01-SD-901	Sed	1	X						07
	0730	SC-QW07-SW-901	H_2O	1	X						08
	0730	SC-QW07-SW-1401	H_2O	1	X						09
	1300	SC-QE10-SW-901	H_2O	1	X						10
1/21/97	1000	SC-QE11-SW-901	H_2O								11
		~~SC-~~									JMC 1/21/97

*Water Hexavalent Chromium - one 32 oz amber glass, 4°

*Sediment Hexavalent Chromium - 1, 4 oz glass jar, 4°

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney	[signature]	1/21/97	1700
[signature]		1/21/97	16:35

Delivered to Shipper By Nickisch/Routt	
Method of Shipment Direct	**Airbill Number**
Received for Lab by (signed) [signature]	**Date/Time** 1/21/97
WCFS Project Number: F96515	

White - Client
Yellow - Lab
Pink - File

BC 1-22-97

unkar/du13/field/2qu/2yr/alphacoc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Southwell Laboratory
1838 SW 13th Street
Oklahoma City, OK 73125
(405)232-1966

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	Hexavalent Chromium (7196A)						Remarks
1/22/97	0745	SC-QE09-SW-901	H_2O	1	X						9701207
	0825	SC-QE09-SD-901	Sed	1	X						08
	0940	SC-QE08-SW-901	H_2O	1	X						09
	0950	SC-QE08-SD-901	Sed	1	X						10
	1050	SC-QE06-SW-901	H_2O	1	X						11
	1100	SC-QE06-SD-901	Sed	1	X						12
	1130 1105	SC-QE07-SW-901	H_2O	1	X						13
1/22/97	1135 1120	SC-QE07-SD-901	Sed	1	X						14
		SC-____-____									
		SC-____-____						JMC	1/22/97		

*Water Hexavalent Chromium - one 32 oz amber glass, 4°

*Sediment Hexavalent Chromium - 1, 4 oz glass jar, 4°

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
James Cherney	[signature]	1/22/97	1700
[signature]	R Blalock	1/22/97	1630

Delivered to Shipper By
Nickisch/Routt

Method of Shipment
Direct

Airbill Number

Received for Lab by (signed) R Blalock

Date/Time 1/22/97 1630

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

tinker/dol5/field/2qtr/2yr/alphacoc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Southwell Laboratory
1838 SW 13th Street
Oklahoma City, OK 73125
(405)232-1966

Client Name:	**WOODWARD-CLYDE FEDERAL SERVICES**
Client Address:	3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name	SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT 1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader:	**Cherney**

Page 1 of 2

Date	Time	Sample ID/Description	Matrix	# Samples	Analytical Parameters ▲ Hexavalent Chromium (7196A)						Remarks
1/23/97	0715	SC-QE05-SW-901	H_2O	1	X						QTO12603
	0820	SC-QE05-SD-901	Sed	1	X						604
	0830	SC-QE05-SD-1401	Sed	1	X						605
	0930	SC-QE04-SW-901	H_2O	1	X						606
	0945	SC-QE04-SD-901	Sed	1	X						607
	1000	SC-QE01-SW-901	H_2O	1	X						608
	1030	SC-QE01-SD-901	Sed	1	X						609
	1230	SC-QE03-SW-901	H_2O	1	X						70
	1245	SC-QE03-SD-901	Sed	1	X						71
1/23/97	1330	SC-QE02-SW-901	H_2O	1	X						72

*Water — Hexavalent Chromium - one 32 oz amber glass, 4°

*Sediment — Hexavalent Chromium - 1, 4 oz glass jar, 4°

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
[signature]	[signature]	1/23/97	1700
[signature]	[signature]	1/23/97	1700

Delivered to Shipper By	Nickisch/Routt
Method of Shipment	Direct
Airbill Number	
Received for Lab by (signed)	[signature]
Date/Time	1/23/97 1700
WCFS Project Number:	**F96515**

White - Client
Yellow - Lab
Pink - File

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Southwell Laboratory
1838 SW 13th Street
Oklahoma City, OK 73125
(405)232-1966

Page 2 of 2

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001
Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event
Team Leader: Cherney

Date	Time	Sample ID/Description	Matrix	# Samples	Analytical Parameters * Hexavalent Chromium (7196A)						Remarks
1/23/97	1340	SC-QE02-SD-901	Sed	1	X						9701273
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									
		SC-____-__-___									

JMC 1/23/97

*Water Hexavalent Chromium - one 32 oz amber glass, 4°
*Sediment Hexavalent Chromium - 1, 4 oz glass jar, 4°

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
[signature]	[signature]	1/23/97	1700
[signature]	[signature]	1/23/97	1700

Delivered to Shipper By Nickisch/Routt	
Method of Shipment Direct	**Airbill Number**
Received for Lab by (signed) [signature]	**Date/Time** 1/23/97 1700
WCFS Project Number: F96515	

White - Client
Yellow - Lab
Pink - File

tinker/do15/field/2qtr/2yr/alphacoc.xls

CHAIN OF CUSTODY RECORD

ANALYTICAL LAB
Southwell Laboratory
1838 SW 13th Street
Oklahoma City, OK 73125
(405)232-1966

Client Name: WOODWARD-CLYDE FEDERAL SERVICES
Client Address: 3000 Tower Drive Ste 456, Del City, OK 73115 (405)677-2001

Project Name
SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT
1st Semi-Annual Sediment and Surface Water Monitoring Event

Team Leader: Cherney

Analytical Parameters *

Date	Time	Sample ID/Description	Matrix	# Samples	Hexavalent Chromium (7196A)						Remarks
1/20/97	0930	SC-QW06-SW-901	H_2O	1	X						9701043
	0940	SC-QW06-SD-901	Sed	1	X						44
	1015	SC-QW05-SW-901	H_2O	1	X						45
	1030	SC-QW05-SD-901	Sed	1	X						46
	1110	SC-QW04-SD-901	Sed	1	X						47
	1210	SC-QW03-SD-901	Sed	1	X						48
	1355	SC-QW02-SD-901	Sed	1	X						49
	1420	SC-QW01-SD-901	Sed	1	X						50
10/20/97	1150	SC-QW03-SW-901	H_2O	1	X						51
		SC-____-____ changed per									

*Water Hexavalent Chromium - one 32 oz amber glass, 4°

*Sediment Hexavalent Chromium - 1, 4 oz glass jar, 4°

Daphne Nickisch 1-31-97

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished By (Signed)	Received By (Signed)	Date	Time
[signature]	[signature]	1/20/97	1530
[signature]	R Blalock	1/20/97	1630

Delivered to Shipper By
Nickisch/Routt

Method of Shipment
Direct

Airbill Number

Received for Lab by (signed) R Blalock

Date/Time 1/20/97 1630

WCFS Project Number: F96515

White - Client
Yellow - Lab
Pink - File

BC 1-22-97

unker/do15/field/2qtr/2yr/afphecoc.xls

APPENDIX C

SURFACE WATER
ANALYTICAL DATA

KEY TO ANALYTICAL QUALIFIERS

Footnote	Description
A	Aldol condensation product
B	Compound is also detected in the blank
D	Compound quantitated at a secondary dilution
E	Concentration exceeds calibration range. Value is estimated
F	Reported value estimated due to interference
G	Reporting limit(s) raised due to matrix interference
H	Surrogate not detected because of required sample dilution
I	Surrogate recovery outside of limits due to sample matrix interference
J	Result is detected below the reporting limit or is an estimated concentration
K	Identified by mass spectrum only. Quantitation based on 1:1 response with internal standard
L	These components are not separable using this method and are therefore quantitated together
M	Primary result
N	Spiked sample recovery not within limits
P	Analysis date exceeded holding time due to re-analysis for QA reasons
Q	Reporting limit raised due to high level of another analyte in the sample
R	Reporting limit(s) raised due to sample volume limitations
S	Reported value determined by Method of Standard Addition
T	Preferred values unless footnoted on secondary column test
U	Compound analyzed but not detected
V	Secondary column result is the preferred value
W	Post-digestion spike for Furnace AA out of control limits while sample absorbency is <50% of spike absorbency
X	ND=Not Detected
Y	NC=Not Calculated. Calculation not applicable.
Z	NA=Not Applicable
#	Analyte associated with sample processing/analysis in the lab. An acceptable blank must contain <5x the RL of this analyte for this method
$	Secondary ion used for quantitation
=	&Result Summary
o	Reporting limit(s) raised due to high level of analyte present in sample
p	Reporting limit raised due to dilution necessitated by initial post-digestion spike recovery of <40% due to matrix interference
q	Post-digestion spike recovery fell between 40-85% due to matrix interference
t	Post-digestion spike recovery between 115-150%
Additional Denver Lab Common Footnotes	
M	Preferred Result
1	Tentative Identification
2	Confident Identification
3	Confirmed Identification
k	This sample has GC/FID characteristics that are similar to gasoline
l	Results based on multiphase analysis and mathematical recombination
m	This sample has GC/FID characteristics that are similar to weathered gasoline
o	This test is unreliable for any sample other than a non-aqueous liquid
p	This sample has GC/FID characteristics that are similar to the water soluble fraction of gasoline
q	This sample has GC/FID characteristics for which reliable identification of a product could not be achieved
r	&RESULT SUMMARY
t	Sample diluted due to the concentration of target compounds
x	Target compound's secondary ion confirmation criteria not met, but retention time and peak shape make identification possible
z	Compound name contains more characters than the database will allow

Matrix : WATER-QA

Client Description	SC-QW00-SW-900
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0052	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	0.0015	J	0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	0.013		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Matrix : SURF-H2O

Client Description	SC-QE01-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	199		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	199		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	8.3		0.50
Hardness as CaCO3	184		5.0
Sulfate	5.3		0.50
Total Dissolved Solids	235		10.0
Total Organic Carbon	0.71	J	1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0024	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0031	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE01-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.000040	J	0.0030
Arsenic	ND		0.0050
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	ND		0.00030
Calcium	42.7		0.20
Chromium	0.0047	J	0.0050
Cobalt	0.00026	J	0.00050
Copper	0.0013	J	0.0020
Iron	0.033	J	0.10
Lead	ND		0.0010
Magnesium	21.8		0.20
Manganese	0.0036		0.00020
Mercury	ND		0.00020
Molybdenum	0.00045	J	0.0010
Nickel	0.0096		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	14.9		5.0
Thallium	ND		0.00010
Vanadium	0.0095		0.00050
Zinc	0.0047	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.010
1,2,4-Trichlorobenzene	ND		0.010
1,2-Dichlorobenzene	ND		0.010
1,3-Dichlorobenzene	ND		0.010
1,3-Dinitrobenzene	ND		0.010
1,4-Dichlorobenzene	ND		0.010
1-Chloronaphthalene	ND		0.050
1-Naphthylamine	ND		0.010
2,2'-oxybis(1-chloropropane)	ND		0.010
2,3,4,6-Tetrachlorophenol	ND		0.050
2,4,5-Trichlorophenol	ND		0.010
2,4,6-Trichlorophenol	ND		0.010
2,4-Dichlorophenol	ND		0.010
2,4-Dimethylphenol	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QE01-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.050
2,4-Dinitrotoluene	ND		0.010
2,6-Dichlorophenol	ND		0.010
2,6-Dinitrotoluene	ND		0.010
2-Chloronaphthalene	ND		0.010
2-Chlorophenol	ND		0.010
2-Methylnaphthalene	ND		0.010
2-Methylphenol	ND		0.010
2-Naphthylamine	ND		0.010
2-Nitrophenol	ND		0.010
2-Picoline	ND		0.020
2H-Indol-2-one, 1,3-dihydro-	0.011	J	
3,3'-Dichlorobenzidine	ND		0.050
3,3'-Dimethylbenzidine	ND		0.050
3-Hydroxy-3-methyl-2-butanone	0.0089	J	
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.050
3/4-Methylphenol	ND		0.010
4,6-Dinitro-2-methylphenol	ND		0.050
4-Aminobiphenyl	ND		0.050
4-Bromophenyl phenyl ether	ND		0.010
4-Chloro-3-methylphenol	ND		0.010
4-Chloroaniline	ND		0.010
4-Chlorophenyl phenyl ether	ND		0.010
4-Nitroaniline	ND		0.050
4-Nitrophenol	ND		0.050
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.010
Acenaphthylene	ND		0.010
Acetophenone	ND		0.010
Aniline	ND		0.010
Anthracene	ND		0.010
Azobenzene	ND		0.010
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.010
Benzo(a)pyrene	ND		0.010
Benzo(b)fluoranthene	ND		0.010
Benzo(g,h,i)perylene	ND		0.010
Benzo(k)fluoranthene	ND		0.010
Benzoic acid	ND		0.050
Benzyl alcohol	ND		0.010
Butyl benzyl phthalate	ND		0.010
Chrysene	ND		0.010
Di-n-butyl phthalate	ND		0.010
Di-n-octyl phthalate	ND		0.010
Dibenz(a,h)anthracene	ND		0.010
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.010
Diethyl phthalate	ND		0.010
Dimethyl phthalate	ND		0.010
Diphenylamine	ND		0.010
Ethyl methanesulfonate	ND		0.010
Ethylene, 1-bromo-2-chloro-1,2-difluoro-	0.010	J	
Fluoranthene	ND		0.010
Fluorene	ND		0.010
Furan, tetrahydro-3-methyl-	0.055	J	
Halogenated Compound	0.0055	J	
Halogenated Compound	0.010	J	
Hexachlorobenzene	ND		0.010
Hexachlorobutadiene	ND		0.010
Hexachlorocyclopentadiene	ND		0.050
Hexachloroethane	ND		0.010
Indeno(1,2,3-cd)pyrene	ND		0.010
Isophorone	ND		0.010
Methyl methanesulfonate	ND		0.010
N-Nitroso-di-n-butylamine	ND		0.010
N-Nitroso-di-n-propylamine	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QE01-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
N-Nitrosodiphenylamine	ND		0.010
N-Nitrosopiperidine	ND		0.010
Naphthalene	ND		0.010
Nitrobenzene	ND		0.010
Oxygenated Hydrocarbon	0.040	J	
Pentachlorobenzene	ND		0.010
Pentachloronitrobenzene	ND		0.050
Pentachlorophenol	ND		0.050
Phenacetin	ND		0.020
Phenanthrene	ND		0.010
Phenol	ND		0.010
Pronamide	ND		0.020
Pyrene	ND		0.010
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.050
bis(2-Chloroethoxy)methane	ND		0.010
bis(2-Chloroethyl) ether	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		0.010
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.099
4,4'-DDE	ND		0.099
4,4'-DDT	ND		0.099
Aldrin	ND		0.050
Aroclor 1016	ND		0.99
Aroclor 1221	ND		0.99
Aroclor 1232	ND		0.99
Aroclor 1242	ND		0.99
Aroclor 1248	ND		0.99
Aroclor 1254	ND		0.99
Aroclor 1260	ND		0.99
Dieldrin	ND		0.099
Endosulfan I	ND		0.050
Endosulfan II	ND		0.099
Endosulfan sulfate	ND		0.099
Endrin	ND		0.099
Endrin aldehyde	ND		0.099
Heptachlor	ND		0.050
Heptachlor epoxide	ND		0.050
Methoxychlor	ND		0.50

Matrix : SURF-H2O

Client Description	**SC-QE01-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		5.0
alpha-BHC	ND		0.050
alpha-Chlordane	ND		0.050
beta-BHC	ND		0.050
delta-BHC	ND		0.050
gamma-BHC (Lindane)	ND		0.050
gamma-Chlordane	ND		0.050

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	0.00012	J	0.00030
Calcium	43.7		0.20
Chromium	0.0089		0.0050
Cobalt	0.000093	J	0.00050
Copper	0.0013	J	0.0020
Iron	ND		0.10
Lead	ND		0.0010
Magnesium	22.3		0.20
Manganese	0.0037		0.00020
Molybdenum	0.00028	J	0.0010
Nickel	0.00054		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	14.4		5.0
Thallium	0.000044	J	0.00010
Vanadium	0.013		0.00050
Zinc	0.0036	J	0.010

Matrix : SURF-H2O

Client Description	**SC-QE02-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	126		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	126		5.0
Chemical Oxygen Demand (Regular)	13.8	J	20.0
Chloride	16.8		0.50
Hardness as CaCO3	312		5.0
Sulfate	232		2.5
Total Dissolved Solids	507		10.0
Total Organic Carbon	9.5		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0033	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0049	JB	0.010
Acrolein	0.0019	J	0.10
Acrylonitrile	0.0022	J	0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	0.041	J	0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	0.0047	JB	0.0050
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		

Matrix : SURF-H2O

Client Description	SC-QE02-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Urea	0.0061	J	
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.0059	J	0.015
Antimony	ND		0.0030
Arsenic	0.0026	J	0.0050
Barium	0.55		0.0010
Beryllium	ND		0.00050
Cadmium	0.00015	J	0.00030
Calcium	72.4		0.20
Chromium	0.014		0.0050
Cobalt	0.00058		0.00050
Copper	0.083		0.0020
Iron	0.14		0.10
Lead	0.0012		0.0010
Magnesium	36.1		0.20
Manganese	0.011		0.00020
Mercury	ND		0.00020
Molybdenum	0.0027		0.0010
Nickel	0.020		0.00020
Potassium	2.3	J	5.0
Selenium	0.0042	J	0.0050
Silver	ND		0.00050
Sodium	29.3		5.0
Thallium	ND		0.00010
Vanadium	0.018		0.00050
Zinc	0.016		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0095
1,2,4-Trichlorobenzene	ND		0.0095
1,2-Dichlorobenzene	ND		0.0095
1,3-Dichlorobenzene	ND		0.0095
1,3-Dinitrobenzene	ND		0.0095
1,4-Dichlorobenzene	ND		0.0095
1-Chloronaphthalene	ND		0.048
1-Naphthylamine	ND		0.0095
2,2'-oxybis(1-chloropropane)	ND		0.0095
2,3,4,6-Tetrachlorophenol	ND		0.048
2,4,5-Trichlorophenol	ND		0.0095
2,4,6-Trichlorophenol	ND		0.0095
2,4-Dichlorophenol	ND		0.0095
2,4-Dimethylphenol	ND		0.0095

Matrix : SURF-H2O

Client Description	SC-QE02-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.048
2,4-Dinitrotoluene	ND		0.0095
2,6-Dichlorophenol	ND		0.0095
2,6-Dinitrotoluene	ND		0.0095
2-Chloronaphthalene	ND		0.0095
2-Chlorophenol	ND		0.0095
2-Methylnaphthalene	ND		0.0095
2-Methylphenol	ND		0.0095
2-Naphthylamine	ND		0.0095
2-Nitrophenol	ND		0.0095
2-Picoline	ND		0.019
2-Pyridinecarbonitrile	0.052	J	
2H-Indol-2-one, 1,3-dihydro-	0.067	J	
2H-Indol-2-one, 1,3-dihydro-	0.25	J	
3,3'-Dichlorobenzidine	ND		0.048
3,3'-Dimethylbenzidine	ND		0.048
3-Hydroxy-3-methyl-2-butanone	0.011	J	
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.048
3/4-Methylphenol	ND		0.0095
4,6-Dinitro-2-methylphenol	ND		0.048
4-Aminobiphenyl	ND		0.048
4-Bromophenyl phenyl ether	ND		0.0095
4-Chloro-3-methylphenol	ND		0.0095
4-Chloroaniline	ND		0.0095
4-Chlorophenyl phenyl ether	ND		0.0095
4-Nitroaniline	ND		0.048
4-Nitrophenol	ND		0.048
4-Pyridinecarbonitrile	0.0085	J	
5,6-Decanedione	0.0049	J	
5,6-Decanedione	0.018	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0095
Acenaphthylene	ND		0.0095
Acetophenone	ND		0.0095
Aniline	ND		0.0095
Anthracene	ND		0.0095
Azobenzene	ND		0.0095
Benzidine	ND		0.16
Benzo(a)anthracene	ND		0.0095
Benzo(a)pyrene	ND		0.0095
Benzo(b)fluoranthene	ND		0.0095
Benzo(g,h,i)perylene	ND		0.0095
Benzo(k)fluoranthene	ND		0.0095
Benzoic acid	ND		0.048
Benzyl alcohol	ND		0.0095
Butyl benzyl phthalate	ND		0.0095
Chrysene	ND		0.0095
Di-n-butyl phthalate	ND		0.0095
Di-n-octyl phthalate	ND		0.0095
Dibenz(a,h)anthracene	ND		0.0095
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0095
Diethyl phthalate	ND		0.0095
Dimethyl phthalate	ND		0.0095
Diphenylamine	ND		0.0095
Ethyl methanesulfonate	ND		0.0095
Fluoranthene	ND		0.0095
Fluorene	ND		0.0095
Furan, tetrahydro-3-methyl-	0.046	J	
Heptanoic acid, 3-nitrophenyl ester	0.020	J	
Heptanoic acid, anhydride	0.017	J	
Hexachlorobenzene	ND		0.0095
Hexachlorobutadiene	ND		0.0095
Hexachlorocyclopentadiene	ND		0.048
Hexachloroethane	ND		0.0095
Indeno(1,2,3-cd)pyrene	ND		0.0095

Matrix : SURF-H2O

Client Description	SC-QE02-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Isophorone	ND		0.0095
Methyl methanesulfonate	ND		0.0095
N-Nitroso-di-n-butylamine	ND		0.0095
N-Nitroso-di-n-propylamine	ND		0.0095
N-Nitrosodiphenylamine	ND		0.0095
N-Nitrosopiperidine	ND		0.0095
Naphthalene	ND		0.0095
Nitrobenzene	ND		0.0095
Nitrogen Compound	0.011	J	
Nitrogen Compound	0.016	J	
Nitrogen Compound	0.017	J	
Octanethioic acid, S-hexyl ester	0.032	J	
Oxygenated Hydrocarbon	0.018	J	
Pentachlorobenzene	ND		0.0095
Pentachloronitrobenzene	ND		0.048
Pentachlorophenol	ND		0.048
Phenacetin	ND		0.019
Phenanthrene	ND		0.0095
Phenol	ND		0.0095
Pronamide	ND		0.019
Propane, 2-ethoxy-2-methyl-	0.034	J	
Pyrene	ND		0.0095
Saturated Hydrocarbon	0.0056	J	
Saturated Hydrocarbon	0.0090	J	
Saturated Hydrocarbon	0.011	J	
Saturated Hydrocarbon	0.018	J	
Saturated Hydrocarbon	0.020	J	
Saturated Hydrocarbon	0.021	J	
Saturated Hydrocarbon	0.030	J	
Saturated Hydrocarbon	0.033	J	
Saturated Hydrocarbon	0.051	J	
Saturated Hydrocarbon	0.060	J	
TID Compound 30	ND		
Unknown	0.045	J	
a,a-Dimethylphenethyl-amine	ND		0.048
bis(2-Chloroethoxy)methane	ND		0.0095
bis(2-Chloroethyl) ether	ND		0.0095
bis(2-Ethylhexyl)phthalate	ND		0.0095
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.098
4,4'-DDE	ND		0.098
4,4'-DDT	ND		0.098
Aldrin	ND		0.049
Aroclor 1016	ND		0.98
Aroclor 1221	ND		0.98
Aroclor 1232	ND		0.98
Aroclor 1242	ND		0.98
Aroclor 1248	ND		0.98
Aroclor 1254	0.58	J	0.98
Aroclor 1260	ND		0.98
Dieldrin	ND		0.098
Endosulfan I	ND		0.049
Endosulfan II	ND		0.098
Endosulfan sulfate	ND		0.098
Endrin	ND		0.098
Endrin aldehyde	ND		0.098
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49
Toxaphene	ND		4.9
alpha-BHC	ND		0.049

Matrix : SURF-H2O

Client Description	SC-QE02-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Barium	0.47		0.0010
Beryllium	ND		0.00050
Cadmium	0.00024	J	0.00030
Calcium	67.2		0.20
Chromium	0.013		0.0050
Cobalt	0.00015	J	0.00050
Copper	0.047		0.0020
Iron	0.042	J	0.10
Lead	0.00027	J	0.0010
Magnesium	33.3		0.20
Manganese	0.011		0.00020
Molybdenum	0.0029		0.0010
Nickel	0.0014		0.00020
Potassium	2.0	J	5.0
Selenium	ND		0.0050
Silver	0.000035	J	0.00050
Sodium	26.0		5.0
Thallium	ND		0.00010
Vanadium	0.019		0.00050
Zinc	0.0084	J	0.010

Matrix : SURF-H2O

Client Description	**SC-QE03-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	137		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	137		5.0
Chemical Oxygen Demand (Regular)	10.9	J	20.0
Chloride	16.1		0.50
Hardness as CaCO3	296		5.0
Sulfate	198		1.0
Total Dissolved Solids	481		10.0
Total Organic Carbon	8.1		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0030	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	0.0016	J	0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	0.0018	J	0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	0.0059	B	0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00012	J	0.0030
Arsenic	0.0027	J	0.0050
Barium	0.52		0.0010
Beryllium	ND		0.00050
Cadmium	0.00014	J	0.00030
Calcium	68.9		0.20
Chromium	0.011		0.0050
Cobalt	0.00053		0.00050
Copper	0.063		0.0020
Iron	0.13		0.10
Lead	0.00086	J	0.0010
Magnesium	34.0		0.20
Manganese	0.013		0.00020
Mercury	ND		0.00020
Molybdenum	0.0031		0.0010
Nickel	0.016		0.00020
Potassium	2.2	J	5.0
Selenium	0.0039	J	0.0050
Silver	ND		0.00050
Sodium	27.7		5.0
Thallium	ND		0.00010
Vanadium	0.016		0.00050
Zinc	0.013		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0098
1,2,4-Trichlorobenzene	ND		0.0098
1,2-Dichlorobenzene	ND		0.0098
1,3-Dichlorobenzene	ND		0.0098
1,3-Dinitrobenzene	ND		0.0098
1,3-Propanediol, 2,2-dimethyl-	0.0060	J	
1,4-Dichlorobenzene	ND		0.0098
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0098
2,2'-oxybis(1-chloropropane)	ND		0.0098
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0098
2,4,6-Trichlorophenol	ND		0.0098
2,4-Dichlorophenol	ND		0.0098

Matrix : SURF-H2O

Client Description	SC-QE03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dimethylphenol	ND		0.0098
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0098
2,6-Dichlorophenol	ND		0.0098
2,6-Dinitrotoluene	ND		0.0098
2-Chloronaphthalene	ND		0.0098
2-Chlorophenol	ND		0.0098
2-Methylnaphthalene	ND		0.0098
2-Methylphenol	ND		0.0098
2-Naphthylamine	ND		0.0098
2-Nitrophenol	ND		0.0098
2-Picoline	ND		0.020
2-Pyridinecarbonitrile	0.0064	J	
2H-Indol-2-one, 1,3-dihydro-	0.030	J	
2H-Indol-2-one, 1,3-dihydro-	0.22	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Hydroxy-3-methyl-2-butanone	0.0077	J	
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0098
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0098
4-Chloro-3-methylphenol	ND		0.0098
4-Chloroaniline	ND		0.0098
4-Chlorophenyl phenyl ether	ND		0.0098
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
4-Pyridinecarbonitrile	0.032	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.0098
Acenaphthylene	ND		0.0098
Acetophenone	ND		0.0098
Aniline	ND		0.0098
Anthracene	ND		0.0098
Azobenzene	ND		0.0098
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0098
Benzo(a)pyrene	ND		0.0098
Benzo(b)fluoranthene	ND		0.0098
Benzo(g,h,i)perylene	ND		0.0098
Benzo(k)fluoranthene	ND		0.0098
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0098
Butyl benzyl phthalate	ND		0.0098
Chrysene	ND		0.0098
Di-n-butyl phthalate	ND		0.0098
Di-n-octyl phthalate	ND		0.0098
Dibenz(a,h)anthracene	ND		0.0098
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0098
Diethyl phthalate	ND		0.0098
Dimethyl phthalate	ND		0.0098
Diphenylamine	ND		0.0098
Ethyl methanesulfonate	ND		0.0098
Fluoranthene	ND		0.0098
Fluorene	ND		0.0098
Furan, tetrahydro-3-methyl-	0.012	J	
Heptanoic acid, anhydride	0.0050	J	
Hexachlorobenzene	ND		0.0098
Hexachlorobutadiene	ND		0.0098
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0098
Indeno(1,2,3-cd)pyrene	ND		0.0098
Isophorone	ND		0.0098
Methyl methanesulfonate	ND		0.0098

Matrix : SURF-H2O

Client Description	SC-QE03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
N-Nitroso-di-n-butylamine	ND		0.0098
N-Nitroso-di-n-propylamine	ND		0.0098
N-Nitrosodiphenylamine	ND		0.0098
N-Nitrosopiperidine	ND		0.0098
Naphthalene	ND		0.0098
Nitrobenzene	ND		0.0098
Nitrogen Compound	0.0041	J	
Nitrogen Compound	0.039	J	
Octanethioic acid, S-hexyl ester	0.0046	J	
Oxygenated Hydrocarbon	0.010	J	
Pentachlorobenzene	ND		0.0098
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.020
Phenanthrene	ND		0.0098
Phenol	ND		0.0098
Pronamide	ND		0.020
Propane, 2-ethoxy-2-methyl-	0.027	J	
Pyrene	ND		0.0098
Saturated Hydrocarbon	0.0041	J	
Saturated Hydrocarbon	0.0084	J	
Silacyclohexane, 1,1-dimethyl-	0.010	J	
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0098
bis(2-Chloroethyl) ether	ND		0.0098
bis(2-Ethylhexyl)phthalate	ND		0.0098
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.096
4,4'-DDE	ND		0.096
4,4'-DDT	ND		0.096
Aldrin	ND		0.048
Aroclor 1016	ND		0.96
Aroclor 1221	ND		0.96
Aroclor 1232	ND		0.96
Aroclor 1242	ND		0.96
Aroclor 1248	ND		0.96
Aroclor 1254	ND		0.96
Aroclor 1260	ND		0.96
Dieldrin	ND		0.096
Endosulfan I	ND		0.048
Endosulfan II	ND		0.096
Endosulfan sulfate	ND		0.096
Endrin	ND		0.096
Endrin aldehyde	ND		0.096
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	SC-QE03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Barium	0.48		0.0010
Beryllium	ND		0.00050
Cadmium	0.00021	J	0.00030
Calcium	70.4		0.20
Chromium	0.013		0.0050
Cobalt	0.00016	J	0.00050
Copper	0.040		0.0020
Iron	0.054	J	0.10
Lead	0.00039	J	0.0010
Magnesium	34.7		0.20
Manganese	0.013		0.00020
Molybdenum	0.0032		0.0010
Nickel	0.00016	J	0.00020
Potassium	2.1	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	28.2		5.0
Thallium	0.000054	J	0.00010
Vanadium	0.019		0.00050
Zinc	0.0087	J	0.010

Matrix : SURF-H2O

Client Description	**SC-QE04-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	184		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	184		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	9.6		0.50
Hardness as CaCO3	202		5.0
Sulfate	50.1		0.50
Total Dissolved Solids	286		10.0
Total Organic Carbon	2.5		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0015	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0033	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	**SC-QE04-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Arsenic	ND		0.0050
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	0.000086	J	0.00030
Calcium	47.7		0.20
Chromium	0.0059		0.0050
Cobalt	0.00035	J	0.00050
Copper	0.023		0.0020
Iron	0.089	J	0.10
Lead	0.00050	J	0.0010
Magnesium	23.5		0.20
Manganese	0.0099		0.00020
Mercury	ND		0.00020
Molybdenum	0.0019		0.0010
Nickel	0.011		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	16.5		5.0
Thallium	ND		0.00010
Vanadium	0.010		0.00050
Zinc	0.0076	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0098
1,2,4-Trichlorobenzene	ND		0.0098
1,2-Dichlorobenzene	ND		0.0098
1,3-Dichlorobenzene	ND		0.0098
1,3-Dinitrobenzene	ND		0.0098
1,4-Dichlorobenzene	ND		0.0098
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0098
2,2'-oxybis(1-chloropropane)	ND		0.0098
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0098
2,4,6-Trichlorophenol	ND		0.0098
2,4-Dichlorophenol	ND		0.0098
2,4-Dimethylphenol	ND		0.0098

Matrix : SURF-H2O

Client Description	SC-QE04-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0098
2,6-Dichlorophenol	ND		0.0098
2,6-Dinitrotoluene	ND		0.0098
2-Chloronaphthalene	ND		0.0098
2-Chlorophenol	ND		0.0098
2-Methylnaphthalene	ND		0.0098
2-Methylphenol	ND		0.0098
2-Naphthylamine	ND		0.0098
2-Nitrophenol	ND		0.0098
2-Picoline	ND		0.020
2-Pyridinecarbonitrile	0.0054	J	
2-Pyridinecarbonitrile	0.0064	J	
2H-Indol-2-one, 1,3-dihydro-	0.0074	J	
2H-Indol-2-one, 1,3-dihydro-	0.066	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Hexanol, 4-methyl-	0.041	J	
3-Hydroxy-3-methyl-2-butanone	0.0047	J	
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0098
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0098
4-Chloro-3-methylphenol	ND		0.0098
4-Chloroaniline	ND		0.0098
4-Chlorophenyl phenyl ether	ND		0.0098
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.0098
Acenaphthylene	ND		0.0098
Acetophenone	ND		0.0098
Aniline	ND		0.0098
Anthracene	ND		0.0098
Azobenzene	ND		0.0098
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0098
Benzo(a)pyrene	ND		0.0098
Benzo(b)fluoranthene	ND		0.0098
Benzo(g,h,i)perylene	ND		0.0098
Benzo(k)fluoranthene	ND		0.0098
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0098
Butyl benzyl phthalate	ND		0.0098
Chrysene	ND		0.0098
Di-n-butyl phthalate	ND		0.0098
Di-n-octyl phthalate	ND		0.0098
Dibenz(a,h)anthracene	ND		0.0098
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0098
Diethyl phthalate	ND		0.0098
Dimethyl phthalate	ND		0.0098
Diphenylamine	ND		0.0098
Ethyl methanesulfonate	ND		0.0098
Fluoranthene	ND		0.0098
Fluorene	ND		0.0098
Furan, tetrahydro-3-methyl-	0.035	J	
Hexachlorobenzene	ND		0.0098
Hexachlorobutadiene	ND		0.0098
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0098
Indeno(1,2,3-cd)pyrene	ND		0.0098
Isophorone	ND		0.0098
Methyl methanesulfonate	ND		0.0098
Morpholine	0.0082	J	

Matrix : SURF-H2O

Client Description	SC-QE04-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
N-Nitroso-di-n-butylamine	ND		0.0098
N-Nitroso-di-n-propylamine	ND		0.0098
N-Nitrosodiphenylamine	ND		0.0098
N-Nitrosopiperidine	ND		0.0098
Naphthalene	ND		0.0098
Nitrobenzene	ND		0.0098
Oxygenated Hydrocarbon	0.0052	J	
Pentachlorobenzene	ND		0.0098
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.020
Phenanthrene	ND		0.0098
Phenol	ND		0.0098
Pronamide	ND		0.020
Pyrene	ND		0.0098
Saturated Hydrocarbon	0.0043	J	
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0098
bis(2-Chloroethyl) ether	ND		0.0098
bis(2-Ethylhexyl)phthalate	ND		0.0098
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.098
4,4'-DDE	ND		0.098
4,4'-DDT	ND		0.098
Aldrin	ND		0.049
Aroclor 1016	ND		0.98
Aroclor 1221	ND		0.98
Aroclor 1232	ND		0.98
Aroclor 1242	ND		0.98
Aroclor 1248	ND		0.98
Aroclor 1254	ND		0.98
Aroclor 1260	ND		0.98
Dieldrin	ND		0.098
Endosulfan I	ND		0.049
Endosulfan II	ND		0.098
Endosulfan sulfate	ND		0.098
Endrin	ND		0.098
Endrin aldehyde	ND		0.098
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49

Matrix : SURF-H2O

Client Description	SC-QE04-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.9
alpha-BHC	ND		0.049
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Barium	0.40		0.0010
Beryllium	ND		0.00050
Cadmium	0.00018	J	0.00030
Calcium	48.7		0.20
Chromium	0.0085		0.0050
Cobalt	0.000099	J	0.00050
Copper	0.015		0.0020
Iron	ND		0.10
Lead	ND		0.0010
Magnesium	24.0		0.20
Manganese	0.00099		0.00020
Molybdenum	0.0018		0.0010
Nickel	0.00093		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	16.4		5.0
Thallium	ND		0.00010
Vanadium	0.013		0.00050
Zinc	0.0059	J	0.010

Matrix : SURF-H2O

Client Description	SC-QE05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	191		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	191		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	9.0		0.50
Hardness as CaCO3	194		5.0
Sulfate	24.7		0.50
Total Dissolved Solids	257		10.0
Total Organic Carbon	1.2		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0067	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.048		0.015
Antimony	0.00023	J	0.0030
Arsenic	ND		0.0050
Barium	0.44		0.0010
Beryllium	ND		0.00050
Cadmium	0.00050		0.00030
Calcium	45.3		0.20
Chromium	0.0059		0.0050
Cobalt	0.00044	J	0.00050
Copper	0.015		0.0020
Iron	0.061	J	0.10
Lead	0.0012		0.0010
Magnesium	22.7		0.20
Manganese	0.017		0.00020
Mercury	ND		0.00020
Molybdenum	0.0021		0.0010
Nickel	0.012		0.00020
Potassium	1.5	J	5.0
Selenium	0.0027	J	0.0050
Silver	0.00013	J	0.00050
Sodium	16.1		5.0
Thallium	ND		0.00010
Vanadium	0.011		0.00050
Zinc	0.0081	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0096
1,2,4-Trichlorobenzene	ND		0.0096
1,2-Dichlorobenzene	ND		0.0096
1,3-Dichlorobenzene	ND		0.0096
1,3-Dinitrobenzene	ND		0.0096
1,4-Dichlorobenzene	ND		0.0096
1-Chloronaphthalene	ND		0.048
1-Naphthylamine	ND		0.0096
2,2'-oxybis(1-chloropropane)	ND		0.0096
2,3,4,6-Tetrachlorophenol	ND		0.048
2,4,5-Trichlorophenol	ND		0.0096
2,4,6-Trichlorophenol	ND		0.0096
2,4-Dichlorophenol	ND		0.0096
2,4-Dimethylphenol	ND		0.0096

Matrix : SURF-H2O

Client Description	**SC-QE05-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.048
2,4-Dinitrotoluene	ND		0.0096
2,6-Dichlorophenol	ND		0.0096
2,6-Dinitrotoluene	ND		0.0096
2-Chloronaphthalene	ND		0.0096
2-Chlorophenol	ND		0.0096
2-Methylnaphthalene	ND		0.0096
2-Methylphenol	ND		0.0096
2-Naphthylamine	ND		0.0096
2-Nitrophenol	ND		0.0096
2-Picoline	ND		0.019
2H-Indol-2-one, 1,3-dihydro-	0.028	J	
3,3'-Dichlorobenzidine	ND		0.048
3,3'-Dimethylbenzidine	ND		0.048
3-Hexanol, 4-methyl-	0.027	J	
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.048
3/4-Methylphenol	ND		0.0096
4,6-Dinitro-2-methylphenol	ND		0.048
4-Aminobiphenyl	ND		0.048
4-Bromophenyl phenyl ether	ND		0.0096
4-Chloro-3-methylphenol	ND		0.0096
4-Chloroaniline	ND		0.0096
4-Chlorophenyl phenyl ether	ND		0.0096
4-Nitroaniline	ND		0.048
4-Nitrophenol	ND		0.048
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0096
Acenaphthylene	ND		0.0096
Acetophenone	ND		0.0096
Aniline	ND		0.0096
Anthracene	ND		0.0096
Azobenzene	ND		0.0096
Benzidine	ND		0.16
Benzo(a)anthracene	ND		0.0096
Benzo(a)pyrene	ND		0.0096
Benzo(b)fluoranthene	ND		0.0096
Benzo(g,h,i)perylene	ND		0.0096
Benzo(k)fluoranthene	ND		0.0096
Benzoic acid	ND		0.048
Benzyl alcohol	ND		0.0096
Butyl benzyl phthalate	ND		0.0096
Chrysene	ND		0.0096
Di-n-butyl phthalate	ND		0.0096
Di-n-octyl phthalate	ND		0.0096
Dibenz(a,h)anthracene	ND		0.0096
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0096
Diethyl phthalate	ND		0.0096
Dimethyl phthalate	ND		0.0096
Diphenylamine	ND		0.0096
Ethyl methanesulfonate	ND		0.0096
Fluoranthene	ND		0.0096
Fluorene	ND		0.0096
Hexachlorobenzene	ND		0.0096
Hexachlorobutadiene	ND		0.0096
Hexachlorocyclopentadiene	ND		0.048
Hexachloroethane	ND		0.0096
Indeno(1,2,3-cd)pyrene	ND		0.0096
Isophorone	ND		0.0096
Methyl methanesulfonate	ND		0.0096
N-Nitroso-di-n-butylamine	ND		0.0096
N-Nitroso-di-n-propylamine	ND		0.0096
N-Nitrosodiphenylamine	ND		0.0096
N-Nitrosopiperidine	ND		0.0096
Naphthalene	ND		0.0096
Nitrobenzene	ND		0.0096

Matrix : SURF-H2O

Client Description	**SC-QE05-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorobenzene	ND		0.0096
Pentachloronitrobenzene	ND		0.048
Pentachlorophenol	ND		0.048
Phenacetin	ND		0.019
Phenanthrene	ND		0.0096
Phenol	ND		0.0096
Pronamide	ND		0.019
Pyrene	ND		0.0096
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Unknown	0.0065	J	
a,a-Dimethylphenethyl-amine	ND		0.048
bis(2-Chloroethoxy)methane	ND		0.0096
bis(2-Chloroethyl) ether	ND		0.0096
bis(2-Ethylhexyl)phthalate	ND		0.0096
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.097
4,4'-DDE	ND		0.097
4,4'-DDT	ND		0.097
Aldrin	ND		0.048
Aroclor 1016	ND		0.97
Aroclor 1221	ND		0.97
Aroclor 1232	ND		0.97
Aroclor 1242	ND		0.97
Aroclor 1248	ND		0.97
Aroclor 1254	ND		0.97
Aroclor 1260	ND		0.97
Dieldrin	ND		0.097
Endosulfan I	ND		0.048
Endosulfan II	ND		0.097
Endosulfan sulfate	ND		0.097
Endrin	ND		0.097
Endrin aldehyde	ND		0.097
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	**SC-QE05-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	ND		0.0030
Barium	0.40		0.0010
Beryllium	ND		0.00050
Cadmium	0.00023	J	0.00030
Calcium	45.8		0.20
Chromium	0.0087		0.0050
Cobalt	0.000085	J	0.00050
Copper	0.0063		0.0020
Iron	ND		0.10
Lead	ND		0.0010
Magnesium	22.9		0.20
Manganese	0.0063		0.00020
Molybdenum	0.00086	J	0.0010
Nickel	0.00074		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	15.3		5.0
Thallium	ND		0.00010
Vanadium	0.013		0.00050
Zinc	0.0054	J	0.010

Matrix : SURF-H2O

Client Description	SC-QE06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	184		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	184		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	10.2		0.50
Hardness as CaCO3	213		5.0
Sulfate	55.4		0.50
Total Dissolved Solids	301	B	10.0
Total Organic Carbon	3.1		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0036	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	0.0039	J	0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.031		0.015
Antimony	0.00012	J	0.0030
Arsenic	ND		0.0050
Barium	0.45		0.0010
Beryllium	ND		0.00050
Cadmium	0.00022	J	0.00030
Calcium	48.2		0.20
Chromium	0.0057		0.0050
Cobalt	0.00039	J	0.00050
Copper	0.014		0.0020
Iron	0.11		0.10
Lead	0.0013		0.0010
Magnesium	23.6		0.20
Manganese	0.021		0.00020
Mercury	ND		0.00020
Molybdenum	0.0014		0.0010
Nickel	0.012		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.2		5.0
Thallium	ND		0.00010
Vanadium	0.010		0.00050
Zinc	0.010		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0096
1,2,4-Trichlorobenzene	ND		0.0096
1,2-Dichlorobenzene	ND		0.0096
1,3-Dichlorobenzene	ND		0.0096
1,3-Dinitrobenzene	ND		0.0096
1,4-Dichlorobenzene	ND		0.0096
1-Chloronaphthalene	ND		0.048
1-Naphthylamine	ND		0.0096
1H-Indol-5-ol	0.072	J	
2,2'-oxybis(1-chloropropane)	ND		0.0096
2,3,4,6-Tetrachlorophenol	ND		0.048
2,4,5-Trichlorophenol	ND		0.0096
2,4,6-Trichlorophenol	ND		0.0096
2,4-Dichlorophenol	ND		0.0096

Matrix : SURF-H2O

Client Description	**SC-QE06-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dimethylphenol	ND		0.0096
2,4-Dinitrophenol	ND		0.048
2,4-Dinitrotoluene	ND		0.0096
2,6-Dichlorophenol	ND		0.0096
2,6-Dinitrotoluene	ND		0.0096
2-Chloronaphthalene	ND		0.0096
2-Chlorophenol	ND		0.0096
2-Methylnaphthalene	ND		0.0096
2-Methylphenol	ND		0.0096
2-Naphthylamine	ND		0.0096
2-Nitrophenol	ND		0.0096
2-Picoline	ND		0.019
2-Pyridinecarbonitrile	0.0068	J	
3,3'-Dichlorobenzidine	ND		0.048
3,3'-Dimethylbenzidine	ND		0.048
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.048
3/4-Methylphenol	ND		0.0096
4,6-Dinitro-2-methylphenol	ND		0.048
4-Aminobiphenyl	ND		0.048
4-Bromophenyl phenyl ether	ND		0.0096
4-Chloro-3-methylphenol	ND		0.0096
4-Chloroaniline	ND		0.0096
4-Chlorophenyl phenyl ether	ND		0.0096
4-Nitroaniline	ND		0.048
4-Nitrophenol	ND		0.048
4-Pyridinecarbonitrile	0.0060	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0096
Acenaphthylene	ND		0.0096
Acetophenone	ND		0.0096
Aniline	ND		0.0096
Anthracene	ND		0.0096
Azobenzene	ND		0.0096
Benzidine	ND		0.16
Benzo(a)anthracene	ND		0.0096
Benzo(a)pyrene	ND		0.0096
Benzo(b)fluoranthene	ND		0.0096
Benzo(g,h,i)perylene	ND		0.0096
Benzo(k)fluoranthene	ND		0.0096
Benzoic acid	ND		0.048
Benzyl alcohol	ND		0.0096
Butyl benzyl phthalate	ND		0.0096
Chrysene	ND		0.0096
Di-n-butyl phthalate	ND		0.0096
Di-n-octyl phthalate	ND		0.0096
Dibenz(a,h)anthracene	ND		0.0096
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0096
Diethyl phthalate	ND		0.0096
Dimethyl phthalate	ND		0.0096
Diphenylamine	ND		0.0096
Ethyl methanesulfonate	ND		0.0096
Fluoranthene	ND		0.0096
Fluorene	ND		0.0096
Hexachlorobenzene	ND		0.0096
Hexachlorobutadiene	ND		0.0096
Hexachlorocyclopentadiene	ND		0.048
Hexachloroethane	ND		0.0096
Indeno(1,2,3-cd)pyrene	ND		0.0096
Isophorone	ND		0.0096
Methyl methanesulfonate	ND		0.0096
N-Nitroso-di-n-butylamine	ND		0.0096
N-Nitroso-di-n-propylamine	ND		0.0096
N-Nitrosodiphenylamine	ND		0.0096
N-Nitrosopiperidine	ND		0.0096
Naphthalene	ND		0.0096

Matrix : SURF-H2O

Client Description	**SC-QE06-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Nitrobenzene	ND		0.0096
Pentachlorobenzene	ND		0.0096
Pentachloronitrobenzene	ND		0.048
Pentachlorophenol	ND		0.048
Phenacetin	ND		0.019
Phenanthrene	ND		0.0096
Phenol	ND		0.0096
Pronamide	ND		0.019
Pyrene	ND		0.0096
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Toluene	0.021	J	
a,a-Dimethylphenethyl-amine	ND		0.048
bis(2-Chloroethoxy)methane	ND		0.0096
bis(2-Chloroethyl) ether	ND		0.0096
bis(2-Ethylhexyl)phthalate	ND		0.0096
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.096
4,4'-DDE	ND		0.096
4,4'-DDT	ND		0.096
Aldrin	ND		0.048
Aroclor 1016	ND		0.96
Aroclor 1221	ND		0.96
Aroclor 1232	ND		0.96
Aroclor 1242	ND		0.96
Aroclor 1248	ND		0.96
Aroclor 1254	ND		0.96
Aroclor 1260	ND		0.96
Dieldrin	ND		0.096
Endosulfan I	ND		0.048
Endosulfan II	ND		0.096
Endosulfan sulfate	ND		0.096
Endrin	ND		0.096
Endrin aldehyde	ND		0.096
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	**SC-QE06-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.068		0.015
Antimony	ND		0.0030
Barium	0.42		0.0010
Beryllium	ND		0.00050
Cadmium	0.00049		0.00030
Calcium	50.1		0.20
Chromium	0.0096		0.0050
Cobalt	0.00014	J	0.00050
Copper	0.014		0.0020
Iron	0.024	J	0.10
Lead	0.0013		0.0010
Magnesium	24.9		0.20
Manganese	0.021		0.00020
Molybdenum	0.0014		0.0010
Nickel	0.0012		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.8		5.0
Thallium	ND		0.00010
Vanadium	0.013		0.00050
Zinc	0.011		0.010

Matrix : SURF-H2O

Client Description	SC-QE07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	196		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	6.6		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	203		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	8.2		0.50
Hardness as CaCO3	186		5.0
Sulfate	4.9		0.50
Total Dissolved Solids	236	B	10.0
Total Organic Carbon	0.86	J	1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0062	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0061	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	0.0033	J	0.0050
Siloxane	0.016	J	
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00020	J	0.0030
Arsenic	ND		0.0050
Barium	0.43		0.0010
Beryllium	ND		0.00050
Cadmium	0.0012		0.00030
Calcium	42.3		0.20
Chromium	0.0066		0.0050
Cobalt	0.00027	J	0.00050
Copper	0.010		0.0020
Iron	0.024	J	0.10
Lead	0.00094	J	0.0010
Magnesium	21.4		0.20
Manganese	0.00021		0.00020
Mercury	ND		0.00020
Molybdenum	0.00034	J	0.0010
Nickel	0.010		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	12.3		5.0
Thallium	ND		0.00010
Vanadium	0.011		0.00050
Zinc	0.025		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.010
1,2,4-Trichlorobenzene	ND		0.010
1,2-Dichlorobenzene	ND		0.010
1,3-Cyclopentanedione, 2-bromo-	0.0067	J	
1,3-Cyclopentanedione, 2-bromo-	0.0077	J	
1,3-Dichlorobenzene	ND		0.010
1,3-Dinitrobenzene	ND		0.010
1,4-Dichlorobenzene	ND		0.010
1-Chloronaphthalene	ND		0.050
1-Naphthylamine	ND		0.010
2,2'-oxybis(1-chloropropane)	ND		0.010
2,3,4,6-Tetrachlorophenol	ND		0.050
2,4,5-Trichlorophenol	ND		0.010
2,4,6-Trichlorophenol	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QE07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dichlorophenol	ND		0.010
2,4-Dimethylphenol	ND		0.010
2,4-Dinitrophenol	ND		0.050
2,4-Dinitrotoluene	ND		0.010
2,6-Dichlorophenol	ND		0.010
2,6-Dinitrotoluene	ND		0.010
2-Chloronaphthalene	ND		0.010
2-Chlorophenol	ND		0.010
2-Methylnaphthalene	ND		0.010
2-Methylphenol	ND		0.010
2-Naphthylamine	ND		0.010
2-Nitrophenol	ND		0.010
2-Picoline	ND		0.020
3,3'-Dichlorobenzidine	ND		0.050
3,3'-Dimethylbenzidine	ND		0.050
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.050
3/4-Methylphenol	ND		0.010
4,6-Dinitro-2-methylphenol	ND		0.050
4-Aminobiphenyl	ND		0.050
4-Bromophenyl phenyl ether	ND		0.010
4-Chloro-3-methylphenol	ND		0.010
4-Chloroaniline	ND		0.010
4-Chlorophenyl phenyl ether	ND		0.010
4-Nitroaniline	ND		0.050
4-Nitrophenol	ND		0.050
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.010
Acenaphthylene	ND		0.010
Acetophenone	ND		0.010
Aniline	ND		0.010
Anthracene	ND		0.010
Azobenzene	ND		0.010
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.010
Benzo(a)pyrene	ND		0.010
Benzo(b)fluoranthene	ND		0.010
Benzo(g,h,i)perylene	ND		0.010
Benzo(k)fluoranthene	ND		0.010
Benzoic acid	ND		0.050
Benzyl alcohol	ND		0.010
Butane, 2,3-dichloro-2-methyl-	0.0045	J	
Butyl benzyl phthalate	ND		0.010
Chrysene	ND		0.010
Di-n-butyl phthalate	ND		0.010
Di-n-octyl phthalate	ND		0.010
Dibenz(a,h)anthracene	ND		0.010
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.010
Diethyl phthalate	ND		0.010
Dimethyl phthalate	ND		0.010
Diphenylamine	ND		0.010
Ethyl methanesulfonate	ND		0.010
Fluoranthene	ND		0.010
Fluorene	ND		0.010
Hexachlorobenzene	ND		0.010
Hexachlorobutadiene	ND		0.010
Hexachlorocyclopentadiene	ND		0.050
Hexachloroethane	ND		0.010
Indeno(1,2,3-cd)pyrene	ND		0.010
Isophorone	ND		0.010
Methyl methanesulfonate	ND		0.010
N-Nitroso-di-n-butylamine	ND		0.010
N-Nitroso-di-n-propylamine	ND		0.010
N-Nitrosodiphenylamine	ND		0.010
N-Nitrosopiperidine	ND		0.010
Naphthalene	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QE07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Nitrobenzene	ND		0.010
Oxygenated Hydrocarbon	0.0082	J	
Oxygenated Hydrocarbon	0.056	J	
Pentachlorobenzene	ND		0.010
Pentachloronitrobenzene	ND		0.050
Pentachlorophenol	ND		0.050
Phenacetin	ND		0.020
Phenanthrene	ND		0.010
Phenol	ND		0.010
Pronamide	ND		0.020
Pyrene	ND		0.010
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.050
bis(2-Chloroethoxy)methane	ND		0.010
bis(2-Chloroethyl) ether	ND		0.010
bis(2-Ethylhexyl)phthalate	ND		0.010
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.098
4,4'-DDE	ND		0.098
4,4'-DDT	ND		0.098
Aldrin	ND		0.049
Aroclor 1016	ND		0.98
Aroclor 1221	ND		0.98
Aroclor 1232	ND		0.98
Aroclor 1242	ND		0.98
Aroclor 1248	ND		0.98
Aroclor 1254	ND		0.98
Aroclor 1260	ND		0.98
Dieldrin	ND		0.098
Endosulfan I	ND		0.049
Endosulfan II	ND		0.098
Endosulfan sulfate	ND		0.098
Endrin	ND		0.098
Endrin aldehyde	ND		0.098
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49

Matrix : SURF-H2O

Client Description	**SC-QE07-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.9
alpha-BHC	ND		0.049
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.0060	J	0.015
Antimony	ND		0.0030
Barium	0.42		0.0010
Beryllium	ND		0.00050
Cadmium	0.0026		0.00030
Calcium	43.1		0.20
Chromium	0.010		0.0050
Cobalt	0.000072	J	0.00050
Copper	0.0098		0.0020
Iron	ND		0.10
Lead	0.0010		0.0010
Magnesium	22.2		0.20
Manganese	0.00047		0.00020
Molybdenum	0.00019	J	0.0010
Nickel	0.00097		0.00020
Potassium	1.2	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	12.9		5.0
Thallium	ND		0.00010
Vanadium	0.013		0.00050
Zinc	0.024		0.010

Matrix : SURF-H2O

Client Description	SC-QE08-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	174		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	179		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	10.2		0.50
Hardness as CaCO3	207		5.0
Sulfate	53.7		0.50
Total Dissolved Solids	290	B	10.0
Total Organic Carbon	4.4		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0018	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0037	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE08-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.034		0.015
Antimony	0.00025	J	0.0030
Arsenic	ND		0.0050
Barium	0.42		0.0010
Beryllium	ND		0.00050
Cadmium	0.00038		0.00030
Calcium	46.7		0.20
Chromium	0.0054		0.0050
Cobalt	0.00038	J	0.00050
Copper	0.014		0.0020
Iron	0.13		0.10
Lead	0.0011		0.0010
Magnesium	22.6		0.20
Manganese	0.014		0.00020
Mercury	ND		0.00020
Molybdenum	0.0021		0.0010
Nickel	0.011		0.00020
Potassium	1.7	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	15.9		5.0
Thallium	ND		0.00010
Vanadium	0.010		0.00050
Zinc	0.0073	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0097
1,2,4-Trichlorobenzene	ND		0.0097
1,2-Dichlorobenzene	ND		0.0097
1,3-Dichlorobenzene	ND		0.0097
1,3-Dinitrobenzene	ND		0.0097
1,4-Dichlorobenzene	ND		0.0097
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0097
1H-Indol-5-ol	0.091	J	
2,2'-oxybis(1-chloropropane)	ND		0.0097
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0097
2,4,6-Trichlorophenol	ND		0.0097
2,4-Dichlorophenol	ND		0.0097

Matrix : SURF-H2O

Client Description	**SC-QE08-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dimethylphenol	ND		0.0097
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0097
2,6-Dichlorophenol	ND		0.0097
2,6-Dinitrotoluene	ND		0.0097
2-Chloronaphthalene	ND		0.0097
2-Chlorophenol	ND		0.0097
2-Methylnaphthalene	ND		0.0097
2-Methylphenol	ND		0.0097
2-Naphthylamine	ND		0.0097
2-Nitrophenol	ND		0.0097
2-Picoline	ND		0.019
2-Pyridinecarbonitrile	0.0085	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.049
3-Pyridinecarbonitrile	0.0081	J	
3/4-Methylphenol	ND		0.0097
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0097
4-Chloro-3-methylphenol	ND		0.0097
4-Chloroaniline	ND		0.0097
4-Chlorophenyl phenyl ether	ND		0.0097
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0097
Acenaphthylene	ND		0.0097
Acetophenone	ND		0.0097
Aniline	ND		0.0097
Anthracene	ND		0.0097
Azobenzene	ND		0.0097
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0097
Benzo(a)pyrene	ND		0.0097
Benzo(b)fluoranthene	ND		0.0097
Benzo(g,h,i)perylene	ND		0.0097
Benzo(k)fluoranthene	ND		0.0097
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0097
Butyl benzyl phthalate	ND		0.0097
Chrysene	ND		0.0097
Di-n-butyl phthalate	ND		0.0097
Di-n-octyl phthalate	ND		0.0097
Dibenz(a,h)anthracene	ND		0.0097
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0097
Diethyl phthalate	ND		0.0097
Dimethyl phthalate	ND		0.0097
Diphenylamine	ND		0.0097
Ethyl methanesulfonate	ND		0.0097
Fluoranthene	ND		0.0097
Fluorene	ND		0.0097
Hexachlorobenzene	ND		0.0097
Hexachlorobutadiene	ND		0.0097
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0097
Indeno(1,2,3-cd)pyrene	ND		0.0097
Isophorone	ND		0.0097
Methyl methanesulfonate	ND		0.0097
N-Nitroso-di-n-butylamine	ND		0.0097
N-Nitroso-di-n-propylamine	ND		0.0097
N-Nitrosodiphenylamine	ND		0.0097
N-Nitrosopiperidine	ND		0.0097
Naphthalene	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QE08-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Nitrobenzene	ND		0.0097
Pentachlorobenzene	ND		0.0097
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.019
Phenanthrene	ND		0.0097
Phenol	ND		0.0097
Pronamide	ND		0.019
Pyrene	ND		0.0097
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0097
bis(2-Chloroethyl) ether	ND		0.0097
bis(2-Ethylhexyl)phthalate	ND		0.0097
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.095
4,4'-DDE	ND		0.095
4,4'-DDT	ND		0.095
Aldrin	ND		0.048
Aroclor 1016	ND		0.95
Aroclor 1221	ND		0.95
Aroclor 1232	ND		0.95
Aroclor 1242	ND		0.95
Aroclor 1248	ND		0.95
Aroclor 1254	ND		0.95
Aroclor 1260	ND		0.95
Dieldrin	ND		0.095
Endosulfan I	ND		0.048
Endosulfan II	ND		0.095
Endosulfan sulfate	ND		0.095
Endrin	ND		0.095
Endrin aldehyde	ND		0.095
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	SC-QE08-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.11		0.015
Antimony	0.00018	J	0.0030
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	0.00079		0.00030
Calcium	44.9		0.20
Chromium	0.010		0.0050
Cobalt	0.00015	J	0.00050
Copper	0.014		0.0020
Iron	ND		0.10
Lead	0.0012		0.0010
Magnesium	22.1		0.20
Manganese	0.016		0.00020
Molybdenum	0.0018		0.0010
Nickel	0.0015		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.3		5.0
Thallium	ND		0.00010
Vanadium	0.014		0.00050
Zinc	0.0091	J	0.010

Matrix : SURF-H2O

Client Description	SC-QE09-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	174		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	5.6		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	180		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	10.2		0.50
Hardness as CaCO3	200		5.0
Sulfate	52.3		0.50
Total Dissolved Solids	286	B	10.0
Total Organic Carbon	4.3		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0016	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0045	JB	0.010
Acrolein	0.0025	J	0.10
Acrylonitrile	0.0027	J	0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE09-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.0057	J	0.015
Antimony	ND		0.0030
Arsenic	ND		0.0050
Barium	0.43		0.0010
Beryllium	ND		0.00050
Cadmium	0.000086	J	0.00030
Calcium	46.2		0.20
Chromium	0.0048	J	0.0050
Cobalt	0.00030	J	0.00050
Copper	0.0095		0.0020
Iron	0.16		0.10
Lead	0.00047	J	0.0010
Magnesium	22.5		0.20
Manganese	0.0069		0.00020
Mercury	ND		0.00020
Molybdenum	0.0011		0.0010
Nickel	0.010		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.2		5.0
Thallium	ND		0.00010
Vanadium	0.0098		0.00050
Zinc	0.0064	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0099
1,2,4-Trichlorobenzene	ND		0.0099
1,2-Dichlorobenzene	ND		0.0099
1,3-Dichlorobenzene	ND		0.0099
1,3-Dinitrobenzene	ND		0.0099
1,4-Dichlorobenzene	ND		0.0099
1-Chloronaphthalene	ND		0.050
1-Naphthylamine	ND		0.0099
1H-Indol-5-ol	0.082	J	
2,2'-oxybis(1-chloropropane)	ND		0.0099
2,3,4,6-Tetrachlorophenol	ND		0.050
2,4,5-Trichlorophenol	ND		0.0099
2,4,6-Trichlorophenol	ND		0.0099
2,4-Dichlorophenol	ND		0.0099

Matrix : SURF-H2O

Client Description	SC-QE09-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dimethylphenol	ND		0.0099
2,4-Dinitrophenol	ND		0.050
2,4-Dinitrotoluene	ND		0.0099
2,6-Dichlorophenol	ND		0.0099
2,6-Dinitrotoluene	ND		0.0099
2-Chloronaphthalene	ND		0.0099
2-Chlorophenol	ND		0.0099
2-Methylnaphthalene	ND		0.0099
2-Methylphenol	ND		0.0099
2-Naphthylamine	ND		0.0099
2-Nitrophenol	ND		0.0099
2-Picoline	ND		0.020
2-Pyridinecarbonitrile	0.0077	J	
3,3'-Dichlorobenzidine	ND		0.050
3,3'-Dimethylbenzidine	ND		0.050
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.050
3/4-Methylphenol	ND		0.0099
4,6-Dinitro-2-methylphenol	ND		0.050
4-Aminobiphenyl	ND		0.050
4-Bromophenyl phenyl ether	ND		0.0099
4-Chloro-3-methylphenol	ND		0.0099
4-Chloroaniline	ND		0.0099
4-Chlorophenyl phenyl ether	ND		0.0099
4-Nitroaniline	ND		0.050
4-Nitrophenol	ND		0.050
4-Pyridinecarbonitrile	0.0080	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.0099
Acenaphthylene	ND		0.0099
Acetophenone	ND		0.0099
Aniline	ND		0.0099
Anthracene	ND		0.0099
Azobenzene	ND		0.0099
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0099
Benzo(a)pyrene	ND		0.0099
Benzo(b)fluoranthene	ND		0.0099
Benzo(g,h,i)perylene	ND		0.0099
Benzo(k)fluoranthene	ND		0.0099
Benzoic acid	ND		0.050
Benzyl alcohol	ND		0.0099
Butyl benzyl phthalate	ND		0.0099
Chrysene	ND		0.0099
Di-n-butyl phthalate	ND		0.0099
Di-n-octyl phthalate	ND		0.0099
Dibenz(a,h)anthracene	ND		0.0099
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0099
Diethyl phthalate	ND		0.0099
Dimethyl phthalate	ND		0.0099
Diphenylamine	ND		0.0099
Ethyl methanesulfonate	ND		0.0099
Fluoranthene	ND		0.0099
Fluorene	ND		0.0099
Hexachlorobenzene	ND		0.0099
Hexachlorobutadiene	ND		0.0099
Hexachlorocyclopentadiene	ND		0.050
Hexachloroethane	ND		0.0099
Indeno(1,2,3-cd)pyrene	ND		0.0099
Isophorone	ND		0.0099
Methyl methanesulfonate	ND		0.0099
N-Nitroso-di-n-butylamine	ND		0.0099
N-Nitroso-di-n-propylamine	ND		0.0099
N-Nitrosodiphenylamine	ND		0.0099
N-Nitrosopiperidine	ND		0.0099
Naphthalene	ND		0.0099

Matrix : SURF-H2O

Client Description	SC-QE09-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Nitrobenzene	ND		0.0099
Pentachlorobenzene	ND		0.0099
Pentachloronitrobenzene	ND		0.050
Pentachlorophenol	ND		0.050
Phenacetin	ND		0.020
Phenanthrene	ND		0.0099
Phenol	ND		0.0099
Pronamide	ND		0.020
Pyrene	ND		0.0099
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.050
bis(2-Chloroethoxy)methane	ND		0.0099
bis(2-Chloroethyl) ether	ND		0.0099
bis(2-Ethylhexyl)phthalate	ND		0.0099
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.097
4,4'-DDE	ND		0.097
4,4'-DDT	ND		0.097
Aldrin	ND		0.049
Aroclor 1016	ND		0.97
Aroclor 1221	ND		0.97
Aroclor 1232	ND		0.97
Aroclor 1242	ND		0.97
Aroclor 1248	ND		0.97
Aroclor 1254	ND		0.97
Aroclor 1260	ND		0.97
Dieldrin	ND		0.097
Endosulfan I	ND		0.049
Endosulfan II	ND		0.097
Endosulfan sulfate	ND		0.097
Endrin	ND		0.097
Endrin aldehyde	ND		0.097
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49

Matrix : SURF-H2O

Client Description	SC-QE09-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.9
alpha-BHC	ND		0.049
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.12		0.015
Antimony	0.00020	J	0.0030
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	0.0010		0.00030
Calcium	47.8		0.20
Chromium	0.0098		0.0050
Cobalt	0.00016	J	0.00050
Copper	0.014		0.0020
Iron	ND		0.10
Lead	0.0013		0.0010
Magnesium	23.4		0.20
Manganese	0.017		0.00020
Molybdenum	0.0018		0.0010
Nickel	0.0015		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	18.8		5.0
Thallium	ND		0.00010
Vanadium	0.013		0.00050
Zinc	0.0094	J	0.010

Matrix : SURF-H2O

Client Description	SC-QE10-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	168		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	6.2		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	174		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	9.9		0.50
Hardness as CaCO3	198		5.0
Sulfate	49.1		0.50
Total Dissolved Solids	274		10.0
Total Organic Carbon	4.0		1.0
Total Suspended Solids	4.0		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0048	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE10-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.060		0.015
Antimony	0.00022	J	0.0030
Arsenic	0.0023	J	0.0050
Barium	0.41		0.0010
Beryllium	ND		0.00050
Cadmium	0.00094		0.00030
Calcium	44.5		0.20
Chromium	0.0063		0.0050
Cobalt	0.00040	J	0.00050
Copper	0.014		0.0020
Iron	0.15		0.10
Lead	0.0016		0.0010
Magnesium	21.4		0.20
Manganese	0.015		0.00020
Mercury	ND		0.00020
Molybdenum	0.0022		0.0010
Nickel	0.012		0.00020
Potassium	1.6	J	5.0
Selenium	0.0023	J	0.0050
Silver	ND		0.00050
Sodium	17.7		5.0
Thallium	ND		0.00010
Vanadium	0.011		0.00050
Zinc	0.0093	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0098
1,2,4-Trichlorobenzene	ND		0.0098
1,2-Dichlorobenzene	ND		0.0098
1,3-Dichlorobenzene	ND		0.0098
1,3-Dinitrobenzene	ND		0.0098
1,4-Dichlorobenzene	ND		0.0098
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0098
2,2'-oxybis(1-chloropropane)	ND		0.0098
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0098
2,4,6-Trichlorophenol	ND		0.0098
2,4-Dichlorophenol	ND		0.0098
2,4-Dimethylphenol	ND		0.0098

Matrix : SURF-H2O

Client Description	**SC-QE10-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0098
2,6-Dichlorophenol	ND		0.0098
2,6-Dinitrotoluene	ND		0.0098
2-Chloronaphthalene	ND		0.0098
2-Chlorophenol	ND		0.0098
2-Methylnaphthalene	ND		0.0098
2-Methylphenol	ND		0.0098
2-Naphthylamine	ND		0.0098
2-Nitrophenol	ND		0.0098
2-Picoline	ND		0.020
2-Pyridinecarbonitrile	0.0053	J	
2H-Indol-2-one, 1,3-dihydro-	0.065	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0098
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0098
4-Chloro-3-methylphenol	ND		0.0098
4-Chloroaniline	ND		0.0098
4-Chlorophenyl phenyl ether	ND		0.0098
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.0098
Acenaphthylene	ND		0.0098
Acetophenone	ND		0.0098
Aniline	ND		0.0098
Anthracene	ND		0.0098
Azobenzene	ND		0.0098
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0098
Benzo(a)pyrene	ND		0.0098
Benzo(b)fluoranthene	ND		0.0098
Benzo(g,h,i)perylene	ND		0.0098
Benzo(k)fluoranthene	ND		0.0098
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0098
Butyl benzyl phthalate	ND		0.0098
Chrysene	ND		0.0098
Di-n-butyl phthalate	ND		0.0098
Di-n-octyl phthalate	ND		0.0098
Dibenz(a,h)anthracene	ND		0.0098
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0098
Diethyl phthalate	ND		0.0098
Dimethyl phthalate	ND		0.0098
Diphenylamine	ND		0.0098
Ethyl methanesulfonate	ND		0.0098
Fluoranthene	ND		0.0098
Fluorene	ND		0.0098
Hexachlorobenzene	ND		0.0098
Hexachlorobutadiene	ND		0.0098
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0098
Indeno(1,2,3-cd)pyrene	ND		0.0098
Isophorone	ND		0.0098
Methyl methanesulfonate	ND		0.0098
N-Nitroso-di-n-butylamine	ND		0.0098
N-Nitroso-di-n-propylamine	ND		0.0098
N-Nitrosodiphenylamine	ND		0.0098
N-Nitrosopiperidine	ND		0.0098
Naphthalene	ND		0.0098
Nitrobenzene	ND		0.0098

Matrix : SURF-H2O

Client Description	SC-QE10-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorobenzene	ND		0.0098
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.020
Phenanthrene	ND		0.0098
Phenol	ND		0.0098
Pronamide	ND		0.020
Pyrene	ND		0.0098
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0098
bis(2-Chloroethyl) ether	ND		0.0098
bis(2-Ethylhexyl)phthalate	ND		0.0098
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.096
4,4'-DDE	ND		0.096
4,4'-DDT	ND		0.096
Aldrin	ND		0.048
Aroclor 1016	ND		0.96
Aroclor 1221	ND		0.96
Aroclor 1232	ND		0.96
Aroclor 1242	ND		0.96
Aroclor 1248	ND		0.96
Aroclor 1254	ND		0.96
Aroclor 1260	ND		0.96
Dieldrin	ND		0.096
Endosulfan I	ND		0.048
Endosulfan II	ND		0.096
Endosulfan sulfate	ND		0.096
Endrin	ND		0.096
Endrin aldehyde	ND		0.096
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	**SC-QE10-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.15		0.015
Antimony	0.00022	J	0.0030
Barium	0.40		0.0010
Beryllium	ND		0.00050
Cadmium	0.0021		0.00030
Calcium	43.6		0.20
Chromium	0.011		0.0050
Cobalt	0.00018	J	0.00050
Copper	0.014		0.0020
Iron	ND		0.10
Lead	0.0018		0.0010
Magnesium	21.3		0.20
Manganese	0.016		0.00020
Molybdenum	0.0019		0.0010
Nickel	0.0019		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.0		5.0
Thallium	ND		0.00010
Vanadium	0.014		0.00050
Zinc	0.011		0.010

Matrix : SURF-H2O

Client Description	**SC-QE11-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	175		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	176		5.0
Chemical Oxygen Demand (Regular)	ND		20.0
Chloride	10.4		0.50
Hardness as CaCO3	202		5.0
Sulfate	48.3		0.50
Total Dissolved Solids	281		10.0
Total Organic Carbon	4.1		1.0
Total Suspended Solids	3.6		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0018	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0072	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
Siloxane	0.0061	J	
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QE11-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00029	J	0.0030
Arsenic	0.0024	J	0.0050
Barium	0.36		0.0010
Beryllium	ND		0.00050
Cadmium	0.00060		0.00030
Calcium	44.5		0.20
Chromium	0.0041	J	0.0050
Cobalt	0.00036	J	0.00050
Copper	0.0066		0.0020
Iron	0.34		0.10
Lead	0.00023	J	0.0010
Magnesium	21.7		0.20
Manganese	0.060		0.00020
Mercury	ND		0.00020
Molybdenum	0.0022		0.0010
Nickel	0.011		0.00020
Potassium	1.6	J	5.0
Selenium	0.0023	J	0.0050
Silver	ND		0.00050
Sodium	17.9		5.0
Thallium	ND		0.00010
Vanadium	0.0088		0.00050
Zinc	0.0034	J	0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0097
1,2,4-Trichlorobenzene	ND		0.0097
1,2-Dichlorobenzene	ND		0.0097
1,3-Dichlorobenzene	ND		0.0097
1,3-Dinitrobenzene	ND		0.0097
1,4-Dichlorobenzene	ND		0.0097
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0097
2,2'-oxybis(1-chloropropane)	ND		0.0097
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0097
2,4,6-Trichlorophenol	ND		0.0097
2,4-Dichlorophenol	ND		0.0097
2,4-Dimethylphenol	ND		0.0097

Matrix : SURF-H2O

Client Description	**SC-QE11-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0097
2,6-Dichlorophenol	ND		0.0097
2,6-Dinitrotoluene	ND		0.0097
2-Chloronaphthalene	ND		0.0097
2-Chlorophenol	ND		0.0097
2-Methylnaphthalene	ND		0.0097
2-Methylphenol	ND		0.0097
2-Naphthylamine	ND		0.0097
2-Nitrophenol	ND		0.0097
2-Picoline	ND		0.019
2-Pyridinecarbonitrile	0.0054	J	
2H-Indol-2-one, 1,3-dihydro-	0.063	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0097
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0097
4-Chloro-3-methylphenol	ND		0.0097
4-Chloroaniline	ND		0.0097
4-Chlorophenyl phenyl ether	ND		0.0097
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0097
Acenaphthylene	ND		0.0097
Acetophenone	ND		0.0097
Aniline	ND		0.0097
Anthracene	ND		0.0097
Azobenzene	ND		0.0097
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0097
Benzo(a)pyrene	ND		0.0097
Benzo(b)fluoranthene	ND		0.0097
Benzo(g,h,i)perylene	ND		0.0097
Benzo(k)fluoranthene	ND		0.0097
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0097
Butyl benzyl phthalate	ND		0.0097
Chrysene	ND		0.0097
Di-n-butyl phthalate	ND		0.0097
Di-n-octyl phthalate	ND		0.0097
Dibenz(a,h)anthracene	ND		0.0097
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0097
Diethyl phthalate	ND		0.0097
Dimethyl phthalate	ND		0.0097
Diphenylamine	ND		0.0097
Ethyl methanesulfonate	ND		0.0097
Fluoranthene	ND		0.0097
Fluorene	ND		0.0097
Hexachlorobenzene	ND		0.0097
Hexachlorobutadiene	ND		0.0097
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0097
Indeno(1,2,3-cd)pyrene	ND		0.0097
Isophorone	ND		0.0097
Methyl methanesulfonate	ND		0.0097
N-Nitroso-di-n-butylamine	ND		0.0097
N-Nitroso-di-n-propylamine	ND		0.0097
N-Nitrosodiphenylamine	ND		0.0097
N-Nitrosopiperidine	ND		0.0097
Naphthalene	ND		0.0097
Nitrobenzene	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QE11-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorobenzene	ND		0.0097
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.019
Phenanthrene	ND		0.0097
Phenol	ND		0.0097
Pronamide	ND		0.019
Pyrene	ND		0.0097
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0097
bis(2-Chloroethyl) ether	ND		0.0097
bis(2-Ethylhexyl)phthalate	0.0041	JB	0.0097
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.10
4,4'-DDE	ND		0.10
4,4'-DDT	ND		0.10
Aldrin	ND		0.050
Aroclor 1016	ND		1.0
Aroclor 1221	ND		1.0
Aroclor 1232	ND		1.0
Aroclor 1242	ND		1.0
Aroclor 1248	ND		1.0
Aroclor 1254	ND		1.0
Aroclor 1260	ND		1.0
Dieldrin	ND		0.10
Endosulfan I	ND		0.050
Endosulfan II	ND		0.10
Endosulfan sulfate	ND		0.10
Endrin	ND		0.10
Endrin aldehyde	ND		0.10
Heptachlor	ND		0.050
Heptachlor epoxide	ND		0.050
Methoxychlor	ND		0.50

Matrix : SURF-H2O

Client Description	**SC-QE11-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		5.0
alpha-BHC	ND		0.050
alpha-Chlordane	ND		0.050
beta-BHC	ND		0.050
delta-BHC	ND		0.050
gamma-BHC (Lindane)	ND		0.050
gamma-Chlordane	ND		0.050

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00023	J	0.0030
Barium	0.37		0.0010
Beryllium	ND		0.00050
Cadmium	0.0014		0.00030
Calcium	43.3		0.20
Chromium	0.0078		0.0050
Cobalt	0.00016	J	0.00050
Copper	0.0069		0.0020
Iron	0.073	J	0.10
Lead	0.00043	J	0.0010
Magnesium	21.0		0.20
Manganese	0.065		0.00020
Molybdenum	0.0021		0.0010
Nickel	0.0019		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	17.3		5.0
Thallium	ND		0.00010
Vanadium	0.012		0.00050
Zinc	0.0054	J	0.010

Matrix : SURF-H2O

Client Description	SC-QW03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	88.0		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	88.0		5.0
Chemical Oxygen Demand (Regular)	25.6		20.0
Chloride	4.0		0.50
Hardness as CaCO3	76.0		5.0
Sulfate	2.1		0.50
Total Dissolved Solids	90.0		10.0
Total Organic Carbon	10.5		1.0
Total Suspended Solids	1.6	J	2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0058	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	0.0015	J	0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	0.0011	J	0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	0.0034	J	0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QW03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.013	J	0.015
Antimony	0.00055	J	0.0030
Arsenic	ND		0.010
Barium	0.12		0.0010
Beryllium	ND		0.00050
Cadmium	0.00088		0.00030
Calcium	23.8		0.20
Chromium	0.0016	J	0.0050
Cobalt	0.0018		0.00050
Copper	0.0061		0.0020
Iron	0.44		0.10
Lead	ND		0.0010
Magnesium	3.2		0.20
Manganese	0.067		0.00020
Mercury	ND		0.00020
Molybdenum	0.020		0.0010
Nickel	0.052		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	4.0	J	5.0
Thallium	ND		0.00010
Vanadium	0.0010		0.00050
Zinc	0.031		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0097
1,2,4-Trichlorobenzene	ND		0.0097
1,2-Dichlorobenzene	ND		0.0097
1,3-Dichlorobenzene	ND		0.0097
1,3-Dinitrobenzene	ND		0.0097
1,4-Dichlorobenzene	ND		0.0097
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0097
2,2'-oxybis(1-chloropropane)	ND		0.0097
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0097
2,4,6-Trichlorophenol	ND		0.0097
2,4-Dichlorophenol	ND		0.0097
2,4-Dimethylphenol	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QW03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0097
2,6-Dichlorophenol	ND		0.0097
2,6-Dinitrotoluene	ND		0.0097
2-Chloronaphthalene	ND		0.0097
2-Chlorophenol	ND		0.0097
2-Methylnaphthalene	ND		0.0097
2-Methylphenol	ND		0.0097
2-Naphthylamine	ND		0.0097
2-Nitrophenol	ND		0.0097
2-Picoline	ND		0.019
2-Pyrrolidinone, 1-methyl-	0.075	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0097
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0097
4-Chloro-3-methylphenol	ND		0.0097
4-Chloroaniline	ND		0.0097
4-Chlorophenyl phenyl ether	ND		0.0097
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0097
Acenaphthylene	ND		0.0097
Acetophenone	ND		0.0097
Aniline	ND		0.0097
Anthracene	ND		0.0097
Azobenzene	ND		0.0097
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0097
Benzo(a)pyrene	ND		0.0097
Benzo(b)fluoranthene	ND		0.0097
Benzo(g,h,i)perylene	ND		0.0097
Benzo(k)fluoranthene	ND		0.0097
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0097
Butyl benzyl phthalate	ND		0.0097
Chrysene	ND		0.0097
Di-n-butyl phthalate	ND		0.0097
Di-n-octyl phthalate	ND		0.0097
Dibenz(a,h)anthracene	ND		0.0097
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0097
Diethyl phthalate	ND		0.0097
Dimethyl phthalate	ND		0.0097
Diphenylamine	ND		0.0097
Ethanol, 2-(diethylamino)-	0.41	J	
Ethyl methanesulfonate	ND		0.0097
Fluoranthene	ND		0.0097
Fluorene	ND		0.0097
Hexachlorobenzene	ND		0.0097
Hexachlorobutadiene	ND		0.0097
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0097
Indeno(1,2,3-cd)pyrene	ND		0.0097
Isophorone	ND		0.0097
Methyl methanesulfonate	ND		0.0097
Morpholine	0.75	J	
Morpholine, 4-methyl-	0.0091	J	
N-Nitroso-di-n-butylamine	ND		0.0097
N-Nitroso-di-n-propylamine	ND		0.0097
N-Nitrosodiphenylamine	ND		0.0097
N-Nitrosopiperidine	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QW03-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Naphthalene	ND		0.0097
Nitrobenzene	ND		0.0097
Pentachlorobenzene	ND		0.0097
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.019
Phenanthrene	ND		0.0097
Phenol	ND		0.0097
Pronamide	ND		0.019
Pyrene	ND		0.0097
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Unknown	0.0083	J	
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0097
bis(2-Chloroethyl) ether	ND		0.0097
bis(2-Ethylhexyl)phthalate	0.013	B	0.0097
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.098
4,4'-DDE	ND		0.098
4,4'-DDT	ND		0.098
Aldrin	ND		0.049
Aroclor 1016	ND		0.98
Aroclor 1221	ND		0.98
Aroclor 1232	ND		0.98
Aroclor 1242	ND		0.98
Aroclor 1248	ND		0.98
Aroclor 1254	ND		0.98
Aroclor 1260	ND		0.98
Dieldrin	ND		0.098
Endosulfan I	ND		0.049
Endosulfan II	ND		0.098
Endosulfan sulfate	ND		0.098
Endrin	ND		0.098
Endrin aldehyde	ND		0.098
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49

Matrix : SURF-H2O

Client Description	**SC-QW03-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.9
alpha-BHC	ND		0.049
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00051	J	0.0030
Barium	0.12		0.0010
Beryllium	ND		0.00050
Cadmium	0.00067		0.00030
Calcium	24.5		0.20
Chromium	0.0036	J	0.0050
Cobalt	0.0014		0.00050
Copper	0.0030		0.0020
Iron	0.10		0.10
Lead	0.00020	J	0.0010
Magnesium	3.3		0.20
Manganese	0.061		0.00020
Molybdenum	0.019		0.0010
Nickel	0.038		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	4.1	J	5.0
Thallium	ND		0.00010
Vanadium	0.00099		0.00050
Zinc	0.019		0.010

Matrix : SURF-H2O

Client Description	SC-QW05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	191		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	191		5.0
Chemical Oxygen Demand (Regular)	14.3	J	20.0
Chloride	9.2		0.50
Hardness as CaCO3	169		5.0
Sulfate	10.7		0.50
Total Dissolved Solids	242		10.0
Total Organic Carbon	5.5		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0035	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	0.0072	J	0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	0.0036	J	0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	0.0018	J	0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QW05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.0095	J	0.015
Antimony	0.00028	J	0.0030
Arsenic	ND		0.010
Barium	0.28		0.0010
Beryllium	ND		0.00050
Cadmium	0.00047		0.00030
Calcium	40.4		0.20
Chromium	0.0030	J	0.0050
Cobalt	0.00034	J	0.00050
Copper	0.0062		0.0020
Iron	0.046	J	0.10
Lead	0.00017	J	0.0010
Magnesium	16.5		0.20
Manganese	0.0028		0.00020
Mercury	ND		0.00020
Molybdenum	0.0063		0.0010
Nickel	0.014		0.00020
Potassium	1.4	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	20.7		5.0
Thallium	ND		0.00010
Vanadium	0.0059		0.00050
Zinc	0.012		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0097
1,2,4-Trichlorobenzene	ND		0.0097
1,2-Dichlorobenzene	ND		0.0097
1,3-Dichlorobenzene	ND		0.0097
1,3-Dinitrobenzene	ND		0.0097
1,4-Dichlorobenzene	ND		0.0097
1-Chloronaphthalene	ND		0.049
1-Naphthylamine	ND		0.0097
2,2'-oxybis(1-chloropropane)	ND		0.0097
2,3,4,6-Tetrachlorophenol	ND		0.049
2,4,5-Trichlorophenol	ND		0.0097
2,4,6-Trichlorophenol	ND		0.0097
2,4-Dichlorophenol	ND		0.0097
2,4-Dimethylphenol	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QW05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.049
2,4-Dinitrotoluene	ND		0.0097
2,6-Dichlorophenol	ND		0.0097
2,6-Dinitrotoluene	ND		0.0097
2-Chloronaphthalene	ND		0.0097
2-Chlorophenol	ND		0.0097
2-Methylnaphthalene	ND		0.0097
2-Methylphenol	ND		0.0097
2-Naphthylamine	ND		0.0097
2-Nitrophenol	ND		0.0097
2-Picoline	ND		0.019
2H-Indol-2-one, 1,3-dihydro-	0.0082	J	
3,3'-Dichlorobenzidine	ND		0.049
3,3'-Dimethylbenzidine	ND		0.049
3-Methylcholanthrene	ND		0.019
3-Nitroaniline	ND		0.049
3/4-Methylphenol	ND		0.0097
4,6-Dinitro-2-methylphenol	ND		0.049
4-Aminobiphenyl	ND		0.049
4-Bromophenyl phenyl ether	ND		0.0097
4-Chloro-3-methylphenol	ND		0.0097
4-Chloroaniline	ND		0.0097
4-Chlorophenyl phenyl ether	ND		0.0097
4-Morpholinepropanamine	0.018	J	
4-Nitroaniline	ND		0.049
4-Nitrophenol	ND		0.049
7,12-Dimethylbenz(a)-anthracene	ND		0.019
Acenaphthene	ND		0.0097
Acenaphthylene	ND		0.0097
Acetophenone	ND		0.0097
Aniline	ND		0.0097
Anthracene	ND		0.0097
Azobenzene	ND		0.0097
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0097
Benzo(a)pyrene	ND		0.0097
Benzo(b)fluoranthene	ND		0.0097
Benzo(g,h,i)perylene	ND		0.0097
Benzo(k)fluoranthene	ND		0.0097
Benzoic acid	ND		0.049
Benzyl alcohol	ND		0.0097
Butyl benzyl phthalate	ND		0.0097
Chrysene	ND		0.0097
Cyclooctane	0.0062	J	
Di-n-butyl phthalate	ND		0.0097
Di-n-octyl phthalate	ND		0.0097
Dibenz(a,h)anthracene	ND		0.0097
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0097
Diethyl phthalate	ND		0.0097
Dimethyl phthalate	ND		0.0097
Diphenylamine	ND		0.0097
Ethyl methanesulfonate	ND		0.0097
Fluoranthene	ND		0.0097
Fluorene	ND		0.0097
Hexachlorobenzene	ND		0.0097
Hexachlorobutadiene	ND		0.0097
Hexachlorocyclopentadiene	ND		0.049
Hexachloroethane	ND		0.0097
Indeno(1,2,3-cd)pyrene	ND		0.0097
Isophorone	ND		0.0097
Methyl methanesulfonate	ND		0.0097
Morpholine	0.0061	J	
Morpholine	0.069	J	
N-Nitroso-di-n-butylamine	ND		0.0097
N-Nitroso-di-n-propylamine	ND		0.0097
N-Nitrosodiphenylamine	ND		0.0097

Matrix : SURF-H2O

Client Description	SC-QW05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
N-Nitrosopiperidine	ND		0.0097
Naphthalene	ND		0.0097
Nitrobenzene	ND		0.0097
Pentachlorobenzene	ND		0.0097
Pentachloronitrobenzene	ND		0.049
Pentachlorophenol	ND		0.049
Phenacetin	ND		0.019
Phenanthrene	ND		0.0097
Phenol	ND		0.0097
Pronamide	ND		0.019
Propylene Glycol	0.058	J	
Pyrene	ND		0.0097
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.049
bis(2-Chloroethoxy)methane	ND		0.0097
bis(2-Chloroethyl) ether	ND		0.0097
bis(2-Ethylhexyl)phthalate	ND		0.0097
p-Dimethylaminoazobenzene	ND		0.019

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.098
4,4'-DDE	ND		0.098
4,4'-DDT	ND		0.098
Aldrin	ND		0.049
Aroclor 1016	ND		0.98
Aroclor 1221	ND		0.98
Aroclor 1232	ND		0.98
Aroclor 1242	ND		0.98
Aroclor 1248	ND		0.98
Aroclor 1254	ND		0.98
Aroclor 1260	ND		0.98
Dieldrin	ND		0.098
Endosulfan I	ND		0.049
Endosulfan II	ND		0.098
Endosulfan sulfate	ND		0.098
Endrin	ND		0.098
Endrin aldehyde	ND		0.098
Heptachlor	ND		0.049
Heptachlor epoxide	ND		0.049
Methoxychlor	ND		0.49

Matrix : SURF-H2O

Client Description	SC-QW05-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.9
alpha-BHC	ND		0.049
alpha-Chlordane	ND		0.049
beta-BHC	ND		0.049
delta-BHC	ND		0.049
gamma-BHC (Lindane)	ND		0.049
gamma-Chlordane	ND		0.049

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	ND		0.015
Antimony	0.00022	J	0.0030
Barium	0.26		0.0010
Beryllium	ND		0.00050
Cadmium	0.00068		0.00030
Calcium	41.8		0.20
Chromium	0.0071		0.0050
Cobalt	0.00011	J	0.00050
Copper	0.0053		0.0020
Iron	0.025	J	0.10
Lead	ND		0.0010
Magnesium	17.7		0.20
Manganese	0.0019		0.00020
Molybdenum	0.0056		0.0010
Nickel	0.0040		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	20.7		5.0
Thallium	ND		0.00010
Vanadium	0.0079		0.00050
Zinc	0.0081	J	0.010

Matrix : SURF-H2O

Client Description	**SC-QW06-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	182		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	182		5.0
Chemical Oxygen Demand (Regular)	24.3		20.0
Chloride	9.0		0.50
Hardness as CaCO3	156		5.0
Sulfate	10.0		0.50
Total Dissolved Solids	220		10.0
Total Organic Carbon	7.7		1.0
Total Suspended Solids	ND		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	ND		0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0034	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	0.0042	J	0.010
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	0.0021	J	0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	0.0012	J	0.0050
Methylene chloride	ND		0.0050
None Detected	ND		
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	SC-QW06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.012	J	0.015
Antimony	0.00044	J	0.0030
Arsenic	ND		0.010
Barium	0.27		0.0010
Beryllium	ND		0.00050
Cadmium	0.00052		0.00030
Calcium	38.2		0.20
Chromium	0.0028	J	0.0050
Cobalt	0.00036	J	0.00050
Copper	0.0063		0.0020
Iron	0.053	J	0.10
Lead	0.00022	J	0.0010
Magnesium	14.9		0.20
Manganese	0.0039		0.00020
Mercury	ND		0.00020
Molybdenum	0.0083		0.0010
Nickel	0.016		0.00020
Potassium	1.5	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	19.3		5.0
Thallium	ND		0.00010
Vanadium	0.0055		0.00050
Zinc	0.016		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.0099
1,2,4-Trichlorobenzene	ND		0.0099
1,2-Dichlorobenzene	ND		0.0099
1,3-Dichlorobenzene	ND		0.0099
1,3-Dinitrobenzene	ND		0.0099
1,4-Dichlorobenzene	ND		0.0099
1-Chloronaphthalene	ND		0.050
1-Hexanol, 2-ethyl-	0.0060	J	
1-Naphthylamine	ND		0.0099
1H-Indol-5-ol	0.012	J	
2,2'-oxybis(1-chloropropane)	ND		0.0099
2,3,4,6-Tetrachlorophenol	ND		0.050
2,4,5-Trichlorophenol	ND		0.0099
2,4,6-Trichlorophenol	ND		0.0099

Matrix : SURF-H2O

Client Description	SC-QW06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dichlorophenol	ND		0.0099
2,4-Dimethylphenol	ND		0.0099
2,4-Dinitrophenol	ND		0.050
2,4-Dinitrotoluene	ND		0.0099
2,6-Dichlorophenol	ND		0.0099
2,6-Dinitrotoluene	ND		0.0099
2-Chloronaphthalene	ND		0.0099
2-Chlorophenol	ND		0.0099
2-Methylnaphthalene	ND		0.0099
2-Methylphenol	ND		0.0099
2-Naphthylamine	ND		0.0099
2-Nitrophenol	ND		0.0099
2-Picoline	ND		0.020
3,3'-Dichlorobenzidine	ND		0.050
3,3'-Dimethylbenzidine	ND		0.050
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.050
3/4-Methylphenol	ND		0.0099
4,6-Dinitro-2-methylphenol	ND		0.050
4-Aminobiphenyl	ND		0.050
4-Bromophenyl phenyl ether	ND		0.0099
4-Chloro-3-methylphenol	ND		0.0099
4-Chloroaniline	ND		0.0099
4-Chlorophenyl phenyl ether	ND		0.0099
4-Nitroaniline	ND		0.050
4-Nitrophenol	ND		0.050
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.0099
Acenaphthylene	ND		0.0099
Acetophenone	ND		0.0099
Aniline	ND		0.0099
Anthracene	ND		0.0099
Azobenzene	ND		0.0099
Benzene, 1-isocyanato-2-methyl-	0.031	J	
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.0099
Benzo(a)pyrene	ND		0.0099
Benzo(b)fluoranthene	ND		0.0099
Benzo(g,h,i)perylene	ND		0.0099
Benzo(k)fluoranthene	ND		0.0099
Benzoic acid	ND		0.050
Benzyl alcohol	ND		0.0099
Butyl benzyl phthalate	ND		0.0099
Chrysene	ND		0.0099
Di-n-butyl phthalate	ND		0.0099
Di-n-octyl phthalate	ND		0.0099
Dibenz(a,h)anthracene	ND		0.0099
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.0099
Diethyl phthalate	ND		0.0099
Dimethyl phthalate	ND		0.0099
Diphenylamine	ND		0.0099
Ethyl methanesulfonate	ND		0.0099
Fluoranthene	ND		0.0099
Fluorene	ND		0.0099
Formic acid, hexyl ester	0.0097	J	
Hexachlorobenzene	ND		0.0099
Hexachlorobutadiene	ND		0.0099
Hexachlorocyclopentadiene	ND		0.050
Hexachloroethane	ND		0.0099
Indeno(1,2,3-cd)pyrene	ND		0.0099
Isophorone	ND		0.0099
Methyl methanesulfonate	ND		0.0099
Morpholine	0.0086	J	
Morpholine	0.11	J	
N-Nitroso-di-n-butylamine	ND		0.0099
N-Nitroso-di-n-propylamine	ND		0.0099

Matrix : SURF-H2O

Client Description	SC-QW06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
N-Nitrosodiphenylamine	ND		0.0099
N-Nitrosopiperidine	ND		0.0099
Naphthalene	ND		0.0099
Nitrobenzene	ND		0.0099
Pentachlorobenzene	ND		0.0099
Pentachloronitrobenzene	ND		0.050
Pentachlorophenol	ND		0.050
Phenacetin	ND		0.020
Phenanthrene	ND		0.0099
Phenol	ND		0.0099
Pronamide	ND		0.020
Propylene Glycol	0.14	J	
Pyrene	ND		0.0099
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.050
bis(2-Chloroethoxy)methane	ND		0.0099
bis(2-Chloroethyl) ether	ND		0.0099
bis(2-Ethylhexyl)phthalate	0.0016	JB	0.0099
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.097
4,4'-DDE	ND		0.097
4,4'-DDT	ND		0.097
Aldrin	ND		0.048
Aroclor 1016	ND		0.97
Aroclor 1221	ND		0.97
Aroclor 1232	ND		0.97
Aroclor 1242	ND		0.97
Aroclor 1248	ND		0.97
Aroclor 1254	ND		0.97
Aroclor 1260	ND		0.97
Dieldrin	ND		0.097
Endosulfan I	ND		0.048
Endosulfan II	ND		0.097
Endosulfan sulfate	ND		0.097
Endrin	ND		0.097
Endrin aldehyde	ND		0.097
Heptachlor	ND		0.048
Heptachlor epoxide	ND		0.048
Methoxychlor	ND		0.48

Matrix : SURF-H2O

Client Description	SC-QW06-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		4.8
alpha-BHC	ND		0.048
alpha-Chlordane	ND		0.048
beta-BHC	ND		0.048
delta-BHC	ND		0.048
gamma-BHC (Lindane)	ND		0.048
gamma-Chlordane	ND		0.048

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.0066	J	0.015
Antimony	0.00024	J	0.0030
Barium	0.24		0.0010
Beryllium	ND		0.00050
Cadmium	0.00084		0.00030
Calcium	39.7		0.20
Chromium	0.0072		0.0050
Cobalt	0.00011	J	0.00050
Copper	0.0055		0.0020
Iron	0.031	J	0.10
Lead	ND		0.0010
Magnesium	16.3		0.20
Manganese	0.0033		0.00020
Molybdenum	0.0062		0.0010
Nickel	0.0048		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	19.2		5.0
Thallium	ND		0.00010
Vanadium	0.0070		0.00050
Zinc	0.012		0.010

Matrix : SURF-H2O

Client Description	**SC-QW07-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Alkalinity, Bicarb. as CaCO3 at pH 4.5	41.9		5.0
Alkalinity, Carb. as CaCO3 at pH 8.3	ND		5.0
Alkalinity, Hydrox. as CaCO3	ND		5.0
Alkalinity, Total as CaCO3 at pH 4.5	41.9		5.0
Chemical Oxygen Demand (Regular)	9.6	J	20.0
Chloride	6.9		0.50
Hardness as CaCO3	54.7		5.0
Sulfate	7.6		0.50
Total Dissolved Solids	93.0		10.0
Total Organic Carbon	4.3		1.0
Total Suspended Solids	2.4		2.0

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0030
1,1-Dichloroethane	ND		0.0030
1,1-Dichloroethene	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,2-Dichloropropane	ND		0.0050
2-Butanone (MEK)	0.0014	J	0.010
2-Chloroethyl vinyl ether	ND		0.010
2-Hexanone	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.010
Acetone	0.0070	JB	0.010
Acrolein	ND		0.10
Acrylonitrile	ND		0.10
Benzene	ND		0.0030
Bromodichloromethane	ND		0.0050
Bromoform	ND		0.0050
Bromomethane	ND		0.010
Butanoic acid, 3-methyl-	0.013	J	
Carbon disulfide	ND		0.0030
Carbon tetrachloride	ND		0.0030
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
Dibromochloromethane	ND		0.0050
Dibromomethane	ND		0.0050
Dichlorodifluoromethane	ND		0.020
Ethanol	ND		0.50
Ethyl methacrylate	ND		0.020
Ethylbenzene	ND		0.0050
Iodomethane	ND		0.0050
Methylene chloride	ND		0.0050
Styrene	ND		0.0050
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		

Matrix : SURF-H2O

Client Description	**SC-QW07-SW-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0030
Toluene	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
Vinyl acetate	ND		0.010
Vinyl chloride	ND		0.010
Xylenes (total)	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
trans-1,4-Dichloro-2-butene	ND		0.0050

Method: Total Metals - Methods 6010/6020/7060/7470 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.040		0.015
Antimony	0.00013	J	0.0030
Arsenic	ND		0.010
Barium	0.050		0.0010
Beryllium	ND		0.00050
Cadmium	ND		0.00030
Calcium	17.7		0.20
Chromium	0.00040	J	0.0050
Cobalt	0.00017	J	0.00050
Copper	0.0041	J	0.0020
Iron	0.060	J	0.10
Lead	ND		0.0010
Magnesium	1.2		0.20
Manganese	0.0080		0.00020
Mercury	ND		0.00020
Molybdenum	0.00060	J	0.0010
Nickel	0.0075		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	5.4		5.0
Thallium	ND		0.00010
Vanadium	0.00080		0.00050
Zinc	0.036		0.010

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.010
1,2,4-Trichlorobenzene	ND		0.010
1,2-Dichlorobenzene	ND		0.010
1,3-Dichlorobenzene	ND		0.010
1,3-Dinitrobenzene	ND		0.010
1,4-Dichlorobenzene	ND		0.010
1-Chloronaphthalene	ND		0.050
1-Naphthylamine	ND		0.010
2,2'-oxybis(1-chloropropane)	ND		0.010
2,3,4,6-Tetrachlorophenol	ND		0.050
2,4,5-Trichlorophenol	ND		0.010
2,4,6-Trichlorophenol	ND		0.010
2,4-Dichlorophenol	ND		0.010
2,4-Dimethylphenol	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QW07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
2,4-Dinitrophenol	ND		0.050
2,4-Dinitrotoluene	ND		0.010
2,6-Dichlorophenol	ND		0.010
2,6-Dinitrotoluene	ND		0.010
2-Chloronaphthalene	ND		0.010
2-Chlorophenol	ND		0.010
2-Methylnaphthalene	ND		0.010
2-Methylphenol	ND		0.010
2-Naphthylamine	ND		0.010
2-Nitrophenol	ND		0.010
2-Picoline	ND		0.020
3,3'-Dichlorobenzidine	ND		0.050
3,3'-Dimethylbenzidine	ND		0.050
3-Methylcholanthrene	ND		0.020
3-Nitroaniline	ND		0.050
3/4-Methylphenol	ND		0.010
4,6-Dinitro-2-methylphenol	ND		0.050
4-Aminobiphenyl	ND		0.050
4-Bromophenyl phenyl ether	ND		0.010
4-Chloro-3-methylphenol	ND		0.010
4-Chloroaniline	ND		0.010
4-Chlorophenyl phenyl ether	ND		0.010
4-Nitroaniline	ND		0.050
4-Nitrophenol	ND		0.050
7,12-Dimethylbenz(a)-anthracene	ND		0.020
Acenaphthene	ND		0.010
Acenaphthylene	ND		0.010
Acetophenone	ND		0.010
Aniline	ND		0.010
Anthracene	ND		0.010
Azobenzene	ND		0.010
Benzidine	ND		0.17
Benzo(a)anthracene	ND		0.010
Benzo(a)pyrene	ND		0.010
Benzo(b)fluoranthene	ND		0.010
Benzo(g,h,i)perylene	ND		0.010
Benzo(k)fluoranthene	ND		0.010
Benzoic acid	ND		0.050
Benzyl alcohol	ND		0.010
Butyl benzyl phthalate	ND		0.010
Chrysene	ND		0.010
Di-n-butyl phthalate	ND		0.010
Di-n-octyl phthalate	ND		0.010
Dibenz(a,h)anthracene	ND		0.010
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.010
Diethyl phthalate	ND		0.010
Dimethyl phthalate	ND		0.010
Diphenylamine	ND		0.010
Ethyl methanesulfonate	ND		0.010
Fluoranthene	ND		0.010
Fluorene	ND		0.010
Hexachlorobenzene	ND		0.010
Hexachlorobutadiene	ND		0.010
Hexachlorocyclopentadiene	ND		0.050
Hexachloroethane	ND		0.010
Indeno(1,2,3-cd)pyrene	ND		0.010
Isophorone	ND		0.010
Methyl methanesulfonate	ND		0.010
N-Nitroso-di-n-butylamine	ND		0.010
N-Nitroso-di-n-propylamine	ND		0.010
N-Nitrosodiphenylamine	ND		0.010
N-Nitrosopiperidine	ND		0.010
Naphthalene	ND		0.010
Nitrobenzene	ND		0.010
None Detected	ND		
Pentachlorobenzene	ND		0.010

Matrix : SURF-H2O

Client Description	SC-QW07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Pentachloronitrobenzene	ND		0.050
Pentachlorophenol	ND		0.050
Phenacetin	ND		0.020
Phenanthrene	ND		0.010
Phenol	ND		0.010
Pronamide	ND		0.020
Pyrene	ND		0.010
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		0.050
bis(2-Chloroethoxy)methane	ND		0.010
bis(2-Chloroethyl) ether	ND		0.010
bis(2-Ethylhexyl)phthalate	0.010	B	0.010
p-Dimethylaminoazobenzene	ND		0.020

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.10
4,4'-DDE	ND		0.10
4,4'-DDT	ND		0.10
Aldrin	ND		0.050
Aroclor 1016	ND		1.0
Aroclor 1221	ND		1.0
Aroclor 1232	ND		1.0
Aroclor 1242	ND		1.0
Aroclor 1248	ND		1.0
Aroclor 1254	ND		1.0
Aroclor 1260	ND		1.0
Dieldrin	ND		0.10
Endosulfan I	ND		0.050
Endosulfan II	ND		0.10
Endosulfan sulfate	ND		0.10
Endrin	ND		0.10
Endrin aldehyde	ND		0.10
Heptachlor	ND		0.050
Heptachlor epoxide	ND		0.050
Methoxychlor	ND		0.50

Matrix : SURF-H2O

Client Description	SC-QW07-SW-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Method: PCBs and Pesticides - Method 8080 **Units :** ug/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Toxaphene	ND		5.0
alpha-BHC	ND		0.050
alpha-Chlordane	ND		0.050
beta-BHC	ND		0.050
delta-BHC	ND		0.050
gamma-BHC (Lindane)	ND		0.050
gamma-Chlordane	ND		0.050

Method: Dissolved Metals - Methods 6010/6020 **Units :** mg/L **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	0.11		0.015
Antimony	ND		0.0030
Barium	0.052		0.0010
Beryllium	ND		0.00050
Cadmium	ND		0.00030
Calcium	16.7		0.20
Chromium	0.0013	J	0.0050
Cobalt	ND		0.00050
Copper	0.0039		0.0020
Iron	ND		0.10
Lead	ND		0.0010
Magnesium	1.1		0.20
Manganese	0.0095		0.00020
Molybdenum	0.00046	J	0.0010
Nickel	0.00069		0.00020
Potassium	1.6	J	5.0
Selenium	ND		0.0050
Silver	ND		0.00050
Sodium	5.2		5.0
Thallium	ND		0.00010
Vanadium	0.0013		0.00050
Zinc	0.036		0.010

APPENDIX D

SEDIMENT
ANALYTICAL DATA

KEY TO ANALYTICAL QUALIFIERS

Footnote	Description
A	Aldol condensation product
B	Compound is also detected in the blank
D	Compound quantitated at a secondary dilution
E	Concentration exceeds calibration range. Value is estimated
F	Reported value estimated due to interference
G	Reporting limit(s) raised due to matrix interference
H	Surrogate not detected because of required sample dilution
I	Surrogate recovery outside of limits due to sample matrix interference
J	Result is detected below the reporting limit or is an estimated concentration
K	Identified by mass spectrum only. Quantitation based on 1:1 response with internal standard
L	These components are not separable using this method and are therefore quantitated together
M	Primary result
N	Spiked sample recovery not within limits
P	Analysis date exceeded holding time due to re-analysis for QA reasons
Q	Reporting limit raised due to high level of another analyte in the sample
R	Reporting limit(s) raised due to sample volume limitations
S	Reported value determined by Method of Standard Addition
T	Preferred values unless footnoted on secondary column test
U	Compound analyzed but not detected
V	Secondary column result is the preferred value
W	Post-digestion spike for Furnace AA out of control limits while sample absorbency is <50% of spike absorbency
X	ND=Not Detected
Y	NC=Not Calculated. Calculation not applicable.
Z	NA=Not Applicable
#	Analyte associated with sample processing/analysis in the lab. An acceptable blank must contain <5x the RL of this analyte for this method
$	Secondary ion used for quantitation
=	&Result Summary
o	Reporting limit(s) raised due to high level of analyte present in sample
p	Reporting limit raised due to dilution necessitated by initial post-digestion spike recovery of <40% due to matrix interference
q	Post-digestion spike recovery fell between 40-85% due to matrix interference
t	Post-digestion spike recovery between 115-150%
Additional Denver Lab Common Footnotes	
M	Preferred Result
1	Tentative Identification
2	Confident Identification
3	Confirmed Identification
k	This sample has GC/FID characteristics that are similar to gasoline
l	Results based on multiphase analysis and mathematical recombination
m	This sample has GC/FID characteristics that are similar to weathered gasoline
o	This test is unreliable for any sample other than a non-aqueous liquid
p	This sample has GC/FID characteristics that are similar to the water soluble fraction of gasoline
q	This sample has GC/FID characteristics for which reliable identification of a product could not be achieved
r	&RESULT SUMMARY
t	Sample diluted due to the concentration of target compounds
x	Target compound's secondary ion confirmation criteria not met, but retention time and peak shape make identification possible
z	Compound name contains more characters than the database will allow

Matrix : SEDIMENT

Client Description	**SC-QE01-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.010	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	**SC-QE01-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	7430		12.1
Antimony	ND		7.2
Arsenic	2.1		0.60
Barium	1300		1.2
Beryllium	0.53		0.24
Cadmium	ND		0.60
Calcium	27000		24.1
Chromium	36.1		1.2
Cobalt	6.2		1.2
Copper	12.5		2.4
Iron	11500		12.1
Lead	13.3		6.0
Magnesium	2780		24.1
Manganese	353		1.2
Mercury	0.10		0.040
Molybdenum	ND		2.4
Nickel	24.3		4.8
Potassium	870		603
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		603
Thallium	62.7	J	241
Vanadium	15.9		1.2
Zinc	38.8		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.40
11H-Benzo[a]fluorene	0.47	J	
11H-Benzo[b]fluorene	0.34	J	
1H-Pyrazole, 4-nitro-	0.45	J	
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	0.075	J	0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	17	JBA	
2-Picoline	ND		0.80
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.80
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40

Matrix : SEDIMENT

Client Description	SC-QE01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		1.9
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.80
Acenaphthene	0.77		0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	1.5		0.40
Anthracene, 2-methyl-	0.18	J	
Anthracene, 2-methyl-	0.19	J	
Azobenzene	ND		0.40
Benzene, 1,1'-ethylidenebis[3,4-dimethyl-	0.70	J	
Benzidine	ND		6.8
Benzo(a)anthracene	1.9		0.40
Benzo(a)pyrene	1.5		0.40
Benzo(b)fluoranthene	1.2		0.40
Benzo(c)phenanthrene	0.20	J	
Benzo(c)phenanthrene	0.36	J	
Benzo(e)pyrene	0.86	J	
Benzo(g,h,i)perylene	0.83		0.40
Benzo(j)fluoranthene	0.33	J	
Benzo(j)fluoranthene	0.57	J	
Benzo(k)fluoranthene	1.4		0.40
Benzo[ghi]fluoranthene	0.25	J	
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Caprolactam	0.25	J	
Carbazole	0.44	J	
Chrysene	2.0		0.40
Decane, 2-methyl-	0.29	J	
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	0.31	J	0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.39	J	0.40
Dibenzothiophene	0.32	J	
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Dodecane, 2,6,11-trimethyl-	0.18	J	
Dodecane, 2,6,11-trimethyl-	0.27	J	
Ethyl methanesulfonate	ND		0.40
Fluoranthene	5.4		0.40
Fluorene	0.72		0.40
Formamide, N'-(m-acetylphenyl)-N,N-dimethyl-	0.56	J	
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.40
Hexadecane	0.17	J	
Hexadecane, 2,6,11,15-tetramethyl-	0.20	J	
Indeno(1,2,3-cd)pyrene	0.85		0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	0.19	J	0.40
Naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-!	1.9	Jz	
Nitrobenzene	ND		0.40
Oxygenated Hydrocarbon	0.34	J	
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		1.9

Matrix : SEDIMENT

Client Description	SC-QE01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorophenol	ND		1.9
Pentadecane	0.25	J	
Phenacetin	ND		0.80
Phenanthrene	5.4		0.40
Phenol	ND		0.40
Polynuclear Aromatic Hydrocarbon	0.44	J	
Pronamide	ND		0.80
Pyrene	4.0		0.40
TID Compound 29	ND		
TID Compound 30	ND		
Tridecane	0.17	J	
Tridecane, 6-propyl-	0.38	J	
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	0.29	J	0.40
p-Dimethylaminoazobenzene	ND		0.80

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0040
4,4'-DDE	ND		0.0040
4,4'-DDT	ND		0.0040
Aldrin	ND		0.0020
Aroclor 1016	ND		0.040
Aroclor 1221	ND		0.040
Aroclor 1232	ND		0.040
Aroclor 1242	ND		0.040
Aroclor 1248	ND		0.040
Aroclor 1254	ND		0.040
Aroclor 1260	ND		0.040
Dieldrin	ND		0.0040
Endosulfan I	ND		0.0020
Endosulfan II	ND		0.0040
Endosulfan sulfate	ND		0.0040
Endrin	ND		0.0040
Endrin aldehyde	ND		0.0040
Heptachlor	ND		0.0020
Heptachlor epoxide	ND		0.0020
Methoxychlor	ND		0.020
Toxaphene	ND		0.20
alpha-BHC	ND		0.0020
alpha-Chlordane	ND		0.0020
beta-BHC	ND		0.0020
delta-BHC	ND		0.0020
gamma-BHC (Lindane)	ND		0.0020
gamma-Chlordane	ND		0.0020

Matrix : SEDIMENT

Client Description	**SC-QE02-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0059
1,1,1-Trichloroethane	ND		0.0059
1,1,2,2-Tetrachloroethane	0.0027	J	0.0059
1,1,2-Trichloroethane	ND		0.0059
1,1-Dichloroethane	ND		0.0059
1,1-Dichloroethene	ND		0.0059
1,2,3-Trichloropropane	ND		0.0059
1,2-Dichlorobenzene	0.0075	J	
1,2-Dichloroethane	ND		0.0059
1,2-Dichloropropane	ND		0.0059
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.0062	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0059
Bromodichloromethane	ND		0.0059
Bromoform	ND		0.0059
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0059
Carbon tetrachloride	ND		0.0059
Chlorobenzene	ND		0.0059
Chloroethane	ND		0.012
Chloroform	ND		0.0059
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0059
Dibromomethane	ND		0.0059
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.59
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0059
Iodomethane	ND		0.0059
Methylene chloride	0.0015	JB	0.0059
Nonane, 3-methyl-	0.011	J	
Siloxane	0.027	J	
Styrene	0.0019	J	0.0059
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0059
Toluene	ND		0.0059
Trichloroethene	ND		0.0059
Trichlorofluoromethane	ND		0.0059
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0059
cis-1,3-Dichloropropene	ND		0.0059
trans-1,2-Dichloroethene	ND		0.0059
trans-1,3-Dichloropropene	ND		0.0059
trans-1,4-Dichloro-2-butene	ND		0.0059

Matrix : SEDIMENT

Client Description	SC-QE02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	750		11.8
Antimony	ND		7.1
Arsenic	3.1		0.59
Barium	388		1.2
Beryllium	ND		0.24
Cadmium	2.3		0.59
Calcium	93300		23.7
Chromium	108		1.2
Cobalt	9.4		1.2
Copper	101		2.4
Iron	13300		11.8
Lead	349		5.9
Magnesium	4410		23.7
Manganese	356		1.2
Mercury	0.24		0.039
Molybdenum	12.3		2.4
Nickel	166		4.7
Potassium	133	J	592
Selenium	ND		1.2
Silver	2.9		1.2
Sodium	ND		592
Thallium	ND		237
Vanadium	18.6		1.2
Zinc	89.2		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,2-Dichlorobenzene	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
1-Chloronaphthalene	ND		9.5
1-Naphthylamine	ND		2.0
1H-Indene, 5-butyl-6-hexyloctahydro-	5.0	J	
2,2'-oxybis(1-chloropropane)	ND		2.0
2,3,4,6-Tetrachlorophenol	ND		9.5
2,4,5-Trichlorophenol	ND		2.0
2,4,6-Trichlorophenol	ND		2.0
2,4-Dichlorophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
2,4-Dinitrophenol	ND		9.5
2,4-Dinitrotoluene	ND		2.0
2,6-Dichlorophenol	ND		2.0
2,6-Dinitrotoluene	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Chlorophenol	ND		2.0
2-Dodecen-1-yl(-)succinic anhydride	1.8	J	
2-Methylnaphthalene	ND		2.0
2-Methylphenol	ND		2.0
2-Naphthylamine	ND		2.0
2-Nitrophenol	ND		2.0
2-Pentanone, 4-hydroxy-4-methyl-	30	JBA	
2-Picoline	ND		3.9
3,3'-Dichlorobenzidine	ND		9.5
3,3'-Dimethylbenzidine	ND		9.5
3-Methylcholanthrene	ND		3.9
3-Nitroaniline	ND		9.5
3/4-Methylphenol	ND		2.0
4,6-Dinitro-2-methylphenol	ND		9.5
4-Aminobiphenyl	ND		9.5
4-Bromophenyl phenyl ether	ND		2.0
4-Chloro-3-methylphenol	ND		2.0
4-Chloroaniline	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Chlorophenyl phenyl ether	ND		2.0
4-Hexenoic acid, 3-methyl-2,6-dioxo-	0.79	J	
4-Nitroaniline	ND		9.5
4-Nitrophenol	ND		9.5
7,12-Dimethylbenz(a)-anthracene	ND		3.9
Acenaphthene	ND		2.0
Acenaphthylene	ND		2.0
Acetophenone	ND		2.0
Aniline	ND		2.0
Anthracene	0.26	J	2.0
Azobenzene	ND		2.0
Benzidine	ND		33
Benzo(a)anthracene	0.83	J	2.0
Benzo(a)pyrene	0.87	J	2.0
Benzo(b)fluoranthene	0.99	J	2.0
Benzo(g,h,i)perylene	0.55	J	2.0
Benzo(k)fluoranthene	0.76	J	2.0
Benzoic acid	ND		9.5
Benzyl alcohol	ND		2.0
Butyl benzyl phthalate	ND		2.0
Chrysene	1.1	J	2.0
Cyclohexane, 1,3-dimethyl-, cis-	0.90	JB	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.79	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	1.3	Jz	
Di-n-butyl phthalate	ND		2.0
Di-n-octyl phthalate	ND		2.0
Dibenz(a,h)anthracene	ND		2.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.0
Diethyl phthalate	ND		2.0
Dimethyl phthalate	ND		2.0
Diphenylamine	ND		2.0
Ethyl methanesulfonate	ND		2.0
Fluoranthene	2.7		2.0
Fluorene	ND		2.0
Hexachlorobenzene	ND		2.0
Hexachlorobutadiene	ND		2.0
Hexachlorocyclopentadiene	ND		9.5
Hexachloroethane	ND		2.0
Indeno(1,2,3-cd)pyrene	0.50	J	2.0
Isophorone	ND		2.0
Methyl methanesulfonate	ND		2.0
N-Nitroso-di-n-butylamine	ND		2.0
N-Nitroso-di-n-propylamine	ND		2.0
N-Nitrosodiphenylamine	ND		2.0
N-Nitrosopiperidine	ND		2.0
Naphthalene	ND		2.0
Nitrobenzene	ND		2.0
Oxygenated Hydrocarbon	17	J	
Pentachlorobenzene	ND		2.0
Pentachloronitrobenzene	ND		9.5
Pentachlorophenol	ND		9.5
Phenacetin	ND		3.9
Phenanthrene	0.84	J	2.0
Phenol	ND		2.0
Pronamide	ND		3.9
Pyrene	2.1		2.0
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		

Matrix : SEDIMENT

Client Description	SC-QE02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.2	Jz	
a,a-Dimethylphenethyl-amine	ND		9.5
bis(2-Chloroethoxy)methane	ND		2.0
bis(2-Chloroethyl) ether	ND		2.0
bis(2-Ethylhexyl)phthalate	2.6		2.0
p-Dimethylaminoazobenzene	ND		3.9

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.20
4,4'-DDE	ND		0.20
4,4'-DDT	ND		0.20
Aldrin	ND		0.10
Aroclor 1016	ND		2.0
Aroclor 1221	ND		2.0
Aroclor 1232	ND		2.0
Aroclor 1242	ND		2.0
Aroclor 1248	ND		2.0
Aroclor 1254	10		2.0
Aroclor 1260	ND		2.0
Dieldrin	ND		0.20
Endosulfan I	ND		0.10
Endosulfan II	ND		0.20
Endosulfan sulfate	ND		0.20
Endrin	ND		0.20
Endrin aldehyde	ND		0.20
Heptachlor	ND		0.10
Heptachlor epoxide	ND		0.10
Methoxychlor	ND		1.0
Toxaphene	ND		10
alpha-BHC	ND		0.10
alpha-Chlordane	ND		0.10
beta-BHC	ND		0.10
delta-BHC	ND		0.10
gamma-BHC (Lindane)	ND		0.10
gamma-Chlordane	ND		0.10

Matrix : SEDIMENT

Client Description	SC-QE02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichlorobenzene	0.088	J	
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	0.0034	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.017	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	0.0018	J	0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	0.0074		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Cyclohexane, 1,2,3-trimethyl-,(1.alpha.,2.beta!	0.0063	Jz	
Cyclohexane, 2-ethyl-1,3-dimethyl-	0.011	J	
Cyclopropane, 1-(2-methylbutyl)-1-methylpropyl)-	0.033	J	
Cyclopropane, 1-methyl-2-pentyl-	0.014	J	
Decane, 2,6,6-trimethyl-	0.011	J	
Decane, 3-methyl-	0.048	J	
Decane, 4-methyl-	0.14	J	
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	0.0025	J	0.0060
Heptane, 3-ethyl-2-methyl-	0.024	J	
Iodomethane	ND		0.0060
Methylene chloride	0.0016	JB	0.0060
Octane, 2,6-dimethyl-	0.017	J	
Octane, 6-ethyl-2-methyl-	0.038	J	
Siloxane	0.038	J	
Styrene	0.0031	J	0.0060
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Unknown	0.019	J	
Unknown	0.022	J	
Unknown	0.074	J	
Vinyl acetate	ND		0.012
Vinyl chloride	0.0013	J	0.012
Xylenes (total)	0.0018	J	0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	SC-QE02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1320		24.1
Antimony	ND		14.5
Arsenic	2.5		0.60
Barium	168		2.4
Beryllium	ND		0.48
Cadmium	ND		1.2
Calcium	121000		48.2
Chromium	139		2.4
Cobalt	21.1		2.4
Copper	109		4.8
Iron	7850		24.1
Lead	221		12.0
Magnesium	6120		48.2
Manganese	310		2.4
Mercury	0.34		0.040
Molybdenum	28.2		4.8
Nickel	319		9.6
Potassium	193	J	1200
Selenium	ND		1.2
Silver	ND		2.4
Sodium	ND		1200
Thallium	126	J	482
Vanadium	10.1		2.4
Zinc	65.6		4.8

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,2-Dichlorobenzene	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
1-Chloronaphthalene	ND		9.6
1-Eicosanol	1.2	J	
1-Naphthylamine	ND		2.0
2,2'-oxybis(1-chloropropane)	ND		2.0
2,3,4,6-Tetrachlorophenol	ND		9.6
2,4,5-Trichlorophenol	ND		2.0
2,4,6-Trichlorophenol	ND		2.0
2,4-Dichlorophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
2,4-Dinitrophenol	ND		9.6
2,4-Dinitrotoluene	ND		2.0
2,6-Dichlorophenol	ND		2.0
2,6-Dinitrotoluene	ND		2.0
2-Butanone, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)	1.1	Jz	
2-Chloronaphthalene	ND		2.0
2-Chlorophenol	ND		2.0
2-Dodecen-1-yl(-)succinic anhydride	1.1	J	
2-Dodecen-1-yl(-)succinic anhydride	2.3	J	
2-Methylnaphthalene	ND		2.0
2-Methylphenol	ND		2.0
2-Naphthylamine	ND		2.0
2-Nitrophenol	ND		2.0
2-Pentanone, 4-hydroxy-4-methyl-	33	JBA	
2-Picoline	ND		4.0
3,3'-Dichlorobenzidine	ND		9.6
3,3'-Dimethylbenzidine	ND		9.6
3-Methylcholanthrene	ND		4.0
3-Nitroaniline	ND		9.6
3/4-Methylphenol	ND		2.0
4,6-Dinitro-2-methylphenol	ND		9.6
4-Aminobiphenyl	ND		9.6
4-Bromophenyl phenyl ether	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		2.0
4-Chloroaniline	ND		2.0
4-Chlorophenyl phenyl ether	ND		2.0
4-Nitroaniline	ND		9.6
4-Nitrophenol	ND		9.6
7,12-Dimethylbenz(a)-anthracene	ND		4.0
Acenaphthene	0.43	J	2.0
Acenaphthylene	ND		2.0
Acetophenone	ND		2.0
Aniline	ND		2.0
Anthracene	0.81	J	2.0
Azobenzene	ND		2.0
Benzidine	ND		34
Benzo(a)anthracene	1.6	J	2.0
Benzo(a)pyrene	1.6	J	2.0
Benzo(b)fluoranthene	1.8	J	2.0
Benzo(g,h,i)perylene	0.90	J	2.0
Benzo(k)fluoranthene	1.1	J	2.0
Benzoic acid	ND		9.6
Benzyl alcohol	ND		2.0
Butyl benzyl phthalate	ND		2.0
Chrysene	1.9	J	2.0
Cyclohexane, 1,3-dimethyl-, cis-	1.2	JB	
Di-n-butyl phthalate	ND		2.0
Di-n-octyl phthalate	ND		2.0
Dibenz(a,h)anthracene	0.27	J	2.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.24	J	2.0
Diethyl phthalate	ND		2.0
Dimethyl phthalate	ND		2.0
Diphenylamine	ND		2.0
Dodecane	0.89	J	
Ethyl methanesulfonate	ND		2.0
Fluoranthene	5.5		2.0
Fluorene	0.47	J	2.0
Hexachlorobenzene	ND		2.0
Hexachlorobutadiene	ND		2.0
Hexachlorocyclopentadiene	ND		9.6
Hexachloroethane	ND		2.0
Hexadecane	1.3	J	
Indeno(1,2,3-cd)pyrene	0.79	J	2.0
Isophorone	ND		2.0
Methyl methanesulfonate	ND		2.0
N-Nitroso-di-n-butylamine	ND		2.0
N-Nitroso-di-n-propylamine	ND		2.0
N-Nitrosodiphenylamine	ND		2.0
N-Nitrosopiperidine	ND		2.0
Naphthalene	ND		2.0
Nitrobenzene	ND		2.0
Oxygenated Hydrocarbon	1.1	J	
Pentachlorobenzene	ND		2.0
Pentachloronitrobenzene	ND		9.6
Pentachlorophenol	ND		9.6
Phenacetin	ND		4.0
Phenanthrene	2.3		2.0
Phenol	ND		2.0
Polynuclear Aromatic Hydrocarbon	0.91	J	
Polynuclear Aromatic Hydrocarbon	1.4	J	
Pronamide	ND		4.0
Pyrene	3.8		2.0
Siloxane	1.8	J	
Siloxane	14	J	
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		

Matrix : SEDIMENT

Client Description	SC-QE02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 29	ND		
TID Compound 30	ND		
Triacontane	0.98	J	
Tridecane, 2-methyl-	1.3	J	
Undecane, 2,6-dimethyl-	1.2	J	
Undecane, 3,6-dimethyl-	0.84	J	
Undecane, 3,8-dimethyl-	0.89	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.83	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.1	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.9	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.0	Jz	
a,a-Dimethylphenethyl-amine	ND		9.6
bis(2-Chloroethoxy)methane	ND		2.0
bis(2-Chloroethyl) ether	ND		2.0
bis(2-Ethylhexyl)phthalate	4.4		2.0
p-Dimethylaminoazobenzene	ND		4.0

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.40
4,4'-DDE	ND		0.40
4,4'-DDT	ND		0.40
Aldrin	ND		0.20
Aroclor 1016	ND		4.0
Aroclor 1221	ND		4.0
Aroclor 1232	ND		4.0
Aroclor 1242	ND		4.0
Aroclor 1248	ND		4.0
Aroclor 1254	14		4.0
Aroclor 1260	ND		4.0
Dieldrin	ND		0.40
Endosulfan I	ND		0.20
Endosulfan II	ND		0.40
Endosulfan sulfate	ND		0.40
Endrin	ND		0.40
Endrin aldehyde	ND		0.40
Heptachlor	ND		0.20
Heptachlor epoxide	ND		0.20
Methoxychlor	ND		2.0
Toxaphene	ND		20
alpha-BHC	ND		0.20
alpha-Chlordane	ND		0.20
beta-BHC	ND		0.20
delta-BHC	ND		0.20
gamma-BHC (Lindane)	ND		0.20
gamma-Chlordane	ND		0.20

Matrix : SEDIMENT

Client Description	SC-QE03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0090
1,1,1-Trichloroethane	ND		0.0090
1,1,2,2-Tetrachloroethane	ND		0.0090
1,1,2-Trichloroethane	ND		0.0090
1,1-Dichloroethane	ND		0.0090
1,1-Dichloroethene	ND		0.0090
1,2,3-Trichloropropane	ND		0.0090
1,2-Dichloroethane	ND		0.0090
1,2-Dichloropropane	ND		0.0090
2-Butanone (MEK)	0.0074	J	0.018
2-Chloroethyl vinyl ether	ND		0.018
2-Hexanone	ND		0.018
4-Methyl-2-pentanone (MIBK)	ND		0.018
Acetone	0.034	JB	0.018
Acrolein	ND		0.18
Acrylonitrile	ND		0.18
Benzene	ND		0.0090
Bromodichloromethane	ND		0.0090
Bromoform	ND		0.0090
Bromomethane	ND		0.018
Carbon disulfide	0.0019	J	0.0090
Carbon tetrachloride	ND		0.0090
Chlorobenzene	ND		0.0090
Chloroethane	ND		0.018
Chloroform	ND		0.0090
Chloromethane	0.0038	J	0.018
Dibromochloromethane	ND		0.0090
Dibromomethane	ND		0.0090
Dichlorodifluoromethane	ND		0.036
Ethanol	ND		0.90
Ethyl methacrylate	ND		0.036
Ethylbenzene	0.0081	J	0.0090
Iodomethane	ND		0.0090
Methylene chloride	0.0019	JB	0.0090
Siloxane	0.0098	J	
Siloxane	0.010	J	
Styrene	0.012		0.0090
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0090
Toluene	ND		0.0090
Trichloroethene	ND		0.0090
Trichlorofluoromethane	ND		0.0090
Vinyl acetate	ND		0.018
Vinyl chloride	ND		0.018
Xylenes (total)	ND		0.0090
cis-1,3-Dichloropropene	ND		0.0090
trans-1,2-Dichloroethene	ND		0.0090
trans-1,3-Dichloropropene	ND		0.0090
trans-1,4-Dichloro-2-butene	ND		0.0090

Matrix : SEDIMENT

Client Description	SC-QE03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	2770		18.0
Antimony	ND		10.8
Arsenic	15.7		1.8
Barium	1200		1.8
Beryllium	ND		0.36
Cadmium	13.3		0.90
Calcium	22200		36.0
Chromium	2800		1.8
Cobalt	48.1		1.8
Copper	576		3.6
Iron	7370		18.0
Lead	528		9.0
Magnesium	3550		36.0
Manganese	143		1.8
Mercury	3.7		0.85
Molybdenum	41.8		3.6
Nickel	79.0		7.2
Potassium	350	J	899
Selenium	7.5		0.90
Silver	2.0		1.8
Sodium	ND		899
Thallium	72.6	J	360
Vanadium	82.9		1.8
Zinc	463		3.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		3.0
1,2,4-Trichlorobenzene	ND		3.0
1,2-Dichlorobenzene	ND		3.0
1,3-Dichlorobenzene	ND		3.0
1,4-Dichlorobenzene	ND		3.0
1-Chloronaphthalene	ND		14
1-Naphthylamine	ND		3.0
1H-Indene, 2-butyl-5-hexyloctahydro-	3.1	J	
1H-Indene, 2-butyl-5-hexyloctahydro-	3.8	J	
2,2'-oxybis(1-chloropropane)	ND		3.0
2,3,4,6-Tetrachlorophenol	ND		14
2,4,5-Trichlorophenol	ND		3.0
2,4,6-Trichlorophenol	ND		3.0
2,4-Dichlorophenol	ND		3.0
2,4-Dimethylphenol	ND		3.0
2,4-Dinitrophenol	ND		14
2,4-Dinitrotoluene	ND		3.0
2,6-Dichlorophenol	ND		3.0
2,6-Dinitrotoluene	ND		3.0
2-Chloronaphthalene	ND		3.0
2-Chlorophenol	ND		3.0
2-Dodecen-1-yl(-)succinic anhydride	2.7	J	
2-Dodecen-1-yl(-)succinic anhydride	2.9	J	
2-Methylnaphthalene	ND		3.0
2-Methylphenol	ND		3.0
2-Naphthylamine	ND		3.0
2-Nitrophenol	ND		3.0
2-Pentanone, 4-hydroxy-4-methyl-	46	JBA	
2-Picoline	ND		5.9
28-Nor-17.beta.(H)-hopane	9.3	J	
2H-Indol-2-one, 1,3-dihydro-	3.4	J	
3,3'-Dichlorobenzidine	ND		14
3,3'-Dimethylbenzidine	ND		14
3-Methylcholanthrene	ND		5.9
3-Nitroaniline	ND		14
3/4-Methylphenol	ND		3.0
4,6-Dinitro-2-methylphenol	ND		14

Matrix : SEDIMENT

Client Description	SC-QE03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Aminobiphenyl	ND		14
4-Bromophenyl phenyl ether	ND		3.0
4-Chloro-3-methylphenol	ND		3.0
4-Chloroaniline	ND		3.0
4-Chlorophenyl phenyl ether	ND		3.0
4-Nitroaniline	ND		14
4-Nitrophenol	ND		14
7,12-Dimethylbenz(a)-anthracene	ND		5.9
Acenaphthene	1.4	J	3.0
Acenaphthylene	ND		3.0
Acetophenone	ND		3.0
Aniline	ND		3.0
Anthracene	1.6	J	3.0
Azobenzene	ND		3.0
Benzidine	ND		50
Benzo(a)anthracene	6.2		3.0
Benzo(a)pyrene	7.0		3.0
Benzo(b)fluoranthene	8.3		3.0
Benzo(g,h,i)perylene	3.9		3.0
Benzo(j)fluoranthene	8.8	J	
Benzo(k)fluoranthene	5.1		3.0
Benzoic acid	ND		14
Benzyl alcohol	ND		3.0
Butyl benzyl phthalate	ND		3.0
Cholest-23-ene, (5.beta.)-	3.7	J	
Chrysene	8.9		3.0
Di-n-butyl phthalate	ND		3.0
Di-n-octyl phthalate	ND		3.0
Dibenz(a,h)anthracene	1.3	J	3.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.87	J	3.0
Diethyl phthalate	ND		3.0
Dimethyl phthalate	ND		3.0
Diphenylamine	ND		3.0
Ethyl methanesulfonate	ND		3.0
Fluoranthene	25		3.0
Fluorene	1.1	J	3.0
Hexachlorobenzene	ND		3.0
Hexachlorobutadiene	ND		3.0
Hexachlorocyclopentadiene	ND		14
Hexachloroethane	ND		3.0
Indeno(1,2,3-cd)pyrene	4.0		3.0
Isophorone	ND		3.0
Methyl methanesulfonate	ND		3.0
N-Nitroso-di-n-butylamine	ND		3.0
N-Nitroso-di-n-propylamine	ND		3.0
N-Nitrosodiphenylamine	ND		3.0
N-Nitrosopiperidine	ND		3.0
Naphthalene	1.4	J	3.0
Nitrobenzene	ND		3.0
Nitrogen Compound	2.3	J	
Octadecane	6.6	J	
Oxygenated Hydrocarbon	1.8	J	
Oxygenated Hydrocarbon	2.9	J	
Oxygenated Hydrocarbon	3.2	J	
Oxygenated Hydrocarbon	4.9	J	
Oxygenated Hydrocarbon	6.6	J	
Pentachlorobenzene	ND		3.0
Pentachloronitrobenzene	ND		14
Pentachlorophenol	ND		14
Phenacetin	ND		5.9
Phenanthrene	18		3.0
Phenol	ND		3.0
Polynuclear Aromatic Hydrocarbon	2.5	J	
Pronamide	ND		5.9
Pyrene	17		3.0
Squalene	2.3	J	

Matrix : SEDIMENT

Client Description	SC-QE03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Squalene	4.5	J	
Squalene	5.8	J	
Stannane, chlorotris(2-methylpropyl)-	4.9	J	
TID Compound 30	ND		
Tricyclo[4.3.0.07,9]nonane, 2,2,5,5,8,8-hexamet!	7.0	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.0	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.2	Jz	
a,a-Dimethylphenethyl-amine	ND		14
bis(2-Chloroethoxy)methane	ND		3.0
bis(2-Chloroethyl) ether	ND		3.0
bis(2-Ethylhexyl)phthalate	1.6	J	3.0
d-Homoandrostane, (5.alpha.,13.alpha.)-	1.9	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	2.0	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	3.3	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	4.0	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	5.9	J	
p-Dimethylaminoazobenzene	ND		5.9

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.059
4,4'-DDE	ND		0.059
4,4'-DDT	ND		0.059
Aldrin	ND		0.031
Aroclor 1016	ND		0.59
Aroclor 1221	ND		0.59
Aroclor 1232	ND		0.59
Aroclor 1242	ND		0.59
Aroclor 1248	ND		0.59
Aroclor 1254	1.7		0.59
Aroclor 1260	ND		0.59
Dieldrin	ND		0.059
Endosulfan I	ND		0.031
Endosulfan II	ND		0.059
Endosulfan sulfate	ND		0.059
Endrin	ND		0.059
Endrin aldehyde	ND		0.059
Heptachlor	ND		0.031
Heptachlor epoxide	ND		0.031
Methoxychlor	ND		0.31
Toxaphene	ND		3.1
alpha-BHC	ND		0.031
alpha-Chlordane	ND		0.031
beta-BHC	ND		0.031
delta-BHC	ND		0.031
gamma-BHC (Lindane)	ND		0.031
gamma-Chlordane	ND		0.031

Matrix : SEDIMENT

Client Description	SC-QE04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0061
1,1,1-Trichloroethane	ND		0.0061
1,1,2,2-Tetrachloroethane	ND		0.0061
1,1,2-Trichloroethane	ND		0.0061
1,1-Dichloroethane	ND		0.0061
1,1-Dichloroethene	ND		0.0061
1,2,3-Trichloropropane	ND		0.0061
1,2-Dichloroethane	ND		0.0061
1,2-Dichloropropane	ND		0.0061
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.012	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0061
Bromodichloromethane	ND		0.0061
Bromoform	ND		0.0061
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0061
Carbon tetrachloride	ND		0.0061
Chlorobenzene	ND		0.0061
Chloroethane	ND		0.012
Chloroform	ND		0.0061
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0061
Dibromomethane	ND		0.0061
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.61
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0061
Iodomethane	ND		0.0061
Methylene chloride	ND		0.0061
Naphthalene	0.016	J	
Styrene	ND		0.0061
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0061
Toluene	ND		0.0061
Trichloroethene	ND		0.0061
Trichlorofluoromethane	ND		0.0061
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0061
cis-1,3-Dichloropropene	ND		0.0061
trans-1,2-Dichloroethene	ND		0.0061
trans-1,3-Dichloropropene	ND		0.0061
trans-1,4-Dichloro-2-butene	ND		0.0061

Matrix : SEDIMENT

Client Description	SC-QE04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	5600		12.2
Antimony	ND		7.3
Arsenic	2.9		0.61
Barium	830		1.2
Beryllium	0.45		0.24
Cadmium	ND		0.61
Calcium	13600		24.4
Chromium	99.7		1.2
Cobalt	6.9		1.2
Copper	9.2		2.4
Iron	10600		12.2
Lead	20.5		6.1
Magnesium	1980		24.4
Manganese	338		1.2
Mercury	0.25		0.040
Molybdenum	ND		2.4
Nickel	9.7		4.9
Potassium	607	J	609
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		609
Thallium	39.3	J	244
Vanadium	19.0		1.2
Zinc	31.0		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		2.0
1-Naphthylamine	ND		0.40
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	0.050	J	0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	17	JBA	
2-Picoline	ND		0.80
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.80
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		2.0

Matrix : SEDIMENT

Client Description	**SC-QE04-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		2.0
4H-Cyclopenta[def]phenanthrene	0.22	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.80
9,10-Anthracenedione	0.17	J	
Acenaphthene	0.15	J	0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	0.14	J	0.40
Azobenzene	ND		0.40
Benzidine	ND		6.8
Benzo(a)anthracene	0.52		0.40
Benzo(a)pyrene	0.47		0.40
Benzo(b)fluoranthene	0.49		0.40
Benzo(g,h,i)perylene	0.32	J	0.40
Benzo(k)fluoranthene	0.47		0.40
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Carbazole	0.22	J	
Chrysene	0.73		0.40
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	0.12	J	0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.13	J	0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Ethyl methanesulfonate	ND		0.40
Fluoranthene	1.9		0.40
Fluorene	0.14	J	0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.40
Indeno(1,2,3-cd)pyrene	0.30	J	0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	0.26	J	0.40
Nitrobenzene	ND		0.40
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Perylene	0.33	J	
Phenacetin	ND		0.80
Phenanthrene	1.8		0.40
Phenol	ND		0.40
Pronamide	ND		0.80
Pyrene	1.6		0.40
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QE04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	ND		0.40
p-Dimethylaminoazobenzene	ND		0.80

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0040
4,4'-DDE	ND		0.0040
4,4'-DDT	ND		0.0040
Aldrin	ND		0.0021
Aroclor 1016	ND		0.040
Aroclor 1221	ND		0.040
Aroclor 1232	ND		0.040
Aroclor 1242	ND		0.040
Aroclor 1248	ND		0.040
Aroclor 1254	ND		0.040
Aroclor 1260	ND		0.040
Dieldrin	ND		0.0040
Endosulfan I	ND		0.0021
Endosulfan II	ND		0.0040
Endosulfan sulfate	ND		0.0040
Endrin	ND		0.0040
Endrin aldehyde	ND		0.0040
Heptachlor	ND		0.0021
Heptachlor epoxide	ND		0.0021
Methoxychlor	ND		0.021
Toxaphene	ND		0.21
alpha-BHC	ND		0.0021
alpha-Chlordane	ND		0.0021
beta-BHC	ND		0.0021
delta-BHC	ND		0.0021
gamma-BHC (Lindane)	ND		0.0021
gamma-Chlordane	ND		0.0021

Matrix : SEDIMENT

Client Description	SC-QE05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0061
1,1,1-Trichloroethane	ND		0.0061
1,1,2,2-Tetrachloroethane	ND		0.0061
1,1,2-Trichloroethane	ND		0.0061
1,1-Dichloroethane	ND		0.0061
1,1-Dichloroethene	ND		0.0061
1,2,3-Trichloropropane	ND		0.0061
1,2-Dichloroethane	ND		0.0061
1,2-Dichloropropane	ND		0.0061
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.0080	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0061
Bromodichloromethane	ND		0.0061
Bromoform	ND		0.0061
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0061
Carbon tetrachloride	ND		0.0061
Chlorobenzene	ND		0.0061
Chloroethane	ND		0.012
Chloroform	ND		0.0061
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0061
Dibromomethane	ND		0.0061
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.61
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0061
Iodomethane	ND		0.0061
Methylene chloride	ND		0.0061
None Detected	ND		
Styrene	ND		0.0061
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0061
Toluene	ND		0.0061
Trichloroethene	ND		0.0061
Trichlorofluoromethane	ND		0.0061
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0061
cis-1,3-Dichloropropene	ND		0.0061
trans-1,2-Dichloroethene	ND		0.0061
trans-1,3-Dichloropropene	ND		0.0061
trans-1,4-Dichloro-2-butene	ND		0.0061

Matrix : SEDIMENT

Client Description	SC-QE05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	7630		12.2
Antimony	ND		7.3
Arsenic	5.5		1.2
Barium	683		1.2
Beryllium	0.60		0.24
Cadmium	ND		0.61
Calcium	6450		24.4
Chromium	19.5		1.2
Cobalt	5.0		1.2
Copper	8.3		2.4
Iron	13600		12.2
Lead	12.2		6.1
Magnesium	1690		24.4
Manganese	481		1.2
Mercury	0.047		0.040
Molybdenum	ND		2.4
Nickel	12.3		4.9
Potassium	849		610
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		610
Thallium	ND		244
Vanadium	18.9		1.2
Zinc	31.3		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
(2-Methylbutyl)cyclohexane	0.17	J	
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		2.0
1-Dodecene	0.18	J	
1-Naphthylamine	ND		0.40
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	ND		0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	18	JBA	
2-Picoline	ND		0.80
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.80
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40

Matrix : SEDIMENT

Client Description	SC-QE05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		2.0
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.80
Acenaphthene	ND		0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	0.054	J	0.40
Azobenzene	ND		0.40
Benzidine	ND		6.8
Benzo(a)anthracene	0.13	J	0.40
Benzo(a)pyrene	0.15	J	0.40
Benzo(b)fluoranthene	0.18	J	0.40
Benzo(g,h,i)perylene	0.12	J	0.40
Benzo(k)fluoranthene	0.15	J	0.40
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Chrysene	0.23	J	0.40
Cyclohexane, 1,4-dimethyl-, cis-	0.16	JB	
Decane, 2,6,7-trimethyl-	0.20	J	
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	ND		0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.041	J	0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Dodecane	0.74	J	
Dodecane, 6-methyl-	0.31	J	
Ethyl methanesulfonate	ND		0.40
Fluoranthene	0.69		0.40
Fluorene	ND		0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.40
Indeno(1,2,3-cd)pyrene	0.11	J	0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	0.089	J	0.40
Nitrobenzene	ND		0.40
Octadecane	0.23	J	
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Phenacetin	ND		0.80
Phenanthrene	0.62		0.40
Phenol	ND		0.40
Pronamide	ND		0.80
Pyrene	0.59		0.40
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		

Matrix : SEDIMENT

Client Description	SC-QE05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Tetradecane	0.25	J	
Tridecane	0.57	J	
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	0.047	J	0.40
p-Dimethylaminoazobenzene	ND		0.80

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/23/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0040
4,4'-DDE	ND		0.0040
4,4'-DDT	ND		0.0040
Aldrin	ND		0.0021
Aroclor 1016	ND		0.040
Aroclor 1221	ND		0.040
Aroclor 1232	ND		0.040
Aroclor 1242	ND		0.040
Aroclor 1248	ND		0.040
Aroclor 1254	0.15		0.040
Aroclor 1260	ND		0.040
Dieldrin	ND		0.0040
Endosulfan I	ND		0.0021
Endosulfan II	ND		0.0040
Endosulfan sulfate	ND		0.0040
Endrin	ND		0.0040
Endrin aldehyde	ND		0.0040
Heptachlor	ND		0.0021
Heptachlor epoxide	ND		0.0021
Methoxychlor	ND		0.021
Toxaphene	ND		0.21
alpha-BHC	ND		0.0021
alpha-Chlordane	ND		0.0021
beta-BHC	ND		0.0021
delta-BHC	ND		0.0021
gamma-BHC (Lindane)	ND		0.0021
gamma-Chlordane	ND		0.0021

Matrix : SEDIMENT

Client Description	SC-QE06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.015
1,1,1-Trichloroethane	ND		0.015
1,1,2,2-Tetrachloroethane	ND		0.015
1,1,2-Trichloroethane	ND		0.015
1,1-Dichloroethane	ND		0.015
1,1-Dichloroethene	ND		0.015
1,2,3-Trichloropropane	ND		0.015
1,2-Dichloroethane	ND		0.015
1,2-Dichloropropane	ND		0.015
2-Butanone (MEK)	0.046		0.029
2-Chloroethyl vinyl ether	ND		0.029
2-Hexanone	ND		0.029
4-Methyl-2-pentanone (MIBK)	ND		0.029
Acetone	0.26	B	0.029
Acrolein	ND		0.29
Acrylonitrile	ND		0.29
Aromatic Hydrocarbon	0.17	J	
Benzene	ND		0.015
Bicyclo[4.1.0]heptan-3-one,4,7,7-trimethyl-, [1R!	0.039	Jz	
Bromodichloromethane	ND		0.015
Bromofluoromethane	0.047	J	
Bromoform	ND		0.015
Bromomethane	ND		0.029
Carbon disulfide	ND		0.015
Carbon tetrachloride	ND		0.015
Chlorobenzene	0.0059	J	0.015
Chloroethane	ND		0.029
Chloroform	ND		0.015
Chloromethane	0.025	J	0.029
Cyclic Hydrocarbon	0.033	J	
Cyclic Hydrocarbon	0.10	J	
Cyclodecene	0.060	J	
Cycloheptane, methyl-	0.098	J	
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.	0.018	J	
Cyclohexane, 1-ethyl-4-methyl-, cis-	0.024	J	
Cyclohexane, 2,4-diethyl-1-methyl-	0.099	J	
Cyclopentane, 1-methyl-3-(2-methylpropyl)-	0.098	J	
Dibromochloromethane	ND		0.015
Dibromomethane	ND		0.015
Dichlorodifluoromethane	ND		0.059
Ethanol	ND		1.5
Ethyl methacrylate	ND		0.059
Ethylbenzene	0.0075	J	0.015
Heptane, 3-ethyl-2-methyl-	0.041	J	
Iodomethane	ND		0.015
Methylene chloride	ND		0.015
Nonane, 2-methyl-3-methylene-	0.039	J	
Octane, 2,3,6-trimethyl-	0.085	J	
Octane, 6-ethyl-2-methyl-	0.053	J	
Oxygenated Hydrocarbon	0.060	J	
Saturated Hydrocarbon	0.13	J	
Styrene	ND		0.015
TID Compound 20	ND		
Tetrachloroethene	ND		0.015
Toluene	ND		0.015
Trichloroethene	ND		0.015
Trichlorofluoromethane	ND		0.015
Undecane, 6,6-dimethyl-	0.015	J	
Unknown	0.036	J	
Vinyl acetate	ND		0.029
Vinyl chloride	ND		0.029
Xylenes (total)	ND		0.015
cis-1,3-Dichloropropene	ND		0.015
trans-1,2-Dichloroethene	ND		0.015
trans-1,3-Dichloropropene	ND		0.015
trans-1,4-Dichloro-2-butene	ND		0.015

Matrix : SEDIMENT

Client Description	SC-QE06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	6030		29.4
Antimony	ND		17.6
Arsenic	5.6		1.5
Barium	721		2.9
Beryllium	ND		0.59
Cadmium	17.4		1.5
Calcium	36600		58.8
Chromium	276		2.9
Cobalt	9.6		2.9
Copper	581		5.9
Iron	10200		29.4
Lead	190		14.7
Magnesium	4430		58.8
Manganese	214		2.9
Mercury	0.54		0.097
Molybdenum	19.1		5.9
Nickel	88.8		11.8
Potassium	869	J	1470
Selenium	ND		1.5
Silver	8.1		2.9
Sodium	ND		1470
Thallium	ND		588
Vanadium	43.5		2.9
Zinc	494		5.9

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		4.9
1,2,4-Trichlorobenzene	ND		4.9
1,2-Dichlorobenzene	ND		4.9
1,3-Dichlorobenzene	ND		4.9
1,4-Dichlorobenzene	ND		4.9
1-Chloronaphthalene	ND		24
1-Naphthylamine	ND		4.9
2,2'-oxybis(1-chloropropane)	ND		4.9
2,3,4,6-Tetrachlorophenol	ND		24
2,4,5-Trichlorophenol	ND		4.9
2,4,6-Trichlorophenol	ND		4.9
2,4-Dichlorophenol	ND		4.9
2,4-Dimethylphenol	ND		4.9
2,4-Dinitrophenol	ND		24
2,4-Dinitrotoluene	ND		4.9
2,6-Dichlorophenol	ND		4.9
2,6-Dinitrotoluene	ND		4.9
2-Chloronaphthalene	ND		4.9
2-Chlorophenol	ND		4.9
2-Dodecen-1-yl(-)succinic anhydride	5.7	J	
2-Methylnaphthalene	ND		4.9
2-Methylphenol	ND		4.9
2-Naphthylamine	ND		4.9
2-Nitrophenol	ND		4.9
2-Pentanone, 4-hydroxy-4-methyl-	93	JAB	
2-Picoline	ND		9.7
3,3'-Dichlorobenzidine	ND		24
3,3'-Dimethylbenzidine	ND		24
3-Methylcholanthrene	ND		9.7
3-Nitroaniline	ND		24
3/4-Methylphenol	ND		4.9
4,6-Dinitro-2-methylphenol	ND		24
4-Aminobiphenyl	ND		24
4-Bromophenyl phenyl ether	ND		4.9
4-Chloro-3-methylphenol	ND		4.9
4-Chloroaniline	ND		4.9
4-Chlorophenyl phenyl ether	ND		4.9

Matrix : SEDIMENT

Client Description	SC-QE06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitroaniline	ND		24
4-Nitrophenol	ND		24
7,12-Dimethylbenz(a)-anthracene	ND		9.7
9-Oxabicyclo[6.1.0]nonane, 1-methyl-,cis-	3.4	J	
Acenaphthene	ND		4.9
Acenaphthylene	ND		4.9
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	3.8	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	5.6	Jz	
Acetophenone	ND		4.9
Aniline	ND		4.9
Anthracene	1.2	J	4.9
Azobenzene	ND		4.9
Benzidine	ND		82
Benzo(a)anthracene	5.4		4.9
Benzo(a)pyrene	6.8		4.9
Benzo(b)fluoranthene	9.4	J	
Benzo(b)fluoranthene	8.8		4.9
Benzo(g,h,i)perylene	3.8	J	4.9
Benzo(k)fluoranthene	5.6	J	
Benzo(k)fluoranthene	7.0		4.9
Benzoic acid	ND		24
Benzyl alcohol	ND		4.9
Butyl benzyl phthalate	ND		4.9
Chrysene	9.3		4.9
Cyclododecane	4.9	J	
Decane, 2,6,7-trimethyl-	6.3	J	
Di-n-butyl phthalate	ND		4.9
Di-n-octyl phthalate	ND		4.9
Dibenz(a,h)anthracene	1.5	J	4.9
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		4.9
Diethyl phthalate	ND		4.9
Dimethyl phthalate	ND		4.9
Diphenylamine	ND		4.9
Dodecane	4.2	J	
Dodecane, 2,6,10-trimethyl-	6.1	J	
Eicosane	12	J	
Eicosane	4.4	J	
Ethyl methanesulfonate	ND		4.9
Fluoranthene	21		4.9
Fluorene	0.55	J	4.9
Heptacosane	6.4	J	
Heptadecane	3.8	J	
Heptadecane, 2,6,10,15-tetramethyl-	5.2	J	
Hexachlorobenzene	ND		4.9
Hexachlorobutadiene	ND		4.9
Hexachlorocyclopentadiene	ND		24
Hexachloroethane	ND		4.9
Hexacosane	6.0	J	
Hexadecane	3.0	J	
Indeno(1,2,3-cd)pyrene	3.8	J	4.9
Isophorone	ND		4.9
Methyl methanesulfonate	ND		4.9
N-Nitroso-di-n-butylamine	ND		4.9
N-Nitroso-di-n-propylamine	ND		4.9
N-Nitrosodiphenylamine	ND		4.9
N-Nitrosopiperidine	ND		4.9
Naphthalene	ND		4.9
Nitrobenzene	ND		4.9
Nonacosane	6.4	J	
Nonadecane	4.7	J	
Octadecane	15	J	
Pentachlorobenzene	ND		4.9
Pentachloronitrobenzene	ND		24
Pentachlorophenol	ND		24
Pentacosane	3.3	J	
Phenacetin	ND		9.7

Matrix : SEDIMENT

Client Description	**SC-QE06-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Phenanthrene	8.2		4.9
Phenol	ND		4.9
Pronamide	ND		9.7
Pyrene	12		4.9
Squalene	5.3	J	
Tetracosane	4.5	J	
Tetracosane	9.2	J	
Tricosane	12	J	
Tridecane	6.9	J	
Undecane, 2,6-dimethyl-	5.9	J	
Vitamin E	14	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	5.9	Jz	
a,a-Dimethylphenethyl-amine	ND		24
bis(2-Chloroethoxy)methane	ND		4.9
bis(2-Chloroethyl) ether	ND		4.9
bis(2-Ethylhexyl)phthalate	6.4		4.9
p-Dimethylaminoazobenzene	ND		9.7

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.97
4,4'-DDE	ND		0.97
4,4'-DDT	ND		0.97
Aldrin	ND		0.50
Aroclor 1016	ND		9.7
Aroclor 1221	ND		9.7
Aroclor 1232	ND		9.7
Aroclor 1242	ND		9.7
Aroclor 1248	ND		9.7
Aroclor 1254	ND		9.7
Aroclor 1260	ND		9.7
Dieldrin	ND		0.97
Endosulfan I	ND		0.50
Endosulfan II	ND		0.97
Endosulfan sulfate	ND		0.97
Endrin	ND		0.97
Endrin aldehyde	ND		0.97
Heptachlor	ND		0.50
Heptachlor epoxide	ND		0.50
Methoxychlor	ND		5.0
Toxaphene	ND		50
alpha-BHC	ND		0.50
alpha-Chlordane	ND		0.50
beta-BHC	ND		0.50
delta-BHC	ND		0.50
gamma-BHC (Lindane)	ND		0.50
gamma-Chlordane	ND		0.50

Matrix : SEDIMENT

Client Description	SC-QE06-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.023
1,1,1-Trichloroethane	ND		0.023
1,1,2,2-Tetrachloroethane	ND		0.023
1,1,2-Trichloroethane	ND		0.023
1,1-Dichloroethane	ND		0.023
1,1-Dichloroethene	ND		0.023
1,2,3-Trichloropropane	ND		0.023
1,2-Dichloroethane	ND		0.023
1,2-Dichloropropane	ND		0.023
2-Butanone (MEK)	0.037	J	0.047
2-Chloroethyl vinyl ether	ND		0.047
2-Hexanone	ND		0.047
4-Methyl-2-pentanone (MIBK)	ND		0.047
Acetone	0.19	B	0.047
Acrolein	ND		0.47
Acrylonitrile	ND		0.47
Benzene	ND		0.023
Bicyclo[4.1.0]heptan-3-one,4,7,7-trimethyl-, [1R!	0.35	Jz	
Bromodichloromethane	ND		0.023
Bromoform	ND		0.023
Bromomethane	ND		0.047
Carbon disulfide	0.0087	J	0.023
Carbon tetrachloride	ND		0.023
Chlorobenzene	0.011	J	0.023
Chloroethane	ND		0.047
Chloroform	ND		0.023
Chloromethane	ND		0.047
Cyclic Hydrocarbon	0.097	J	
Cyclic Hydrocarbon	0.18	J	
Cyclic Hydrocarbon	0.33	J	
Cyclohexane, 1,1,2-trimethyl-	0.081	J	
Cyclohexane, 1,2-diethyl-3-methyl-	0.43	J	
Cyclohexane, 1-ethyl-4-methyl-, cis-	0.11	J	
Cyclohexane, 1-methyl-2-propyl-	0.18	J	
Cyclohexane, butyl-	0.32	J	
Cyclohexane, butyl-	0.55	NJ	
Decane, 4-methyl-	0.40	J	
Dibromochloromethane	ND		0.023
Dibromomethane	ND		0.023
Dichlorodifluoromethane	ND		0.094
Ethanol	ND		2.3
Ethyl methacrylate	ND		0.094
Ethylbenzene	ND		0.023
Iodomethane	ND		0.023
Methylene chloride	ND		0.023
Naphthalene, decahydro-, trans-	0.22	J	
Naphthalene, decahydro-2-methyl-	0.26	J	
Octane, 3,6-dimethyl-	0.12	J	
Oxygenated Hydrocarbon	0.13	J	
Saturated Hydrocarbon	0.23	J	
Saturated Hydrocarbon	0.26	J	
Saturated Hydrocarbon	0.41	J	
Saturated Hydrocarbon	0.76	J	
Styrene	ND		0.023
Tetrachloroethene	ND		0.023
Toluene	ND		0.023
Trichloroethene	ND		0.023
Trichlorofluoromethane	ND		0.023
Unsaturated Hydrocarbon	0.49	J	
Vinyl acetate	ND		0.047
Vinyl chloride	ND		0.047
Xylenes (total)	0.0061	J	0.023
cis-1,3-Dichloropropene	ND		0.023
trans-1,2-Dichloroethene	ND		0.023
trans-1,3-Dichloropropene	ND		0.023
trans-1,4-Dichloro-2-butene	ND		0.023

Matrix : SEDIMENT

Client Description	**SC-QE06-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	7620		18.7
Antimony	ND		11.2
Arsenic	7.2		0.94
Barium	657		1.9
Beryllium	0.63		0.37
Cadmium	14.8		0.94
Calcium	33300		37.4
Chromium	261		1.9
Cobalt	10.2		1.9
Copper	436		3.7
Iron	11400		18.7
Lead	124		9.4
Magnesium	5300		37.4
Manganese	242		1.9
Mercury	0.35		0.062
Molybdenum	27.3		3.7
Nickel	73.0		7.5
Potassium	1010		936
Selenium	0.88	J	0.94
Silver	3.9		1.9
Sodium	ND		936
Thallium	ND		374
Vanadium	46.0		1.9
Zinc	362		3.7

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		3.1
1,2,4-Trichlorobenzene	ND		3.1
1,2-Dichlorobenzene	ND		3.1
1,3-Dichlorobenzene	ND		3.1
1,4-Dichlorobenzene	ND		3.1
1-Chloronaphthalene	ND		15
1-Docosanol, acetate	5.0	J	
1-Naphthylamine	ND		3.1
2,2'-oxybis(1-chloropropane)	ND		3.1
2,3,4,6-Tetrachlorophenol	ND		15
2,4,5-Trichlorophenol	ND		3.1
2,4,6-Trichlorophenol	ND		3.1
2,4-Dichlorophenol	ND		3.1
2,4-Dimethylphenol	ND		3.1
2,4-Dinitrophenol	ND		15
2,4-Dinitrotoluene	ND		3.1
2,6-Dichlorophenol	ND		3.1
2,6-Dinitrotoluene	ND		3.1
2-Chloronaphthalene	ND		3.1
2-Chlorophenol	ND		3.1
2-Methylnaphthalene	0.33	J	3.1
2-Methylphenol	ND		3.1
2-Naphthylamine	ND		3.1
2-Nitrophenol	ND		3.1
2-Octenal, (E)-	5.2	J	
2-Pentanone, 4-hydroxy-4-methyl-	45	JAB	
2-Picoline	ND		6.2
3,3'-Dichlorobenzidine	ND		15
3,3'-Dimethylbenzidine	ND		15
3-Methylcholanthrene	ND		6.2
3-Nitroaniline	ND		15
3/4-Methylphenol	ND		3.1
4,6-Dinitro-2-methylphenol	ND		15
4-Aminobiphenyl	ND		15
4-Bromophenyl phenyl ether	ND		3.1
4-Chloro-3-methylphenol	ND		3.1
4-Chloroaniline	ND		3.1

Matrix : SEDIMENT

Client Description	SC-QE06-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Chlorophenyl phenyl ether	ND		3.1
4-Nitroaniline	ND		15
4-Nitrophenol	ND		15
4H-1-Benzopyran-4-one, 2-(3,4-dihdroxyphenyl)6,8!	50	Jz	
6H,8H-Benzo[10,11]chryseno[1,12-cd]pyran-6,8-dio!	24	Jz	
7,12-Dimethylbenz(a)-anthracene	ND		6.2
Acenaphthene	0.35	J	3.1
Acenaphthylene	ND		3.1
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	27	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	3.1	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	4.1	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	4.5	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	5.5	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	6.6	Jz	
Acetophenone	ND		3.1
Aniline	ND		3.1
Anthracene	0.77	J	3.1
Azobenzene	ND		3.1
Benzidine	ND		52
Benzo(a)anthracene	2.9	J	3.1
Benzo(a)pyrene	ND		3.1
Benzo(b)fluoranthene	2.9	J	3.1
Benzo(g,h,i)perylene	1.1	J	3.1
Benzo(k)fluoranthene	2.8	J	3.1
Benzoic acid	ND		15
Benzyl alcohol	ND		3.1
Butyl benzyl phthalate	ND		3.1
Chrysene	4.0		3.1
Cyclopentane, 1-methyl-3-(1-methylethyl)-	4.0	J	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	23	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	4.1	Jz	
Decane	5.8	J	
Decane, 2,6,7-trimethyl-	8.4	J	
Di-n-butyl phthalate	ND		3.1
Di-n-octyl phthalate	ND		3.1
Dibenz(a,h)anthracene	0.36	J	3.1
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		3.1
Diethyl phthalate	ND		3.1
Dimethyl phthalate	ND		3.1
Diphenylamine	ND		3.1
Dodecane, 2,6,11-trimethyl-	9.1	J	
Eicosane	39	J	
Ethyl methanesulfonate	ND		3.1
Fluoranthene	10		3.1
Fluorene	0.52	J	3.1
Heptadecane, 2,6,10,15-tetramethyl-	12	J	
Hexachlorobenzene	ND		3.1
Hexachlorobutadiene	ND		3.1
Hexachlorocyclopentadiene	ND		15
Hexachloroethane	ND		3.1
Hexacosane	2.9	J	
Indeno(1,2,3-cd)pyrene	1.2	J	3.1
Isophorone	ND		3.1
Methyl methanesulfonate	ND		3.1
N-Nitroso-di-n-butylamine	ND		3.1
N-Nitroso-di-n-propylamine	ND		3.1
N-Nitrosodiphenylamine	ND		3.1
N-Nitrosopiperidine	ND		3.1
Naphthalene	ND		3.1
Nitrobenzene	ND		3.1
Oxygenated Hydrocarbon	3.0	J	
Pentachlorobenzene	ND		3.1
Pentachloronitrobenzene	ND		15
Pentachlorophenol	ND		15
Pentadecane, 2,6,10,14-tetramethyl-	11	J	
Phenacetin	ND		6.2

Matrix : SEDIMENT

Client Description	SC-QE06-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Phenanthrene	4.7		3.1
Phenol	ND		3.1
Pronamide	ND		6.2
Pyrene	6.2		3.1
Tridecane, 5-propyl-	6.4	J	
Tritetracontane	8.4	J	
Undecane, 2,6-dimethyl-	7.0	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.7	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	23	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	28	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	4.2	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	40	Jz	
a,a-Dimethylphenethyl-amine	ND		15
bis(2-Chloroethoxy)methane	ND		3.1
bis(2-Chloroethyl) ether	ND		3.1
bis(2-Ethylhexyl)phthalate	19		3.1
p-Dimethylaminoazobenzene	ND		6.2

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.062
4,4'-DDE	ND		0.062
4,4'-DDT	ND		0.062
Aldrin	ND		0.032
Aroclor 1016	ND		0.62
Aroclor 1221	ND		0.62
Aroclor 1232	ND		0.62
Aroclor 1242	ND		0.62
Aroclor 1248	ND		0.62
Aroclor 1254	ND		0.62
Aroclor 1260	ND		0.62
Dieldrin	ND		0.062
Endosulfan I	ND		0.032
Endosulfan II	ND		0.062
Endosulfan sulfate	ND		0.062
Endrin	ND		0.062
Endrin aldehyde	0.042	dJ	0.062
Endrin aldehyde	ND	M	0.062
Heptachlor	ND		0.032
Heptachlor epoxide	3.3	d	0.032
Heptachlor epoxide	ND	M	0.032
Methoxychlor	ND		0.32
Toxaphene	ND		3.2
alpha-BHC	ND		0.032
alpha-Chlordane	ND		0.032
beta-BHC	ND		0.032
delta-BHC	1.2	d	0.032
delta-BHC	ND	M	0.032
gamma-BHC (Lindane)	ND		0.032
gamma-Chlordane	0.020	MJ	0.032
gamma-Chlordane	0.036	d	0.032

Matrix : SEDIMENT

Client Description	SC-QE06-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0067
1,1,1-Trichloroethane	ND		0.0067
1,1,2,2-Tetrachloroethane	ND		0.0067
1,1,2-Trichloroethane	ND		0.0067
1,1,4-Trimethylcyclohexane	0.047	J	
1,1-Dichloroethane	ND		0.0067
1,1-Dichloroethene	ND		0.0067
1,2,3-Trichloropropane	ND		0.0067
1,2,4-Trimethylbenzene	0.0085	J	
1,2-Dichloroethane	ND		0.0067
1,2-Dichloropropane	ND		0.0067
1,4-Dichlorobenzene	0.013	J	
2-Butanone (MEK)	0.013	J	0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.067	B	0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Aromatic Hydrocarbon	0.020	J	
Benzene	ND		0.0067
Benzene, 4-ethyl-1,2-dimethyl-	0.011	J	
Benzene, diethyl-	0.0093	J	
Bromodichloromethane	ND		0.0067
Bromoform	ND		0.0067
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0067
Carbon tetrachloride	ND		0.0067
Chlorobenzene	0.0083		0.0067
Chloroethane	ND		0.013
Chloroform	ND		0.0067
Chloromethane	ND		0.013
Cycloheptane, methyl-	0.019	J	
Cyclohexane, 1,1,2,3-tetramethyl-	0.012	J	
Cyclohexane, 1,2,4-trimethyl-	0.017	J	
Cyclohexane, 1,2-dimethyl-, cis-	0.0072	J	
Cyclohexane, 1-ethyl-4-methyl-,trans-	0.033	J	
Cyclohexane, propyl-	0.026	J	
Cyclopropane, 1,2-dimethyl-, trans-	0.0081	J	
Dibromochloromethane	ND		0.0067
Dibromomethane	ND		0.0067
Dichlorodifluoromethane	ND		0.027
Ethanol	ND		0.67
Ethyl methacrylate	ND		0.027
Ethylbenzene	ND		0.0067
Iodomethane	ND		0.0067
Methylene chloride	ND		0.0067
Naphthalene, decahydro-	0.014	J	
Saturated Hydrocarbon	0.033	J	
Saturated Hydrocarbon	0.049	J	
Saturated Hydrocarbon	0.061	J	
Styrene	ND		0.0067
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0067
Toluene	ND		0.0067
Trichloroethene	ND		0.0067
Trichlorofluoromethane	ND		0.0067
Unsaturated Hydrocarbon	0.027	J	
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	0.0015	J	0.0067
cis-1,3-Dichloropropene	ND		0.0067
trans-1,2-Dichloroethene	ND		0.0067
trans-1,3-Dichloropropene	ND		0.0067
trans-1,4-Dichloro-2-butene	ND		0.0067

Matrix : SEDIMENT

Client Description	**SC-QE06-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,1.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	7910		13.5
Antimony	ND		8.1
Arsenic	3.6		0.67
Barium	498		1.3
Beryllium	0.65		0.27
Cadmium	19.3		0.67
Calcium	15100		26.9
Chromium	549		1.3
Cobalt	16.7		1.3
Copper	107		2.7
Iron	10500		13.5
Lead	318		6.7
Magnesium	3710		26.9
Manganese	382		1.3
Mercury	0.31		0.044
Molybdenum	4.9		2.7
Nickel	75.5		5.4
Potassium	999		673
Selenium	ND		1.3
Silver	2.9		1.3
Sodium	ND		673
Thallium	ND		269
Vanadium	22.7		1.3
Zinc	237		2.7

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.2
1,2,4-Trichlorobenzene	ND		2.2
1,2-Dichlorobenzene	ND		2.2
1,3-Dichlorobenzene	ND		2.2
1,4-Dichlorobenzene	ND		2.2
1-Chloronaphthalene	ND		11
1-Naphthylamine	ND		2.2
2,2'-oxybis(1-chloropropane)	ND		2.2
2,3,4,6-Tetrachlorophenol	ND		11
2,4,5-Trichlorophenol	ND		2.2
2,4,6-Trichlorophenol	ND		2.2
2,4-Dichlorophenol	ND		2.2
2,4-Dimethylphenol	ND		2.2
2,4-Dinitrophenol	ND		11
2,4-Dinitrotoluene	ND		2.2
2,6-Dichlorophenol	ND		2.2
2,6-Dinitrotoluene	ND		2.2
2-Chloronaphthalene	ND		2.2
2-Chlorophenol	ND		2.2
2-Dodecen-1-yl(-)succinic anhydride	1.1	J	
2-Dodecen-1-yl(-)succinic anhydride	1.2	J	
2-Dodecen-1-yl(-)succinic anhydride	1.6	J	
2-Dodecen-1-yl(-)succinic anhydride	1.9	J	
2-Dodecen-1-yl(-)succinic anhydride	3.9	J	
2-Methylnaphthalene	ND		2.2
2-Methylphenol	ND		2.2
2-Naphthylamine	ND		2.2
2-Nitrophenol	ND		2.2
2-Pentanone, 4-hydroxy-4-methyl-	35	JAB	
2-Picoline	ND		4.4
3,3'-Dichlorobenzidine	ND		11
3,3'-Dimethylbenzidine	ND		11
3-Dodecene, (Z)-	1.4	J	
3-Methylcholanthrene	ND		4.4
3-Nitroaniline	ND		11
3/4-Methylphenol	ND		2.2
4,6-Dinitro-2-methylphenol	ND		11

Matrix : SEDIMENT

Client Description	SC-QE06-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Aminobiphenyl	ND		11
4-Bromophenyl phenyl ether	ND		2.2
4-Chloro-3-methylphenol	ND		2.2
4-Chloroaniline	ND		2.2
4-Chlorophenyl phenyl ether	ND		2.2
4-Nitroaniline	ND		11
4-Nitrophenol	ND		11
7,12-Dimethylbenz(a)-anthracene	ND		4.4
Acenaphthene	ND		2.2
Acenaphthylene	ND		2.2
Acetophenone	ND		2.2
Aniline	ND		2.2
Anthracene	0.32	J	2.2
Azobenzene	ND		2.2
Benzidine	ND		38
Benzo(a)anthracene	1.3	J	2.2
Benzo(a)pyrene	1.6	J	2.2
Benzo(b)fluoranthene	1.6	J	2.2
Benzo(g,h,i)perylene	0.67	J	2.2
Benzo(k)fluoranthene	1.5	J	2.2
Benzoic acid	ND		11
Benzyl alcohol	ND		2.2
Butyl benzyl phthalate	ND		2.2
Cholestan-3-ol, 2-methylene-, (3.beta.,5.alpha.)-	1.9	J	
Chrysene	1.8	J	2.2
Cyclohexane, 1,3-dimethyl-, cis-	1.3	J	
Cyclohexane, 2-propenyl-	1.8	J	
Cyclohexanone	1.3	J	
Di-n-butyl phthalate	0.30	J	2.2
Di-n-octyl phthalate	ND		2.2
Dibenz(a,h)anthracene	ND		2.2
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.2
Diethyl phthalate	ND		2.2
Dimethyl phthalate	ND		2.2
Diphenylamine	ND		2.2
Dodecane, 2,6,10-trimethyl-	1.1	J	
Dodecane, 2,7,10-trimethyl-	0.98	J	
Ethyl methanesulfonate	ND		2.2
Fluoranthene	4.4		2.2
Fluorene	ND		2.2
Heptadecane, 2,6-dimethyl-	4.1	J	
Heptane, 3-ethyl-2-methyl-	1.3	J	
Hexachlorobenzene	ND		2.2
Hexachlorobutadiene	ND		2.2
Hexachlorocyclopentadiene	ND		11
Hexachloroethane	ND		2.2
Hexadecane, 2,6,11,15-tetramethyl-	1.7	J	
Indeno(1,2,3-cd)pyrene	0.65	J	2.2
Isophorone	ND		2.2
Methyl methanesulfonate	ND		2.2
N-Nitroso-di-n-butylamine	ND		2.2
N-Nitroso-di-n-propylamine	ND		2.2
N-Nitrosodiphenylamine	ND		2.2
N-Nitrosopiperidine	ND		2.2
Naphthalene	ND		2.2
Nitrobenzene	ND		2.2
Octane, 2,3,7-trimethyl-	1.2	J	
Oxygenated Hydrocarbon	1.6	J	
Pentachlorobenzene	ND		2.2
Pentachloronitrobenzene	ND		11
Pentachlorophenol	ND		11
Phenacetin	ND		4.4
Phenanthrene	2.8		2.2
Phenol	ND		2.2
Pronamide	ND		4.4
Pyrene	3.0		2.2

Matrix : SEDIMENT

Client Description	SC-QE06-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Squalene	4.8	J	
Tetratetracontane	2.7	J	
Tricyclo[4.3.0.07,9]nonane, 2,2,5,5.8,8-hexamet!	2.8	Jz	
Undecane, 2,5-dimethyl-	2.0	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.1	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.4	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.6	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.3	Jz	
a,a-Dimethylphenethyl-amine	ND		11
bis(2-Chloroethoxy)methane	ND		2.2
bis(2-Chloroethyl) ether	ND		2.2
bis(2-Ethylhexyl)phthalate	1.8	J	2.2
d-Homoandrostane, (5.alpha.,13.alpha.)-	0.71	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	3.1	J	
p-Dimethylaminoazobenzene	ND		4.4

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.044
4,4'-DDE	ND		0.044
4,4'-DDT	ND		0.044
Aldrin	ND		0.023
Aroclor 1016	ND		0.44
Aroclor 1221	ND		0.44
Aroclor 1232	ND		0.44
Aroclor 1242	ND		0.44
Aroclor 1248	ND		0.44
Aroclor 1254	ND		0.44
Aroclor 1260	ND		0.44
Dieldrin	ND		0.044
Endosulfan I	ND		0.023
Endosulfan II	ND		0.044
Endosulfan sulfate	ND		0.044
Endrin	ND		0.044
Endrin aldehyde	ND		0.044
Heptachlor	ND		0.023
Heptachlor epoxide	ND		0.023
Methoxychlor	ND		0.23
Toxaphene	ND		2.3
alpha-BHC	ND		0.023
alpha-Chlordane	ND		0.023
beta-BHC	ND		0.023
delta-BHC	ND		0.023
gamma-BHC (Lindane)	ND		0.023
gamma-Chlordane	ND		0.023

Matrix : SEDIMENT

Client Description	SC-QE07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0061
1,1,1-Trichloroethane	ND		0.0061
1,1,2,2-Tetrachloroethane	ND		0.0061
1,1,2-Trichloroethane	ND		0.0061
1,1-Dichloroethane	ND		0.0061
1,1-Dichloroethene	ND		0.0061
1,2,3-Trichloropropane	ND		0.0061
1,2-Dichloroethane	ND		0.0061
1,2-Dichloropropane	ND		0.0061
2-Butanone (MEK)	0.0029	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.013	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Aromatic Hydrocarbon	0.016	J	
Benzene	ND		0.0061
Benzene, 1,2,4,5-tetramethyl-	0.015	J	
Benzene, 1,3-dimethyl-5-(1-methylethyl)-	0.0071	J	
Benzene, 1,4-diethyl-	0.0073	J	
Bromodichloromethane	ND		0.0061
Bromoform	ND		0.0061
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0061
Carbon tetrachloride	ND		0.0061
Chlorobenzene	ND		0.0061
Chloroethane	ND		0.012
Chloroform	ND		0.0061
Chloromethane	ND		0.012
Cyclic Hydrocarbon	0.0077	J	
Decane, 4-methyl-	0.0068	J	
Dibromochloromethane	ND		0.0061
Dibromomethane	ND		0.0061
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.61
Ethyl methacrylate	ND		0.024
Ethylbenzene	0.0013	J	0.0061
Iodomethane	ND		0.0061
Methylene chloride	ND		0.0061
Naphthalene	0.011	J	
Styrene	0.036		0.0061
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0061
Toluene	ND		0.0061
Trichloroethene	ND		0.0061
Trichlorofluoromethane	ND		0.0061
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0061
cis-1,3-Dichloropropene	ND		0.0061
trans-1,2-Dichloroethene	ND		0.0061
trans-1,3-Dichloropropene	ND		0.0061
trans-1,4-Dichloro-2-butene	ND		0.0061

Matrix : SEDIMENT

Client Description	SC-QE07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1990		12.2
Antimony	ND		7.3
Arsenic	1.6		0.61
Barium	358		1.2
Beryllium	ND		0.24
Cadmium	22.6		0.61
Calcium	117000		24.3
Chromium	210		1.2
Cobalt	50.4		1.2
Copper	135		2.4
Iron	8250		12.2
Lead	174		6.1
Magnesium	3190		24.3
Manganese	110		1.2
Mercury	0.26		0.040
Molybdenum	13.6		2.4
Nickel	87.6		4.9
Potassium	264	J	608
Selenium	ND		6.1
Silver	14.2		1.2
Sodium	ND		608
Thallium	ND		243
Vanadium	21.3		1.2
Zinc	258		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1':2',1"-Terphenyl, 2,5-dichloro-	3.5	J	
1,2,4,5-Tetrachloro-benzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,2-Dichlorobenzene	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
1-Chloronaphthalene	ND		9.7
1-Naphthylamine	ND		2.0
11H-Benzo[a]fluorene	0.87	J	
11H-Benzo[b]fluorene	0.84	J	
2,2'-oxybis(1-chloropropane)	ND		2.0
2,3,4,6-Tetrachlorophenol	ND		9.7
2,4,5-Trichlorophenol	ND		2.0
2,4,6-Trichlorophenol	ND		2.0
2,4-Dichlorophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
2,4-Dinitrophenol	ND		9.7
2,4-Dinitrotoluene	ND		2.0
2,6-Dichlorophenol	ND		2.0
2,6-Dinitrotoluene	ND		2.0
2-Chloro-4,6-di(4-chlorophenyl)pyrimidine	1.8	J	
2-Chloro-4,6-di(4-chlorophenyl)pyrimidine	3.4	J	
2-Chloronaphthalene	ND		2.0
2-Chlorophenol	ND		2.0
2-Methylnaphthalene	ND		2.0
2-Methylphenol	ND		2.0
2-Naphthalenol, 1,6-dibromo-	2.1	J	
2-Naphthalenol, 1,6-dibromo-	2.7	J	
2-Naphthylamine	ND		2.0
2-Nitrophenol	ND		2.0
2-Pentanone, 4-hydroxy-4-methyl-	19	JAB	
2-Picoline	ND		4.0
3,3'-Dichlorobenzidine	ND		9.7
3,3'-Dimethylbenzidine	ND		9.7
3-Methylcholanthrene	ND		4.0
3-Nitroaniline	ND		9.7
3/4-Methylphenol	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,6-Dinitro-2-methylphenol	ND		9.7
4,7-Dimethyl-1,10-phenanthroline	1.3	J	
4-Aminobiphenyl	ND		9.7
4-Bromophenyl phenyl ether	ND		2.0
4-Chloro-3-methylphenol	ND		2.0
4-Chloroaniline	ND		2.0
4-Chlorophenyl phenyl ether	ND		2.0
4-Nitroaniline	ND		9.7
4-Nitrophenol	ND		9.7
4H-Cyclopenta[def]phenanthrene	3.3	J	
7,12-Dimethylbenz(a)-anthracene	ND		4.0
Acenaphthene	0.55	J	2.0
Acenaphthylene	ND		2.0
Acetophenone	ND		2.0
Aniline	ND		2.0
Anthracene	2.3		2.0
Azobenzene	ND		2.0
Benzidine	ND		34
Benzo(a)anthracene	9.1		2.0
Benzo(a)pyrene	11		2.0
Benzo(b)fluoranthene	13		2.0
Benzo(c)phenanthrene	0.82	J	
Benzo(g,h,i)perylene	4.2		2.0
Benzo(k)fluoranthene	10	J	
Benzo(k)fluoranthene	6.8	J	
Benzo(k)fluoranthene	8.6		2.0
Benzo[ghi]fluoranthene	0.82	J	
Benzoic acid	ND		9.7
Benzyl alcohol	ND		2.0
Butyl benzyl phthalate	ND		2.0
Carbazole	1.4	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	1.2	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	1.3	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	2.3	J	
Chrysene	12		2.0
Cyclohexane, 1-(1,5-dimethylhexyl)-4-(4-methylpe!	1.7	Jz	
Di-n-butyl phthalate	ND		2.0
Di-n-octyl phthalate	ND		2.0
Dibenz(a,h)anthracene	1.9	J	2.0
Dibenz(a,j)acridine	0.33	J	--
Dibenzofuran	0.35	J	2.0
Dibenzothiophene	0.98	J	
Diethyl phthalate	ND		2.0
Dimethyl phthalate	ND		2.0
Diphenylamine	ND		2.0
Ethyl methanesulfonate	ND		2.0
Fluoranthene	32		2.0
Fluorene	1.0	J	2.0
Halogenated Compound	1.8	J	
Halogenated Compound	2.4	J	
Hexachlorobenzene	ND		2.0
Hexachlorobutadiene	ND		2.0
Hexachlorocyclopentadiene	ND		9.7
Hexachloroethane	ND		2.0
Indeno(1,2,3-cd)pyrene	4.6		2.0
Isophorone	ND		2.0
Methyl methanesulfonate	ND		2.0
N-Nitroso-di-n-butylamine	ND		2.0
N-Nitroso-di-n-propylamine	ND		2.0
N-Nitrosodiphenylamine	ND		2.0
N-Nitrosopiperidine	ND		2.0
Naphthalene	ND		2.0
Naphthalene, 1,2,3,4-tetrachloro-	1.9	J	
Naphthalene, 1,2,3,4-tetrachloro-	2.6	J	
Naphthalene, 2,3,6-trichloro-	1.1	J	
Naphthalene, 2,3,6-trichloro-	1.3	J	
Nitrobenzene	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
P-Terphenyl, 2,4,4",6-tetrachloro-	1.7	J	
Pentachlorobenzene	ND		2.0
Pentachloronitrobenzene	ND		9.7
Pentachlorophenol	ND		9.7
Perylene	2.9	J	
Phenacetin	ND		4.0
Phenanthrene	15		2.0
Phenol	ND		2.0
Pronamide	ND		4.0
Pyrene	17		2.0
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		9.7
bis(2-Chloroethoxy)methane	ND		2.0
bis(2-Chloroethyl) ether	ND		2.0
bis(2-Ethylhexyl)phthalate	1.7	J	2.0
p-Dimethylaminoazobenzene	ND		4.0

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.080
4,4'-DDE	ND		0.080
4,4'-DDT	ND		0.080
Aldrin	ND		0.041
Aroclor 1016	ND		0.80
Aroclor 1221	ND		0.80
Aroclor 1232	ND		0.80
Aroclor 1242	ND		0.80
Aroclor 1248	ND		0.80
Aroclor 1254	ND		0.80
Aroclor 1260	ND		0.80
Dieldrin	ND		0.080
Endosulfan I	ND		0.041
Endosulfan II	ND		0.080
Endosulfan sulfate	ND		0.080
Endrin	ND		0.080
Endrin aldehyde	ND		0.080
Heptachlor	ND		0.041
Heptachlor epoxide	ND		0.041
Methoxychlor	ND		0.41
Toxaphene	ND		4.1
alpha-BHC	ND		0.041
alpha-Chlordane	ND		0.041
beta-BHC	ND		0.041
delta-BHC	ND		0.041
gamma-BHC (Lindane)	ND		0.041
gamma-Chlordane	ND		0.041

Matrix : SEDIMENT

Client Description	SC-QE07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0057
1,1,1-Trichloroethane	ND		0.0057
1,1,2,2-Tetrachloroethane	ND		0.0057
1,1,2-Trichloroethane	ND		0.0057
1,1-Dichloroethane	ND		0.0057
1,1-Dichloroethene	ND		0.0057
1,2,3-Trichloropropane	ND		0.0057
1,2-Dichloroethane	ND		0.0057
1,2-Dichloropropane	ND		0.0057
2-Butanone (MEK)	0.0028	J	0.011
2-Chloroethyl vinyl ether	ND		0.011
2-Hexanone	ND		0.011
4-Methyl-2-pentanone (MIBK)	ND		0.011
Acetone	0.011	JB	0.011
Acrolein	ND		0.11
Acrylonitrile	ND		0.11
Benzene	ND		0.0057
Bromodichloromethane	ND		0.0057
Bromoform	ND		0.0057
Bromomethane	ND		0.011
Carbon disulfide	ND		0.0057
Carbon tetrachloride	ND		0.0057
Chlorobenzene	ND		0.0057
Chloroethane	ND		0.011
Chloroform	ND		0.0057
Chloromethane	ND		0.011
Dibromochloromethane	ND		0.0057
Dibromomethane	ND		0.0057
Dichlorodifluoromethane	ND		0.023
Ethanol	ND		0.57
Ethyl methacrylate	ND		0.023
Ethylbenzene	ND		0.0057
Iodomethane	ND		0.0057
Methylene chloride	ND		0.0057
Naphthalene	0.0060	J	
Styrene	0.0045	J	0.0057
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0057
Toluene	ND		0.0057
Trichloroethene	ND		0.0057
Trichlorofluoromethane	ND		0.0057
Vinyl acetate	ND		0.011
Vinyl chloride	ND		0.011
Xylenes (total)	ND		0.0057
cis-1,3-Dichloropropene	ND		0.0057
trans-1,2-Dichloroethene	ND		0.0057
trans-1,3-Dichloropropene	ND		0.0057
trans-1,4-Dichloro-2-butene	ND		0.0057

Matrix : SEDIMENT

Client Description	SC-QE07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1670		22.7
Antimony	ND		13.6
Arsenic	3.2		0.57
Barium	81.6		2.3
Beryllium	ND		0.45
Cadmium	7.4		1.1
Calcium	119000		45.4
Chromium	41.3		2.3
Cobalt	2.8		2.3
Copper	52.5		4.5
Iron	4600		22.7
Lead	24.4		11.3
Magnesium	5790		45.4
Manganese	210		2.3
Mercury	0.10		0.037
Molybdenum	ND		4.5
Nickel	20.9		9.1
Potassium	232	J	1130
Selenium	ND		1.1
Silver	3.9		2.3
Sodium	ND		1130
Thallium	ND		454
Vanadium	8.9		2.3
Zinc	52.4		4.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		1.9
1,2,4-Trichlorobenzene	ND		1.9
1,2-Dichlorobenzene	ND		1.9
1,3-Dichlorobenzene	ND		1.9
1,4-Dichlorobenzene	ND		1.9
1-Chloronaphthalene	ND		9.1
1-Methyl-1-(p-methylphenyl)tetra chlorocyclotriph!	0.79	Jz	
1-Naphthylamine	ND		1.9
10H-Phenothiaphosphine, 7-chloro-2-fluor-10-hydr!	0.97	Jz	
10H-Phenothiaphosphine, 7-chloro-2-fluor-10-hydr!	1.0	Jz	
10H-Phenothiaphosphine, 7-chloro-2-fluor-10-hydr!	2.2	Jz	
2,2'-oxybis(1-chloropropane)	ND		1.9
2,3,4,6-Tetrachlorophenol	ND		9.1
2,4,5-Trichlorophenol	ND		1.9
2,4,6-Trichlorophenol	ND		1.9
2,4-Dichlorophenol	ND		1.9
2,4-Dimethylphenol	ND		1.9
2,4-Dinitrophenol	ND		9.1
2,4-Dinitrotoluene	ND		1.9
2,6-Dichlorophenol	ND		1.9
2,6-Dinitrotoluene	ND		1.9
2-Chloronaphthalene	ND		1.9
2-Chlorophenol	ND		1.9
2-Methylnaphthalene	ND		1.9
2-Methylphenol	ND		1.9
2-Naphthylamine	ND		1.9
2-Nitrophenol	ND		1.9
2-Pentanone, 4-hydroxy-4-methyl-	38	JAB	
2-Picoline	ND		3.7
3,3'-Dichlorobenzidine	ND		9.1
3,3'-Dimethylbenzidine	ND		9.1
3-Methylcholanthrene	ND		3.7
3-Nitroaniline	ND		9.1
3/4-Methylphenol	ND		1.9
4,6-Dinitro-2-methylphenol	ND		9.1
4-Aminobiphenyl	ND		9.1
4-Bromophenyl phenyl ether	ND		1.9

Matrix : SEDIMENT

Client Description	SC-QE07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		1.9
4-Chloroaniline	ND		1.9
4-Chlorophenyl phenyl ether	ND		1.9
4-Nitroaniline	ND		9.1
4-Nitrophenol	ND		9.1
4H-Cyclopenta[def]phenanthrene	2.3	J	
7,12-Dimethylbenz(a)-anthracene	ND		3.7
Acenaphthene	0.72	J	1.9
Acenaphthylene	ND		1.9
Acetophenone	ND		1.9
Aniline	ND		1.9
Anthracene	1.9	J	1.9
Anthracene, 1-methyl-	1.3	J	
Azobenzene	ND		1.9
Benzidine	ND		32
Benzo(a)anthracene	4.7		1.9
Benzo(a)pyrene	4.6	J	
Benzo(a)pyrene	5.0		1.9
Benzo(b)fluoranthene	5.9		1.9
Benzo(g,h,i)perylene	1.9	J	1.9
Benzo(k)fluoranthene	2.9	J	
Benzo(k)fluoranthene	4.8		1.9
Benzoic acid	ND		9.1
Benzyl alcohol	ND		1.9
Butyl benzyl phthalate	ND		1.9
Carbazole	1.4	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	1.1	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	1.3	J	
Chrysene	6.3		1.9
Cyclohexane, 1,3-dimethyl-, cis-	1.7	J	
Di-n-butyl phthalate	ND		1.9
Di-n-octyl phthalate	ND		1.9
Dibenz(a,h)anthracene	0.90	J	1.9
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.43	J	1.9
Diethyl phthalate	ND		1.9
Dimethyl phthalate	ND		1.9
Diphenylamine	ND		1.9
Ethyl methanesulfonate	ND		1.9
Fluoranthene	18		1.9
Fluorene	1.2	J	1.9
Halogenated Compound	1.3	J	
Halogenated Compound	2.2	J	
Hexachlorobenzene	ND		1.9
Hexachlorobutadiene	ND		1.9
Hexachlorocyclopentadiene	ND		9.1
Hexachloroethane	ND		1.9
Imidazole, 4-amino-5-ethyloxycarbonyl-	1.3	J	
Indeno(1,2,3-cd)pyrene	1.9		1.9
Isophorone	ND		1.9
Methyl methanesulfonate	ND		1.9
N-Nitroso-di-n-butylamine	ND		1.9
N-Nitroso-di-n-propylamine	ND		1.9
N-Nitrosodiphenylamine	ND		1.9
N-Nitrosopiperidine	ND		1.9
Naphthalene	ND		1.9
Naphthalene, 1,3,7-trichloro-	0.95	J	
Nitrobenzene	ND		1.9
Pentachlorobenzene	ND		1.9
Pentachloronitrobenzene	ND		9.1
Pentachlorophenol	ND		9.1
Phenacetin	ND		3.7
Phenanthrene	9.6		1.9
Phenol	ND		1.9
Pronamide	ND		3.7
Pyrene	9.6		1.9
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	**SC-QE07-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		9.1
bis(2-Chloroethoxy)methane	ND		1.9
bis(2-Chloroethyl) ether	ND		1.9
bis(2-Ethylhexyl)phthalate	1.3	J	1.9
p-Dimethylaminoazobenzene	ND		3.7

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.75
4,4'-DDE	ND		0.75
4,4'-DDT	ND		0.75
Aldrin	ND		0.39
Aroclor 1016	ND		7.5
Aroclor 1221	ND		7.5
Aroclor 1232	ND		7.5
Aroclor 1242	ND		7.5
Aroclor 1248	ND		7.5
Aroclor 1254	ND		7.5
Aroclor 1260	ND		7.5
Dieldrin	ND		0.75
Endosulfan I	ND		0.39
Endosulfan II	ND		0.75
Endosulfan sulfate	ND		0.75
Endrin	ND		0.75
Endrin aldehyde	ND		0.75
Heptachlor	ND		0.39
Heptachlor epoxide	ND		0.39
Methoxychlor	ND		3.9
Toxaphene	ND		39
alpha-BHC	ND		0.39
alpha-Chlordane	ND		0.39
beta-BHC	ND		0.39
delta-BHC	ND		0.39
gamma-BHC (Lindane)	ND		0.39
gamma-Chlordane	ND		0.39

Matrix : SEDIMENT

Client Description	SC-QE07-SD-903
Sample Depth in feet bgs (Top, Base)	(3.00,3.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0062
1,1,1-Trichloroethane	ND		0.0062
1,1,2,2-Tetrachloroethane	ND		0.0062
1,1,2-Trichloroethane	ND		0.0062
1,1-Dichloroethane	ND		0.0062
1,1-Dichloroethene	ND		0.0062
1,2,3-Trichloropropane	ND		0.0062
1,2-Dichloroethane	ND		0.0062
1,2-Dichloropropane	ND		0.0062
2-Butanone (MEK)	0.0026	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.014	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0062
Bromodichloromethane	ND		0.0062
Bromoform	ND		0.0062
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0062
Carbon tetrachloride	ND		0.0062
Chlorobenzene	ND		0.0062
Chloroethane	ND		0.012
Chloroform	ND		0.0062
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0062
Dibromomethane	ND		0.0062
Dichlorodifluoromethane	ND		0.025
Ethanol	ND		0.62
Ethyl methacrylate	ND		0.025
Ethylbenzene	ND		0.0062
Iodomethane	ND		0.0062
Methylene chloride	ND		0.0062
Naphthalene	0.027	J	
Styrene	ND		0.0062
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0062
Toluene	ND		0.0062
Trichloroethene	ND		0.0062
Trichlorofluoromethane	ND		0.0062
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0062
cis-1,3-Dichloropropene	ND		0.0062
trans-1,2-Dichloroethene	ND		0.0062
trans-1,3-Dichloropropene	ND		0.0062
trans-1,4-Dichloro-2-butene	ND		0.0062

Matrix : SEDIMENT

Client Description	**SC-QE07-SD-903**
Sample Depth in feet bgs (Top, Base)	**(3.00,3.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	4400		12.3
Antimony	ND		7.4
Arsenic	2.1		0.62
Barium	174		1.2
Beryllium	0.28		0.25
Cadmium	3.9		0.62
Calcium	2290		24.7
Chromium	18.0		1.2
Cobalt	2.8		1.2
Copper	10.7		2.5
Iron	7540		12.3
Lead	6.6		6.2
Magnesium	1260		24.7
Manganese	163		1.2
Mercury	0.080		0.041
Molybdenum	ND		2.5
Nickel	12.3		4.9
Potassium	491	J	617
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		617
Thallium	ND		247
Vanadium	13.4		1.2
Zinc	12.1		2.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.41
1,2,4-Trichlorobenzene	ND		0.41
1,2-Dichlorobenzene	ND		0.41
1,3-Dichlorobenzene	ND		0.41
1,4-Dichlorobenzene	ND		0.41
1-Chloronaphthalene	0.10	J	2.0
1-Naphthylamine	ND		0.41
2,2'-oxybis(1-chloropropane)	ND		0.41
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.41
2,4,6-Trichlorophenol	ND		0.41
2,4-Dichlorophenol	ND		0.41
2,4-Dimethylphenol	ND		0.41
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.41
2,6-Dichlorophenol	ND		0.41
2,6-Dinitrotoluene	ND		0.41
2-Chloronaphthalene	ND		0.41
2-Chlorophenol	ND		0.41
2-Methylnaphthalene	ND		0.41
2-Methylphenol	ND		0.41
2-Naphthylamine	ND		0.41
2-Nitrophenol	ND		0.41
2-Pentanone, 4-hydroxy-4-methyl-	23	JAB	
2-Picoline	ND		0.81
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.81
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.41
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.41
4-Chloro-3-methylphenol	ND		0.41
4-Chloroaniline	ND		0.41
4-Chlorophenyl phenyl ether	ND		0.41
4-Nitroaniline	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE07-SD-903
Sample Depth in feet bgs (Top, Base)	(3.00,3.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.81
Acenaphthene	ND		0.41
Acenaphthylene	ND		0.41
Acetophenone	ND		0.41
Aniline	ND		0.41
Anthracene	ND		0.41
Azobenzene	ND		0.41
Benzidine	ND		6.9
Benzo(a)anthracene	0.063	J	0.41
Benzo(a)pyrene	0.054	J	0.41
Benzo(b)fluoranthene	0.044	J	0.41
Benzo(g,h,i)perylene	0.046	J	0.41
Benzo(k)fluoranthene	0.055	J	0.41
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.41
Butyl benzyl phthalate	ND		0.41
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	0.20	J	
Chrysene	0.088	J	0.41
Di-n-butyl phthalate	ND		0.41
Di-n-octyl phthalate	ND		0.41
Dibenz(a,h)anthracene	ND		0.41
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.41
Diethyl phthalate	ND		0.41
Dimethyl phthalate	ND		0.41
Diphenylamine	ND		0.41
Ethyl methanesulfonate	ND		0.41
Fluoranthene	0.30	J	0.41
Fluorene	ND		0.41
Hexachlorobenzene	ND		0.41
Hexachlorobutadiene	ND		0.41
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.41
Indeno(1,2,3-cd)pyrene	ND		0.41
Isophorone	ND		0.41
Methyl methanesulfonate	ND		0.41
N-Nitroso-di-n-butylamine	ND		0.41
N-Nitroso-di-n-propylamine	ND		0.41
N-Nitrosodiphenylamine	ND		0.41
N-Nitrosopiperidine	ND		0.41
Naphthalene	0.11	J	0.41
Nitrobenzene	ND		0.41
Pentachlorobenzene	ND		0.41
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Phenacetin	ND		0.81
Phenanthrene	0.15	J	0.41
Phenol	ND		0.41
Pronamide	ND		0.81
Pyrene	0.22	J	0.41
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	**SC-QE07-SD-903**
Sample Depth in feet bgs (Top, Base)	**(3.00,3.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.41
bis(2-Chloroethyl) ether	ND		0.41
bis(2-Ethylhexyl)phthalate	0.45		0.41
p-Dimethylaminoazobenzene	ND		0.81

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.041
4,4'-DDE	ND		0.041
4,4'-DDT	ND		0.041
Aldrin	ND		0.021
Aroclor 1016	ND		0.41
Aroclor 1221	ND		0.41
Aroclor 1232	ND		0.41
Aroclor 1242	ND		0.41
Aroclor 1248	ND		0.41
Aroclor 1254	ND		0.41
Aroclor 1260	ND		0.41
Dieldrin	ND		0.041
Endosulfan I	ND		0.021
Endosulfan II	ND		0.041
Endosulfan sulfate	ND		0.041
Endrin	ND		0.041
Endrin aldehyde	ND		0.041
Heptachlor	ND		0.021
Heptachlor epoxide	ND		0.021
Methoxychlor	ND		0.21
Toxaphene	ND		2.1
alpha-BHC	ND		0.021
alpha-Chlordane	ND		0.021
beta-BHC	ND		0.021
delta-BHC	ND		0.021
gamma-BHC (Lindane)	ND		0.021
gamma-Chlordane	ND		0.021

Matrix : SEDIMENT

Client Description	SC-QE08-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.012
1,1,1-Trichloroethane	ND		0.012
1,1,2,2-Tetrachloroethane	ND		0.012
1,1,2-Trichloroethane	ND		0.012
1,1-Dichloroethane	ND		0.012
1,1-Dichloroethene	ND		0.012
1,2,3-Trichloropropane	ND		0.012
1,2-Dichloroethane	ND		0.012
1,2-Dichloropropane	ND		0.012
2-Butanone (MEK)	0.047	J	0.024
2-Chloroethyl vinyl ether	ND		0.024
2-Hexanone	ND		0.024
4-Methyl-2-pentanone (MIBK)	ND		0.024
Acetone	0.26	B	0.024
Acrolein	ND		0.24
Acrylonitrile	ND		0.24
Benzene	ND		0.012
Bromodichloromethane	ND		0.012
Bromoform	ND		0.012
Bromomethane	ND		0.024
Carbon disulfide	ND		0.012
Carbon tetrachloride	ND		0.012
Chlorobenzene	0.14		0.012
Chloroethane	ND		0.024
Chloroform	ND		0.012
Chloromethane	ND		0.024
Cyclic Hydrocarbon	0.019	J	
Cyclohexane, 1-methyl-2-propyl-	0.015	J	
Decane, 4-methyl-	0.019	J	
Dibromochloromethane	ND		0.012
Dibromomethane	ND		0.012
Dichlorodifluoromethane	ND		0.049
Ethanol	ND		1.2
Ethyl methacrylate	ND		0.049
Ethylbenzene	ND		0.012
Iodomethane	ND		0.012
Methylene chloride	ND		0.012
Naphthalene, decahydro-, trans-	0.017	J	
Naphthalene, decahydro-2,3-dimethyl-	0.014	J	
Saturated Hydrocarbon	0.014	J	
Saturated Hydrocarbon	0.016	J	
Saturated Hydrocarbon	0.019	J	
Styrene	ND		0.012
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.012
Toluene	ND		0.012
Trichloroethene	ND		0.012
Trichlorofluoromethane	ND		0.012
Vinyl acetate	ND		0.024
Vinyl chloride	ND		0.024
Xylenes (total)	ND		0.012
cis-1,3-Dichloropropene	ND		0.012
trans-1,2-Dichloroethene	ND		0.012
trans-1,3-Dichloropropene	ND		0.012
trans-1,4-Dichloro-2-butene	ND		0.012

Matrix : SEDIMENT

Client Description	**SC-QE08-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	9210		24.4
Antimony	ND		14.7
Arsenic	6.4		1.2
Barium	645		2.4
Beryllium	0.76		0.49
Cadmium	50.1		1.2
Calcium	37000		48.9
Chromium	318		2.4
Cobalt	11.4		2.4
Copper	520		4.9
Iron	14300		24.4
Lead	124		12.2
Magnesium	5040		48.9
Manganese	228		2.4
Mercury	0.40		0.081
Molybdenum	14.2		4.9
Nickel	92.5		9.8
Potassium	1200	J	1220
Selenium	ND		2.4
Silver	6.0		2.4
Sodium	ND		1220
Thallium	ND		489
Vanadium	43.0		2.4
Zinc	466		4.9

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		4.0
1,2,4-Trichlorobenzene	ND		4.0
1,2-Dichlorobenzene	ND		4.0
1,3-Dichlorobenzene	ND		4.0
1,4-Dichlorobenzene	ND		4.0
1-Chloronaphthalene	ND		20
1-Naphthylamine	ND		4.0
2(1H)-Naphthalenone, octahydro-8a -methyl-, cis-	3.7	J	
2,2'-oxybis(1-chloropropane)	ND		4.0
2,3,4,6-Tetrachlorophenol	ND		20
2,4,5-Trichlorophenol	ND		4.0
2,4,6-Trichlorophenol	ND		4.0
2,4-Dichlorophenol	ND		4.0
2,4-Dimethylphenol	ND		4.0
2,4-Dinitrophenol	ND		20
2,4-Dinitrotoluene	ND		4.0
2,6-Dichlorophenol	ND		4.0
2,6-Dinitrotoluene	ND		4.0
2-Chloronaphthalene	ND		4.0
2-Chlorophenol	ND		4.0
2-Methylnaphthalene	ND		4.0
2-Methylphenol	ND		4.0
2-Naphthylamine	ND		4.0
2-Nitrophenol	ND		4.0
2-Pentanone, 4-hydroxy-4-methyl-	81	JAB	
2-Picoline	ND		8.1
3,3'-Dichlorobenzidine	ND		20
3,3'-Dimethylbenzidine	ND		20
3-Methylcholanthrene	ND		8.1
3-Nitroaniline	ND		20
3/4-Methylphenol	ND		4.0
4,6-Dinitro-2-methylphenol	ND		20
4-Aminobiphenyl	ND		20
4-Bromophenyl phenyl ether	ND		4.0
4-Chloro-3-methylphenol	ND		4.0
4-Chloroaniline	ND		4.0
4-Chlorophenyl phenyl ether	ND		4.0

Matrix : SEDIMENT

Client Description	SC-QE08-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitroaniline	ND		20
4-Nitrophenol	ND		20
4-Undecene, 3-methyl-, (Z)-	5.8	J	
7,12-Dimethylbenz(a)-anthracene	ND		8.1
Acenaphthene	0.98	J	4.0
Acenaphthylene	ND		4.0
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	4.6	Jz	
Acetamide, N-methyl-N-[4-[4-methoxy-1-hexahydrop!	6.4	Jz	
Acetophenone	ND		4.0
Aniline	ND		4.0
Anthracene	3.0	J	4.0
Azobenzene	ND		4.0
Benzidine	ND		68
Benzo(a)anthracene	7.3		4.0
Benzo(a)pyrene	7.3		4.0
Benzo(b)fluoranthene	6.6	J	
Benzo(b)fluoranthene	9.6		4.0
Benzo(g,h,i)perylene	4.5		4.0
Benzo(k)fluoranthene	5.9		4.0
Benzoic acid	ND		20
Benzyl alcohol	ND		4.0
Butyl benzyl phthalate	ND		4.0
Chrysene	9.2		4.0
Cyclohexane, (1-ethylpropyl)-	3.4	J	
Cyclohexane, 3,4-bis(1-methylethenyl)-1,1-dimeth!	9.5	Jz	
Cyclopentane, 1-pentyl-2-propyl-	4.5	J	
Di-n-butyl phthalate	ND		4.0
Di-n-octyl phthalate	ND		4.0
Dibenz(a,h)anthracene	1.6	J	4.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.58	J	4.0
Diethyl phthalate	ND		4.0
Dimethyl phthalate	ND		4.0
Diphenylamine	ND		4.0
Dodecane, 2,6,10-trimethyl-	6.8	J	
Eicosane	14	J	
Eicosane	19	J	
Ethyl methanesulfonate	ND		4.0
Fluoranthene	25		4.0
Fluorene	1.4	J	4.0
Heptadecane	6.0	J	
Heptadecane, 2,6,10,15-tetramethyl-	5.0	J	
Hexachlorobenzene	ND		4.0
Hexachlorobutadiene	ND		4.0
Hexachlorocyclopentadiene	ND		20
Hexachloroethane	ND		4.0
Hexacosane	8.8	J	
Hexadecane	4.2	J	
Hexadecane	4.9	J	
Indeno(1,2,3-cd)pyrene	4.3		4.0
Isophorone	ND		4.0
Methyl methanesulfonate	ND		4.0
N-Nitroso-di-n-butylamine	ND		4.0
N-Nitroso-di-n-propylamine	ND		4.0
N-Nitrosodiphenylamine	ND		4.0
N-Nitrosopiperidine	ND		4.0
Naphthalene	ND		4.0
Nitrobenzene	ND		4.0
Nonane, 3-methyl-	8.0	J	
Pentachlorobenzene	ND		4.0
Pentachloronitrobenzene	ND		20
Pentachlorophenol	ND		20
Perylene	7.8	J	
Phenacetin	ND		8.1
Phenanthrene	15		4.0
Phenol	ND		4.0
Pronamide	ND		8.1

Matrix : SEDIMENT

Client Description	SC-QE08-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Pyrene	15		4.0
Tetracosane	2.7	J	
Tetracosane	5.7	J	
Tetracosane	7.7	J	
Tetracosane	8.5	J	
Tetracosane	9.3	J	
Tricosane	14	J	
Tricosane	7.8	J	
Undecane, 2,6-dimethyl-	7.4	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	4.8	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	4.9	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	5.7	Jz	
a,a-Dimethylphenethyl-amine	ND		20
bis(2-Chloroethoxy)methane	ND		4.0
bis(2-Chloroethyl) ether	ND		4.0
bis(2-Ethylhexyl)phthalate	7.5		4.0
p-Dimethylaminoazobenzene	ND		8.1

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.32
4,4'-DDE	ND		0.32
4,4'-DDT	ND		0.32
Aldrin	ND		0.17
Aroclor 1016	ND		3.2
Aroclor 1221	ND		3.2
Aroclor 1232	ND		3.2
Aroclor 1242	ND		3.2
Aroclor 1248	ND		3.2
Aroclor 1254	ND		3.2
Aroclor 1260	ND		3.2
Dieldrin	ND		0.32
Endosulfan I	ND		0.17
Endosulfan II	ND		0.32
Endosulfan sulfate	ND		0.32
Endrin	ND		0.32
Endrin aldehyde	ND		0.32
Heptachlor	ND		0.17
Heptachlor epoxide	ND		0.17
Methoxychlor	ND		1.7
Toxaphene	ND		17
alpha-BHC	ND		0.17
alpha-Chlordane	ND		0.17
beta-BHC	ND		0.17
delta-BHC	ND		0.17
gamma-BHC (Lindane)	ND		0.17
gamma-Chlordane	ND		0.17

Matrix : SEDIMENT

Client Description	**SC-QE08-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.032
1,1,1-Trichloroethane	ND		0.032
1,1,2,2-Tetrachloroethane	ND		0.032
1,1,2-Trichloroethane	ND		0.032
1,1-Dichloroethane	ND		0.032
1,1-Dichloroethene	ND		0.032
1,2,3-Trichloropropane	ND		0.032
1,2-Dichloroethane	ND		0.032
1,2-Dichloropropane	ND		0.032
2-Butanone (MEK)	ND		0.064
2-Chloroethyl vinyl ether	ND		0.064
2-Hexanone	ND		0.064
4-Methyl-2-pentanone (MIBK)	ND		0.064
Acetone	0.062	JB	0.064
Acrolein	ND		0.64
Acrylonitrile	ND		0.64
Benzene	ND		0.032
Benzene, 1-ethyl-2,3-dimethyl-	0.035	J	
Benzene, 2-ethyl-1,3-dimethyl-	0.057	J	
Bromodichloromethane	ND		0.032
Bromoform	ND		0.032
Bromomethane	ND		0.064
Carbon disulfide	ND		0.032
Carbon tetrachloride	ND		0.032
Chlorobenzene	0.91		0.032
Chloroethane	ND		0.064
Chloroform	ND		0.032
Chloromethane	ND		0.064
Cyclic Hydrocarbon	0.044	J	
Cyclohexane, 1,2-diethyl-1-methyl-	0.043	J	
Cyclohexane, methyl-	0.15	J	
Decane, 4-methyl-	0.033	J	
Dibromochloromethane	ND		0.032
Dibromomethane	ND		0.032
Dichlorodifluoromethane	ND		0.13
Ethanol	ND		3.2
Ethyl methacrylate	ND		0.13
Ethylbenzene	ND		0.032
Iodomethane	ND		0.032
Methylene chloride	ND		0.032
Naphthalene, decahydro-	0.047	J	
Styrene	ND		0.032
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.032
Toluene	ND		0.032
Trichloroethene	ND		0.032
Trichlorofluoromethane	ND		0.032
Vinyl acetate	ND		0.064
Vinyl chloride	ND		0.064
Xylenes (total)	ND		0.032
cis-1,3-Dichloropropene	ND		0.032
trans-1,2-Dichloroethene	ND		0.032
trans-1,3-Dichloropropene	ND		0.032
trans-1,4-Dichloro-2-butene	ND		0.032

Matrix : SEDIMENT

Client Description	**SC-QE08-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1940		12.9
Antimony	ND		7.7
Arsenic	3.4		0.64
Barium	168		1.3
Beryllium	ND		0.26
Cadmium	12.2		0.64
Calcium	48600		25.7
Chromium	107		1.3
Cobalt	6.7		1.3
Copper	40.4		2.6
Iron	3420		12.9
Lead	18.5		6.4
Magnesium	1580		25.7
Manganese	108		1.3
Mercury	0.042	J	0.042
Molybdenum	ND		2.6
Nickel	32.9		5.1
Potassium	279	J	643
Selenium	ND		1.3
Silver	1.5		1.3
Sodium	ND		643
Thallium	ND		257
Vanadium	9.8		1.3
Zinc	45.1		2.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.42
1,2,4-Trichlorobenzene	ND		0.42
1,2-Dichlorobenzene	ND		0.42
1,3-Dichlorobenzene	ND		0.42
1,4-Dichlorobenzene	ND		0.42
1-Chloronaphthalene	ND		2.1
1-Naphthylamine	ND		0.42
2,2'-oxybis(1-chloropropane)	ND		0.42
2,3,4,6-Tetrachlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		0.42
2,4,6-Trichlorophenol	ND		0.42
2,4-Dichlorophenol	ND		0.42
2,4-Dimethylphenol	ND		0.42
2,4-Dinitrophenol	ND		2.1
2,4-Dinitrotoluene	ND		0.42
2,6-Dichlorophenol	ND		0.42
2,6-Dinitrotoluene	ND		0.42
2-Chloronaphthalene	ND		0.42
2-Chlorophenol	ND		0.42
2-Methylnaphthalene	ND		0.42
2-Methylphenol	ND		0.42
2-Naphthylamine	ND		0.42
2-Nitrophenol	ND		0.42
2-Pentanone, 4-hydroxy-4-methyl-	22	JAB	
2-Picoline	ND		0.85
3,3'-Dichlorobenzidine	ND		2.1
3,3'-Dimethylbenzidine	ND		2.1
3-Methylcholanthrene	ND		0.85
3-Nitroaniline	ND		2.1
3/4-Methylphenol	ND		0.42
4,6-Dinitro-2-methylphenol	ND		2.1
4-Aminobiphenyl	ND		2.1
4-Bromophenyl phenyl ether	ND		0.42
4-Chloro-3-methylphenol	ND		0.42
4-Chloroaniline	ND		0.42
4-Chlorophenyl phenyl ether	ND		0.42
4-Nitroaniline	ND		2.1

Matrix : SEDIMENT

Client Description	SC-QE08-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		2.1
7,12-Dimethylbenz(a)-anthracene	ND		0.85
Acenaphthene	0.044	J	0.42
Acenaphthylene	ND		0.42
Acetophenone	ND		0.42
Aniline	ND		0.42
Anthracene	0.072	J	0.42
Azobenzene	ND		0.42
Baccharane	0.74	J	
Benzidine	ND		7.2
Benzo(a)anthracene	0.29	J	0.42
Benzo(a)pyrene	0.31	J	0.42
Benzo(b)fluoranthene	0.34	J	0.42
Benzo(g,h,i)perylene	0.15	J	0.42
Benzo(k)fluoranthene	0.28	J	0.42
Benzoic acid	ND		2.1
Benzyl alcohol	ND		0.42
Butyl benzyl phthalate	ND		0.42
Chrysene	0.44		0.42
Cyclohexane, 2-butyl-1,1,3-trimethyl-	0.35	J	
Cyclopentane, 1-methyl-3-(1-methylethyl)-	0.31	J	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.24	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.25	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.40	Jz	
Cyclotriacontane	0.65	J	
Di-n-butyl phthalate	ND		0.42
Di-n-octyl phthalate	ND		0.42
Dibenz(a,h)anthracene	0.057	J	0.42
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.42
Diethyl phthalate	ND		0.42
Dimethyl phthalate	ND		0.42
Diphenylamine	ND		0.42
Dodecane, 2,6,11-trimethyl-	0.56	J	
Eicosane	0.63	J	
Ethyl methanesulfonate	ND		0.42
Fluoranthene	1.3		0.42
Fluorene	0.057	J	0.42
Heptadecane, 2,6-dimethyl-	0.63	J	
Hexachlorobenzene	ND		0.42
Hexachlorobutadiene	ND		0.42
Hexachlorocyclopentadiene	ND		2.1
Hexachloroethane	ND		0.42
Hexadecanoic acid, 2-hydroxy-,methyl ester	0.55	J	
Hexatriacontane	0.75	J	
Indeno(1,2,3-cd)pyrene	0.15	J	0.42
Isooctane, (ethenyloxy)-	0.39	J	
Isophorone	ND		0.42
Methyl methanesulfonate	ND		0.42
N-Nitroso-di-n-butylamine	ND		0.42
N-Nitroso-di-n-propylamine	ND		0.42
N-Nitrosodiphenylamine	ND		0.42
N-Nitrosopiperidine	ND		0.42
Naphthalene	ND		0.42
Naphthalene, decahydro-2,6-dimethyl-	0.35	J	
Nitrobenzene	ND		0.42
Oxirane, hexadecyl-	0.40	J	
Oxygenated Hydrocarbon	0.29	J	
Pentachlorobenzene	ND		0.42
Pentachloronitrobenzene	ND		2.1
Pentachlorophenol	ND		2.1
Phenacetin	ND		0.85
Phenanthrene	0.50		0.42
Phenol	ND		0.42
Pronamide	ND		0.85
Pyrene	0.67		0.42
Undecane, 2,6-dimethyl-	0.51	J	

Matrix : SEDIMENT

Client Description	SC-QE08-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Undecane, 4,6-dimethyl-	0.63	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.41	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.45	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.56	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.59	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.61	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.64	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.70	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.75	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.82	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.4	Jz	
a,a-Dimethylphenethyl-amine	ND		2.1
bis(2-Chloroethoxy)methane	ND		0.42
bis(2-Chloroethyl) ether	ND		0.42
bis(2-Ethylhexyl)phthalate	3.2		0.42
p-Dimethylaminoazobenzene	ND		0.85

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.042
4,4'-DDE	ND		0.042
4,4'-DDT	ND		0.042
Aldrin	ND		0.022
Aroclor 1016	ND		0.42
Aroclor 1221	ND		0.42
Aroclor 1232	ND		0.42
Aroclor 1242	ND		0.42
Aroclor 1248	ND		0.42
Aroclor 1254	ND		0.42
Aroclor 1260	ND		0.42
Dieldrin	ND		0.042
Endosulfan I	ND		0.022
Endosulfan II	ND		0.042
Endosulfan sulfate	ND		0.042
Endrin	ND		0.042
Endrin aldehyde	ND		0.042
Heptachlor	ND		0.022
Heptachlor epoxide	ND		0.022
Methoxychlor	ND		0.22
Toxaphene	ND		2.2
alpha-BHC	ND		0.022
alpha-Chlordane	ND		0.022
beta-BHC	ND		0.022
delta-BHC	ND		0.022
gamma-BHC (Lindane)	ND		0.022
gamma-Chlordane	ND		0.022

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0064
1,1,1-Trichloroethane	ND		0.0064
1,1,2,2-Tetrachloroethane	ND		0.0064
1,1,2-Trichloroethane	ND		0.0064
1,1-Dichloroethane	ND		0.0064
1,1-Dichloroethene	ND		0.0064
1,2,3-Trichloropropane	ND		0.0064
1,2-Dichloroethane	ND		0.0064
1,2-Dichloropropane	ND		0.0064
2-Butanone (MEK)	0.0036	J	0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.016	B	0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0064
Bromodichloromethane	ND		0.0064
Bromoform	ND		0.0064
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0064
Carbon tetrachloride	ND		0.0064
Chlorobenzene	0.0048	J	0.0064
Chloroethane	ND		0.013
Chloroform	ND		0.0064
Chloromethane	ND		0.013
Dibromochloromethane	ND		0.0064
Dibromomethane	ND		0.0064
Dichlorodifluoromethane	ND		0.026
Ethanol	ND		0.64
Ethyl methacrylate	ND		0.026
Ethylbenzene	ND		0.0064
Iodomethane	ND		0.0064
Methylene chloride	ND		0.0064
None Detected	ND		
Styrene	ND		0.0064
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0064
Toluene	ND		0.0064
Trichloroethene	ND		0.0064
Trichlorofluoromethane	ND		0.0064
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0064
cis-1,3-Dichloropropene	ND		0.0064
trans-1,2-Dichloroethene	ND		0.0064
trans-1,3-Dichloropropene	ND		0.0064
trans-1,4-Dichloro-2-butene	ND		0.0064

Matrix : SEDIMENT

Client Description	SC-QE09-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	6060		12.9
Antimony	ND		7.7
Arsenic	2.7		0.64
Barium	726		1.3
Beryllium	0.46		0.26
Cadmium	25.5		0.64
Calcium	7310		25.8
Chromium	236		1.3
Cobalt	6.5		1.3
Copper	26.4		2.6
Iron	12300		12.9
Lead	37.3		6.4
Magnesium	2900		25.8
Manganese	1490		1.3
Mercury	0.17		0.043
Molybdenum	ND		2.6
Nickel	58.7		5.2
Potassium	796		645
Selenium	ND		1.3
Silver	3.1		1.3
Sodium	ND		645
Thallium	ND		258
Vanadium	25.2		1.3
Zinc	48.8		2.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.43
1,2,4-Trichlorobenzene	ND		0.43
1,2-Dichlorobenzene	ND		0.43
1,3-Dichlorobenzene	ND		0.43
1,4-Dichlorobenzene	0.051	J	0.43
1-Chloronaphthalene	ND		2.1
1-Naphthylamine	ND		0.43
17-Pentatriacontene	0.51	J	
17-Pentatriacontene	0.53	J	
2,2'-oxybis(1-chloropropane)	ND		0.43
2,3,4,6-Tetrachlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		0.43
2,4,6-Trichlorophenol	ND		0.43
2,4-Dichlorophenol	ND		0.43
2,4-Dimethylphenol	ND		0.43
2,4-Dinitrophenol	ND		2.1
2,4-Dinitrotoluene	ND		0.43
2,6-Dichlorophenol	ND		0.43
2,6-Dinitrotoluene	ND		0.43
2-Chloronaphthalene	0.22	J	0.43
2-Chlorophenol	ND		0.43
2-Dodecen-1-yl(-)succinic anhydride	0.46	J	
2-Methylnaphthalene	0.064	J	0.43
2-Methylphenol	ND		0.43
2-Naphthylamine	ND		0.43
2-Nitrophenol	ND		0.43
2-Pentanone, 4-hydroxy-4-methyl-	24	JAB	
2-Picoline	ND		0.85
3,3'-Dichlorobenzidine	ND		2.1
3,3'-Dimethylbenzidine	ND		2.1
3-Methylcholanthrene	ND		0.85
3-Nitroaniline	ND		2.1
3-Octadecene, (E)-	0.43	J	
3/4-Methylphenol	ND		0.43
4,6-Dinitro-2-methylphenol	ND		2.1
4-Aminobiphenyl	ND		2.1
4-Bromophenyl phenyl ether	ND		0.43

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		0.43
4-Chloroaniline	ND		0.43
4-Chlorophenyl phenyl ether	ND		0.43
4-Nitroaniline	ND		2.1
4-Nitrophenol	ND		2.1
7,12-Dimethylbenz(a)-anthracene	ND		0.85
7-Amino-2,3-dihydro-5-phenyl-1H-1,4-benzidazepi!	0.57	Jz	
Acenaphthene	ND		0.43
Acenaphthylene	ND		0.43
Acetophenone	ND		0.43
Aniline	ND		0.43
Anthracene	ND		0.43
Azobenzene	ND		0.43
Benzidine	ND		7.2
Benzo(a)anthracene	0.097	J	0.43
Benzo(a)pyrene	0.13	J	0.43
Benzo(b)fluoranthene	0.11	J	0.43
Benzo(g,h,i)perylene	0.094	J	0.43
Benzo(k)fluoranthene	0.13	J	0.43
Benzoic acid	ND		2.1
Benzyl alcohol	ND		0.43
Butyl benzyl phthalate	ND		0.43
Chrysene	0.16	J	0.43
Cyclohexane, (2-methylpropyl)-	0.46	J	
Cyclopentane, 1-hexyl-3-methyl-	1.1	J	
Cyclopentanone, 2-methyl-4-(2-methylpropyl)-	0.77	J	
Decane	0.46	J	
Decane, 3-methyl-	0.57	J	
Di-n-butyl phthalate	ND		0.43
Di-n-octyl phthalate	ND		0.43
Dibenz(a,h)anthracene	ND		0.43
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.43
Diethyl phthalate	ND		0.43
Dimethyl phthalate	ND		0.43
Diphenylamine	ND		0.43
Dodecane, 2,6,10-trimethyl-	0.61	J	
Eicosane	0.66	J	
Ethyl methanesulfonate	ND		0.43
Fluoranthene	0.67		0.43
Fluorene	ND		0.43
Heptadecane, 2,6,10,15-tetramethyl-	0.94	J	
Hexachlorobenzene	ND		0.43
Hexachlorobutadiene	ND		0.43
Hexachlorocyclopentadiene	ND		2.1
Hexachloroethane	ND		0.43
Hexatriacontane	0.37	J	
Indeno(1,2,3-cd)pyrene	0.067	J	0.43
Isophorone	ND		0.43
Methyl methanesulfonate	ND		0.43
N-Nitroso-di-n-butylamine	ND		0.43
N-Nitroso-di-n-propylamine	ND		0.43
N-Nitrosodiphenylamine	ND		0.43
N-Nitrosopiperidine	ND		0.43
Naphthalene	0.046	J	0.43
Nitrobenzene	ND		0.43
Octadecane, 1-chloro-	0.55	J	
Octane, 2,3,7-trimethyl-	0.46	J	
Pentachlorobenzene	ND		0.43
Pentachloronitrobenzene	ND		2.1
Pentachlorophenol	ND		2.1
Pentadecane, 2,6,10,14-tetramethyl-	1.6	J	
Phenacetin	ND		0.85
Phenanthrene	0.24	J	0.43
Phenol	ND		0.43
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	1.7	J	
Pronamide	ND		0.85

Matrix : SEDIMENT

Client Description	SC-QE09-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Pyrene	0.25	J	0.43
Tetradecane, 1-bromo-	0.47	J	
Tridecanol	0.73	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.48	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.60	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.62	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.63	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.83	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.89	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.92	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.1	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.5	Jz	
a,a-Dimethylphenethyl-amine	ND		2.1
bis(2-Chloroethoxy)methane	ND		0.43
bis(2-Chloroethyl) ether	ND		0.43
bis(2-Ethylhexyl)phthalate	3.3		0.43
p-Dimethylaminoazobenzene	ND		0.85

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.17
4,4'-DDE	ND		0.17
4,4'-DDT	ND		0.17
Aldrin	ND		0.088
Aroclor 1016	ND		1.7
Aroclor 1221	ND		1.7
Aroclor 1232	ND		1.7
Aroclor 1242	ND		1.7
Aroclor 1248	ND		1.7
Aroclor 1254	ND		1.7
Aroclor 1260	ND		1.7
Dieldrin	ND		0.17
Endosulfan I	ND		0.088
Endosulfan II	ND		0.17
Endosulfan sulfate	ND		0.17
Endrin	ND		0.17
Endrin aldehyde	ND		0.17
Heptachlor	ND		0.088
Heptachlor epoxide	ND		0.088
Methoxychlor	ND		0.88
Toxaphene	ND		8.8
alpha-BHC	ND		0.088
alpha-Chlordane	ND		0.088
beta-BHC	ND		0.088
delta-BHC	ND		0.088
gamma-BHC (Lindane)	ND		0.088
gamma-Chlordane	ND		0.088

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0062
1,1,1-Trichloroethane	ND		0.0062
1,1,2,2-Tetrachloroethane	ND		0.0062
1,1,2-Trichloroethane	ND		0.0062
1,1-Dichloroethane	ND		0.0062
1,1-Dichloroethene	ND		0.0062
1,2,3-Trichloropropane	ND		0.0062
1,2-Dichloroethane	ND		0.0062
1,2-Dichloropropane	ND		0.0062
2-Bicyclo[4.3.1]decan-10-one	0.022	J	
2-Butanone (MEK)	0.0048	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.019	B	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0062
Bromodichloromethane	ND		0.0062
Bromoform	ND		0.0062
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0062
Carbon tetrachloride	ND		0.0062
Chlorobenzene	0.021		0.0062
Chloroethane	ND		0.012
Chloroform	ND		0.0062
Chloromethane	ND		0.012
Cyclic Hydrocarbon	0.0070	J	
Cyclic Hydrocarbon	0.0079	J	
Cyclic Hydrocarbon	0.025	J	
Cyclohexane, 1,2-diethyl-3-methyl-	0.025	J	
Cyclohexanone, 2-methyl-5-(1-methylethenyl)-, tr!	0.020	Jz	
Decane, 3-methyl-	0.027	J	
Dibromochloromethane	ND		0.0062
Dibromomethane	ND		0.0062
Dichlorodifluoromethane	ND		0.025
Ethanol	ND		0.62
Ethyl methacrylate	ND		0.025
Ethylbenzene	ND		0.0062
Heptane, 4-propyl-	0.0070	J	
Heptane, 5-ethyl-2-methyl-	0.013	J	
Iodomethane	ND		0.0062
Methylene chloride	ND		0.0062
Naphthalene, decahydro-, trans-	0.032	J	
Nonane, 2-methyl-3-methylene-	0.0099	J	
Nonane, 3-methyl-	0.0069	J	
Saturated Hydrocarbon	0.011	J	
Styrene	ND		0.0062
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0062
Toluene	ND		0.0062
Trichloroethene	ND		0.0062
Trichlorofluoromethane	ND		0.0062
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0062
cis-1,3-Dichloropropene	ND		0.0062
trans-1,2-Dichloroethene	ND		0.0062
trans-1,3-Dichloropropene	ND		0.0062
trans-1,4-Dichloro-2-butene	ND		0.0062

Matrix : SEDIMENT

Client Description	SC-QE09-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	4710		12.4
Antimony	ND		7.4
Arsenic	1.4		0.62
Barium	328		1.2
Beryllium	0.35		0.25
Cadmium	7.4		0.62
Calcium	2290		24.7
Chromium	48.4		1.2
Cobalt	4.3		1.2
Copper	9.6		2.5
Iron	7760		12.4
Lead	16.6		6.2
Magnesium	1360		24.7
Manganese	216		1.2
Mercury	0.036	J	0.041
Molybdenum	ND		2.5
Nickel	13.8		4.9
Potassium	581	J	618
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		618
Thallium	ND		247
Vanadium	13.6		1.2
Zinc	29.8		2.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.41
1,2,4-Trichlorobenzene	ND		0.41
1,2-Dichlorobenzene	ND		0.41
1,3-Dichlorobenzene	ND		0.41
1,4-Dichlorobenzene	ND		0.41
1-Chloronaphthalene	0.23	J	2.0
1-Naphthylamine	ND		0.41
2,2'-oxybis(1-chloropropane)	ND		0.41
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.41
2,4,6-Trichlorophenol	ND		0.41
2,4-Dichlorophenol	ND		0.41
2,4-Dimethylphenol	ND		0.41
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.41
2,6-Dichlorophenol	ND		0.41
2,6-Dinitrotoluene	ND		0.41
2-Chloronaphthalene	0.053	J	0.41
2-Chlorophenol	ND		0.41
2-Dodecen-1-yl(-)succinic anhydride	0.18	J	
2-Methylnaphthalene	ND		0.41
2-Methylphenol	ND		0.41
2-Naphthylamine	ND		0.41
2-Nitrophenol	ND		0.41
2-Pentanone, 4-hydroxy-4-methyl-	23	JAB	
2-Picoline	ND		0.82
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.82
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.41
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.41
4-Chloro-3-methylphenol	ND		0.41
4-Chloroaniline	ND		0.41
4-Chlorophenyl phenyl ether	ND		0.41

Matrix : SEDIMENT

Client Description	SC-QE09-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitroaniline	ND		2.0
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.82
Acenaphthene	ND		0.41
Acenaphthylene	ND		0.41
Acetophenone	ND		0.41
Aniline	ND		0.41
Anthracene	ND		0.41
Azobenzene	ND		0.41
Benzidine	ND		6.9
Benzo(a)anthracene	ND		0.41
Benzo(a)pyrene	ND		0.41
Benzo(b)fluoranthene	0.050	J	0.41
Benzo(g,h,i)perylene	0.050	J	0.41
Benzo(k)fluoranthene	ND		0.41
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.41
Butyl benzyl phthalate	ND		0.41
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	0.25	J	
Chrysene	0.062	J	0.41
Di-n-butyl phthalate	ND		0.41
Di-n-octyl phthalate	ND		0.41
Dibenz(a,h)anthracene	ND		0.41
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.41
Diethyl phthalate	ND		0.41
Dimethyl phthalate	ND		0.41
Diphenylamine	ND		0.41
Ethyl methanesulfonate	ND		0.41
Fluoranthene	0.35	J	0.41
Fluorene	ND		0.41
Hexachlorobenzene	ND		0.41
Hexachlorobutadiene	ND		0.41
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.41
Indeno(1,2,3-cd)pyrene	ND		0.41
Isophorone	ND		0.41
Methyl methanesulfonate	ND		0.41
N-Nitroso-di-n-butylamine	ND		0.41
N-Nitroso-di-n-propylamine	ND		0.41
N-Nitrosodiphenylamine	ND		0.41
N-Nitrosopiperidine	ND		0.41
Naphthalene	ND		0.41
Naphthalene, 2,3,6-trichloro-	0.31	J	
Naphthalene, decahydro-2-methyl-	0.19	J	
Nitrobenzene	ND		0.41
Olean-18-ene	0.82	J	
Oxirane, hexadecyl-	0.19	J	
Pentachlorobenzene	ND		0.41
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Pentalene, octahydro-1-(2-octyldecyl)-	0.21	J	
Phenacetin	ND		0.82
Phenanthrene	0.067	J	0.41
Phenol	ND		0.41
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	0.42	J	
Pronamide	ND		0.82
Pyrene	0.11	J	0.41
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Tridecane	0.19	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.20	Jz	
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.41
bis(2-Chloroethyl) ether	ND		0.41
bis(2-Ethylhexyl)phthalate	0.55		0.41
p-Dimethylaminoazobenzene	ND		0.82

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.041
4,4'-DDE	ND		0.041
4,4'-DDT	ND		0.041
Aldrin	ND		0.021
Aroclor 1016	ND		0.41
Aroclor 1221	ND		0.41
Aroclor 1232	ND		0.41
Aroclor 1242	ND		0.41
Aroclor 1248	ND		0.41
Aroclor 1254	ND		0.41
Aroclor 1260	ND		0.41
Dieldrin	ND		0.041
Endosulfan I	ND		0.021
Endosulfan II	ND		0.041
Endosulfan sulfate	ND		0.041
Endrin	ND		0.041
Endrin aldehyde	ND		0.041
Heptachlor	ND		0.021
Heptachlor epoxide	ND		0.021
Methoxychlor	ND		0.21
Toxaphene	ND		2.1
alpha-BHC	ND		0.021
alpha-Chlordane	ND		0.021
beta-BHC	ND		0.021
delta-BHC	ND		0.021
gamma-BHC (Lindane)	ND		0.021
gamma-Chlordane	ND		0.021

Matrix : SEDIMENT

Client Description	SC-QE09-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,2.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0063
1,1,1-Trichloroethane	ND		0.0063
1,1,2,2-Tetrachloroethane	ND		0.0063
1,1,2-Trichloroethane	ND		0.0063
1,1-Dichloroethane	ND		0.0063
1,1-Dichloroethene	ND		0.0063
1,2,3-Trichloropropane	ND		0.0063
1,2-Dichloroethane	ND		0.0063
1,2-Dichloropropane	ND		0.0063
2-Butanone (MEK)	0.0081	J	0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.031	B	0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0063
Bromodichloromethane	ND		0.0063
Bromoform	ND		0.0063
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0063
Carbon tetrachloride	ND		0.0063
Chlorobenzene	0.054		0.0063
Chloroethane	ND		0.013
Chloroform	ND		0.0063
Chloromethane	ND		0.013
Dibromochloromethane	ND		0.0063
Dibromomethane	ND		0.0063
Dichlorodifluoromethane	ND		0.025
Ethanol	ND		0.63
Ethyl methacrylate	ND		0.025
Ethylbenzene	ND		0.0063
Iodomethane	ND		0.0063
Methylene chloride	ND		0.0063
Naphthalene	0.032	J	
Styrene	ND		0.0063
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0063
Toluene	ND		0.0063
Trichloroethene	ND		0.0063
Trichlorofluoromethane	ND		0.0063
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0063
cis-1,3-Dichloropropene	ND		0.0063
trans-1,2-Dichloroethene	ND		0.0063
trans-1,3-Dichloropropene	ND		0.0063
trans-1,4-Dichloro-2-butene	ND		0.0063

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,2.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	2900		12.5
Antimony	ND		7.5
Arsenic	2.3		0.63
Barium	276		1.3
Beryllium	0.29		0.25
Cadmium	51.8		0.63
Calcium	4400		25.1
Chromium	142		1.3
Cobalt	4.4		1.3
Copper	19.8		2.5
Iron	6160		12.5
Lead	55.0		6.3
Magnesium	2160		25.1
Manganese	224		1.3
Mercury	0.10		0.041
Molybdenum	ND		2.5
Nickel	22.6		5.0
Potassium	404	J	627
Selenium	ND		1.3
Silver	2.0		1.3
Sodium	ND		627
Thallium	ND		251
Vanadium	13.7		1.3
Zinc	76.8		2.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.41
1,2,4-Trichlorobenzene	ND		0.41
1,2-Dichlorobenzene	ND		0.41
1,3-Dichlorobenzene	ND		0.41
1,4-Dichlorobenzene	ND		0.41
1-Chlorohexadecane	0.24	J	
1-Chloronaphthalene	ND		2.0
1-Naphthylamine	ND		0.41
2,2'-oxybis(1-chloropropane)	ND		0.41
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.41
2,4,6-Trichlorophenol	ND		0.41
2,4-Dichlorophenol	ND		0.41
2,4-Dimethylphenol	ND		0.41
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.41
2,6-Dichlorophenol	ND		0.41
2,6-Dinitrotoluene	ND		0.41
2-Chloronaphthalene	0.10	J	0.41
2-Chlorophenol	ND		0.41
2-Dodecen-1-yl(-)succinic anhydride	0.21	J	
2-Dodecen-1-yl(-)succinic anhydride	0.29	J	
2-Dodecen-1-yl(-)succinic anhydride	0.32	J	
2-Methylnaphthalene	ND		0.41
2-Methylphenol	ND		0.41
2-Naphthylamine	ND		0.41
2-Nitrophenol	ND		0.41
2-Pentanone, 4-hydroxy-4-methyl-	21	JAB	
2-Picoline	ND		0.83
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.83
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.41
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.41

Matrix : SEDIMENT

Client Description	**SC-QE09-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,2.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		0.41
4-Chloroaniline	ND		0.41
4-Chlorophenyl phenyl ether	ND		0.41
4-Nitroaniline	ND		2.0
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.83
Acenaphthene	0.066	J	0.41
Acenaphthylene	ND		0.41
Acetophenone	ND		0.41
Aniline	ND		0.41
Anthracene	0.079	J	0.41
Azobenzene	ND		0.41
Benzidine	ND		7.0
Benzo(a)anthracene	0.36	J	0.41
Benzo(a)pyrene	0.39	J	0.41
Benzo(b)fluoranthene	0.43	J	
Benzo(b)fluoranthene	0.45		0.41
Benzo(g,h,i)perylene	0.28	J	0.41
Benzo(k)fluoranthene	0.35	J	0.41
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.41
Butyl benzyl phthalate	ND		0.41
Carbazole	0.25	J	
Chromone, 3,5-dibromo-6-hydroxy-2-methyl-	0.26	J	
Chrysene	0.52		0.41
Cyclohexane, 1,4-dimethyl-	0.29	J	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.27	Jz	
Di-n-butyl phthalate	0.044	J	0.41
Di-n-octyl phthalate	ND		0.41
Dibenz(a,h)anthracene	0.095	J	0.41
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.41
Diethyl phthalate	ND		0.41
Dimethyl phthalate	ND		0.41
Diphenylamine	ND		0.41
Ethyl methanesulfonate	ND		0.41
Fluoranthene	1.3		0.41
Fluorene	0.053	J	0.41
Hexachlorobenzene	ND		0.41
Hexachlorobutadiene	ND		0.41
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.41
Indeno(1,2,3-cd)pyrene	0.27	J	0.41
Isophorone	ND		0.41
Methyl methanesulfonate	ND		0.41
N-Nitroso-di-n-butylamine	ND		0.41
N-Nitroso-di-n-propylamine	ND		0.41
N-Nitrosodiphenylamine	ND		0.41
N-Nitrosopiperidine	ND		0.41
Naphthalene	0.28	J	0.41
Naphthalene, 1,3,7-trichloro-	0.44	J	
Naphthalene, decahydro-2-methyl-	0.20	J	
Nitrobenzene	ND		0.41
Oxygenated Hydrocarbon	0.22	J	
Pentachlorobenzene	ND		0.41
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Phenacetin	ND		0.83
Phenanthrene	0.77		0.41
Phenol	ND		0.41
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	0.43	J	
Pronamide	ND		0.83
Pyrene	0.90		0.41
Squalene	0.19	J	
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		

Matrix : SEDIMENT

Client Description	SC-QE09-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,2.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.21	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.24	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.30	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.32	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.34	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.49	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.65	Jz	
a.a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.41
bis(2-Chloroethyl) ether	ND		0.41
bis(2-Ethylhexyl)phthalate	0.27	J	0.41
p-Dimethylaminoazobenzene	ND		0.83

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/22/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.41
4,4'-DDE	ND		0.41
4,4'-DDT	ND		0.41
Aldrin	ND		0.21
Aroclor 1016	ND		4.1
Aroclor 1221	ND		4.1
Aroclor 1232	ND		4.1
Aroclor 1242	ND		4.1
Aroclor 1248	ND		4.1
Aroclor 1254	ND		4.1
Aroclor 1260	ND		4.1
Dieldrin	ND		0.41
Endosulfan I	ND		0.21
Endosulfan II	ND		0.41
Endosulfan sulfate	ND		0.41
Endrin	ND		0.41
Endrin aldehyde	ND		0.41
Heptachlor	ND		0.21
Heptachlor epoxide	ND		0.21
Methoxychlor	ND		2.1
Toxaphene	ND		21
alpha-BHC	ND		0.21
alpha-Chlordane	ND		0.21
beta-BHC	ND		0.21
delta-BHC	ND		0.21
gamma-BHC (Lindane)	ND		0.21
gamma-Chlordane	ND		0.21

Matrix : SEDIMENT

Client Description	SC-QE10-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	0.0029	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.011	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Cyclic Hydrocarbon	0.0066	J	
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.59
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	SC-QE10-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1790		23.8
Antimony	ND		14.3
Arsenic	0.89		0.59
Barium	177		2.4
Beryllium	ND		0.48
Cadmium	3.9		1.2
Calcium	141000		47.6
Chromium	31.6		2.4
Cobalt	1.2	J	2.4
Copper	8.0		4.8
Iron	3730		23.8
Lead	38.1		11.9
Magnesium	4990		47.6
Manganese	191		2.4
Mercury	0.077		0.039
Molybdenum	ND		4.8
Nickel	10.6		9.5
Potassium	262	J	1190
Selenium	ND		1.2
Silver	ND		2.4
Sodium	ND		1190
Thallium	126	J	476
Vanadium	5.3		2.4
Zinc	20.1		4.8

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,2-Dichlorobenzene	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
1-Chlorohexadecane	1.9	J	
1-Chloronaphthalene	ND		9.5
1-Ethyl-2,2,6-trimethylcyclohexane	1.8	J	
1-Hexadecyne	2.5	J	
1-Naphthylamine	ND		2.0
11-Dodecen-1-ol, 2,4,6-trimethyl-,(R,R,R)-	1.5	J	
2,2'-oxybis(1-chloropropane)	ND		2.0
2,3,4,6-Tetrachlorophenol	ND		9.5
2,4,5-Trichlorophenol	ND		2.0
2,4,6-Trichlorophenol	ND		2.0
2,4-Dichlorophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
2,4-Dinitrophenol	ND		9.5
2,4-Dinitrotoluene	ND		2.0
2,6-Dichlorophenol	ND		2.0
2,6-Dinitrotoluene	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Chlorophenol	ND		2.0
2-Methylnaphthalene	ND		2.0
2-Methylphenol	ND		2.0
2-Naphthylamine	ND		2.0
2-Nitrophenol	ND		2.0
2-Pentanone, 4-hydroxy-4-methyl-	39	JAB	
2-Picoline	ND		3.9
3,3'-Dichlorobenzidine	ND		9.5
3,3'-Dimethylbenzidine	ND		9.5
3-Methylcholanthrene	ND		3.9
3-Nitroaniline	ND		9.5
3/4-Methylphenol	ND		2.0
4,6-Dinitro-2-methylphenol	ND		9.5
4-Aminobiphenyl	ND		9.5
4-Bromophenyl phenyl ether	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QE10-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		2.0
4-Chloroaniline	ND		2.0
4-Chlorophenyl phenyl ether	ND		2.0
4-Nitroaniline	ND		9.5
4-Nitrophenol	ND		9.5
7,12-Dimethylbenz(a)-anthracene	ND		3.9
7-Tetradecene, (E)-	1.2	J	
9-Borabicyclo[3.3.1]nonane, 9-hydroxy-	2.1	J	
Acenaphthene	ND		2.0
Acenaphthylene	ND		2.0
Acetophenone	ND		2.0
Aniline	ND		2.0
Anthracene	ND		2.0
Azobenzene	ND		2.0
Benzidine	ND		33
Benzo(a)anthracene	ND		2.0
Benzo(a)pyrene	ND		2.0
Benzo(b)fluoranthene	ND		2.0
Benzo(g,h,i)perylene	ND		2.0
Benzo(k)fluoranthene	ND		2.0
Benzoic acid	ND		9.5
Benzyl alcohol	ND		2.0
Butyl benzyl phthalate	ND		2.0
Chrysene	ND		2.0
Cyclohexane, 2,4-diethyl-1-methyl-	2.1	J	
Cyclopentane, 1,1,3-trimethyl-	1.2	J	
Decane, 2-methyl-	1.7	J	
Decane, 2-methyl-	3.4	J	
Decane, 5-propyl-	2.7	J	
Decanedioic acid, didecyl ester	1.3	J	
Di-n-butyl phthalate	ND		2.0
Di-n-octyl phthalate	ND		2.0
Dibenz(a,h)anthracene	ND		2.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.0
Diethyl phthalate	ND		2.0
Dimethyl phthalate	ND		2.0
Diphenylamine	ND		2.0
Dodecane	2.5	J	
Dodecane, 2,6,10-trimethyl-	1.3	J	
Dodecane, 2,6,11-trimethyl-	2.0	J	
Ethyl methanesulfonate	ND		2.0
Fluoranthene	0.83	J	2.0
Fluorene	ND		2.0
Halogenated Compound	3.0	J	
Hexachlorobenzene	ND		2.0
Hexachlorobutadiene	ND		2.0
Hexachlorocyclopentadiene	ND		9.5
Hexachloroethane	ND		2.0
Indeno(1,2,3-cd)pyrene	ND		2.0
Isophorone	ND		2.0
Methyl methanesulfonate	ND		2.0
N-Nitroso-di-n-butylamine	ND		2.0
N-Nitroso-di-n-propylamine	ND		2.0
N-Nitrosodiphenylamine	ND		2.0
N-Nitrosopiperidine	ND		2.0
Naphthalene	ND		2.0
Nitrobenzene	ND		2.0
Octadecane, 2-methyl-	4.2	J	
Octane, 2,3,7-trimethyl-	1.7	J	
Pentachlorobenzene	ND		2.0
Pentachloronitrobenzene	ND		9.5
Pentachlorophenol	ND		9.5
Phenacetin	ND		3.9
Phenanthrene	ND		2.0
Phenol	ND		2.0
Phenol, 2-(1,1-dimethylethyl)-	3.2	J	

Matrix : SEDIMENT

Client Description	SC-QE10-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Phenol, 4-(2,2,4-trimethylpentyl)-	1.9	J	
Phenol, 4-nonyl-	3.6	J	
Phenol, nonyl-	2.5	J	
Phenol, nonyl-	4.5	J	
Phenol, nonyl-	6.8	J	
Phosphoric acid, 2-ethylhexyl diphenyl ester	2.6	J	
Pronamide	ND		3.9
Pyrene	0.26	J	2.0
Tetradecanal	3.7	J	
Toluene, 4-acetylamino-	2.5	J	
Undecane, 2,6-dimethyl-	2.5	J	
Unsaturated Hydrocarbon	3.3	J	
a,a-Dimethylphenethyl-amine	ND		9.5
bis(2-Chloroethoxy)methane	ND		2.0
bis(2-Chloroethyl) ether	ND		2.0
bis(2-Ethylhexyl)phthalate	5.2		2.0
p-Dimethylaminoazobenzene	ND		3.9

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		7.9
4,4'-DDE	ND		7.9
4,4'-DDT	ND		7.9
Aldrin	ND		4.0
Aroclor 1016	ND		79
Aroclor 1221	ND		79
Aroclor 1232	ND		79
Aroclor 1242	ND		79
Aroclor 1248	ND		79
Aroclor 1254	ND		79
Aroclor 1260	ND		79
Dieldrin	ND		7.9
Endosulfan I	ND		4.0
Endosulfan II	ND		7.9
Endosulfan sulfate	ND		7.9
Endrin	ND		7.9
Endrin aldehyde	ND		7.9
Heptachlor	ND		4.0
Heptachlor epoxide	ND		4.0
Methoxychlor	ND		40
Toxaphene	ND		400
alpha-BHC	ND		4.0
alpha-Chlordane	ND		4.0
beta-BHC	ND		4.0
delta-BHC	ND		4.0
gamma-BHC (Lindane)	ND		4.0
gamma-Chlordane	ND		4.0

Matrix : SEDIMENT

Client Description	SC-QE10-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	0.0052	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.021	B	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	0.0013	J	0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	**SC-QE10-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	3030		11.9
Antimony	ND		7.2
Arsenic	1.3		0.60
Barium	176		1.2
Beryllium	ND		0.24
Cadmium	7.8		0.60
Calcium	66800		23.9
Chromium	57.8		1.2
Cobalt	2.2		1.2
Copper	19.0		2.4
Iron	4050		11.9
Lead	45.5		6.0
Magnesium	5220		23.9
Manganese	192		1.2
Mercury	0.036	J	0.039
Molybdenum	ND		2.4
Nickel	12.8		4.8
Potassium	393	J	597
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		597
Thallium	54.6	J	239
Vanadium	7.6		1.2
Zinc	47.2		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
	1.3	J	
1,2,4,5-Tetrachloro-benzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,2-Dichlorobenzene	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
1-Chloronaphthalene	ND		9.6
1-Naphthylamine	ND		2.0
2,2'-oxybis(1-chloropropane)	ND		2.0
2,3,4,6-Tetrachlorophenol	ND		9.6
2,4,5-Trichlorophenol	ND		2.0
2,4,6-Trichlorophenol	ND		2.0
2,4-Dichlorophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
2,4-Dinitrophenol	ND		9.6
2,4-Dinitrotoluene	ND		2.0
2,6-Dichlorophenol	ND		2.0
2,6-Dinitrotoluene	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Chlorophenol	ND		2.0
2-Methylnaphthalene	ND		2.0
2-Methylphenol	ND		2.0
2-Naphthylamine	ND		2.0
2-Nitrophenol	ND		2.0
2-Pentanone, 4-hydroxy-4-methyl-	44	JAB	
2-Picoline	ND		3.9
3,3'-Dichlorobenzidine	ND		9.6
3,3'-Dimethylbenzidine	ND		9.6
3-Methylcholanthrene	ND		3.9
3-Nitroaniline	ND		9.6
3/4-Methylphenol	ND		2.0
4,6-Dinitro-2-methylphenol	ND		9.6
4-Aminobiphenyl	ND		9.6
4-Bromophenyl phenyl ether	ND		2.0
4-Chloro-3-methylphenol	ND		2.0
4-Chloroaniline	ND		2.0
4-Chlorophenyl phenyl ether	ND		2.0

Matrix : SEDIMENT

Client Description	**SC-QE10-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitroaniline	ND		9.6
4-Nitrophenol	ND		9.6
7,12-Dimethylbenz(a)-anthracene	ND		3.9
Acenaphthene	ND		2.0
Acenaphthylene	ND		2.0
Acetamide, N-(2,6-dimethylphenyl)-	1.8	J	
Acetophenone	ND		2.0
Aniline	ND		2.0
Anthracene	ND		2.0
Azobenzene	ND		2.0
Benzidine	ND		33
Benzo(a)anthracene	ND		2.0
Benzo(a)pyrene	ND		2.0
Benzo(b)fluoranthene	ND		2.0
Benzo(g,h,i)perylene	ND		2.0
Benzo(k)fluoranthene	ND		2.0
Benzoic acid	ND		9.6
Benzyl alcohol	ND		2.0
Butyl benzyl phthalate	ND		2.0
Chrysene	ND		2.0
Di-n-butyl phthalate	ND		2.0
Di-n-octyl phthalate	ND		2.0
Dibenz(a,h)anthracene	ND		2.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.0
Diethyl phthalate	ND		2.0
Dimethyl phthalate	ND		2.0
Diphenylamine	ND		2.0
Ethyl methanesulfonate	ND		2.0
Fluoranthene	0.53	J	2.0
Fluorene	ND		2.0
Hexachlorobenzene	ND		2.0
Hexachlorobutadiene	ND		2.0
Hexachlorocyclopentadiene	ND		9.6
Hexachloroethane	ND		2.0
Indeno(1,2,3-cd)pyrene	ND		2.0
Isophorone	ND		2.0
Methyl methanesulfonate	ND		2.0
N-Nitroso-di-n-butylamine	ND		2.0
N-Nitroso-di-n-propylamine	ND		2.0
N-Nitrosodiphenylamine	ND		2.0
N-Nitrosopiperidine	ND		2.0
Naphthalene	ND		2.0
Nitrobenzene	ND		2.0
Pentachlorobenzene	ND		2.0
Pentachloronitrobenzene	ND		9.6
Pentachlorophenol	ND		9.6
Phenacetin	ND		3.9
Phenanthrene	ND		2.0
Phenol	ND		2.0
Phenol, 4-(1,1-dimethylpropyl)-	1.9	J	
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	0.91	J	
Phenol, nonyl-	1.5	J	
Phenol, nonyl-	1.6	J	
Phenol, nonyl-	1.9	J	
Phenol, nonyl-	2.3	J	
Pronamide	ND		3.9
Pyrene	0.28	J	2.0
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		

Matrix : SEDIMENT

Client Description	**SC-QE10-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Toluene, 4-acetylamino-	2.4	J	
a,a-Dimethylphenethyl-amine	ND		9.6
bis(2-Chloroethoxy)methane	ND		2.0
bis(2-Chloroethyl) ether	ND		2.0
bis(2-Ethylhexyl)phthalate	1.1	J	2.0
p-Dimethylaminoazobenzene	ND		3.9

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.39
4,4'-DDE	ND		0.39
4,4'-DDT	ND		0.39
Aldrin	ND		0.20
Aroclor 1016	ND		3.9
Aroclor 1221	ND		3.9
Aroclor 1232	ND		3.9
Aroclor 1242	ND		3.9
Aroclor 1248	ND		3.9
Aroclor 1254	ND		3.9
Aroclor 1260	ND		3.9
Dieldrin	ND		0.39
Endosulfan I	ND		0.20
Endosulfan II	ND		0.39
Endosulfan sulfate	ND		0.39
Endrin	ND		0.39
Endrin aldehyde	ND		0.39
Heptachlor	ND		0.20
Heptachlor epoxide	ND		0.20
Methoxychlor	ND		2.0
Toxaphene	ND		20
alpha-BHC	ND		0.20
alpha-Chlordane	ND		0.20
beta-BHC	ND		0.20
delta-BHC	ND		0.20
gamma-BHC (Lindane)	ND		0.20
gamma-Chlordane	ND		0.20

Matrix : SEDIMENT

Client Description	SC-QE10-SD-903
Sample Depth in feet bgs (Top, Base)	(0.00,3.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.0058	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	**SC-QE10-SD-903**
Sample Depth in feet bgs (Top, Base)	**(0.00,3.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	6830		12.0
Antimony	ND		7.2
Arsenic	1.4		0.60
Barium	184		1.2
Beryllium	ND		0.24
Cadmium	2.4		0.60
Calcium	26200		24.0
Chromium	31.3		1.2
Cobalt	3.9		1.2
Copper	7.6		2.4
Iron	9650		12.0
Lead	13.0		6.0
Magnesium	2690		24.0
Manganese	185		1.2
Mercury	0.045		0.040
Molybdenum	ND		2.4
Nickel	18.7		4.8
Potassium	964		601
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		601
Thallium	46.3	J	240
Vanadium	17.8		1.2
Zinc	18.1		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.40
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	ND		0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	28	JAB	
2-Picoline	ND		0.79
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.79
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		1.9

Matrix : SEDIMENT

Client Description	SC-QE10-SD-903
Sample Depth in feet bgs (Top, Base)	(0.00,3.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.79
Acenaphthene	ND		0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	ND		0.40
Azobenzene	ND		0.40
Benzene, 1-methoxy-4-pentyl-	0.22	J	
Benzidine	ND		6.7
Benzo(a)anthracene	ND		0.40
Benzo(a)pyrene	ND		0.40
Benzo(b)fluoranthene	ND		0.40
Benzo(g,h,i)perylene	ND		0.40
Benzo(k)fluoranthene	ND		0.40
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Chrysene	ND		0.40
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	ND		0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Ethanoic acid, S-methyl ester	0.66	J	
Ethyl methanesulfonate	ND		0.40
Fluoranthene	0.14	J	0.40
Fluorene	ND		0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.40
Indeno(1,2,3-cd)pyrene	ND		0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	ND		0.40
Nitrobenzene	ND		0.40
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.79
Phenanthrene	ND		0.40
Phenol	ND		0.40
Phenol, 4-nonyl-	0.28	J	
Phenol, 4-nonyl-	0.42	J	
Phenol, chloro-4-(1,1-dimethylethyl)-,acetate	0.29	J	
Phenol, nonyl-	0.31	J	
Pronamide	ND		0.79
Pyrene	ND		0.40
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QE10-SD-903
Sample Depth in feet bgs (Top, Base)	(0.00,3.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	0.31	J	0.40
p-Dimethylaminoazobenzene	ND		0.79

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.079
4,4'-DDE	ND		0.079
4,4'-DDT	ND		0.079
Aldrin	ND		0.041
Aroclor 1016	ND		0.79
Aroclor 1221	ND		0.79
Aroclor 1232	ND		0.79
Aroclor 1242	ND		0.79
Aroclor 1248	ND		0.79
Aroclor 1254	ND		0.79
Aroclor 1260	ND		0.79
Dieldrin	ND		0.079
Endosulfan I	ND		0.041
Endosulfan II	ND		0.079
Endosulfan sulfate	ND		0.079
Endrin	ND		0.079
Endrin aldehyde	ND		0.079
Heptachlor	ND		0.041
Heptachlor epoxide	ND		0.041
Methoxychlor	ND		0.41
Toxaphene	ND		4.1
alpha-BHC	ND		0.041
alpha-Chlordane	ND		0.041
beta-BHC	ND		0.041
delta-BHC	ND		0.041
gamma-BHC (Lindane)	ND		0.041
gamma-Chlordane	ND		0.041

Matrix : SEDIMENT

Client Description	**SC-QE11-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	0.0046	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.016	B	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	0.0038	J	0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	SC-QE11-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	4360		12.0
Antimony	ND		7.2
Arsenic	2.3		0.60
Barium	3200		1.2
Beryllium	ND		0.24
Cadmium	25.2		0.60
Calcium	52900		24.0
Chromium	220		1.2
Cobalt	7.0		1.2
Copper	34.2		2.4
Iron	14400		12.0
Lead	42.3		6.0
Magnesium	27100		24.0
Manganese	1780		1.2
Mercury	0.098		0.040
Molybdenum	5.7		2.4
Nickel	96.5		4.8
Potassium	662		601
Selenium	ND		1.2
Silver	5.8		1.2
Sodium	ND		601
Thallium	71.2	J	240
Vanadium	19.1		1.2
Zinc	91.5		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	0.046	J	1.9
1-Naphthylamine	ND		0.40
1H-Indene, 5-butyl-6-hexyloctahydro-	0.19	J	
1H-Indene, 5-butyl-6-hexyloctahydro-	0.23	J	
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Dodecen-1-yl(-)succinic anhydride	0.24	J	
2-Methylnaphthalene	ND		0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Nonylphenol	1.1	J	
2-Pentanone, 4-hydroxy-4-methyl-	5.0	JAB	
2-Picoline	ND		0.79
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.79
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.40

Matrix : SEDIMENT

Client Description	**SC-QE11-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		1.9
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.79
Acenaphthene	ND		0.40
Acenaphthylene	ND		0.40
Acetamide, N-(3-methylphenyl)-	1.0	J	
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	ND		0.40
Azobenzene	ND		0.40
Benzidine	ND		6.7
Benzo(a)anthracene	ND		0.40
Benzo(a)pyrene	ND		0.40
Benzo(b)fluoranthene	ND		0.40
Benzo(g,h,i)perylene	ND		0.40
Benzo(k)fluoranthene	ND		0.40
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Cholestan-3-one, 4,4-dimethyl-,(5.alpha.)-	0.35	J	
Chrysene	0.044	J	0.40
Cyclohexane, 1,3-dimethyl-, cis-	0.19	J	
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	ND		0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Ethyl methanesulfonate	ND		0.40
Fluoranthene	0.29	J	0.40
Fluorene	ND		0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.40
Hexadecanoic acid, 2-hydroxy-,methyl ester	0.27	J	
Indeno(1,2,3-cd)pyrene	ND		0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	ND		0.40
Naphthalene, 1,2,3,4-tetrachloro-	0.21	J	
Nitrobenzene	ND		0.40
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.79
Phenanthrene	ND		0.40
Phenol	ND		0.40
Phenol, 2,4-bis(1-methylethyl)-	0.75	J	
Phenol, 2-methyl-5-(1-methylethyl)-	1.4	J	
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	0.31	J	
Phenol, 4-(1,1-dimethylpropyl)-	1.1	J	
Phenol, 4-nonyl-	1.7	J	
Phenol, nonyl-	0.53	J	
Phenol, nonyl-	0.65	J	
Phenol, nonyl-	0.95	J	
Phenol, nonyl-	1.3	J	
Phenol, nonyl-	1.6	J	

Matrix : SEDIMENT

Client Description	**SC-QE11-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Pronamide	ND		0.79
Propane, 1,3-bis(ethylthio)-	0.21	J	
Propane, 1,3-bis(ethylthio)-	0.28	J	
Pyrene	0.085	J	0.40
Sterol	0.19	J	
Sterol	0.43	J	
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Tetracosane	0.27	J	
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	0.80		0.40
p-Dimethylaminoazobenzene	ND		0.79

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.040
4,4'-DDE	ND		0.040
4,4'-DDT	ND		0.040
Aldrin	ND		0.020
Aroclor 1016	ND		0.40
Aroclor 1221	ND		0.40
Aroclor 1232	ND		0.40
Aroclor 1242	ND		0.40
Aroclor 1248	ND		0.40
Aroclor 1254	ND		0.40
Aroclor 1260	ND		0.40
Dieldrin	ND		0.040
Endosulfan I	ND		0.020
Endosulfan II	ND		0.040
Endosulfan sulfate	ND		0.040
Endrin	ND		0.040
Endrin aldehyde	ND		0.040
Heptachlor	ND		0.020
Heptachlor epoxide	ND		0.020
Methoxychlor	ND		0.20
Toxaphene	ND		2.0
alpha-BHC	ND		0.020
alpha-Chlordane	ND		0.020
beta-BHC	ND		0.020
delta-BHC	ND		0.020
gamma-BHC (Lindane)	ND		0.020
gamma-Chlordane	ND		0.020

Matrix : SEDIMENT

Client Description	SC-QE11-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0058
1,1,1-Trichloroethane	ND		0.0058
1,1,2,2-Tetrachloroethane	ND		0.0058
1,1,2-Trichloroethane	ND		0.0058
1,1-Dichloroethane	ND		0.0058
1,1-Dichloroethene	ND		0.0058
1,2,3-Trichloropropane	ND		0.0058
1,2-Dichloroethane	ND		0.0058
1,2-Dichloropropane	ND		0.0058
2-Butanone (MEK)	0.0043	J	0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.019	B	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0058
Bicyclo[2.2.1]heptane, 2-butyl-	0.0066	J	
Bromodichloromethane	ND		0.0058
Bromoform	ND		0.0058
Bromomethane	ND		0.012
Carbon disulfide	0.0045	J	0.0058
Carbon tetrachloride	ND		0.0058
Chlorobenzene	ND		0.0058
Chloroethane	ND		0.012
Chloroform	ND		0.0058
Chloromethane	ND		0.012
Cyclic Hydrocarbon	0.0076	J	
Dibromochloromethane	ND		0.0058
Dibromomethane	ND		0.0058
Dichlorodifluoromethane	ND		0.023
Ethanol	ND		0.58
Ethyl methacrylate	ND		0.023
Ethylbenzene	ND		0.0058
Iodomethane	ND		0.0058
Methylene chloride	ND		0.0058
Oxygenated Hydrocarbon	0.0090	J	
Styrene	ND		0.0058
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0058
Toluene	ND		0.0058
Trichloroethene	ND		0.0058
Trichlorofluoromethane	ND		0.0058
Unknown	0.0096	J	
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0058
cis-1,3-Dichloropropene	ND		0.0058
trans-1,2-Dichloroethene	ND		0.0058
trans-1,3-Dichloropropene	ND		0.0058
trans-1,4-Dichloro-2-butene	ND		0.0058

Matrix : SEDIMENT

Client Description	SC-QE11-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	2880		11.6
Antimony	ND		6.9
Arsenic	4.7		0.58
Barium	1790		1.2
Beryllium	ND		0.23
Cadmium	10.2		0.58
Calcium	96700		23.1
Chromium	125		1.2
Cobalt	8.1		1.2
Copper	23.0		2.3
Iron	18500		11.6
Lead	30.4		5.8
Magnesium	22000		23.1
Manganese	1890		1.2
Mercury	0.10		0.038
Molybdenum	7.2		2.3
Nickel	64.7		4.6
Potassium	435	J	578
Selenium	ND		1.2
Silver	3.4		1.2
Sodium	ND		578
Thallium	39.3	J	231
Vanadium	15.3		1.2
Zinc	45.5		2.3

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.38
1,2,4-Trichlorobenzene	ND		0.38
1,2-Benzenedicarboxylic acid, bis(1-methylethyl)!	0.26	Jz	
1,2-Dichlorobenzene	ND		0.38
1,3-Cyclohexadiene-1-carboxylic acid, 2,6,6-tri!	0.62	Jz	
1,3-Dichlorobenzene	ND		0.38
1,4-Dichlorobenzene	ND		0.38
1-Chloronaphthalene	0.049	J	1.8
1-Hentetracontanol	0.16	J	
1-Naphthylamine	ND		0.38
2(1H)-Naphthalenone, octahydro-4a,7,7-trimethyl-!	0.22	Jz	
2,2'-oxybis(1-chloropropane)	ND		0.38
2,3,4,6-Tetrachlorophenol	ND		1.8
2,4,5-Trichlorophenol	ND		0.38
2,4,6-Trichlorophenol	ND		0.38
2,4-Dichlorophenol	ND		0.38
2,4-Dimethylphenol	ND		0.38
2,4-Dinitrophenol	ND		1.8
2,4-Dinitrotoluene	ND		0.38
2,6-Dichlorophenol	ND		0.38
2,6-Dinitrotoluene	ND		0.38
2-Chloronaphthalene	ND		0.38
2-Chlorophenol	ND		0.38
2-Dodecen-1-yl(-)succinic anhydride	0.17	J	
2-Methylnaphthalene	ND		0.38
2-Methylphenol	ND		0.38
2-Naphthylamine	ND		0.38
2-Nitrophenol	ND		0.38
2-Nonylphenol	0.92	J	
2-Pentanone, 4-hydroxy-4-methyl-	6.0	JAB	
2-Picoline	ND		0.76
3,3'-Dichlorobenzidine	ND		1.8
3,3'-Dimethylbenzidine	ND		1.8
3-Methylcholanthrene	ND		0.76
3-Nitroaniline	ND		1.8
3/4-Methylphenol	ND		0.38
4,6-Dinitro-2-methylphenol	ND		1.8

Matrix : SEDIMENT

Client Description	SC-QE11-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Aminobiphenyl	ND		1.8
4-Bromophenyl phenyl ether	ND		0.38
4-Chloro-3-methylphenol	ND		0.38
4-Chloroaniline	ND		0.38
4-Chlorophenyl phenyl ether	ND		0.38
4-Nitroaniline	ND		1.8
4-Nitrophenol	ND		1.8
6-Octenal, 3,7-dimethyl, (R)-	0.26	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.76
Acenaphthene	ND		0.38
Acenaphthylene	ND		0.38
Acetophenone	ND		0.38
Aniline	ND		0.38
Anthracene	ND		0.38
Azobenzene	ND		0.38
Benzidine	ND		6.5
Benzo(a)anthracene	ND		0.38
Benzo(a)pyrene	ND		0.38
Benzo(b)fluoranthene	0.040	J	0.38
Benzo(g,h,i)perylene	ND		0.38
Benzo(k)fluoranthene	0.039	J	0.38
Benzoic acid	ND		1.8
Benzyl alcohol	ND		0.38
Butyl benzyl phthalate	ND		0.38
Chrysene	0.047	J	0.38
Cyclohexane, 1,3-dimethyl-, cis-	0.21	J	
Di-n-butyl phthalate	ND		0.38
Di-n-octyl phthalate	ND		0.38
Dibenz(a,h)anthracene	ND		0.38
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.38
Diethyl phthalate	ND		0.38
Dimethyl phthalate	ND		0.38
Diphenylamine	ND		0.38
Ethanoic acid, S-methyl ester	0.35	J	
Ethyl methanesulfonate	ND		0.38
Fluoranthene	0.30	J	0.38
Fluorene	ND		0.38
Hexachlorobenzene	ND		0.38
Hexachlorobutadiene	ND		0.38
Hexachlorocyclopentadiene	ND		1.8
Hexachloroethane	ND		0.38
Hexadecanoic acid, 2-hydroxy-,methyl ester	0.33	J	
Indeno(1,2,3-cd)pyrene	ND		0.38
Isophorone	ND		0.38
Methyl methanesulfonate	ND		0.38
N-Nitroso-di-n-butylamine	ND		0.38
N-Nitroso-di-n-propylamine	ND		0.38
N-Nitrosodiphenylamine	ND		0.38
N-Nitrosopiperidine	ND		0.38
Naphthalene	ND		0.38
Naphthalene, 2,7-dichloro-	0.18	J	
Nitrobenzene	ND		0.38
Octadecane, 1-bromo-	0.30	J	
Oxygenated Hydrocarbon	0.17	J	
Oxygenated Hydrocarbon	0.24	J	
Pentachlorobenzene	ND		0.38
Pentachloronitrobenzene	ND		1.8
Pentachlorophenol	ND		1.8
Phenacetin	ND		0.76
Phenanthrene	0.064	J	0.38
Phenol	ND		0.38
Phenol, 2-(1,1-dimethylethyl)-	1.5	J	
Phenol, 2-(1,1-dimethylethyl)-5-methyl-	0.85	J	
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	0.29	J	
Phenol, 4-(1,1-dimethylpropyl)-	1.0	J	
Phenol, 4-(1,1-dimethylpropyl)-	1.1	J	

Matrix : SEDIMENT

Client Description	SC-QE11-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Phenol, nonyl-	0.49	J	
Phenol, nonyl-	0.69	J	
Phenol, nonyl-	0.96	J	
Phenol, nonyl-	1.4	J	
Pronamide	ND		0.76
Pyrene	0.11	J	0.38
Saturated Hydrocarbon	0.44	J	
Silane, chlorotripropyl-	0.70	J	
Sterol	0.31	J	
TID Compound 29	ND		
TID Compound 30	ND		
Tridecane	0.37	J	
a,a-Dimethylphenethyl-amine	ND		1.8
bis(2-Chloroethoxy)methane	ND		0.38
bis(2-Chloroethyl) ether	ND		0.38
bis(2-Ethylhexyl)phthalate	4.9		0.38
p-Dimethylaminoazobenzene	ND		0.76

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.076
4,4'-DDE	ND		0.076
4,4'-DDT	ND		0.076
Aldrin	ND		0.039
Aroclor 1016	ND		0.76
Aroclor 1221	ND		0.76
Aroclor 1232	ND		0.76
Aroclor 1242	ND		0.76
Aroclor 1248	ND		0.76
Aroclor 1254	ND		0.76
Aroclor 1260	ND		0.76
Dieldrin	ND		0.076
Endosulfan I	ND		0.039
Endosulfan II	ND		0.076
Endosulfan sulfate	ND		0.076
Endrin	ND		0.076
Endrin aldehyde	ND		0.076
Heptachlor	ND		0.039
Heptachlor epoxide	ND		0.039
Methoxychlor	ND		0.39
Toxaphene	ND		3.9
alpha-BHC	ND		0.039
alpha-Chlordane	ND		0.039
beta-BHC	ND		0.039
delta-BHC	ND		0.039
gamma-BHC (Lindane)	ND		0.039
gamma-Chlordane	ND		0.039

Matrix : SEDIMENT

Client Description	**SC-QW01-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0063
1,1,1-Trichloroethane	ND		0.0063
1,1,2,2-Tetrachloroethane	ND		0.0063
1,1,2-Trichloroethane	ND		0.0063
1,1-Dichloroethane	ND		0.0063
1,1-Dichloroethene	ND		0.0063
1,2,3-Trichloropropane	ND		0.0063
1,2-Dichloroethane	ND		0.0063
1,2-Dichloropropane	ND		0.0063
2-Butanone (MEK)	ND		0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	ND		0.013
Acrolein	ND		0.13
Acrylonitrile	0.0015	J	0.13
Benzene	ND		0.0063
Bromodichloromethane	ND		0.0063
Bromoform	ND		0.0063
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0063
Carbon tetrachloride	ND		0.0063
Chlorobenzene	ND		0.0063
Chloroethane	ND		0.013
Chloroform	ND		0.0063
Chloromethane	ND		0.013
Dibromochloromethane	ND		0.0063
Dibromomethane	ND		0.0063
Dichlorodifluoromethane	ND		0.025
Ethanol	ND		0.63
Ethyl methacrylate	ND		0.025
Ethylbenzene	ND		0.0063
Iodomethane	ND		0.0063
Methylene chloride	0.0016	J	0.0063
None Detected	ND		
Styrene	ND		0.0063
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0063
Toluene	ND		0.0063
Trichloroethene	ND		0.0063
Trichlorofluoromethane	ND		0.0063
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0063
cis-1,3-Dichloropropene	ND		0.0063
trans-1,2-Dichloroethene	ND		0.0063
trans-1,3-Dichloropropene	ND		0.0063
trans-1,4-Dichloro-2-butene	ND		0.0063

Matrix : SEDIMENT

Client Description	SC-QW01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	14200		12.7
Antimony	ND		7.6
Arsenic	2.3		0.63
Barium	437		1.3
Beryllium	1.1		0.25
Cadmium	5.3		0.63
Calcium	34200		25.4
Chromium	32.6		1.3
Cobalt	9.3		1.3
Copper	24.1		2.5
Iron	14700		12.7
Lead	50.6		6.3
Magnesium	8460		25.4
Manganese	585		1.3
Mercury	0.039	J	0.042
Molybdenum	ND		2.5
Nickel	33.9		5.1
Potassium	2090		635
Selenium	ND		0.63
Silver	2.2		1.3
Sodium	ND		635
Thallium	65.3	J	254
Vanadium	25.2		1.3
Zinc	81.5		2.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
.Psi..psi.-Carotene, 7,7',8,8',11,11',12,12',1!	0.17	Jz	
1,2,4,5-Tetrachloro-benzene	ND		0.42
1,2,4-Trichlorobenzene	ND		0.42
1,2-Dichlorobenzene	ND		0.42
1,3-Dichlorobenzene	ND		0.42
1,4-Dichlorobenzene	ND		0.42
1-Chloronaphthalene	ND		2.0
1-Naphthalene, decahydro-4a-methyl-1-methylene-!	0.59	Jz	
1-Naphthylamine	ND		0.42
1H-Cycloprop[E]azulene, decahydro-1,1,7-trimethyl!	0.57	Jz	
2,2'-oxybis(1-chloropropane)	ND		0.42
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.42
2,4,6-Trichlorophenol	ND		0.42
2,4-Dichlorophenol	ND		0.42
2,4-Dimethylphenol	ND		0.42
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.42
2,6-Dichlorophenol	ND		0.42
2,6-Dinitrotoluene	ND		0.42
2-Chloronaphthalene	ND		0.42
2-Chlorophenol	ND		0.42
2-Methylnaphthalene	ND		0.42
2-Methylphenol	ND		0.42
2-Naphthylamine	ND		0.42
2-Nitrophenol	ND		0.42
2-Pentanone, 4-hydroxy-4-methyl-	7.0	JAB	
2-Picoline	ND		0.84
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.84
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.42
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.42
4-Chloro-3-methylphenol	ND		0.42

Matrix : SEDIMENT

Client Description	**SC-QW01-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloroaniline	ND		0.42
4-Chlorophenyl phenyl ether	ND		0.42
4-Nitroaniline	ND		2.0
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.84
Acenaphthene	ND		0.42
Acenaphthylene	ND		0.42
Acetophenone	ND		0.42
Aniline	ND		0.42
Anthracene	ND		0.42
Azobenzene	ND		0.42
Benzidine	ND		7.1
Benzo(a)anthracene	0.055	J	0.42
Benzo(a)pyrene	0.073	J	0.42
Benzo(b)fluoranthene	0.088	J	0.42
Benzo(g,h,i)perylene	0.046	J	0.42
Benzo(k)fluoranthene	0.096	J	0.42
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.42
Butyl benzyl phthalate	ND		0.42
Chrysene	0.076	J	0.42
Cyclohexane, 1,3-dimethyl-, cis-	0.34	J	
Di-n-butyl phthalate	0.20	J	0.42
Di-n-octyl phthalate	ND		0.42
Dibenz(a,h)anthracene	ND		0.42
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.42
Diethyl phthalate	ND		0.42
Dimethyl phthalate	ND		0.42
Diphenylamine	ND		0.42
Ergost-22-en-3-ol, (3.beta.,5.alpha.,22E,24R)-	0.38	J	
Ethyl methanesulfonate	ND		0.42
Fluoranthene	0.14	J	0.42
Fluorene	ND		0.42
Hexachlorobenzene	ND		0.42
Hexachlorobutadiene	ND		0.42
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.42
Indeno(1,2,3-cd)pyrene	ND		0.42
Isophorone	ND		0.42
Methyl methanesulfonate	ND		0.42
N-Nitroso-di-n-butylamine	ND		0.42
N-Nitroso-di-n-propylamine	ND		0.42
N-Nitrosodiphenylamine	ND		0.42
N-Nitrosopiperidine	ND		0.42
Naphthalene	ND		0.42
Nitrobenzene	ND		0.42
Pentachlorobenzene	ND		0.42
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Phenacetin	ND		0.84
Phenanthrene	0.049	J	0.42
Phenol	ND		0.42
Pronamide	ND		0.84
Pyrene	0.13	J	0.42
Saturated Hydrocarbon	0.21	J	
Saturated Hydrocarbon	0.25	J	
Saturated Hydrocarbon	0.29	J	
Saturated Hydrocarbon	0.35	J	
Saturated Hydrocarbon	0.40	J	
Saturated Hydrocarbon	0.48	J	
Stigmast-4-en-3-one	0.34	J	
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		

Matrix : SEDIMENT

Client Description	SC-QW01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.42
bis(2-Chloroethyl) ether	ND		0.42
bis(2-Ethylhexyl)phthalate	0.083	J	0.42
p-Dimethylaminoazobenzene	ND		0.84

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0042
4,4'-DDE	ND		0.0042
4,4'-DDT	ND		0.0042
Aldrin	ND		0.0022
Aroclor 1016	ND		0.042
Aroclor 1221	ND		0.042
Aroclor 1232	ND		0.042
Aroclor 1242	ND		0.042
Aroclor 1248	ND		0.042
Aroclor 1254	ND		0.042
Aroclor 1260	ND		0.042
Dieldrin	ND		0.0042
Endosulfan I	ND		0.0022
Endosulfan II	ND		0.0042
Endosulfan sulfate	ND		0.0042
Endrin	ND		0.0042
Endrin aldehyde	ND		0.0042
Heptachlor	ND		0.0022
Heptachlor epoxide	ND		0.0022
Methoxychlor	ND		0.022
Toxaphene	ND		0.22
alpha-BHC	ND		0.0022
alpha-Chlordane	ND		0.0022
beta-BHC	ND		0.0022
delta-BHC	ND		0.0022
gamma-BHC (Lindane)	ND		0.0022
gamma-Chlordane	ND		0.0022

Matrix : SEDIMENT

Client Description	**SC-QW01-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	ND		0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	0.0017	J	0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	SC-QW01-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	12400		12.0
Antimony	ND		7.2
Arsenic	1.7		0.60
Barium	197		1.2
Beryllium	0.80		0.24
Cadmium	ND		0.60
Calcium	20300		23.9
Chromium	16.1		1.2
Cobalt	8.0		1.2
Copper	18.6		2.4
Iron	12800		12.0
Lead	7.2		6.0
Magnesium	10600		23.9
Manganese	517		1.2
Mercury	ND		0.040
Molybdenum	ND		2.4
Nickel	18.8		4.8
Potassium	2050		599
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		599
Thallium	53.9	J	239
Vanadium	16.2		1.2
Zinc	50.3		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.40
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	ND		0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	6.7	JAB	
2-Picoline	ND		0.79
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.79
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		1.9

Matrix : SEDIMENT

Client Description	**SC-QW01-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.79
Acenaphthene	ND		0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	ND		0.40
Azobenzene	ND		0.40
Benzidine	ND		6.7
Benzo(a)anthracene	ND		0.40
Benzo(a)pyrene	ND		0.40
Benzo(b)fluoranthene	ND		0.40
Benzo(g,h,i)perylene	ND		0.40
Benzo(k)fluoranthene	ND		0.40
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Chrysene	ND		0.40
Cyclohexane, 1,3-dimethyl-, cis-	0.33	J	
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	ND		0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Ethyl methanesulfonate	ND		0.40
Fluoranthene	ND		0.40
Fluorene	ND		0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.40
Indeno(1,2,3-cd)pyrene	ND		0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	ND		0.40
Nitrobenzene	ND		0.40
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.79
Phenanthrene	ND		0.40
Phenol	ND		0.40
Pronamide	ND		0.79
Pyrene	ND		0.40
Siloxane	0.17	J	
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QW01-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	ND		0.40
p-Dimethylaminoazobenzene	ND		0.79

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0040
4,4'-DDE	ND		0.0040
4,4'-DDT	ND		0.0040
Aldrin	ND		0.0020
Aroclor 1016	ND		0.040
Aroclor 1221	ND		0.040
Aroclor 1232	ND		0.040
Aroclor 1242	ND		0.040
Aroclor 1248	ND		0.040
Aroclor 1254	ND		0.040
Aroclor 1260	ND		0.040
Dieldrin	ND		0.0040
Endosulfan I	ND		0.0020
Endosulfan II	ND		0.0040
Endosulfan sulfate	ND		0.0040
Endrin	ND		0.0040
Endrin aldehyde	ND		0.0040
Heptachlor	ND		0.0020
Heptachlor epoxide	ND		0.0020
Methoxychlor	ND		0.020
Toxaphene	ND		0.20
alpha-BHC	ND		0.0020
alpha-Chlordane	ND		0.0020
beta-BHC	ND		0.0020
delta-BHC	ND		0.0020
gamma-BHC (Lindane)	ND		0.0020
gamma-Chlordane	ND		0.0020

Matrix : SEDIMENT

Client Description	**SC-QW01-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,1.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0059
1,1,1-Trichloroethane	ND		0.0059
1,1,2,2-Tetrachloroethane	ND		0.0059
1,1,2-Trichloroethane	ND		0.0059
1,1-Dichloroethane	ND		0.0059
1,1-Dichloroethene	ND		0.0059
1,2,3-Trichloropropane	ND		0.0059
1,2-Dichloroethane	ND		0.0059
1,2-Dichloropropane	ND		0.0059
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.0050	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Aromatic Hydrocarbon	0.0060	J	
Benzene	ND		0.0059
Bromodichloromethane	ND		0.0059
Bromoform	ND		0.0059
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0059
Carbon tetrachloride	ND		0.0059
Chlorobenzene	ND		0.0059
Chloroethane	ND		0.012
Chloroform	ND		0.0059
Chloromethane	ND		0.012
Cyclic Hydrocarbon	0.018	J	
Dibromochloromethane	ND		0.0059
Dibromomethane	ND		0.0059
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.59
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0059
Iodomethane	ND		0.0059
Methylene chloride	ND		0.0059
Saturated Hydrocarbon	0.0060	J	
Saturated Hydrocarbon	0.016	J	
Styrene	ND		0.0059
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0059
Toluene	ND		0.0059
Trichloroethene	ND		0.0059
Trichlorofluoromethane	ND		0.0059
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0059
cis-1,3-Dichloropropene	ND		0.0059
trans-1,2-Dichloroethene	ND		0.0059
trans-1,3-Dichloropropene	ND		0.0059
trans-1,4-Dichloro-2-butene	ND		0.0059

Matrix : SEDIMENT

Client Description	SC-QW01-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	17400		11.8
Antimony	ND		7.1
Arsenic	0.62		0.59
Barium	67.4		1.2
Beryllium	1.5		0.24
Cadmium	ND		0.59
Calcium	27000		23.7
Chromium	19.5		1.2
Cobalt	13.3		1.2
Copper	37.3		2.4
Iron	18300		11.8
Lead	8.1		5.9
Magnesium	23400		23.7
Manganese	1080		1.2
Mercury	ND		0.039
Molybdenum	ND		2.4
Nickel	32.9		4.7
Potassium	3520		592
Selenium	ND		1.2
Silver	ND		1.2
Sodium	495	J	592
Thallium	64.9	J	237
Vanadium	17.3		1.2
Zinc	39.4		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.39
1,2,4-Trichlorobenzene	ND		0.39
1,2-Dichlorobenzene	ND		0.39
1,3-Dichlorobenzene	ND		0.39
1,4-Dichlorobenzene	ND		0.39
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.39
2,2'-oxybis(1-chloropropane)	ND		0.39
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.39
2,4,6-Trichlorophenol	ND		0.39
2,4-Dichlorophenol	ND		0.39
2,4-Dimethylphenol	ND		0.39
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.39
2,6-Dichlorophenol	ND		0.39
2,6-Dinitrotoluene	ND		0.39
2-Chloronaphthalene	ND		0.39
2-Chlorophenol	ND		0.39
2-Methylnaphthalene	ND		0.39
2-Methylphenol	ND		0.39
2-Naphthylamine	ND		0.39
2-Nitrophenol	ND		0.39
2-Pentanone, 4-hydroxy-4-methyl-	5.0	JAB	
2-Picoline	ND		0.78
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.78
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.39
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.39
4-Chloro-3-methylphenol	ND		0.39
4-Chloroaniline	ND		0.39
4-Chlorophenyl phenyl ether	ND		0.39
4-Nitroaniline	ND		1.9

Matrix : SEDIMENT

Client Description	SC-QW01-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.78
Acenaphthene	ND		0.39
Acenaphthylene	ND		0.39
Acetophenone	ND		0.39
Aniline	ND		0.39
Anthracene	ND		0.39
Azobenzene	ND		0.39
Benzidine	ND		6.6
Benzo(a)anthracene	ND		0.39
Benzo(a)pyrene	ND		0.39
Benzo(b)fluoranthene	ND		0.39
Benzo(g,h,i)perylene	ND		0.39
Benzo(k)fluoranthene	ND		0.39
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.39
Butyl benzyl phthalate	ND		0.39
Chrysene	ND		0.39
Cyclohexane, 1,3-dimethyl-, cis-	0.18	J	
Di-n-butyl phthalate	ND		0.39
Di-n-octyl phthalate	ND		0.39
Dibenz(a,h)anthracene	ND		0.39
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.39
Diethyl phthalate	ND		0.39
Dimethyl phthalate	ND		0.39
Diphenylamine	ND		0.39
Ethyl methanesulfonate	ND		0.39
Fluoranthene	ND		0.39
Fluorene	ND		0.39
Hexachlorobenzene	ND		0.39
Hexachlorobutadiene	ND		0.39
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.39
Indeno(1,2,3-cd)pyrene	ND		0.39
Isophorone	ND		0.39
Methyl methanesulfonate	ND		0.39
N-Nitroso-di-n-butylamine	ND		0.39
N-Nitroso-di-n-propylamine	ND		0.39
N-Nitrosodiphenylamine	ND		0.39
N-Nitrosopiperidine	ND		0.39
Naphthalene	ND		0.39
Nitrobenzene	ND		0.39
Pentachlorobenzene	ND		0.39
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.78
Phenanthrene	ND		0.39
Phenol	ND		0.39
Pronamide	ND		0.78
Pyrene	ND		0.39
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QW01-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,1.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.39
bis(2-Chloroethyl) ether	ND		0.39
bis(2-Ethylhexyl)phthalate	ND		0.39
p-Dimethylaminoazobenzene	ND		0.78

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0039
4,4'-DDE	ND		0.0039
4,4'-DDT	ND		0.0039
Aldrin	ND		0.0020
Aroclor 1016	ND		0.039
Aroclor 1221	ND		0.039
Aroclor 1232	ND		0.039
Aroclor 1242	ND		0.039
Aroclor 1248	ND		0.039
Aroclor 1254	ND		0.039
Aroclor 1260	ND		0.039
Dieldrin	ND		0.0039
Endosulfan I	ND		0.0020
Endosulfan II	ND		0.0039
Endosulfan sulfate	ND		0.0039
Endrin	ND		0.0039
Endrin aldehyde	ND		0.0039
Heptachlor	ND		0.0020
Heptachlor epoxide	ND		0.0020
Methoxychlor	ND		0.020
Toxaphene	ND		0.20
alpha-BHC	ND		0.0020
alpha-Chlordane	ND		0.0020
beta-BHC	ND		0.0020
delta-BHC	ND		0.0020
gamma-BHC (Lindane)	ND		0.0020
gamma-Chlordane	ND		0.0020

Matrix : SEDIMENT

Client Description	**SC-QW02-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.017
1,1,1-Trichloroethane	ND		0.017
1,1,2,2-Tetrachloroethane	ND		0.017
1,1,2-Trichloroethane	ND		0.017
1,1-Dichloroethane	ND		0.017
1,1-Dichloroethene	ND		0.017
1,2,3-Trichloropropane	ND		0.017
1,2-Dichloroethane	ND		0.017
1,2-Dichloropropane	ND		0.017
1-Decene	0.017	J	
2-Butanone (MEK)	0.014	J	0.033
2-Chloroethyl vinyl ether	ND		0.033
2-Hexanone	ND		0.033
4-Methyl-2-pentanone (MIBK)	ND		0.033
Acetone	0.059	J	0.033
Acrolein	ND		0.33
Acrylonitrile	ND		0.33
Benzene	ND		0.017
Benzene, 1-ethyl-3,5-dimethyl-	0.028	J	
Benzene, 1-ethyl-3-(1-methylethyl)-	0.023	J	
Bromodichloromethane	ND		0.017
Bromoform	ND		0.017
Bromomethane	ND		0.033
Carbon disulfide	ND		0.017
Carbon tetrachloride	ND		0.017
Chlorobenzene	ND		0.017
Chloroethane	ND		0.033
Chloroform	ND		0.017
Chloromethane	0.0040	J	0.033
Cyclic Hydrocarbon	0.10	J	
Dibromochloromethane	ND		0.017
Dibromomethane	ND		0.017
Dichlorodifluoromethane	ND		0.066
Ethanol	ND		1.7
Ethyl methacrylate	ND		0.066
Ethylbenzene	ND		0.017
Iodomethane	ND		0.017
Methylene chloride	0.0050	J	0.017
Oxygenated Hydrocarbon	0.044	J	
Saturated Hydrocarbon	0.11	J	
Saturated Hydrocarbon	0.16	J	
Styrene	ND		0.017
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.017
Toluene	ND		0.017
Trichloroethene	ND		0.017
Trichlorofluoromethane	ND		0.017
Unknown	0.041	J	
Vinyl acetate	ND		0.033
Vinyl chloride	ND		0.033
Xylenes (total)	ND		0.017
cis-1,3-Dichloropropene	ND		0.017
trans-1,2-Dichloroethene	ND		0.017
trans-1,3-Dichloropropene	ND		0.017
trans-1,4-Dichloro-2-butene	ND		0.017

Matrix : SEDIMENT

Client Description	SC-QW02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	22700		33.1
Antimony	ND		19.9
Arsenic	4.7		1.7
Barium	676		3.3
Beryllium	1.7		0.66
Cadmium	40.3		1.7
Calcium	45100		66.2
Chromium	744		3.3
Cobalt	19.5		3.3
Copper	201		6.6
Iron	24400		33.1
Lead	202		16.6
Magnesium	14800		66.2
Manganese	677		3.3
Mercury	0.38		0.11
Molybdenum	18.6		6.6
Nickel	685		13.2
Potassium	2730		1660
Selenium	1.3	J	3.3
Silver	24.8		3.3
Sodium	ND		1660
Thallium	127	J	662
Vanadium	82.1		3.3
Zinc	1180		6.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.2
1,2,4-Trichlorobenzene	ND		2.2
1,2-Dichlorobenzene	ND		2.2
1,3-Dichlorobenzene	ND		2.2
1,3-Dioxolane, 4-ethyl-5-octyl-2,2-bis(trifluoro!	1.5	Jz	
1,4-Dichlorobenzene	ND		2.2
1-Chloronaphthalene	ND		11
1-Hexacosene	3.6	J	
1-Naphthylamine	ND		2.2
1H-Indene, 5-butyl-6-hexyloctahydro-	2.3	J	
1H-Indene, 5-butyl-6-hexyloctahydro-	3.8	J	
2(1H)-Naphthalenone, octahydro-4a,7,7-trimethyl-!	1.6	Jz	
2(1H)-Naphthalenone, octahydro-4a,7,7-trimethyl-!	4.1	Jz	
2,2'-oxybis(1-chloropropane)	ND		2.2
2,3,4,6-Tetrachlorophenol	ND		11
2,4,5-Trichlorophenol	ND		2.2
2,4,6-Trichlorophenol	ND		2.2
2,4-Dichlorophenol	ND		2.2
2,4-Dimethylphenol	ND		2.2
2,4-Dinitrophenol	ND		11
2,4-Dinitrotoluene	ND		2.2
2,6-Dichlorophenol	ND		2.2
2,6-Dinitrotoluene	ND		2.2
2,6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-methy!	1.9	Jz	
2-Butanone, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl!	1.6	J	
2-Chloronaphthalene	ND		2.2
2-Chlorophenol	ND		2.2
2-Dodecen-1-yl(-)succinic anhydride	1.8	J	
2-Dodecen-1-yl(-)succinic anhydride	1.9	J	
2-Dodecen-1-yl(-)succinic anhydride	3.8	J	
2-Dodecen-1-yl(-)succinic anhydride	4.2	J	
2-Methylnaphthalene	ND		2.2
2-Methylphenol	ND		2.2
2-Naphthylamine	ND		2.2
2-Nitrophenol	ND		2.2
2-Pentanone, 4-hydroxy-4-methyl-	21	JAB	
2-Picoline	ND		4.4

Matrix : SEDIMENT

Client Description	SC-QW02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
28-Nor-17.alpha.(H)-hopane	2.1	J	
3,3'-Dichlorobenzidine	ND		11
3,3'-Dimethylbenzidine	ND		11
3-Eicosene, (E)-	1.4	J	
3-Methylcholanthrene	ND		4.4
3-Nitroaniline	ND		11
3/4-Methylphenol	ND		2.2
4,6-Dinitro-2-methylphenol	ND		11
4-Aminobiphenyl	ND		11
4-Bromophenyl phenyl ether	ND		2.2
4-Chloro-3-methylphenol	ND		2.2
4-Chloroaniline	ND		2.2
4-Chlorophenyl phenyl ether	ND		2.2
4-Nitroaniline	ND		11
4-Nitrophenol	ND		11
5-Octadecene, (E)-	3.8	J	
7,12-Dimethylbenz(a)-anthracene	ND		4.4
Acenaphthene	ND		2.2
Acenaphthylene	ND		2.2
Acetophenone	ND		2.2
Aniline	ND		2.2
Anthracene	ND		2.2
Azobenzene	ND		2.2
Benzidine	ND		37
Benzo(a)anthracene	1.3	J	2.2
Benzo(a)pyrene	1.7	J	2.2
Benzo(b)fluoranthene	1.9	J	2.2
Benzo(g,h,i)perylene	0.84	J	2.2
Benzo(k)fluoranthene	2.4		2.2
Benzoic acid	ND		11
Benzyl alcohol	ND		2.2
Butyl benzyl phthalate	ND		2.2
Chrysene	1.7	J	2.2
Cyclohexane,1,2,4,5-tetraethyl-, (1.alpha.,2.alp!	3.2	Jz	
Cyclopentane, 1,1'-[3-(2-cyclopentylethyl)-1,5-p!	1.5	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	1.3	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	3.1	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	3.7	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	4.3	Jz	
Di-n-butyl phthalate	ND		2.2
Di-n-octyl phthalate	ND		2.2
Dibenz(a,h)anthracene	0.22	J	2.2
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.2
Diethyl phthalate	ND		2.2
Dimethyl phthalate	ND		2.2
Diphenylamine	ND		2.2
Ethyl methanesulfonate	ND		2.2
Fluoranthene	2.6		2.2
Fluorene	ND		2.2
Hexachlorobenzene	ND		2.2
Hexachlorobutadiene	ND		2.2
Hexachlorocyclopentadiene	ND		11
Hexachloroethane	ND		2.2
Hexadecanoic acid, 2-hydroxy-,methyl ester	1.3	J	
Indeno(1,2,3-cd)pyrene	0.81	J	2.2
Isophorone	ND		2.2
Longifolenaldehyde	1.7	J	
Methyl methanesulfonate	ND		2.2
N-Nitroso-di-n-butylamine	ND		2.2
N-Nitroso-di-n-propylamine	ND		2.2
N-Nitrosodiphenylamine	ND		2.2
N-Nitrosopiperidine	ND		2.2
Naphthalene	ND		2.2
Nitrobenzene	ND		2.2
Pentachlorobenzene	ND		2.2
Pentachloronitrobenzene	ND		11

Matrix : SEDIMENT

Client Description	SC-QW02-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorophenol	ND		11
Phenacetin	ND		4.4
Phenanthrene	1.2	J	2.2
Phenol	ND		2.2
Pronamide	ND		4.4
Pyrene	2.4		2.2
Stannane, chlorotris(2-methylpropyl)-	3.9	J	
Stigmast-5-en-3-ol-, (3.beta.,24S)-	6.9	J	
Urs-20-en-16-ol, (16.beta.,18.alpha.,19.alpha.)-	2.9	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.5	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.9	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.4	Jz	
a,a-Dimethylphenethyl-amine	ND		11
bis(2-Chloroethoxy)methane	ND		2.2
bis(2-Chloroethyl) ether	ND		2.2
bis(2-Ethylhexyl)phthalate	1.3	J	2.2
p-Dimethylaminoazobenzene	ND		4.4

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.022
4,4'-DDE	ND		0.022
4,4'-DDT	ND		0.022
Aldrin	0.0067	MJ	0.011
Aldrin	0.037	d	0.011
Aroclor 1016	ND		0.22
Aroclor 1221	ND		0.22
Aroclor 1232	ND		0.22
Aroclor 1242	ND		0.22
Aroclor 1248	ND		0.22
Aroclor 1254	ND		0.22
Aroclor 1260	ND		0.22
Dieldrin	ND		0.022
Endosulfan I	ND		0.011
Endosulfan II	ND		0.022
Endosulfan sulfate	ND		0.022
Endrin	ND		0.022
Endrin aldehyde	ND		0.022
Heptachlor	ND		0.011
Heptachlor epoxide	0.72	d	0.011
Heptachlor epoxide	ND	M	0.011
Methoxychlor	ND		0.11
Toxaphene	ND		1.1
alpha-BHC	ND		0.011
alpha-Chlordane	ND		0.011
beta-BHC	ND		0.011
delta-BHC	0.014	d	0.011
delta-BHC	ND	M	0.011
gamma-BHC (Lindane)	ND		0.011
gamma-Chlordane	ND		0.011

Matrix : SEDIMENT

Client Description	SC-QW02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0065
1,1,1-Trichloroethane	ND		0.0065
1,1,2,2-Tetrachloroethane	ND		0.0065
1,1,2-Trichloroethane	ND		0.0065
1,1-Dichloroethane	ND		0.0065
1,1-Dichloroethene	ND		0.0065
1,2,3-Trichloropropane	ND		0.0065
1,2-Dichloroethane	ND		0.0065
1,2-Dichloropropane	ND		0.0065
2-Butanone (MEK)	0.0073	J	0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.027		0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0065
Bromodichloromethane	ND		0.0065
Bromoform	ND		0.0065
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0065
Carbon tetrachloride	ND		0.0065
Chlorobenzene	ND		0.0065
Chloroethane	ND		0.013
Chloroform	ND		0.0065
Chloromethane	ND		0.013
Cyclic Hydrocarbon	0.0073	J	
Cyclic Hydrocarbon	0.010	J	
Cyclic Hydrocarbon	0.012	J	
Cyclohexane, 1,1,3,5-tetramethyl-,trans-	0.0081	J	
Cylohexane, 1,3,5-trimethyl-	0.0069	J	
Dibromochloromethane	ND		0.0065
Dibromomethane	ND		0.0065
Dichlorodifluoromethane	ND		0.026
Ethanol	ND		0.65
Ethyl methacrylate	ND		0.026
Ethylbenzene	ND		0.0065
Heptane, 3-ethyl-2-methyl-	0.014	J	
Iodomethane	ND		0.0065
Methylene chloride	0.0018	J	0.0065
Saturated Hydrocarbon	0.011	J	
Saturated Hydrocarbon	0.015	J	
Saturated Hydrocarbon	0.020	J	
Styrene	ND		0.0065
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0065
Toluene	0.018		0.0065
Trichloroethene	ND		0.0065
Trichlorofluoromethane	ND		0.0065
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0065
cis-1,3-Dichloropropene	ND		0.0065
trans-1,2-Dichloroethene	ND		0.0065
trans-1,3-Dichloropropene	ND		0.0065
trans-1,4-Dichloro-2-butene	ND		0.0065

Matrix : SEDIMENT

Client Description	**SC-QW02-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	5020		12.9
Antimony	ND		7.7
Arsenic	1.8		1.3
Barium	179		1.3
Beryllium	0.29		0.26
Cadmium	2.3		0.65
Calcium	5180		25.8
Chromium	79.3		1.3
Cobalt	5.3		1.3
Copper	11.7		2.6
Iron	6660		12.9
Lead	9.7		6.5
Magnesium	2270		25.8
Manganese	70.2		1.3
Mercury	0.081		0.043
Molybdenum	3.4		2.6
Nickel	57.8		5.2
Potassium	735		645
Selenium	ND		0.65
Silver	0.87	J	1.3
Sodium	ND		645
Thallium	ND		258
Vanadium	117		1.3
Zinc	44.8		2.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
(Z)14-Tricosenyl formate	3.2	J	
1,2,4,5-Tetrachloro-benzene	ND		2.1
1,2,4-Trichlorobenzene	ND		2.1
1,2-Dichlorobenzene	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
1-Chloronaphthalene	ND		10
1-Naphthylamine	ND		2.1
1H-Indene, 5-butyl-6-hexyloctahydro-	2.4	J	
2,2'-oxybis(1-chloropropane)	ND		2.1
2,3,4,6-Tetrachlorophenol	ND		10
2,4,5-Trichlorophenol	ND		2.1
2,4,6-Trichlorophenol	ND		2.1
2,4-Dichlorophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
2,4-Dinitrophenol	ND		10
2,4-Dinitrotoluene	ND		2.1
2,6-Dichlorophenol	ND		2.1
2,6-Dinitrotoluene	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Chlorophenol	ND		2.1
2-Dodecen-1-yl(-)succinic anhydride	4.9	J	
2-Methylnaphthalene	ND		2.1
2-Methylphenol	ND		2.1
2-Naphthylamine	ND		2.1
2-Nitrophenol	ND		2.1
2-Pentanone, 4-hydroxy-4-methyl-	7.6	JAB	
2-Picoline	ND		4.3
28-Nor-17.alpha.(H)-hopane	2.1	J	
3,3'-Dichlorobenzidine	ND		10
3,3'-Dimethylbenzidine	ND		10
3,5-Decadiene,2,2-dimethyl-, (Z,Z)-	1.9	J	
3-Methylcholanthrene	ND		4.3
3-Nitroaniline	ND		10
3/4-Methylphenol	ND		2.1
4,6-Dinitro-2-methylphenol	ND		10
4-Aminobiphenyl	ND		10

Matrix : SEDIMENT

Client Description	**SC-QW02-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Bromophenyl phenyl ether	ND		2.1
4-Chloro-3-methylphenol	ND		2.1
4-Chloroaniline	ND		2.1
4-Chlorophenyl phenyl ether	ND		2.1
4-Nitroaniline	ND		10
4-Nitrophenol	ND		10
6-Octen-1-ol, 3,7-dimethyl-, acetate	3.7	J	
6-Octen-1-ol, 3,7-dimethyl-, acetate	4.8	J	
6-Octen-1-ol, 3,7-dimethyl-, acetate	6.4	J	
7,12-Dimethylbenz(a)-anthracene	ND		4.3
Acenaphthene	ND		2.1
Acenaphthylene	ND		2.1
Acetic acid, [4-(1,1-dimethylethyl)phenoxy]-, me!	4.9	Jz	
Acetophenone	ND		2.1
Aniline	ND		2.1
Anthracene	ND		2.1
Azobenzene	ND		2.1
Benzidine	ND		36
Benzo(a)anthracene	ND		2.1
Benzo(a)pyrene	ND		2.1
Benzo(b)fluoranthene	ND		2.1
Benzo(g,h,i)perylene	ND		2.1
Benzo(k)fluoranthene	ND		2.1
Benzoic acid	ND		10
Benzyl alcohol	ND		2.1
Butyl benzyl phthalate	ND		2.1
Chrysene	ND		2.1
Cyclohexane, 1,2-dimethyl-3-pentyl-4 -propyl-	1.5	J	
Cyclohexane, 1,2-dimethyl-3-pentyl-4 -propyl-	1.8	J	
Cyclohexane, 1,2-dimethyl-3-pentyl-4 -propyl-	4.2	J	
Cyclohexane,1,2,4,5-tetraethyl-, (1.alpha.,2.alp!	1.9	Jz	
Cyclopentane, 1,1'-[3-(2-cyclopentylethyl)-1,5-p!	3.6	J	
Cyclopentane, 1,1'-[3-(2-cyclopentylethyl)-1,5-p!	4.6	J	
Cyclopentane, 1,1'-[3-(2-cyclopentylethyl)-1,5-p!	6.8	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	2.1	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	3.7	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	4.0	Jz	
Di-n-butyl phthalate	ND		2.1
Di-n-octyl phthalate	ND		2.1
Dibenz(a,h)anthracene	ND		2.1
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		2.1
Diethyl phthalate	ND		2.1
Dimethyl phthalate	ND		2.1
Diphenylamine	ND		2.1
Ethyl methanesulfonate	ND		2.1
Fluoranthene	ND		2.1
Fluorene	ND		2.1
Hexachlorobenzene	ND		2.1
Hexachlorobutadiene	ND		2.1
Hexachlorocyclopentadiene	ND		10
Hexachloroethane	ND		2.1
Hexadecanoic acid, 2-hydroxy-,methyl ester	1.4	J	
Hexadecanoic acid, 2-hydroxy-,methyl ester	1.7	J	
Hexadecanoic acid, 2-hydroxy-,methyl ester	2.3	J	
Hexadecanoic acid, 2-hydroxy-,methyl ester	2.5	J	
Indeno(1,2,3-cd)pyrene	ND		2.1
Isophorone	ND		2.1
Longifolenaldehyde	2.1	J	
Methyl methanesulfonate	ND		2.1
N-Nitroso-di-n-butylamine	ND		2.1
N-Nitroso-di-n-propylamine	ND		2.1
N-Nitrosodiphenylamine	ND		2.1
N-Nitrosopiperidine	ND		2.1
Naphthalene	ND		2.1
Nitrobenzene	ND		2.1
Pentachlorobenzene	ND		2.1

Matrix : SEDIMENT

Client Description	SC-QW02-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Pentachloronitrobenzene	ND		10
Pentachlorophenol	ND		10
Phenacetin	ND		4.3
Phenanthrene	ND		2.1
Phenol	ND		2.1
Pronamide	ND		4.3
Pyrene	ND		2.1
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.9	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.0	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.6	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	2.7	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	6.1	Jz	
a,a-Dimethylphenethyl-amine	ND		10
bis(2-Chloroethoxy)methane	ND		2.1
bis(2-Chloroethyl) ether	ND		2.1
bis(2-Ethylhexyl)phthalate	0.25	J	2.1
p-Dimethylaminoazobenzene	ND		4.3

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0043
4,4'-DDE	ND		0.0043
4,4'-DDT	ND		0.0043
Aldrin	ND		0.0022
Aroclor 1016	ND		0.043
Aroclor 1221	ND		0.043
Aroclor 1232	ND		0.043
Aroclor 1242	ND		0.043
Aroclor 1248	ND		0.043
Aroclor 1254	ND		0.043
Aroclor 1260	ND		0.043
Dieldrin	ND		0.0043
Endosulfan I	ND		0.0022
Endosulfan II	ND		0.0043
Endosulfan sulfate	ND		0.0043
Endrin	ND		0.0043
Endrin aldehyde	ND		0.0043
Heptachlor	ND		0.0022
Heptachlor epoxide	ND		0.0022
Methoxychlor	ND		0.022
Toxaphene	ND		0.22
alpha-BHC	ND		0.0022
alpha-Chlordane	ND		0.0022
beta-BHC	ND		0.0022
delta-BHC	ND		0.0022
gamma-BHC (Lindane)	ND		0.0022
gamma-Chlordane	ND		0.0022

Matrix : SEDIMENT

Client Description	SC-QW03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0076
1,1,1-Trichloroethane	ND		0.0076
1,1,2,2-Tetrachloroethane	ND		0.0076
1,1,2-Trichloroethane	ND		0.0076
1,1-Dichloroethane	ND		0.0076
1,1-Dichloroethene	ND		0.0076
1,2,3-Trichloropropane	ND		0.0076
1,2-Dichloroethane	ND		0.0076
1,2-Dichloropropane	ND		0.0076
2-Butanone (MEK)	0.011	J	0.015
2-Chloroethyl vinyl ether	ND		0.015
2-Hexanone	ND		0.015
4-Methyl-2-pentanone (MIBK)	ND		0.015
Acetone	0.044		0.015
Acrolein	ND		0.15
Acrylonitrile	ND		0.15
Benzene	ND		0.0076
Bromodichloromethane	ND		0.0076
Bromoform	ND		0.0076
Bromomethane	ND		0.015
Carbon disulfide	0.0057	J	0.0076
Carbon tetrachloride	ND		0.0076
Chlorobenzene	ND		0.0076
Chloroethane	ND		0.015
Chloroform	ND		0.0076
Chloromethane	ND		0.015
Cyclic Hydrocarbon	0.018	J	
Cyclic Hydrocarbon	0.021	J	
Cyclic Hydrocarbon	0.023	J	
Cyclic Hydrocarbon	0.024	J	
Cyclohexane, 1,1,3-trimethyl-	0.065	J	
Cyclohexane, 1,2,3-trimethyl-	0.055	J	
Cyclohexane, 1,2,4-trimethyl-	0.055	J	
Cyclohexane, 1-ethyl-2-methyl-, cis-	0.064	J	
Cyclohexane, hexyl-	0.021	J	
Cyclopropane, 1-butyl-1-methyl-2-propyl-	0.039	J	
Dibromochloromethane	ND		0.0076
Dibromomethane	ND		0.0076
Dichlorodifluoromethane	ND		0.030
Ethanol	ND		0.76
Ethyl methacrylate	ND		0.030
Ethylbenzene	0.0045	J	0.0076
Heptane, 3-ethyl-2-methyl-	0.098	J	
Iodomethane	ND		0.0076
Methylene chloride	0.0023	J	0.0076
Naphthalene, decahydro-, trans-	0.047	J	
Octane, 3,6-dimethyl-	0.075	J	
Octane, 4-ethyl-	0.032	J	
Saturated Hydrocarbon	0.020	J	
Saturated Hydrocarbon	0.049	J	
Saturated Hydrocarbon	0.065	J	
Saturated Hydrocarbon	0.076	J	
Saturated Hydrocarbon	0.078	J	
Styrene	0.0032	J	0.0076
Tetrachloroethene	ND		0.0076
Toluene	0.034		0.0076
Trichloroethene	ND		0.0076
Trichlorofluoromethane	ND		0.0076
Unsaturated Hydrocarbon	0.067	J	
Vinyl acetate	ND		0.015
Vinyl chloride	0.0028	J	0.015
Xylenes (total)	ND		0.0076
cis-1,3-Dichloropropene	ND		0.0076
trans-1,2-Dichloroethene	ND		0.0076
trans-1,3-Dichloropropene	ND		0.0076
trans-1,4-Dichloro-2-butene	ND		0.0076

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	6250		15.1
Antimony	ND		9.1
Arsenic	1.5	J	3.0
Barium	125		1.5
Beryllium	0.32		0.30
Cadmium	14.1		0.76
Calcium	2950		30.2
Chromium	224		1.5
Cobalt	37.7		1.5
Copper	274		3.0
Iron	9580		15.1
Lead	65.9		7.6
Magnesium	2620		30.2
Manganese	124		1.5
Mercury	0.38		0.050
Molybdenum	23.0		3.0
Nickel	1430		6.0
Potassium	822		756
Selenium	0.68	J	1.5
Silver	99.2		1.5
Sodium	ND		756
Thallium	ND		302
Vanadium	33.2		1.5
Zinc	482		3.0

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	0.80	Jz	
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	1.8	Jz	
1,2-Benzenedicarboxylic acid,diisodecyl ester	0.44	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	2.0	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	2.5	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.42	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.53	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.54	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.56	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.81	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.95	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.98	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	1.1	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	1.3	J	
1,2-Dichlorobenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1-Chloronaphthalene	ND		4.8
1-Naphthylamine	ND		1.0
2,2'-oxybis(1-chloropropane)	ND		1.0
2,3,4,6-Tetrachlorophenol	ND		4.8
2,4,5-Trichlorophenol	ND		1.0
2,4,6-Trichlorophenol	ND		1.0
2,4-Dichlorophenol	ND		1.0
2,4-Dimethylphenol	ND		1.0
2,4-Dinitrophenol	ND		4.8
2,4-Dinitrotoluene	ND		1.0
2,6-Dichlorophenol	ND		1.0
2,6-Dinitrotoluene	ND		1.0
2-Chloronaphthalene	ND		1.0
2-Chlorophenol	ND		1.0
2-Dodecen-1-yl(-)succinic anhydride	0.64	J	
2-Methylnaphthalene	ND		1.0
2-Methylphenol	ND		1.0
2-Naphthylamine	ND		1.0

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2-Nitrophenol	ND		1.0
2-Pentanone, 4-hydroxy-4-methyl-	8.5	JAB	
2-Picoline	ND		2.0
3,3'-Dichlorobenzidine	ND		4.8
3,3'-Dimethylbenzidine	ND		4.8
3-Methylcholanthrene	ND		2.0
3-Nitroaniline	ND		4.8
3/4-Methylphenol	ND		1.0
4,6-Dinitro-2-methylphenol	ND		4.8
4-Aminobiphenyl	ND		4.8
4-Bromophenyl phenyl ether	ND		1.0
4-Chloro-3-methylphenol	ND		1.0
4-Chloroaniline	ND		1.0
4-Chlorophenyl phenyl ether	ND		1.0
4-Nitroaniline	ND		4.8
4-Nitrophenol	ND		4.8
7,12-Dimethylbenz(a)-anthracene	ND		2.0
Acenaphthene	ND		1.0
Acenaphthylene	ND		1.0
Acetophenone	ND		1.0
Aniline	ND		1.0
Anthracene	0.054	J	
Anthracene	ND		1.0
Azobenzene	ND		1.0
Benzaldehyde, 4-hydroxy-3-methoxy-5-nitro-	6.3	J	
Benzidine	ND		17
Benzo(a)anthracene	0.26	J	1.0
Benzo(a)pyrene	0.35	J	1.0
Benzo(b)fluoranthene	0.32	J	1.0
Benzo(g,h,i)perylene	0.16	J	1.0
Benzo(k)fluoranthene	0.57	J	1.0
Benzoic acid	ND		4.8
Benzyl alcohol	ND		1.0
Butyl benzyl phthalate	ND		1.0
Chrysene	0.39	J	1.0
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.57	Jz	
Di-n-butyl phthalate	ND		1.0
Di-n-octyl phthalate	ND		1.0
Dibenz(a,h)anthracene	ND		1.0
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		1.0
Diethyl phthalate	ND		1.0
Dimethyl phthalate	ND		1.0
Diphenylamine	ND		1.0
Ethyl methanesulfonate	ND		1.0
Fluoranthene	0.68	J	1.0
Fluorene	ND		1.0
Hexachlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
Hexachlorocyclopentadiene	ND		4.8
Hexachloroethane	ND		1.0
Indeno(1,2,3-cd)pyrene	0.17	J	1.0
Isophorone	ND		1.0
Methyl methanesulfonate	ND		1.0
N-Nitroso-di-n-butylamine	ND		1.0
N-Nitroso-di-n-propylamine	ND		1.0
N-Nitrosodiphenylamine	ND		1.0
N-Nitrosopiperidine	ND		1.0
Naphthalene	ND		1.0
Nitrobenzene	ND		1.0
Nonadecane, 9-methyl-	3.8	J	
Nonahexacontanoic acid	0.72	J	
Pentachlorobenzene	ND		1.0
Pentachloronitrobenzene	ND		4.8
Pentachlorophenol	ND		4.8
Phenacetin	ND		2.0
Phenanthrene	0.36	J	1.0

Matrix : SEDIMENT

Client Description	SC-QW03-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Phenol	ND		1.0
Pronamide	ND		2.0
Pyrene	0.57	J	1.0
Tetracosane	0.88	J	
Tetracosane	1.0	J	
Tetracosane	1.7	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.54	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.66	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.82	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.8	Jz	
a,a-Dimethylphenethyl-amine	ND		4.8
bis(2-Chloroethoxy)methane	ND		1.0
bis(2-Chloroethyl) ether	ND		1.0
bis(2-Ethylhexyl)phthalate	1.2		1.0
d-Homoandrostane, (5.alpha.,13.alpha.)-	0.74	J	
p-Dimethylaminoazobenzene	ND		2.0

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0050
4,4'-DDE	ND		0.0050
4,4'-DDT	ND		0.0050
Aldrin	ND		0.0026
Aroclor 1016	ND		0.050
Aroclor 1221	ND		0.050
Aroclor 1232	ND		0.050
Aroclor 1242	ND		0.050
Aroclor 1248	ND		0.050
Aroclor 1254	2.0		0.050
Aroclor 1260	ND		0.050
Dieldrin	ND		0.0050
Endosulfan I	ND		0.0026
Endosulfan II	ND		0.0050
Endosulfan sulfate	ND		0.0050
Endrin	ND		0.0050
Endrin aldehyde	ND		0.0050
Heptachlor	ND		0.0026
Heptachlor epoxide	ND		0.0026
Methoxychlor	ND		0.026
Toxaphene	ND		0.26
alpha-BHC	ND		0.0026
alpha-Chlordane	ND		0.0026
beta-BHC	ND		0.0026
delta-BHC	ND		0.0026
gamma-BHC (Lindane)	ND		0.0026
gamma-Chlordane	ND		0.0026

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.053
1,1,1-Trichloroethane	ND		0.053
1,1,2,2-Tetrachloroethane	ND		0.053
1,1,2-Trichloroethane	ND		0.053
1,1-Dichloroethane	ND		0.053
1,1-Dichloroethene	ND		0.053
1,2,3-Trichloropropane	ND		0.053
1,2-Dichloroethane	ND		0.053
1,2-Dichloropropane	ND		0.053
2-Butanone (MEK)	0.028	J	0.11
2-Chloroethyl vinyl ether	ND		0.11
2-Hexanone	ND		0.11
3,5-Dimethyl-3-heptene	0.083	J	
4-Methyl-2-pentanone (MIBK)	ND		0.11
4-Undecene, 6-methyl-	0.066	J	
Acetone	0.089	J	0.11
Acrolein	ND		1.1
Acrylonitrile	ND		1.1
Benzene	ND		0.053
Bromodichloromethane	ND		0.053
Bromoform	ND		0.053
Bromomethane	ND		0.11
Carbon disulfide	ND		0.053
Carbon tetrachloride	ND		0.053
Chlorobenzene	ND		0.053
Chloroethane	ND		0.11
Chloroform	ND		0.053
Chloromethane	ND		0.11
Cyclic Hydrocarbon	0.10	J	
Cyclic Hydrocarbon	0.15	J	
Cyclic Hydrocarbon	0.16	J	
Cyclic Hydrocarbon	0.25	J	
Cyclohexane, 1-methyl-2-propyl-	0.073	J	
Decane, 3-methyl-	0.19	J	
Decane, 4-methyl-	0.32	J	
Dibromochloromethane	ND		0.053
Dibromomethane	ND		0.053
Dichlorodifluoromethane	ND		0.21
Ethanol	ND		5.3
Ethyl methacrylate	ND		0.21
Ethylbenzene	0.053		0.053
Heptane, 3-ethyl-2-methyl-	0.17	J	
Iodomethane	ND		0.053
Methylene chloride	0.017	J	0.053
Naphthalene, decahydro-	0.14	J	
Octane, 3,6-dimethyl-	0.13	J	
Octane, 4-ethyl-	0.071	J	
Saturated Hydrocarbon	0.072	J	
Saturated Hydrocarbon	0.13	J	
Saturated Hydrocarbon	0.69	J	
Siloxane	0.47	J	
Styrene	0.031	J	0.053
Tetrachloroethene	ND		0.053
Toluene	0.021	J	0.053
Trichloroethene	ND		0.053
Trichlorofluoromethane	ND		0.053
Undecane, 4,6-dimethyl-	0.17	J	
Unsaturated Hydrocarbon	0.10	J	
Unsaturated Hydrocarbon	0.27	J	
Vinyl acetate	ND		0.11
Vinyl chloride	ND		0.11
Xylenes (total)	ND		0.053
cis-1,3-Dichloropropene	ND		0.053
trans-1,2-Dichloroethene	ND		0.053
trans-1,3-Dichloropropene	ND		0.053
trans-1,4-Dichloro-2-butene	ND		0.053

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	11600		21.0
Antimony	ND		12.6
Arsenic	4.6		1.1
Barium	325		2.1
Beryllium	0.81		0.42
Cadmium	112		1.1
Calcium	5230		42.1
Chromium	1110		2.1
Cobalt	166		2.1
Copper	2010		4.2
Iron	13000		21.0
Lead	422		10.5
Magnesium	3850		42.1
Manganese	158		2.1
Mercury	0.55		0.20
Molybdenum	262		4.2
Nickel	6470		8.4
Potassium	1130		1050
Selenium	10.3		2.1
Silver	725		2.1
Sodium	ND		1050
Thallium	74.2	J	421
Vanadium	114		2.1
Zinc	2310		4.2

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
	1.6	J	
1,2,4,5-Tetrachloro-benzene	ND		3.5
1,2,4-Trichlorobenzene	ND		3.5
1,2-Benzenedicarboxylic acid, bis(1-methylethyl)!	2.0	Jz	
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	2.6	Jz	
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	7.2	Jz	
1,2-Benzenedicarboxylic acid,diisodecyl ester	10	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	11	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	1.5	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	1.6	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	18	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	20	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	3.2	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	3.8	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	39	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	49	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	56	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	6.6	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	9.1	J	
1,2-Dichlorobenzene	ND		3.5
1,3-Dichlorobenzene	ND		3.5
1,4-Dichlorobenzene	ND		3.5
1-Chloronaphthalene	ND		17
1-Naphthylamine	ND		3.5
1-Nonadecene	0.20	J	
2,2'-oxybis(1-chloropropane)	ND		3.5
2,3,4,6-Tetrachlorophenol	ND		17
2,4,5-Trichlorophenol	ND		3.5
2,4,6-Trichlorophenol	ND		3.5
2,4-Dichlorophenol	ND		3.5
2,4-Dimethylphenol	ND		3.5
2,4-Dinitrophenol	ND		17
2,4-Dinitrotoluene	ND		3.5
2,6-Dichlorophenol	ND		3.5
2,6-Dinitrotoluene	ND		3.5
2-Chloronaphthalene	ND		3.5
2-Chlorophenol	ND		3.5

Matrix : SEDIMENT

Client Description	SC-QW03-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2-Methylnaphthalene	ND		3.5
2-Methylphenol	ND		3.5
2-Naphthylamine	ND		3.5
2-Nitrophenol	ND		3.5
2-Pentanone, 4-hydroxy-4-methyl-	12	JAB	
2-Picoline	ND		6.9
3,3'-Dichlorobenzidine	ND		17
3,3'-Dimethylbenzidine	ND		17
3-Methylcholanthrene	ND		6.9
3-Nitroaniline	ND		17
3/4-Methylphenol	ND		3.5
4,6-Dinitro-2-methylphenol	ND		17
4-Aminobiphenyl	ND		17
4-Bromophenyl phenyl ether	ND		3.5
4-Chloro-3-methylphenol	ND		3.5
4-Chloroaniline	ND		3.5
4-Chlorophenyl phenyl ether	ND		3.5
4-Nitroaniline	ND		17
4-Nitrophenol	ND		17
7,12-Dimethylbenz(a)-anthracene	ND		6.9
Acenaphthene	ND		3.5
Acenaphthylene	ND		3.5
Acetophenone	ND		3.5
Aniline	ND		3.5
Anthracene	ND		3.5
Azobenzene	ND		3.5
Benzidine	ND		59
Benzo(a)anthracene	1.6	J	3.5
Benzo(a)pyrene	1.8	J	3.5
Benzo(b)fluoranthene	2.2	J	3.5
Benzo(g,h,i)perylene	0.85	J	3.5
Benzo(k)fluoranthene	2.3	J	3.5
Benzoic acid	ND		17
Benzyl alcohol	ND		3.5
Butyl benzyl phthalate	ND		3.5
Chrysene	2.1	J	3.5
Cyclohexane, 1,4-dimethyl-, cis-	3.2	J	
Cyclotetracosane	5.6	J	
Di-n-butyl phthalate	ND		3.5
Di-n-octyl phthalate	0.50	J	3.5
Dibenz(a,h)anthracene	ND		3.5
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		3.5
Diethyl phthalate	ND		3.5
Dimethyl phthalate	ND		3.5
Diphenylamine	ND		3.5
Ethyl methanesulfonate	ND		3.5
Fluoranthene	3.6		3.5
Fluorene	ND		3.5
Hexachlorobenzene	ND		3.5
Hexachlorobutadiene	ND		3.5
Hexachlorocyclopentadiene	ND		17
Hexachloroethane	ND		3.5
Indeno(1,2,3-cd)pyrene	0.82	J	3.5
Isophorone	ND		3.5
Methyl methanesulfonate	ND		3.5
N-Nitroso-di-n-butylamine	ND		3.5
N-Nitroso-di-n-propylamine	ND		3.5
N-Nitrosodiphenylamine	ND		3.5
N-Nitrosopiperidine	ND		3.5
Naphthalene	ND		3.5
Naphthalene, decahydro-2-methyl-	2.0	J	
Nitrobenzene	ND		3.5
Nonahexacontanoic acid	4.1	J	
Octane, 2,3,7-trimethyl-	2.4	J	
Pentachlorobenzene	ND		3.5
Pentachloronitrobenzene	ND		17

Matrix : SEDIMENT

Client Description	SC-QW03-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Pentachlorophenol	ND		17
Phenacetin	ND		6.9
Phenanthrene	2.2	J	3.5
Phenol	ND		3.5
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	6.1	J	
Pronamide	ND		6.9
Pyrene	3.3	J	3.5
TID Compound 29	ND		
TID Compound 30	ND		
Undecane, 3,6-dimethyl-	2.2	J	
a,a-Dimethylphenethyl-amine	ND		17
bis(2-Chloroethoxy)methane	ND		3.5
bis(2-Chloroethyl) ether	ND		3.5
bis(2-Ethylhexyl)phthalate	8.7		3.5
n-Amylcyclohexane	3.5	J	
p-Dimethylaminoazobenzene	ND		6.9

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		1.4
4,4'-DDE	ND		1.4
4,4'-DDT	ND		1.4
Aldrin	ND		0.72
Aroclor 1016	ND		14
Aroclor 1221	ND		14
Aroclor 1232	ND		14
Aroclor 1242	ND		14
Aroclor 1248	ND		14
Aroclor 1254	82		14
Aroclor 1260	ND		14
Dieldrin	ND		1.4
Endosulfan I	ND		0.72
Endosulfan II	ND		1.4
Endosulfan sulfate	ND		1.4
Endrin	ND		1.4
Endrin aldehyde	ND		1.4
Heptachlor	ND		0.72
Heptachlor epoxide	ND		0.72
Methoxychlor	ND		7.2
Toxaphene	ND		72
alpha-BHC	ND		0.72
alpha-Chlordane	ND		0.72
beta-BHC	ND		0.72
delta-BHC	ND		0.72
gamma-BHC (Lindane)	ND		0.72
gamma-Chlordane	ND		0.72

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,2.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0066
1,1,1-Trichloroethane	ND		0.0066
1,1,2,2-Tetrachloroethane	ND		0.0066
1,1,2-Trichloroethane	ND		0.0066
1,1-Dichloroethane	ND		0.0066
1,1-Dichloroethene	ND		0.0066
1,2,3-Trichloropropane	ND		0.0066
1,2-Dichloroethane	ND		0.0066
1,2-Dichloropropane	ND		0.0066
1-Ethyl-3-methylcyclohexane (c,t)	0.025	J	
2-Butanone (MEK)	0.0062	J	0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.023	J	0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0066
Bromodichloromethane	ND		0.0066
Bromoform	ND		0.0066
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0066
Carbon tetrachloride	ND		0.0066
Chlorobenzene	ND		0.0066
Chloroethane	ND		0.013
Chloroform	ND		0.0066
Chloromethane	ND		0.013
Cyclohexane, 1,1,3-trimethyl-	0.037	J	
Cyclohexane, 1,2,3-trimethyl-,(1.alpha.,2.beta!	0.020	Jz	
Cyclohexane, 1,3-dimethyl-, trans-	0.024	J	
Cyclohexane, butyl-	0.058	J	
Cyclohexane, pentyl-	0.19	J	
Decane, 3-methyl-	0.057	J	
Decane, 3-methyl-	0.063	J	
Decane, 4-methyl-	0.13	J	
Dibromochloromethane	ND		0.0066
Dibromomethane	ND		0.0066
Dichlorodifluoromethane	ND		0.026
Ethanol	ND		0.66
Ethyl methacrylate	ND		0.026
Ethylbenzene	0.0019	J	0.0066
Heptane, 3-ethyl-2-methyl-	0.042	J	
Iodomethane	ND		0.0066
Methylene chloride	0.0019	J	0.0066
Naphthalene, decahydro-, trans-	0.079	J	
Naphthalene, decahydro-2-methyl-	0.029	J	
Octane, 2,6-dimethyl-	0.033	J	
Octane, 3-ethyl-	0.094	J	
Oxygenated Hydrocarbon	0.17	J	
Saturated Hydrocarbon	0.056	J	
Saturated Hydrocarbon	0.12	J	
Saturated Hydrocarbon	0.38	J	
Styrene	0.0024	J	0.0066
Tetrachloroethene	ND		0.0066
Toluene	0.0024	J	0.0066
Trichloroethene	ND		0.0066
Trichlorofluoromethane	ND		0.0066
Unsaturated Hydrocarbon	0.040	J	
Unsaturated Hydrocarbon	0.084	J	
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0066
cis-1,3-Dichloropropene	ND		0.0066
trans-1,2-Dichloroethene	ND		0.0066
trans-1,3-Dichloropropene	ND		0.0066
trans-1,4-Dichloro-2-butene	ND		0.0066

Matrix : SEDIMENT

Client Description	SC-QW03-SD-903
Sample Depth in feet bgs (Top, Base)	(1.00,2.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	3010		13.1
Antimony	ND		7.9
Arsenic	1.3		1.3
Barium	96.3		1.3
Beryllium	ND		0.26
Cadmium	5.6		0.66
Calcium	16000		26.3
Chromium	67.5		1.3
Cobalt	12.0		1.3
Copper	52.9		2.6
Iron	5630		13.1
Lead	24.0		6.6
Magnesium	2150		26.3
Manganese	161		1.3
Mercury	0.11		0.043
Molybdenum	19.1		2.6
Nickel	380		5.3
Potassium	487	J	657
Selenium	0.92		0.66
Silver	21.8		1.3
Sodium	ND		657
Thallium	45.1	J	263
Vanadium	15.5		1.3
Zinc	106		2.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1'-Biphenyl, 2,2',5,6-tetrachloro-	1.3	J	
1,1'-Biphenyl, 2,3,4,4',6-pentachloro-	1.1	J	
1,2,4,5-Tetrachloro-benzene	ND		0.87
1,2,4-Trichlorobenzene	ND		0.87
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	1.5	Jz	
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	2.4	Jz	
1,2-Benzenedicarboxylic acid,diisodecyl ester	2.3	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	3.0	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.47	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.55	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.74	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	0.81	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	2.7	J	
1,2-Dichlorobenzene	ND		0.87
1,3-Dichlorobenzene	ND		0.87
1,4-Dichlorobenzene	ND		0.87
1-Chloronaphthalene	ND		4.2
1-Naphthylamine	ND		0.87
2,2'-oxybis(1-chloropropane)	ND		0.87
2,3,4,6-Tetrachlorophenol	ND		4.2
2,4,5-Trichlorophenol	ND		0.87
2,4,6-Trichlorophenol	ND		0.87
2,4-Dichlorophenol	ND		0.87
2,4-Dimethylphenol	ND		0.87
2,4-Dinitrophenol	ND		4.2
2,4-Dinitrotoluene	ND		0.87
2,6-Dichlorophenol	ND		0.87
2,6-Dinitrotoluene	ND		0.87
2-Chloronaphthalene	ND		0.87
2-Chlorophenol	ND		0.87
2-Methylnaphthalene	ND		0.87
2-Methylphenol	ND		0.87
2-Naphthylamine	ND		0.87
2-Nitrophenol	ND		0.87
2-Pentanone, 4-hydroxy-4-methyl-	6.3	JAB	
2-Picoline	ND		1.7
3,3'-Dichlorobenzidine	ND		4.2

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,2.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
3,3'-Dimethylbenzidine	ND		4.2
3-Methylcholanthrene	ND		1.7
3-Nitroaniline	ND		4.2
3/4-Methylphenol	ND		0.87
4,6-Dinitro-2-methylphenol	ND		4.2
4-Aminobiphenyl	ND		4.2
4-Bromophenyl phenyl ether	ND		0.87
4-Chloro-3-methylphenol	ND		0.87
4-Chloroaniline	ND		0.87
4-Chlorophenyl phenyl ether	ND		0.87
4-Nitroaniline	ND		4.2
4-Nitrophenol	ND		4.2
7,12-Dimethylbenz(a)-anthracene	ND		1.7
Acenaphthene	ND		0.87
Acenaphthylene	ND		0.87
Acetophenone	ND		0.87
Aniline	ND		0.87
Anthracene	ND		0.87
Azobenzene	ND		0.87
Benzidine	0.22	J	15
Benzo(a)anthracene	0.33	J	0.87
Benzo(a)pyrene	0.36	J	0.87
Benzo(b)fluoranthene	0.53	J	0.87
Benzo(g,h,i)perylene	0.16	J	0.87
Benzo(k)fluoranthene	0.50	J	0.87
Benzoic acid	ND		4.2
Benzyl alcohol	ND		0.87
Butyl benzyl phthalate	ND		0.87
Chrysene	0.46	J	0.87
Cyclohexane, (1-ethylpropyl)-	1.2	J	
Cyclohexane, 1,4-dimethyl-	1.1	J	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	1.3	Jz	
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	1.6	Jz	
Di-n-butyl phthalate	ND		0.87
Di-n-octyl phthalate	ND		0.87
Dibenz(a,h)anthracene	ND		0.87
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.87
Diethyl phthalate	ND		0.87
Dimethyl phthalate	ND		0.87
Diphenylamine	ND		0.87
Ethyl methanesulfonate	ND		0.87
Fluoranthene	0.84	J	0.87
Fluorene	ND		0.87
Hexachlorobenzene	ND		0.87
Hexachlorobutadiene	ND		0.87
Hexachlorocyclopentadiene	ND		4.2
Hexachloroethane	ND		0.87
Hexadecane, 7-methyl-	0.98	J	
Hexatriacontane	0.80	J	
Indeno(1,2,3-cd)pyrene	0.17	J	0.87
Isophorone	ND		0.87
Methyl methanesulfonate	ND		0.87
N-Nitroso-di-n-butylamine	ND		0.87
N-Nitroso-di-n-propylamine	ND		0.87
N-Nitrosodiphenylamine	ND		0.87
N-Nitrosopiperidine	ND		0.87
Naphthalene	ND		0.87
Nitrobenzene	ND		0.87
Pentachlorobenzene	ND		0.87
Pentachloronitrobenzene	ND		4.2
Pentachlorophenol	ND		4.2
Pentadecane, 2,6,10,14-tetramethyl-	1.7	J	
Pentalene, octahydro-1-(2-octyldecyl)-	0.71	J	
Phenacetin	ND		1.7
Phenanthrene	0.44	J	0.87
Phenol	ND		0.87

Matrix : SEDIMENT

Client Description	**SC-QW03-SD-903**
Sample Depth in feet bgs (Top, Base)	**(1.00,2.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	2.6	J	
Phenol, nonyl-	1.1	J	
Pronamide	ND		1.7
Pyrene	0.78	J	0.87
Saturated Hydrocarbon	0.72	J	
Tridecane, 5-propyl-	0.95	J	
Undecane, 2,6-dimethyl-	1.1	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.87	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.94	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.0	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.2	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	1.6	Jz	
a,a-Dimethylphenethyl-amine	ND		4.2
bis(2-Chloroethoxy)methane	ND		0.87
bis(2-Chloroethyl) ether	ND		0.87
bis(2-Ethylhexyl)phthalate	1.2		0.87
p-Dimethylaminoazobenzene	ND		1.7

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.22
4,4'-DDE	ND		0.22
4,4'-DDT	ND		0.22
Aldrin	ND		0.11
Aroclor 1016	ND		2.2
Aroclor 1221	ND		2.2
Aroclor 1232	ND		2.2
Aroclor 1242	ND		2.2
Aroclor 1248	ND		2.2
Aroclor 1254	15		2.2
Aroclor 1260	ND		2.2
Dieldrin	ND		0.22
Endosulfan I	ND		0.11
Endosulfan II	ND		0.22
Endosulfan sulfate	ND		0.22
Endrin	ND		0.22
Endrin aldehyde	ND		0.22
Heptachlor	ND		0.11
Heptachlor epoxide	ND		0.11
Methoxychlor	ND		1.1
Toxaphene	ND		11
alpha-BHC	ND		0.11
alpha-Chlordane	ND		0.11
beta-BHC	ND		0.11
delta-BHC	ND		0.11
gamma-BHC (Lindane)	ND		0.11
gamma-Chlordane	ND		0.11

Matrix : SEDIMENT

Client Description	SC-QW04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.060
1,1,1-Trichloroethane	ND		0.060
1,1,2,2-Tetrachloroethane	ND		0.060
1,1,2-Trichloroethane	ND		0.060
1,1-Dichloroethane	ND		0.060
1,1-Dichloroethene	ND		0.060
1,2,3-Trichloropropane	ND		0.060
1,2-Dichloroethane	ND		0.060
1,2-Dichloropropane	ND		0.060
2-Butanone (MEK)	ND		0.12
2-Chloroethyl vinyl ether	ND		0.12
2-Hexanone	ND		0.12
4-Methyl-2-pentanone (MIBK)	ND		0.12
Acetone	0.055	JB	0.12
Acrolein	ND		1.2
Acrylonitrile	ND		1.2
Benzene	ND		0.060
Bromodichloromethane	ND		0.060
Bromoform	ND		0.060
Bromomethane	ND		0.12
Carbon disulfide	ND		0.060
Carbon tetrachloride	ND		0.060
Chlorobenzene	ND		0.060
Chloroethane	ND		0.12
Chloroform	ND		0.060
Chloromethane	ND		0.12
Dibromochloromethane	ND		0.060
Dibromomethane	ND		0.060
Dichlorodifluoromethane	ND		0.24
Ethanol	ND		6.0
Ethyl methacrylate	ND		0.24
Ethylbenzene	ND		0.060
Iodomethane	ND		0.060
Methylene chloride	ND		0.060
None Detected	ND		
Styrene	0.50		0.060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.060
Toluene	ND		0.060
Trichloroethene	ND		0.060
Trichlorofluoromethane	ND		0.060
Vinyl acetate	ND		0.12
Vinyl chloride	ND		0.12
Xylenes (total)	ND		0.060
cis-1,3-Dichloropropene	ND		0.060
trans-1,2-Dichloroethene	ND		0.060
trans-1,3-Dichloropropene	ND		0.060
trans-1,4-Dichloro-2-butene	ND		0.060

Matrix : SEDIMENT

Client Description	SC-QW04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	15800		24.0
Antimony	ND		14.4
Arsenic	2.8		1.2
Barium	423		2.4
Beryllium	0.90		0.48
Cadmium	80.0		1.2
Calcium	15800		48.0
Chromium	1150		2.4
Cobalt	61.7		2.4
Copper	278		4.8
Iron	15800		24.0
Lead	298		12.0
Magnesium	5870		48.0
Manganese	478		2.4
Mercury	0.32		0.079
Molybdenum	24.7		4.8
Nickel	1040		9.6
Potassium	1670		1200
Selenium	3.9		1.2
Silver	82.3		2.4
Sodium	ND		1200
Thallium	ND		480
Vanadium	77.8		2.4
Zinc	1140		4.8

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		7.9
1,2,4-Trichlorobenzene	ND		7.9
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	17	Jz	
1,2-Benzenedicarboxylic acid,diisodecyl ester	19	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	22	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	25	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	26	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	4.8	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	14	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	16	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	18	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	19	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	21	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	8.6	J	
1,2-Dichlorobenzene	ND		7.9
1,3-Dichlorobenzene	ND		7.9
1,4-Dichlorobenzene	ND		7.9
1-Chloronaphthalene	ND		38
1-Naphthylamine	ND		7.9
2,2'-oxybis(1-chloropropane)	ND		7.9
2,3,4,6-Tetrachlorophenol	ND		38
2,4,5-Trichlorophenol	ND		7.9
2,4,6-Trichlorophenol	ND		7.9
2,4-Dichlorophenol	ND		7.9
2,4-Dimethylphenol	ND		7.9
2,4-Dinitrophenol	ND		38
2,4-Dinitrotoluene	ND		7.9
2,6-Dichlorophenol	ND		7.9
2,6-Dinitrotoluene	ND		7.9
2-Chloronaphthalene	ND		7.9
2-Chlorophenol	ND		7.9
2-Dodecen-1-yl(-)succinic anhydride	9.2	J	
2-Methylnaphthalene	ND		7.9
2-Methylphenol	ND		7.9
2-Naphthylamine	ND		7.9
2-Nitrophenol	ND		7.9
2-Pentanone, 4-hydroxy-4-methyl-	17	JAB	

Matrix : SEDIMENT

Client Description	SC-QW04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2-Picoline	ND		16
3,3'-Dichlorobenzidine	ND		38
3,3'-Dimethylbenzidine	ND		38
3-Methylcholanthrene	ND		16
3-Nitroaniline	ND		38
3/4-Methylphenol	ND		7.9
4,6-Dinitro-2-methylphenol	ND		38
4-Aminobiphenyl	ND		38
4-Bromophenyl phenyl ether	ND		7.9
4-Chloro-3-methylphenol	ND		7.9
4-Chloroaniline	ND		7.9
4-Chlorophenyl phenyl ether	ND		7.9
4-Nitroaniline	ND		38
4-Nitrophenol	ND		38
7,12-Dimethylbenz(a)-anthracene	ND		16
Acenaphthene	ND		7.9
Acenaphthylene	ND		7.9
Acetophenone	ND		7.9
Aniline	ND		7.9
Anthracene	0.40	J	
Anthracene	ND		7.9
Azobenzene	ND		7.9
Benzidine	ND		130
Benzo(a)anthracene	1.9	J	7.9
Benzo(a)pyrene	5.2	J	7.9
Benzo(b)fluoranthene	4.2	J	7.9
Benzo(g,h,i)perylene	5.3	J	7.9
Benzo(k)fluoranthene	4.1	J	7.9
Benzoic acid	ND		38
Benzyl alcohol	ND		7.9
Butyl benzyl phthalate	ND		7.9
Chrysene	2.5	J	7.9
Di-n-butyl phthalate	ND		7.9
Di-n-octyl phthalate	ND		7.9
Dibenz(a,h)anthracene	1.6	J	7.9
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		7.9
Diethyl phthalate	ND		7.9
Dimethyl phthalate	ND		7.9
Diphenylamine	ND		7.9
Ethyl methanesulfonate	ND		7.9
Fluoranthene	3.4	J	7.9
Fluorene	ND		7.9
Hexachlorobenzene	ND		7.9
Hexachlorobutadiene	ND		7.9
Hexachlorocyclopentadiene	ND		38
Hexachloroethane	ND		7.9
Indeno(1,2,3-cd)pyrene	4.7	J	7.9
Isophorone	ND		7.9
Methyl methanesulfonate	ND		7.9
N-Nitroso-di-n-butylamine	ND		7.9
N-Nitroso-di-n-propylamine	ND		7.9
N-Nitrosodiphenylamine	ND		7.9
N-Nitrosopiperidine	ND		7.9
Naphthalene	ND		7.9
Nitrobenzene	ND		7.9
Pentachlorobenzene	ND		7.9
Pentachloronitrobenzene	ND		38
Pentachlorophenol	ND		38
Phenacetin	ND		16
Phenanthrene	2.3	J	7.9
Phenol	ND		7.9
Pronamide	ND		16
Pyrene	2.8	J	7.9
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		

Matrix : SEDIMENT

Client Description	SC-QW04-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	4.3	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	5.8	Jz	
a,a-Dimethylphenethyl-amine	ND		38
bis(2-Chloroethoxy)methane	ND		7.9
bis(2-Chloroethyl) ether	ND		7.9
bis(2-Ethylhexyl)phthalate	3.4	J	7.9
p-Dimethylaminoazobenzene	ND		16

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.079
4,4'-DDE	ND		0.079
4,4'-DDT	ND		0.079
Aldrin	ND		0.041
Aroclor 1016	ND		0.79
Aroclor 1221	ND		0.79
Aroclor 1232	ND		0.79
Aroclor 1242	ND		0.79
Aroclor 1248	ND		0.79
Aroclor 1254	4.4		0.79
Aroclor 1260	ND		0.79
Dieldrin	ND		0.079
Endosulfan I	ND		0.041
Endosulfan II	ND		0.079
Endosulfan sulfate	ND		0.079
Endrin	ND		0.079
Endrin aldehyde	ND		0.079
Heptachlor	ND		0.041
Heptachlor epoxide	ND		0.041
Methoxychlor	ND		0.41
Toxaphene	ND		4.1
alpha-BHC	ND		0.041
alpha-Chlordane	ND		0.041
beta-BHC	ND		0.041
delta-BHC	ND		0.041
gamma-BHC (Lindane)	ND		0.041
gamma-Chlordane	ND		0.041

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.018
1,1,1-Trichloroethane	ND		0.018
1,1,2,2-Tetrachloroethane	ND		0.018
1,1,2-Trichloroethane	ND		0.018
1,1-Dichloroethane	ND		0.018
1,1-Dichloroethene	ND		0.018
1,2,3-Trichloropropane	ND		0.018
1,2-Dichloroethane	ND		0.018
1,2-Dichloropropane	ND		0.018
2-Butanone (MEK)	ND		0.035
2-Chloroethyl vinyl ether	ND		0.035
2-Hexanone	ND		0.035
4-Methyl-2-pentanone (MIBK)	ND		0.035
Acetone	ND		0.035
Acrolein	ND		0.35
Acrylonitrile	ND		0.35
Benzene	ND		0.018
Bromodichloromethane	ND		0.018
Bromoform	ND		0.018
Bromomethane	ND		0.035
Carbon disulfide	ND		0.018
Carbon tetrachloride	ND		0.018
Chlorobenzene	ND		0.018
Chloroethane	ND		0.035
Chloroform	ND		0.018
Chloromethane	ND		0.035
Dibromochloromethane	ND		0.018
Dibromomethane	ND		0.018
Dichlorodifluoromethane	ND		0.070
Ethanol	ND		1.8
Ethyl methacrylate	ND		0.070
Ethylbenzene	0.013	J	0.018
Iodomethane	ND		0.018
Methylene chloride	ND		0.018
Styrene	0.33		0.018
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.018
Toluene	ND		0.018
Trichloroethene	ND		0.018
Trichlorofluoromethane	ND		0.018
Vinyl acetate	ND		0.035
Vinyl chloride	ND		0.035
Xylenes (total)	ND		0.018
cis-1,2-Dichloroethene	0.018	J	
cis-1,3-Dichloropropene	ND		0.018
trans-1,2-Dichloroethene	ND		0.018
trans-1,3-Dichloropropene	ND		0.018
trans-1,4-Dichloro-2-butene	ND		0.018

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	13800		17.6
Antimony	ND		10.5
Arsenic	5.9		1.8
Barium	401		1.8
Beryllium	0.71		0.35
Cadmium	111		0.88
Calcium	5840		35.1
Chromium	721		1.8
Cobalt	42.0		1.8
Copper	78.0		3.5
Iron	14300		17.6
Lead	172		8.8
Magnesium	2560		35.1
Manganese	812		1.8
Mercury	0.24		0.058
Molybdenum	16.4		3.5
Nickel	410		7.0
Potassium	1420		878
Selenium	1.3		0.88
Silver	23.3		1.8
Sodium	ND		878
Thallium	ND		351
Vanadium	45.2		1.8
Zinc	427		3.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.9
1,2,4-Trichlorobenzene	ND		2.9
1,2-Benzenedicarboxylic acid,bis(8-methylnonyl)!	5.6	Jz	
1,2-Benzenedicarboxylic acid,diisodecyl ester	14	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	16	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	17	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	21	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	23	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	3.1	J	
1,2-Benzenedicarboxylic acid,diisodecyl ester	4.9	J	
1,2-Benzenedicarboxylic acid,diisooctyl ester	1.9	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	1.5	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	15	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	18	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	2.3	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	5.5	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	5.7	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	7.1	J	
1,2-Benzenedicarboxylic acid,ditridecyl ester	7.3	J	
1,2-Dichlorobenzene	1.2	J	2.9
1,3-Dichlorobenzene	ND		2.9
1,4-Dichlorobenzene	ND		2.9
1-Chloronaphthalene	ND		14
1-Naphthylamine	ND		2.9
2,2'-oxybis(1-chloropropane)	ND		2.9
2,3,4,6-Tetrachlorophenol	ND		14
2,4,5-Trichlorophenol	ND		2.9
2,4,6-Trichlorophenol	ND		2.9
2,4-Dichlorophenol	ND		2.9
2,4-Dimethylphenol	ND		2.9
2,4-Dinitrophenol	ND		14
2,4-Dinitrotoluene	ND		2.9
2,6-Dichlorophenol	ND		2.9
2,6-Dinitrotoluene	ND		2.9
2-Chloronaphthalene	ND		2.9
2-Chlorophenol	ND		2.9
2-Methylnaphthalene	0.41	J	2.9

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-902**
Sample Depth in feet bgs (Top, Base)	**(0.50,1.00)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
2-Methylphenol	ND		2.9
2-Naphthylamine	ND		2.9
2-Nitrophenol	ND		2.9
2-Pentanone, 4-hydroxy-4-methyl-	9.5	JAB	
2-Picoline	ND		5.8
3,3'-Dichlorobenzidine	ND		14
3,3'-Dimethylbenzidine	ND		14
3-Methylcholanthrene	ND		5.8
3-Nitroaniline	ND		14
3/4-Methylphenol	ND		2.9
4,6-Dinitro-2-methylphenol	ND		14
4-Aminobiphenyl	ND		14
4-Bromophenyl phenyl ether	ND		2.9
4-Chloro-3-methylphenol	ND		2.9
4-Chloroaniline	ND		2.9
4-Chlorophenyl phenyl ether	ND		2.9
4-Nitroaniline	ND		14
4-Nitrophenol	ND		14
4H-1-Benzopyran-4-one, 2-(3,4-dihdroxyphenyl)6,8!	2.4	Jz	
4H-Cyclopenta[def]phenanthrene	1.4	J	
7,12-Dimethylbenz(a)-anthracene	ND		5.8
Acenaphthene	0.86	J	2.9
Acenaphthylene	ND		2.9
Acetophenone	ND		2.9
Aniline	ND		2.9
Anthracene	1.2	J	2.9
Anthracene, 1-methyl-	1.5	J	
Azobenzene	ND		2.9
Benzidine	ND		49
Benzo(a)anthracene	4.7		2.9
Benzo(a)pyrene	4.6		2.9
Benzo(b)fluoranthene	5.6		2.9
Benzo(g,h,i)perylene	2.1	J	2.9
Benzo(k)fluoranthene	5.5		2.9
Benzoic acid	ND		14
Benzyl alcohol	ND		2.9
Butyl benzyl phthalate	ND		2.9
Chrysene	6.1		2.9
Di-n-butyl phthalate	ND		2.9
Di-n-octyl phthalate	ND		2.9
Dibenz(a,h)anthracene	0.74	J	2.9
Dibenz(a,j)acridine	ND		--
Dibenzofuran	0.79	J	2.9
Diethyl phthalate	ND		2.9
Dimethyl phthalate	ND		2.9
Diphenylamine	ND		2.9
Ethyl methanesulfonate	ND		2.9
Fluoranthene	13		2.9
Fluorene	1.0	J	2.9
Hexachlorobenzene	ND		2.9
Hexachlorobutadiene	ND		2.9
Hexachlorocyclopentadiene	ND		14
Hexachloroethane	ND		2.9
Indeno(1,2,3-cd)pyrene	2.2	J	2.9
Isophorone	ND		2.9
Methyl methanesulfonate	ND		2.9
N-Nitroso-di-n-butylamine	ND		2.9
N-Nitroso-di-n-propylamine	ND		2.9
N-Nitrosodiphenylamine	ND		2.9
N-Nitrosopiperidine	ND		2.9
Naphthalene	1.7	J	2.9
Nitrobenzene	ND		2.9
Pentachlorobenzene	ND		2.9
Pentachloronitrobenzene	ND		14
Pentachlorophenol	ND		14
Pentalene, octahydro-1-(2-octyldecyl)-	2.6	J	
Phenacetin	ND		5.8

Matrix : SEDIMENT

Client Description	SC-QW04-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Phenanthrene	11		2.9
Phenol	ND		2.9
Phosphoric acid, 2-ethylhexyl diphenyl ester	1.5	J	
Pronamide	ND		5.8
Pyrene	11		2.9
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dihl	1.7	Jz	
a,a-Dimethylphenethyl-amine	ND		14
bis(2-Chloroethoxy)methane	ND		2.9
bis(2-Chloroethyl) ether	ND		2.9
bis(2-Ethylhexyl)phthalate	1.6	J	2.9
p-Dimethylaminoazobenzene	ND		5.8

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.12
4,4'-DDE	ND		0.12
4,4'-DDT	ND		0.12
Aldrin	ND		0.060
Aroclor 1016	ND		1.2
Aroclor 1221	ND		1.2
Aroclor 1232	ND		1.2
Aroclor 1242	ND		1.2
Aroclor 1248	ND		1.2
Aroclor 1254	4.2		1.2
Aroclor 1260	ND		1.2
Dieldrin	ND		0.12
Endosulfan I	ND		0.060
Endosulfan II	ND		0.12
Endosulfan sulfate	ND		0.12
Endrin	ND		0.12
Endrin aldehyde	ND		0.12
Heptachlor	ND		0.060
Heptachlor epoxide	ND		0.060
Methoxychlor	ND		0.60
Toxaphene	ND		6.0
alpha-BHC	ND		0.060
alpha-Chlordane	ND		0.060
beta-BHC	ND		0.060
delta-BHC	ND		0.060
gamma-BHC (Lindane)	ND		0.060
gamma-Chlordane	ND		0.060

Matrix : SEDIMENT

Client Description	SC-QW04-SD-903
Sample Depth in feet bgs (Top, Base)	(2.00,2.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0081
1,1,1-Trichloroethane	ND		0.0081
1,1,2,2-Tetrachloroethane	ND		0.0081
1,1,2-Trichloroethane	ND		0.0081
1,1-Dichloroethane	ND		0.0081
1,1-Dichloroethene	ND		0.0081
1,2,3-Trichloropropane	ND		0.0081
1,2-Dichloroethane	ND		0.0081
1,2-Dichloropropane	ND		0.0081
1-Pentene, 2,4,4-trimethyl-	0.013	J	
2-Butanone (MEK)	0.0034	J	0.016
2-Chloroethyl vinyl ether	ND		0.016
2-Hexanone	ND		0.016
4-Methyl-2-pentanone (MIBK)	ND		0.016
Acetone	0.016		0.016
Acrolein	ND		0.16
Acrylonitrile	ND		0.16
Benzene	ND		0.0081
Bromodichloromethane	ND		0.0081
Bromoform	ND		0.0081
Bromomethane	ND		0.016
Carbon disulfide	ND		0.0081
Carbon tetrachloride	ND		0.0081
Chlorobenzene	ND		0.0081
Chloroethane	ND		0.016
Chloroform	ND		0.0081
Chloromethane	ND		0.016
Cyclic Hydrocarbon	0.0089	J	
Cyclohexane, butyl-	0.019	J	
Decane	0.013	J	
Dibromochloromethane	ND		0.0081
Dibromomethane	ND		0.0081
Dichlorodifluoromethane	ND		0.033
Ethanol	ND		0.81
Ethyl methacrylate	ND		0.033
Ethylbenzene	ND		0.0081
Iodomethane	ND		0.0081
Methylene chloride	0.0022	J	0.0081
Naphthalene, decahydro-, trans-	0.020	J	
Octane, 2,6-dimethyl-	0.011	J	
Saturated Hydrocarbon	0.012	J	
Saturated Hydrocarbon	0.028	J	
Saturated Hydrocarbon	0.033	J	
Styrene	0.0047	J	0.0081
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0081
Toluene	ND		0.0081
Trichloroethene	ND		0.0081
Trichlorofluoromethane	ND		0.0081
Undecane	0.026	J	
Unknown	0.011	J	
Vinyl acetate	ND		0.016
Vinyl chloride	ND		0.016
Xylenes (total)	ND		0.0081
cis-1,3-Dichloropropene	ND		0.0081
trans-1,2-Dichloroethene	ND		0.0081
trans-1,3-Dichloropropene	ND		0.0081
trans-1,4-Dichloro-2-butene	ND		0.0081

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-903**
Sample Depth in feet bgs (Top, Base)	**(2.00,2.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	7320		16.3
Antimony	11.4		9.8
Arsenic	9.7		0.81
Barium	771		1.6
Beryllium	0.34		0.33
Cadmium	212		0.81
Calcium	14600		32.5
Chromium	4020		1.6
Cobalt	161		1.6
Copper	166		3.3
Iron	15400		16.3
Lead	934		8.1
Magnesium	2900		32.5
Manganese	7430		1.6
Mercury	0.22		0.054
Molybdenum	40.9		3.3
Nickel	1190		6.5
Potassium	864		813
Selenium	2.8		0.81
Silver	105		1.6
Sodium	ND		813
Thallium	62.4	J	325
Vanadium	56.9		1.6
Zinc	590		3.3

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.7
1,2,4-Trichlorobenzene	ND		2.7
1,2-Dichlorobenzene	1.6	J	2.7
1,3-Dichlorobenzene	ND		2.7
1,4-Dichlorobenzene	ND		2.7
1-Chloronaphthalene	ND		13
1-Dotriacontanol	2.2	J	
1-Naphthylamine	ND		2.7
1H-Indene, 5-butyl-6-hexyloctahydro-	3.4	J	
1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-	6.1	J	
1H-Indole, 2-methyl-3-phenyl-	3.4	J	
2,2'-oxybis(1-chloropropane)	ND		2.7
2,3,4,6-Tetrachlorophenol	ND		13
2,4,5-Trichlorophenol	ND		2.7
2,4,6-Trichlorophenol	ND		2.7
2,4-Dichlorophenol	ND		2.7
2,4-Dimethylphenol	ND		2.7
2,4-Dinitrophenol	ND		13
2,4-Dinitrotoluene	ND		2.7
2,6-Dichlorophenol	ND		2.7
2,6-Dinitrotoluene	ND		2.7
2-Chloronaphthalene	ND		2.7
2-Chlorophenol	ND		2.7
2-Dodecen-1-yl(-)succinic anhydride	2.2	J	
2-Dodecen-1-yl(-)succinic anhydride	2.7	J	
2-Methylnaphthalene	0.85	J	2.7
2-Methylphenol	ND		2.7
2-Naphthylamine	ND		2.7
2-Nitrophenol	ND		2.7
2-Pentanone, 4-hydroxy-4-methyl-	10	JAB	
2-Picoline	ND		5.4
28-Nor-17.beta.(H)-hopane	2.8	J	
3,3'-Dichlorobenzidine	ND		13
3,3'-Dimethylbenzidine	ND		13
3-Methylcholanthrene	ND		5.4
3-Nitroaniline	ND		13
3/4-Methylphenol	ND		2.7

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-903**
Sample Depth in feet bgs (Top, Base)	**(2.00,2.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,6-Dinitro-2-methylphenol	ND		13
4-Aminobiphenyl	ND		13
4-Bromophenyl phenyl ether	ND		2.7
4-Chloro-3-methylphenol	ND		2.7
4-Chloroaniline	ND		2.7
4-Chlorophenyl phenyl ether	ND		2.7
4-Nitroaniline	ND		13
4-Nitrophenol	ND		13
7,12-Dimethylbenz(a)-anthracene	ND		5.4
Acenaphthene	1.1	J	2.7
Acenaphthylene	ND		2.7
Acetophenone	ND		2.7
Aniline	ND		2.7
Anthracene	1.6	J	2.7
Azobenzene	ND		2.7
Benzene, 1,4-bis(1,1-dimethylethyl)-	4.4	J	
Benzidine	ND		46
Benzo(a)anthracene	5.7		2.7
Benzo(a)pyrene	5.8		2.7
Benzo(b)fluoranthene	5.5		2.7
Benzo(g,h,i)perylene	2.2	J	2.7
Benzo(k)fluoranthene	9.5		2.7
Benzoic acid	ND		13
Benzyl alcohol	ND		2.7
Butyl benzyl phthalate	ND		2.7
Chrysene	7.0		2.7
Cyclohexane, 1,2-dimethyl-3-pentyl-4 -propyl-	4.7	J	
Di-n-butyl phthalate	ND		2.7
Di-n-octyl phthalate	ND		2.7
Dibenz(a,h)anthracene	0.76	J	2.7
Dibenz(a,j)acridine	ND		--
Dibenzofuran	1.1	J	2.7
Diethyl phthalate	ND		2.7
Dimethyl phthalate	ND		2.7
Diphenylamine	ND		2.7
Dodecane	3.9	J	
Dodecane, 2,6,10-trimethyl-	4.7	J	
Dodecane, 6-methyl-	1.8	J	
Ethyl methanesulfonate	ND		2.7
Fluoranthene	21		2.7
Fluorene	1.4	J	2.7
Heptadecane, 2,6-dimethyl-	3.7	J	
Hexachlorobenzene	ND		2.7
Hexachlorobutadiene	ND		2.7
Hexachlorocyclopentadiene	ND		13
Hexachloroethane	ND		2.7
Indeno(1,2,3-cd)pyrene	2.2	J	2.7
Isophorone	ND		2.7
Methyl methanesulfonate	ND		2.7
N-Nitroso-di-n-butylamine	ND		2.7
N-Nitroso-di-n-propylamine	ND		2.7
N-Nitrosodiphenylamine	ND		2.7
N-Nitrosopiperidine	ND		2.7
Naphthalene	2.1	J	2.7
Naphthalene, 1,8-dimethyl-	2.3	J	
Neopentylidenecyclohexane	2.6	J	
Nitrobenzene	ND		2.7
Pentachlorobenzene	ND		2.7
Pentachloronitrobenzene	ND		13
Pentachlorophenol	ND		13
Perylene	4.5	J	
Perylene	5.0	J	
Phenacetin	ND		5.4
Phenanthrene	14		2.7
Phenol	ND		2.7
Phosphoric acid, 2-ethylhexyl diphenyl ester	5.8	J	
Pronamide	ND		5.4

Matrix : SEDIMENT

Client Description	**SC-QW04-SD-903**
Sample Depth in feet bgs (Top, Base)	**(2.00,2.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Pyrene	12		2.7
Saturated Hydrocarbon	11	J	
Saturated Hydrocarbon	2.1	J	
Saturated Hydrocarbon	2.7	J	
Saturated Hydrocarbon	4.1	J	
Saturated Hydrocarbon	4.9	J	
Saturated Hydrocarbon	5.7	J	
Saturated Hydrocarbon	6.1	J	
Saturated Hydrocarbon	6.3	J	
Saturated Hydrocarbon	8.7	J	
Saturated Hydrocarbon	9.2	J	
Tricyclo[4.3.1.13,8]undecane,1-chloro-	2.7	J	
a,a-Dimethylphenethyl-amine	ND		13
bis(2-Chloroethoxy)methane	ND		2.7
bis(2-Chloroethyl) ether	ND		2.7
bis(2-Ethylhexyl)phthalate	19		2.7
p-Dimethylaminoazobenzene	ND		5.4

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.27
4,4'-DDE	ND		0.27
4,4'-DDT	ND		0.27
Aldrin	ND		0.14
Aroclor 1016	ND		2.7
Aroclor 1221	ND		2.7
Aroclor 1232	ND		2.7
Aroclor 1242	ND		2.7
Aroclor 1248	ND		2.7
Aroclor 1254	10		2.7
Aroclor 1260	ND		2.7
Dieldrin	ND		0.27
Endosulfan I	ND		0.14
Endosulfan II	ND		0.27
Endosulfan sulfate	ND		0.27
Endrin	ND		0.27
Endrin aldehyde	ND		0.27
Heptachlor	ND		0.14
Heptachlor epoxide	ND		0.14
Methoxychlor	ND		1.4
Toxaphene	ND		14
alpha-BHC	ND		0.14
alpha-Chlordane	ND		0.14
beta-BHC	ND		0.14
delta-BHC	ND		0.14
gamma-BHC (Lindane)	ND		0.14
gamma-Chlordane	ND		0.14

Matrix : SEDIMENT

Client Description	SC-QW05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0067
1,1,1-Trichloroethane	ND		0.0067
1,1,2,2-Tetrachloroethane	ND		0.0067
1,1,2-Trichloroethane	ND		0.0067
1,1-Dichloroethane	ND		0.0067
1,1-Dichloroethene	ND		0.0067
1,2,3-Trichloropropane	ND		0.0067
1,2-Dichloroethane	ND		0.0067
1,2-Dichloropropane	ND		0.0067
2-Butanone (MEK)	ND		0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	0.0019	J	0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0067
Bromodichloromethane	ND		0.0067
Bromoform	ND		0.0067
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0067
Carbon tetrachloride	ND		0.0067
Chlorobenzene	ND		0.0067
Chloroethane	ND		0.013
Chloroform	ND		0.0067
Chloromethane	ND		0.013
Dibromochloromethane	ND		0.0067
Dibromomethane	ND		0.0067
Dichlorodifluoromethane	ND		0.027
Ethanol	ND		0.67
Ethyl methacrylate	ND		0.027
Ethylbenzene	ND		0.0067
Iodomethane	ND		0.0067
Methylene chloride	0.0018	J	0.0067
None Detected	ND		
Styrene	ND		0.0067
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0067
Toluene	ND		0.0067
Trichloroethene	ND		0.0067
Trichlorofluoromethane	ND		0.0067
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0067
cis-1,3-Dichloropropene	ND		0.0067
trans-1,2-Dichloroethene	ND		0.0067
trans-1,3-Dichloropropene	ND		0.0067
trans-1,4-Dichloro-2-butene	ND		0.0067

Matrix : SEDIMENT

Client Description	SC-QW05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	2810		13.3
Antimony	ND		8.0
Arsenic	1.6		0.67
Barium	631		1.3
Beryllium	ND		0.27
Cadmium	7.7		0.67
Calcium	112000		26.7
Chromium	115		1.3
Cobalt	7.2		1.3
Copper	17.2		2.7
Iron	6230		13.3
Lead	253		6.7
Magnesium	5210		26.7
Manganese	233		1.3
Mercury	0.055		0.044
Molybdenum	4.9		2.7
Nickel	150		5.3
Potassium	200	J	667
Selenium	ND		6.7
Silver	15.7		1.3
Sodium	ND		667
Thallium	ND		267
Vanadium	10.1		1.3
Zinc	81.1		2.7

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		2.2
1,2,4-Trichlorobenzene	ND		2.2
1,2-Dichlorobenzene	ND		2.2
1,3-Dichlorobenzene	ND		2.2
1,4-Dichlorobenzene	ND		2.2
1-Chloronaphthalene	ND		11
1-Naphthylamine	ND		2.2
11H-Benzo[b]fluorene	1.8	J	
11H-Benzo[b]fluorene	2.2	J	
11H-Benzo[b]fluorene	3.2	J	
2,2'-oxybis(1-chloropropane)	ND		2.2
2,3,4,6-Tetrachlorophenol	ND		11
2,4,5-Trichlorophenol	ND		2.2
2,4,6-Trichlorophenol	ND		2.2
2,4-Dichlorophenol	ND		2.2
2,4-Dimethylphenol	ND		2.2
2,4-Dinitrophenol	ND		11
2,4-Dinitrotoluene	ND		2.2
2,6-Dichlorophenol	ND		2.2
2,6-Dinitrotoluene	ND		2.2
2-Chloronaphthalene	ND		2.2
2-Chlorophenol	ND		2.2
2-Methylnaphthalene	0.28	J	2.2
2-Methylphenol	ND		2.2
2-Naphthylamine	ND		2.2
2-Nitrophenol	ND		2.2
2-Pentanone, 4-hydroxy-4-methyl-	8.3	JAB	
2-Picoline	ND		4.4
3,3'-Dichlorobenzidine	ND		11
3,3'-Dimethylbenzidine	ND		11
3,4-Dihydrocyclopenta(cd)pyrene (acepyrene)	1.5	J	
3-Methyl-p-anisaldehyde	2.8	J	
3-Methyl-p-anisaldehyde	7.9	J	
3-Methylcholanthrene	ND		4.4
3-Nitroaniline	ND		11
3/4-Methylphenol	ND		2.2
4,6-Dinitro-2-methylphenol	ND		11

Matrix : SEDIMENT

Client Description	SC-QW05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Aminobiphenyl	ND		11
4-Bromophenyl phenyl ether	ND		2.2
4-Chloro-3-methylphenol	ND		2.2
4-Chloroaniline	ND		2.2
4-Chlorophenyl phenyl ether	ND		2.2
4-Nitroaniline	ND		11
4-Nitrophenol	ND		11
4H-Cyclopenta[def]phenanthrene	2.6	J	
7,12-Dimethylbenz(a)-anthracene	ND		4.4
7H-Benz[de]anthracen-7-one	1.2	J	
7H-Benz[de]anthracen-7-one	2.0	J	
9,10-Anthracenedione	1.2	J	
Acenaphthene	2.0	J	2.2
Acenaphthylene	ND		2.2
Acetophenone	ND		2.2
Aniline	ND		2.2
Anthracene	3.2		2.2
Anthracene, 1-methyl-	1.3	J	
Azobenzene	ND		2.2
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis-	1.5	J	
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis-	2.0	J	
Benzidine	ND		37
Benzo(a)anthracene	9.9		2.2
Benzo(a)pyrene	7.9		2.2
Benzo(b)fluoranthene	9.4		2.2
Benzo(g,h,i)perylene	3.9		2.2
Benzo(j)fluoranthene	1.6	J	
Benzo(j)fluoranthene	1.7	J	
Benzo(k)fluoranthene	8.3		2.2
Benzo[a]pyrene, 4,5-dihydro-	1.3	J	
Benzo[b]naphtho[2,3-d]thiophene	1.9	J	
Benzo[ghi]fluoranthene	2.1	J	
Benzoic acid	ND		11
Benzoic acid, 2-(4-methylbenzoyl)-	1.5	J	
Benzyl alcohol	ND		2.2
Butyl benzyl phthalate	0.47	J	2.2
Carbazole	1.8	J	
Chrysene	12		2.2
Cyclopropanenonanoic acid, 2-[(2-butylcyclopropyl	7.8	Jz	
Di-n-butyl phthalate	ND		2.2
Di-n-octyl phthalate	0.66	J	2.2
Dibenz(a,h)anthracene	0.36	J	2.2
Dibenz(a,j)acridine	ND		--
Dibenzofuran	1.2	J	2.2
Diethyl phthalate	ND		2.2
Dimethyl phthalate	ND		2.2
Diphenylamine	ND		2.2
Ethyl methanesulfonate	ND		2.2
Fluoranthene	27		2.2
Fluorene	2.2	J	2.2
Hexachlorobenzene	ND		2.2
Hexachlorobutadiene	ND		2.2
Hexachlorocyclopentadiene	ND		11
Hexachloroethane	ND		2.2
Indeno(1,2,3-cd)pyrene	4.3		2.2
Isophorone	ND		2.2
Methyl methanesulfonate	ND		2.2
N-Nitroso-di-n-butylamine	ND		2.2
N-Nitroso-di-n-propylamine	ND		2.2
N-Nitrosodiphenylamine	ND		2.2
N-Nitrosopiperidine	ND		2.2
Naphthalene	0.69	J	2.2
Nitrobenzene	ND		2.2
Pentachlorobenzene	ND		2.2
Pentachloronitrobenzene	ND		11
Pentachlorophenol	ND		11
Perylene	2.1	J	

Matrix : SEDIMENT

Client Description	SC-QW05-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Perylene	6.3	J	
Phenacetin	ND		4.4
Phenanthrene	21		2.2
Phenanthrene, 3-methyl-	0.99	J	
Phenol	ND		2.2
Phthalic acid, allyl ethyl ester	21	J	
Pronamide	ND		4.4
Pyrazine, 3,5-diethyl-2-methyl-	3.2	J	
Pyrene	25		2.2
TID Compound 29	ND		
TID Compound 30	ND		
Triphenylene	1.7	J	
a,a-Dimethylphenethyl-amine	ND		11
bis(2-Chloroethoxy)methane	ND		2.2
bis(2-Chloroethyl) ether	ND		2.2
bis(2-Ethylhexyl)phthalate	1.4	J	2.2
p-Dimethylaminoazobenzene	ND		4.4

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.088
4,4'-DDE	ND		0.088
4,4'-DDT	ND		0.088
Aldrin	ND		0.045
Aroclor 1016	ND		0.88
Aroclor 1221	ND		0.88
Aroclor 1232	ND		0.88
Aroclor 1242	ND		0.88
Aroclor 1248	ND		0.88
Aroclor 1254	6.0		0.88
Aroclor 1260	ND		0.88
Dieldrin	ND		0.088
Endosulfan I	ND		0.045
Endosulfan II	ND		0.088
Endosulfan sulfate	ND		0.088
Endrin	ND		0.088
Endrin aldehyde	ND		0.088
Heptachlor	ND		0.045
Heptachlor epoxide	ND		0.045
Methoxychlor	ND		0.45
Toxaphene	ND		4.5
alpha-BHC	ND		0.045
alpha-Chlordane	ND		0.045
beta-BHC	ND		0.045
delta-BHC	ND		0.045
gamma-BHC (Lindane)	ND		0.045
gamma-Chlordane	ND		0.045

Matrix : SEDIMENT

Client Description	SC-QW06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	ND		0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	0.0020	J	0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	SC-QW06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	1800		11.9
Antimony	ND		7.2
Arsenic	1.8		0.60
Barium	327		1.2
Beryllium	ND		0.24
Cadmium	3.3		0.60
Calcium	74000		23.9
Chromium	17.3		1.2
Cobalt	6.1		1.2
Copper	6.4		2.4
Iron	5150		11.9
Lead	7.1		6.0
Magnesium	7630		23.9
Manganese	751		1.2
Mercury	ND		0.039
Molybdenum	ND		2.4
Nickel	32.8		4.8
Potassium	300	J	597
Selenium	ND		1.2
Silver	4.5		1.2
Sodium	ND		597
Thallium	ND		239
Vanadium	11.1		1.2
Zinc	33.3		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
1,1'-Biphenyl, 2,3,4,4',6-pentachloro-	0.17	J	
1,2,4,5-Tetrachloro-benzene	ND		0.39
1,2,4-Trichlorobenzene	ND		0.39
1,2-Dichlorobenzene	ND		0.39
1,22-Docosanediol	0.23	J	
1,3-Dichlorobenzene	ND		0.39
1,4-Dichlorobenzene	ND		0.39
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.39
2,2'-oxybis(1-chloropropane)	ND		0.39
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.39
2,4,6-Trichlorophenol	ND		0.39
2,4-Dichlorophenol	ND		0.39
2,4-Dimethylphenol	ND		0.39
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.39
2,6-Dichlorophenol	ND		0.39
2,6-Dinitrotoluene	ND		0.39
2-Chloronaphthalene	ND		0.39
2-Chlorophenol	ND		0.39
2-Methylnaphthalene	ND		0.39
2-Methylphenol	ND		0.39
2-Naphthylamine	ND		0.39
2-Nitrophenol	ND		0.39
2-Pentanone, 4-hydroxy-4-methyl-	6.2	JAB	
2-Picoline	ND		0.79
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.79
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.39
4,6-Dinitro-2-methylphenol	ND		1.9
4,7-Methano-1H-indene, octahydro-	0.21	J	
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.39
4-Chloro-3-methylphenol	ND		0.39

Matrix : SEDIMENT

Client Description	SC-QW06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4-Chloroaniline	ND		0.39
4-Chlorophenyl phenyl ether	ND		0.39
4-Nitroaniline	ND		1.9
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.79
Acenaphthene	ND		0.39
Acenaphthylene	ND		0.39
Acetophenone	ND		0.39
Aniline	ND		0.39
Anthracene	ND		0.39
Anthracene, 9-dodecyltetradecahydro-	0.20	J	
Azobenzene	ND		0.39
Benzidine	ND		6.7
Benzo(a)anthracene	0.098	J	0.39
Benzo(a)pyrene	0.096	J	0.39
Benzo(b)fluoranthene	0.12	J	0.39
Benzo(g,h,i)perylene	0.042	J	0.39
Benzo(k)fluoranthene	0.16	J	0.39
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.39
Butyl benzyl phthalate	ND		0.39
Chrysene	0.13	J	0.39
Citronella	0.36	J	
Cyclohexane,1,2,4,5-tetraethyl-, (1.alpha.,2.alp!	0.27	Jz	
Di-n-butyl phthalate	ND		0.39
Di-n-octyl phthalate	ND		0.39
Dibenz(a,h)anthracene	ND		0.39
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.39
Diethyl phthalate	ND		0.39
Dimethyl phthalate	ND		0.39
Diphenylamine	ND		0.39
Ethyl methanesulfonate	ND		0.39
Fluoranthene	0.29	J	0.39
Fluorene	ND		0.39
Heptacosane	0.28	J	
Hexachlorobenzene	ND		0.39
Hexachlorobutadiene	ND		0.39
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.39
Indeno(1,2,3-cd)pyrene	0.041	J	0.39
Isophorone	ND		0.39
Methyl methanesulfonate	ND		0.39
N-Nitroso-di-n-butylamine	ND		0.39
N-Nitroso-di-n-propylamine	ND		0.39
N-Nitrosodiphenylamine	ND		0.39
N-Nitrosopiperidine	ND		0.39
Naphthalene	ND		0.39
Nitrobenzene	ND		0.39
Pentachlorobenzene	ND		0.39
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.79
Phenanthrene	0.13	J	0.39
Phenol	ND		0.39
Pronamide	ND		0.79
Pyrene	0.26	J	0.39
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		

Matrix : SEDIMENT

Client Description	SC-QW06-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
Tetracosane	0.18	J	
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.39
bis(2-Chloroethyl) ether	ND		0.39
bis(2-Ethylhexyl)phthalate	0.16	J	0.39
p-Dimethylaminoazobenzene	ND		0.79

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/20/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.039
4,4'-DDE	ND		0.039
4,4'-DDT	ND		0.039
Aldrin	ND		0.020
Aroclor 1016	ND		0.39
Aroclor 1221	ND		0.39
Aroclor 1232	ND		0.39
Aroclor 1242	ND		0.39
Aroclor 1248	ND		0.39
Aroclor 1254	1.9		0.39
Aroclor 1260	ND		0.39
Dieldrin	ND		0.039
Endosulfan I	ND		0.020
Endosulfan II	ND		0.039
Endosulfan sulfate	ND		0.039
Endrin	ND		0.039
Endrin aldehyde	ND		0.039
Heptachlor	ND		0.020
Heptachlor epoxide	ND		0.020
Methoxychlor	ND		0.20
Toxaphene	ND		2.0
alpha-BHC	ND		0.020
alpha-Chlordane	ND		0.020
beta-BHC	ND		0.020
delta-BHC	ND		0.020
gamma-BHC (Lindane)	ND		0.020
gamma-Chlordane	ND		0.020

Matrix : SEDIMENT

Client Description	SC-QW07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0066
1,1,1-Trichloroethane	ND		0.0066
1,1,2,2-Tetrachloroethane	ND		0.0066
1,1,2-Trichloroethane	ND		0.0066
1,1-Dichloroethane	ND		0.0066
1,1-Dichloroethene	ND		0.0066
1,2,3-Trichloropropane	ND		0.0066
1,2-Dichloroethane	ND		0.0066
1,2-Dichloropropane	ND		0.0066
2-Butanone (MEK)	ND		0.013
2-Chloroethyl vinyl ether	ND		0.013
2-Hexanone	ND		0.013
4-Methyl-2-pentanone (MIBK)	ND		0.013
Acetone	ND		0.013
Acrolein	ND		0.13
Acrylonitrile	ND		0.13
Benzene	ND		0.0066
Bromodichloromethane	ND		0.0066
Bromoform	ND		0.0066
Bromomethane	ND		0.013
Carbon disulfide	ND		0.0066
Carbon tetrachloride	ND		0.0066
Chlorobenzene	ND		0.0066
Chloroethane	ND		0.013
Chloroform	ND		0.0066
Chloromethane	ND		0.013
Dibromochloromethane	ND		0.0066
Dibromomethane	ND		0.0066
Dichlorodifluoromethane	ND		0.026
Ethanol	ND		0.66
Ethyl methacrylate	ND		0.026
Ethylbenzene	ND		0.0066
Iodomethane	ND		0.0066
Methylene chloride	ND		0.0066
None Detected	ND		
Styrene	ND		0.0066
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0066
Toluene	ND		0.0066
Trichloroethene	ND		0.0066
Trichlorofluoromethane	ND		0.0066
Vinyl acetate	ND		0.013
Vinyl chloride	ND		0.013
Xylenes (total)	ND		0.0066
cis-1,3-Dichloropropene	ND		0.0066
trans-1,2-Dichloroethene	ND		0.0066
trans-1,3-Dichloropropene	ND		0.0066
trans-1,4-Dichloro-2-butene	ND		0.0066

Matrix : SEDIMENT

Client Description	SC-QW07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	13300		13.2
Antimony	ND		7.9
Arsenic	2.1		0.66
Barium	534		1.3
Beryllium	0.70		0.26
Cadmium	ND		0.66
Calcium	7390		26.4
Chromium	24.3		1.3
Cobalt	20.1		1.3
Copper	7.1		2.6
Iron	21400		13.2
Lead	20.7		6.6
Magnesium	2110		26.4
Manganese	1510		1.3
Mercury	0.016	J	0.044
Molybdenum	ND		2.6
Nickel	27.6		5.3
Potassium	1260		661
Selenium	ND		0.66
Silver	ND		1.3
Sodium	ND		661
Thallium	ND		264
Vanadium	35.5		1.3
Zinc	22.6		2.6

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.44
1,2,4-Trichlorobenzene	ND		0.44
1,2-Dichlorobenzene	ND		0.44
1,3-Dichlorobenzene	ND		0.44
1,4-Dichlorobenzene	ND		0.44
1-Chloronaphthalene	ND		2.1
1-Naphthylamine	ND		0.44
2,2'-oxybis(1-chloropropane)	ND		0.44
2,3,4,6-Tetrachlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		0.44
2,4,6-Trichlorophenol	ND		0.44
2,4-Dichlorophenol	ND		0.44
2,4-Dimethylphenol	ND		0.44
2,4-Dinitrophenol	ND		2.1
2,4-Dinitrotoluene	ND		0.44
2,6-Dichlorophenol	ND		0.44
2,6-Dinitrotoluene	ND		0.44
2-Chloronaphthalene	ND		0.44
2-Chlorophenol	ND		0.44
2-Methylnaphthalene	ND		0.44
2-Methylphenol	ND		0.44
2-Naphthylamine	ND		0.44
2-Nitrophenol	ND		0.44
2-Pentanone, 4-hydroxy-4-methyl-	4.3	JAB	
2-Picoline	ND		0.87
3,3'-Dichlorobenzidine	ND		2.1
3,3'-Dimethylbenzidine	ND		2.1
3-Hexene-2,5-diol	0.27	J	
3-Methylcholanthrene	ND		0.87
3-Nitroaniline	ND		2.1
3/4-Methylphenol	ND		0.44
4,6-Dinitro-2-methylphenol	ND		2.1
4-Aminobiphenyl	ND		2.1
4-Bromophenyl phenyl ether	ND		0.44
4-Chloro-3-methylphenol	ND		0.44
4-Chloroaniline	ND		0.44
4-Chlorophenyl phenyl ether	ND		0.44

Matrix : SEDIMENT

Client Description	SC-QW07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitroaniline	ND		2.1
4-Nitrophenol	ND		2.1
7,12-Dimethylbenz(a)-anthracene	ND		0.87
Acenaphthene	ND		0.44
Acenaphthylene	ND		0.44
Acetophenone	ND		0.44
Aniline	ND		0.44
Anthracene	ND		0.44
Azobenzene	ND		0.44
Benzidine	ND		7.4
Benzo(a)anthracene	ND		0.44
Benzo(a)pyrene	ND		0.44
Benzo(b)fluoranthene	ND		0.44
Benzo(g,h,i)perylene	ND		0.44
Benzo(k)fluoranthene	ND		0.44
Benzoic acid	ND		2.1
Benzyl alcohol	ND		0.44
Butyl benzyl phthalate	ND		0.44
Caryophyllene	0.22	J	
Chrysene	ND		0.44
Di-n-butyl phthalate	ND		0.44
Di-n-octyl phthalate	ND		0.44
Dibenz(a,h)anthracene	ND		0.44
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.44
Diethyl phthalate	ND		0.44
Dimethyl phthalate	ND		0.44
Diphenylamine	ND		0.44
Ethyl methanesulfonate	ND		0.44
Fluoranthene	0.074	J	0.44
Fluorene	ND		0.44
Hexachlorobenzene	ND		0.44
Hexachlorobutadiene	ND		0.44
Hexachlorocyclopentadiene	ND		2.1
Hexachloroethane	ND		0.44
Indeno(1,2,3-cd)pyrene	ND		0.44
Isophorone	ND		0.44
Methyl methanesulfonate	ND		0.44
N-Nitroso-di-n-butylamine	ND		0.44
N-Nitroso-di-n-propylamine	ND		0.44
N-Nitrosodiphenylamine	ND		0.44
N-Nitrosopiperidine	ND		0.44
Naphthalene	ND		0.44
Nitrobenzene	ND		0.44
Pentachlorobenzene	ND		0.44
Pentachloronitrobenzene	ND		2.1
Pentachlorophenol	ND		2.1
Phenacetin	ND		0.87
Phenanthrene	ND		0.44
Phenol	ND		0.44
Pronamide	ND		0.87
Pyrene	0.079	J	0.44
Siloxane	0.25	J	
Sterol	0.29	J	
Sterol	0.38	J	
Sterol	0.46	J	
Sterol	1.9	J	
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		

Matrix : SEDIMENT

Client Description	SC-QW07-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		2.1
bis(2-Chloroethoxy)methane	ND		0.44
bis(2-Chloroethyl) ether	ND		0.44
bis(2-Ethylhexyl)phthalate	ND		0.44
p-Dimethylaminoazobenzene	ND		0.87

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0044
4,4'-DDE	ND		0.0044
4,4'-DDT	ND		0.0044
Aldrin	ND		0.0022
Aroclor 1016	ND		0.044
Aroclor 1221	ND		0.044
Aroclor 1232	ND		0.044
Aroclor 1242	ND		0.044
Aroclor 1248	ND		0.044
Aroclor 1254	ND		0.044
Aroclor 1260	ND		0.044
Dieldrin	ND		0.0044
Endosulfan I	ND		0.0022
Endosulfan II	ND		0.0044
Endosulfan sulfate	ND		0.0044
Endrin	ND		0.0044
Endrin aldehyde	ND		0.0044
Heptachlor	ND		0.0022
Heptachlor epoxide	ND		0.0022
Methoxychlor	ND		0.022
Toxaphene	ND		0.22
alpha-BHC	ND		0.0022
alpha-Chlordane	ND		0.0022
beta-BHC	ND		0.0022
delta-BHC	ND		0.0022
gamma-BHC (Lindane)	ND		0.0022
gamma-Chlordane	ND		0.0022

Matrix : SEDIMENT

Client Description	SC-QW07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0062
1,1,1-Trichloroethane	ND		0.0062
1,1,2,2-Tetrachloroethane	ND		0.0062
1,1,2-Trichloroethane	ND		0.0062
1,1-Dichloroethane	ND		0.0062
1,1-Dichloroethene	ND		0.0062
1,2,3-Trichloropropane	ND		0.0062
1,2-Dichloroethane	ND		0.0062
1,2-Dichloropropane	ND		0.0062
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.025	B	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0062
Bromodichloromethane	ND		0.0062
Bromoform	ND		0.0062
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0062
Carbon tetrachloride	ND		0.0062
Chlorobenzene	ND		0.0062
Chloroethane	ND		0.012
Chloroform	ND		0.0062
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0062
Dibromomethane	ND		0.0062
Dichlorodifluoromethane	ND		0.025
Ethanol	ND		0.62
Ethyl methacrylate	ND		0.025
Ethylbenzene	ND		0.0062
Iodomethane	ND		0.0062
Methylene chloride	ND		0.0062
None Detected	ND		
Styrene	ND		0.0062
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0062
Toluene	ND		0.0062
Trichloroethene	ND		0.0062
Trichlorofluoromethane	ND		0.0062
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0062
cis-1,3-Dichloropropene	ND		0.0062
trans-1,2-Dichloroethene	ND		0.0062
trans-1,3-Dichloropropene	ND		0.0062
trans-1,4-Dichloro-2-butene	ND		0.0062

Matrix : SEDIMENT

Client Description	SC-QW07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	10700		12.5
Antimony	ND		7.5
Arsenic	2.6		0.62
Barium	416		1.2
Beryllium	0.48		0.25
Cadmium	ND		0.62
Calcium	2000		25.0
Chromium	18.1		1.2
Cobalt	5.6		1.2
Copper	8.0		2.5
Iron	13200		12.5
Lead	12.4		6.2
Magnesium	1710		25.0
Manganese	313		1.2
Mercury	ND		0.041
Molybdenum	ND		2.5
Nickel	11.5		5.0
Potassium	1050		625
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		625
Thallium	ND		250
Vanadium	25.7		1.2
Zinc	21.0		2.5

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.41
1,2,4-Trichlorobenzene	ND		0.41
1,2-Dichlorobenzene	ND		0.41
1,3-Dichlorobenzene	ND		0.41
1,4-Dichlorobenzene	ND		0.41
1-Chloronaphthalene	ND		2.0
1-Naphthylamine	ND		0.41
2,2'-oxybis(1-chloropropane)	ND		0.41
2,3,4,6-Tetrachlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		0.41
2,4,6-Trichlorophenol	ND		0.41
2,4-Dichlorophenol	ND		0.41
2,4-Dimethylphenol	ND		0.41
2,4-Dinitrophenol	ND		2.0
2,4-Dinitrotoluene	ND		0.41
2,6-Dichlorophenol	ND		0.41
2,6-Dinitrotoluene	ND		0.41
2-Chloronaphthalene	ND		0.41
2-Chlorophenol	ND		0.41
2-Methylnaphthalene	ND		0.41
2-Methylphenol	ND		0.41
2-Naphthylamine	ND		0.41
2-Nitrophenol	ND		0.41
2-Pentanone, 4-hydroxy-4-methyl-	3.5	JAB	
2-Picoline	ND		0.82
3,3'-Dichlorobenzidine	ND		2.0
3,3'-Dimethylbenzidine	ND		2.0
3-Methylcholanthrene	ND		0.82
3-Nitroaniline	ND		2.0
3/4-Methylphenol	ND		0.41
4,6-Dinitro-2-methylphenol	ND		2.0
4-Aminobiphenyl	ND		2.0
4-Bromophenyl phenyl ether	ND		0.41
4-Chloro-3-methylphenol	ND		0.41
4-Chloroaniline	ND		0.41
4-Chlorophenyl phenyl ether	ND		0.41
4-Nitroaniline	ND		2.0

Matrix : SEDIMENT

Client Description	SC-QW07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		2.0
7,12-Dimethylbenz(a)-anthracene	ND		0.82
Acenaphthene	ND		0.41
Acenaphthylene	ND		0.41
Acetophenone	ND		0.41
Aniline	ND		0.41
Anthracene	ND		0.41
Azobenzene	ND		0.41
Benzidine	ND		7.0
Benzo(a)anthracene	ND		0.41
Benzo(a)pyrene	ND		0.41
Benzo(b)fluoranthene	ND		0.41
Benzo(g,h,i)perylene	ND		0.41
Benzo(k)fluoranthene	ND		0.41
Benzoic acid	ND		2.0
Benzyl alcohol	ND		0.41
Butyl benzyl phthalate	ND		0.41
Chrysene	ND		0.41
Di-n-butyl phthalate	ND		0.41
Di-n-octyl phthalate	ND		0.41
Dibenz(a,h)anthracene	ND		0.41
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.41
Diethyl phthalate	ND		0.41
Dimethyl phthalate	ND		0.41
Diphenylamine	ND		0.41
Ethyl methanesulfonate	ND		0.41
Fluoranthene	ND		0.41
Fluorene	ND		0.41
Hexachlorobenzene	ND		0.41
Hexachlorobutadiene	ND		0.41
Hexachlorocyclopentadiene	ND		2.0
Hexachloroethane	ND		0.41
Indeno(1,2,3-cd)pyrene	ND		0.41
Isophorone	ND		0.41
Methyl methanesulfonate	ND		0.41
N-Nitroso-di-n-butylamine	ND		0.41
N-Nitroso-di-n-propylamine	ND		0.41
N-Nitrosodiphenylamine	ND		0.41
N-Nitrosopiperidine	ND		0.41
Naphthalene	ND		0.41
Nitrobenzene	ND		0.41
Pentachlorobenzene	ND		0.41
Pentachloronitrobenzene	ND		2.0
Pentachlorophenol	ND		2.0
Phenacetin	ND		0.82
Phenanthrene	ND		0.41
Phenol	ND		0.41
Pronamide	ND		0.82
Pyrene	ND		0.41
Saturated Hydrocarbon	0.18	J	
Sterol	1.7	J	
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QW07-SD-902
Sample Depth in feet bgs (Top, Base)	(0.50,1.00)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		2.0
bis(2-Chloroethoxy)methane	ND		0.41
bis(2-Chloroethyl) ether	ND		0.41
bis(2-Ethylhexyl)phthalate	ND		0.41
p-Dimethylaminoazobenzene	ND		0.82

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0041
4,4'-DDE	ND		0.0041
4,4'-DDT	ND		0.0041
Aldrin	ND		0.0021
Aroclor 1016	ND		0.041
Aroclor 1221	ND		0.041
Aroclor 1232	ND		0.041
Aroclor 1242	ND		0.041
Aroclor 1248	ND		0.041
Aroclor 1254	ND		0.041
Aroclor 1260	ND		0.041
Dieldrin	ND		0.0041
Endosulfan I	ND		0.0021
Endosulfan II	ND		0.0041
Endosulfan sulfate	ND		0.0041
Endrin	ND		0.0041
Endrin aldehyde	ND		0.0041
Heptachlor	ND		0.0021
Heptachlor epoxide	ND		0.0021
Methoxychlor	ND		0.021
Toxaphene	ND		0.21
alpha-BHC	ND		0.0021
alpha-Chlordane	ND		0.0021
beta-BHC	ND		0.0021
delta-BHC	ND		0.0021
gamma-BHC (Lindane)	ND		0.0021
gamma-Chlordane	ND		0.0021

Matrix : SEDIMENT

Client Description	SC-QW07-SD-903
Sample Depth in feet bgs (Top, Base)	(3.00,3.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0060
1,1,1-Trichloroethane	ND		0.0060
1,1,2,2-Tetrachloroethane	ND		0.0060
1,1,2-Trichloroethane	ND		0.0060
1,1-Dichloroethane	ND		0.0060
1,1-Dichloroethene	ND		0.0060
1,2,3-Trichloropropane	ND		0.0060
1,2-Dichloroethane	ND		0.0060
1,2-Dichloropropane	ND		0.0060
2-Butanone (MEK)	ND		0.012
2-Chloroethyl vinyl ether	ND		0.012
2-Hexanone	ND		0.012
4-Methyl-2-pentanone (MIBK)	ND		0.012
Acetone	0.0034	JB	0.012
Acrolein	ND		0.12
Acrylonitrile	ND		0.12
Benzene	ND		0.0060
Bromodichloromethane	ND		0.0060
Bromoform	ND		0.0060
Bromomethane	ND		0.012
Carbon disulfide	ND		0.0060
Carbon tetrachloride	ND		0.0060
Chlorobenzene	ND		0.0060
Chloroethane	ND		0.012
Chloroform	ND		0.0060
Chloromethane	ND		0.012
Dibromochloromethane	ND		0.0060
Dibromomethane	ND		0.0060
Dichlorodifluoromethane	ND		0.024
Ethanol	ND		0.60
Ethyl methacrylate	ND		0.024
Ethylbenzene	ND		0.0060
Iodomethane	ND		0.0060
Methylene chloride	ND		0.0060
None Detected	ND		
Styrene	ND		0.0060
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0060
Toluene	ND		0.0060
Trichloroethene	ND		0.0060
Trichlorofluoromethane	ND		0.0060
Vinyl acetate	ND		0.012
Vinyl chloride	ND		0.012
Xylenes (total)	ND		0.0060
cis-1,3-Dichloropropene	ND		0.0060
trans-1,2-Dichloroethene	ND		0.0060
trans-1,3-Dichloropropene	ND		0.0060
trans-1,4-Dichloro-2-butene	ND		0.0060

Matrix : SEDIMENT

Client Description	**SC-QW07-SD-903**
Sample Depth in feet bgs (Top, Base)	**(3.00,3.50)**

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	8000		12.1
Antimony	ND		7.2
Arsenic	3.9		0.60
Barium	457		1.2
Beryllium	0.82		0.24
Cadmium	ND		0.60
Calcium	1920		24.2
Chromium	23.9		1.2
Cobalt	9.0		1.2
Copper	13.7		2.4
Iron	20900		12.1
Lead	4.9	J	6.0
Magnesium	2890		24.2
Manganese	258		1.2
Mercury	ND		0.040
Molybdenum	ND		2.4
Nickel	24.3		4.8
Potassium	806		604
Selenium	ND		1.2
Silver	ND		1.2
Sodium	ND		604
Thallium	ND		242
Vanadium	39.9		1.2
Zinc	26.4		2.4

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.40
1,2,4-Trichlorobenzene	ND		0.40
1,2-Dichlorobenzene	ND		0.40
1,3-Dichlorobenzene	ND		0.40
1,4-Dichlorobenzene	ND		0.40
1-Chloronaphthalene	ND		1.9
1-Naphthylamine	ND		0.40
2,2'-oxybis(1-chloropropane)	ND		0.40
2,3,4,6-Tetrachlorophenol	ND		1.9
2,4,5-Trichlorophenol	ND		0.40
2,4,6-Trichlorophenol	ND		0.40
2,4-Dichlorophenol	ND		0.40
2,4-Dimethylphenol	ND		0.40
2,4-Dinitrophenol	ND		1.9
2,4-Dinitrotoluene	ND		0.40
2,6-Dichlorophenol	ND		0.40
2,6-Dinitrotoluene	ND		0.40
2-Chloronaphthalene	ND		0.40
2-Chlorophenol	ND		0.40
2-Methylnaphthalene	ND		0.40
2-Methylphenol	ND		0.40
2-Naphthylamine	ND		0.40
2-Nitrophenol	ND		0.40
2-Pentanone, 4-hydroxy-4-methyl-	6.1	JAB	
2-Picoline	ND		0.80
3,3'-Dichlorobenzidine	ND		1.9
3,3'-Dimethylbenzidine	ND		1.9
3-Methylcholanthrene	ND		0.80
3-Nitroaniline	ND		1.9
3/4-Methylphenol	ND		0.40
4,6-Dinitro-2-methylphenol	ND		1.9
4-Aminobiphenyl	ND		1.9
4-Bromophenyl phenyl ether	ND		0.40
4-Chloro-3-methylphenol	ND		0.40
4-Chloroaniline	ND		0.40
4-Chlorophenyl phenyl ether	ND		0.40
4-Nitroaniline	ND		1.9

Matrix : SEDIMENT

Client Description	**SC-QW07-SD-903**
Sample Depth in feet bgs (Top, Base)	**(3.00,3.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Nitrophenol	ND		1.9
7,12-Dimethylbenz(a)-anthracene	ND		0.80
Acenaphthene	ND		0.40
Acenaphthylene	ND		0.40
Acetophenone	ND		0.40
Aniline	ND		0.40
Anthracene	ND		0.40
Azobenzene	ND		0.40
Benzidine	ND		6.8
Benzo(a)anthracene	ND		0.40
Benzo(a)pyrene	ND		0.40
Benzo(b)fluoranthene	ND		0.40
Benzo(g,h,i)perylene	ND		0.40
Benzo(k)fluoranthene	ND		0.40
Benzoic acid	ND		1.9
Benzyl alcohol	ND		0.40
Butyl benzyl phthalate	ND		0.40
Chrysene	ND		0.40
Cyclohexane, 1,3-dimethyl-, cis-	0.34	J	
Di-n-butyl phthalate	ND		0.40
Di-n-octyl phthalate	ND		0.40
Dibenz(a,h)anthracene	ND		0.40
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.40
Diethyl phthalate	ND		0.40
Dimethyl phthalate	ND		0.40
Diphenylamine	ND		0.40
Ethyl methanesulfonate	ND		0.40
Fluoranthene	ND		0.40
Fluorene	ND		0.40
Hexachlorobenzene	ND		0.40
Hexachlorobutadiene	ND		0.40
Hexachlorocyclopentadiene	ND		1.9
Hexachloroethane	ND		0.40
Indeno(1,2,3-cd)pyrene	ND		0.40
Isophorone	ND		0.40
Methyl methanesulfonate	ND		0.40
N-Nitroso-di-n-butylamine	ND		0.40
N-Nitroso-di-n-propylamine	ND		0.40
N-Nitrosodiphenylamine	ND		0.40
N-Nitrosopiperidine	ND		0.40
Naphthalene	ND		0.40
Nitrobenzene	ND		0.40
Pentachlorobenzene	ND		0.40
Pentachloronitrobenzene	ND		1.9
Pentachlorophenol	ND		1.9
Phenacetin	ND		0.80
Phenanthrene	ND		0.40
Phenol	ND		0.40
Pronamide	ND		0.80
Pyrene	ND		0.40
Siloxane	0.26	J	
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		

Matrix : SEDIMENT

Client Description	SC-QW07-SD-903
Sample Depth in feet bgs (Top, Base)	(3.00,3.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
TID Compound 19	ND		
TID Compound 20	ND		
TID Compound 21	ND		
TID Compound 22	ND		
TID Compound 23	ND		
TID Compound 24	ND		
TID Compound 25	ND		
TID Compound 26	ND		
TID Compound 27	ND		
TID Compound 28	ND		
TID Compound 29	ND		
TID Compound 30	ND		
a,a-Dimethylphenethyl-amine	ND		1.9
bis(2-Chloroethoxy)methane	ND		0.40
bis(2-Chloroethyl) ether	ND		0.40
bis(2-Ethylhexyl)phthalate	ND		0.40
p-Dimethylaminoazobenzene	ND		0.80

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.0040
4,4'-DDE	ND		0.0040
4,4'-DDT	ND		0.0040
Aldrin	ND		0.0021
Aroclor 1016	ND		0.040
Aroclor 1221	ND		0.040
Aroclor 1232	ND		0.040
Aroclor 1242	ND		0.040
Aroclor 1248	ND		0.040
Aroclor 1254	ND		0.040
Aroclor 1260	ND		0.040
Dieldrin	ND		0.0040
Endosulfan I	ND		0.0021
Endosulfan II	ND		0.0040
Endosulfan sulfate	ND		0.0040
Endrin	ND		0.0040
Endrin aldehyde	ND		0.0040
Heptachlor	ND		0.0021
Heptachlor epoxide	ND		0.0021
Methoxychlor	ND		0.021
Toxaphene	ND		0.21
alpha-BHC	ND		0.0021
alpha-Chlordane	ND		0.0021
beta-BHC	ND		0.0021
delta-BHC	ND		0.0021
gamma-BHC (Lindane)	ND		0.0021
gamma-Chlordane	ND		0.0021

Matrix : SEDIMENT

Client Description	SC-TR01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Volatile Organics - Method 8260 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	ND		0.0073
1,1,1-Trichloroethane	ND		0.0073
1,1,2,2-Tetrachloroethane	ND		0.0073
1,1,2-Trichloroethane	ND		0.0073
1,1-Dichloroethane	ND		0.0073
1,1-Dichloroethene	ND		0.0073
1,2,3-Trichloropropane	ND		0.0073
1,2-Dichloroethane	ND		0.0073
1,2-Dichloropropane	ND		0.0073
2-Butanone (MEK)	0.0034	J	0.015
2-Chloroethyl vinyl ether	ND		0.015
2-Hexanone	ND		0.015
4-Methyl-2-pentanone (MIBK)	ND		0.015
Acetone	0.015	B	0.015
Acrolein	ND		0.15
Acrylonitrile	ND		0.15
Benzene	ND		0.0073
Bromodichloromethane	ND		0.0073
Bromoform	ND		0.0073
Bromomethane	ND		0.015
Carbon disulfide	ND		0.0073
Carbon tetrachloride	ND		0.0073
Chlorobenzene	ND		0.0073
Chloroethane	ND		0.015
Chloroform	ND		0.0073
Chloromethane	ND		0.015
Dibromochloromethane	ND		0.0073
Dibromomethane	ND		0.0073
Dichlorodifluoromethane	ND		0.029
Ethanol	ND		0.73
Ethyl methacrylate	ND		0.029
Ethylbenzene	ND		0.0073
Iodomethane	ND		0.0073
Methylene chloride	ND		0.0073
None Detected	ND		
Styrene	ND		0.0073
TID Compound 2	ND		
TID Compound 3	ND		
TID Compound 4	ND		
TID Compound 5	ND		
TID Compound 6	ND		
TID Compound 7	ND		
TID Compound 8	ND		
TID Compound 9	ND		
TID Compound 10	ND		
TID Compound 11	ND		
TID Compound 12	ND		
TID Compound 13	ND		
TID Compound 14	ND		
TID Compound 15	ND		
TID Compound 16	ND		
TID Compound 17	ND		
TID Compound 18	ND		
TID Compound 19	ND		
TID Compound 20	ND		
Tetrachloroethene	ND		0.0073
Toluene	ND		0.0073
Trichloroethene	ND		0.0073
Trichlorofluoromethane	ND		0.0073
Vinyl acetate	ND		0.015
Vinyl chloride	ND		0.015
Xylenes (total)	ND		0.0073
cis-1,3-Dichloropropene	ND		0.0073
trans-1,2-Dichloroethene	ND		0.0073
trans-1,3-Dichloropropene	ND		0.0073
trans-1,4-Dichloro-2-butene	ND		0.0073

Matrix : SEDIMENT

Client Description	SC-TR01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Total Metals - Methods 6010/7060/7471/7740 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Aluminum	9580		14.6
Antimony	ND		8.8
Arsenic	3.1		0.73
Barium	430		1.5
Beryllium	0.42		0.29
Cadmium	75.5		0.73
Calcium	7580		29.2
Chromium	543		1.5
Cobalt	6.0		1.5
Copper	34.1		2.9
Iron	15300		14.6
Lead	94.0		7.3
Magnesium	4740		29.2
Manganese	356		1.5
Mercury	0.45		0.048
Molybdenum	ND		2.9
Nickel	136		5.8
Potassium	1390		730
Selenium	ND		1.5
Silver	9.3		1.5
Sodium	ND		730
Thallium	ND		292
Vanadium	22.4		1.5
Zinc	105		2.9

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-benzene	ND		0.48
1,2,4-Trichlorobenzene	ND		0.48
1,2-Dichlorobenzene	ND		0.48
1,3-Dichlorobenzene	ND		0.48
1,4-Dichlorobenzene	ND		0.48
1-Chloronaphthalene	ND		2.3
1-Naphthylamine	ND		0.48
1H-Indene, 5-butyl-6-hexyloctahydro-	0.52	J	
2,2'-oxybis(1-chloropropane)	ND		0.48
2,3,4,6-Tetrachlorophenol	ND		2.3
2,4,5-Trichlorophenol	ND		0.48
2,4,6-Trichlorophenol	ND		0.48
2,4-Dichlorophenol	ND		0.48
2,4-Dimethylphenol	ND		0.48
2,4-Dinitrophenol	ND		2.3
2,4-Dinitrotoluene	ND		0.48
2,6-Dichlorophenol	ND		0.48
2,6-Dinitrotoluene	ND		0.48
2-Chloronaphthalene	ND		0.48
2-Chlorophenol	ND		0.48
2-Dodecen-1-yl(-)succinic anhydride	0.82	J	
2-Methylnaphthalene	ND		0.48
2-Methylphenol	ND		0.48
2-Naphthylamine	ND		0.48
2-Nitrophenol	ND		0.48
2-Pentanone, 4-hydroxy-4-methyl-	8.1	JAB	
2-Picoline	ND		0.96
3,3'-Dichlorobenzidine	ND		2.3
3,3'-Dimethylbenzidine	ND		2.3
3-Methylcholanthrene	ND		0.96
3-Nitroaniline	ND		2.3
3/4-Methylphenol	ND		0.48
4,6-Dinitro-2-methylphenol	ND		2.3
4-Aminobiphenyl	ND		2.3
4-Bromophenyl phenyl ether	ND		0.48
4-Chloro-3-methylphenol	ND		0.48
4-Chloroaniline	ND		0.48

Matrix : SEDIMENT

Client Description	SC-TR01-SD-901
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4-Chlorophenyl phenyl ether	ND		0.48
4-Nitroaniline	ND		2.3
4-Nitrophenol	ND		2.3
6-Octen-1-ol, 3,7-dimethyl-, acetate	0.69	J	
7,12-Dimethylbenz(a)-anthracene	ND		0.96
Acenaphthene	ND		0.48
Acenaphthylene	ND		0.48
Acetophenone	ND		0.48
Aniline	ND		0.48
Anthracene	ND		0.48
Azobenzene	ND		0.48
Benzidine	ND		8.2
Benzo(a)anthracene	0.10	J	0.48
Benzo(a)pyrene	0.11	J	0.48
Benzo(b)fluoranthene	0.17	J	0.48
Benzo(g,h,i)perylene	0.075	J	0.48
Benzo(k)fluoranthene	0.17	J	0.48
Benzoic acid	ND		2.3
Benzyl alcohol	ND		0.48
Butyl benzyl phthalate	ND		0.48
Cholestan-3-ol, 2-methylene-, (3.beta.,5.alpha.)-	0.61	J	
Cholestan-3-ol, 2-methylene-, (3.beta.,5.alpha.)-	0.64	J	
Cholestan-3-ol, 2-methylene-, (3.beta.,5.alpha.)-	0.73	J	
Cholestan-3-one, 4,4-dimethyl-,(5.alpha.)-	0.26	J	
Chrysene	0.15	J	0.48
Cyclotetradecane, 1,7,11-trimethyl-4-(1-methylet!	0.80	Jz	
Di-n-butyl phthalate	ND		0.48
Di-n-octyl phthalate	ND		0.48
Dibenz(a,h)anthracene	ND		0.48
Dibenz(a,j)acridine	ND		--
Dibenzofuran	ND		0.48
Diethyl phthalate	ND		0.48
Dimethyl phthalate	ND		0.48
Diphenylamine	ND		0.48
Ethyl methanesulfonate	ND		0.48
Fluoranthene	0.31	J	0.48
Fluorene	ND		0.48
Heptadecane, 3-methyl-	0.87	J	
Hexachlorobenzene	ND		0.48
Hexachlorobutadiene	ND		0.48
Hexachlorocyclopentadiene	ND		2.3
Hexachloroethane	ND		0.48
Hexadecanoic acid, 2-hydroxy-,methyl ester	0.31	J	
Hexadecanoic acid, 2-hydroxy-,methyl ester	0.68	J	
Indeno(1,2,3-cd)pyrene	0.069	J	0.48
Isophorone	ND		0.48
Longifolenaldehyde	0.29	J	
Methyl methanesulfonate	ND		0.48
N-Nitroso-di-n-butylamine	ND		0.48
N-Nitroso-di-n-propylamine	ND		0.48
N-Nitrosodiphenylamine	ND		0.48
N-Nitrosopiperidine	ND		0.48
Naphthalene	ND		0.48
Nitrobenzene	ND		0.48
Octadecane, 1-chloro-	0.75	J	
Pentachlorobenzene	ND		0.48
Pentachloronitrobenzene	ND		2.3
Pentachlorophenol	ND		2.3
Phenacetin	ND		0.96
Phenanthrene	0.16	J	0.48
Phenol	ND		0.48
Pronamide	ND		0.96
Pyrene	0.24	J	0.48
Siloxane	0.38	J	
Squalene	0.37	J	
Sterol	0.21	J	
Sterol	0.42	J	

Matrix : SEDIMENT

Client Description	**SC-TR01-SD-901**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Method: Semivolatile Organics - Method 8270 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
Sterol	0.55	J	
Sterol	0.65	J	
Sterol	0.66	J	
Sterol	0.68	J	
Tetracosane	1.3	J	
Tricosane	1.6	J	
Unknown	0.41	J	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.24	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.33	Jz	
[1,2'-Binaphthalene]-5,5',8,8'-tetrone, 1',4-dih!	0.65	Jz	
a,a-Dimethylphenethyl-amine	ND		2.3
bis(2-Chloroethoxy)methane	ND		0.48
bis(2-Chloroethyl) ether	ND		0.48
bis(2-Ethylhexyl)phthalate	0.26	J	0.48
d-Homoandrostane, (5.alpha.,13.alpha.)-	0.76	J	
d-Homoandrostane, (5.alpha.,13.alpha.)-	0.87	J	
p-Dimethylaminoazobenzene	ND		0.96

Method: PCBs and Pesticides - Method 8080 **Units :** mg/kg **Date Collected :** 01/21/97

Compound Name	Result	Footnotes	Detection Limit
4,4'-DDD	ND		0.096
4,4'-DDE	ND		0.096
4,4'-DDT	ND		0.096
Aldrin	ND		0.050
Aroclor 1016	ND		0.96
Aroclor 1221	ND		0.96
Aroclor 1232	ND		0.96
Aroclor 1242	ND		0.96
Aroclor 1248	ND		0.96
Aroclor 1254	ND		0.96
Aroclor 1260	ND		0.96
Dieldrin	ND		0.096
Endosulfan I	ND		0.050
Endosulfan II	ND		0.096
Endosulfan sulfate	ND		0.096
Endrin	ND		0.096
Endrin aldehyde	ND		0.096
Heptachlor	ND		0.050
Heptachlor epoxide	ND		0.050
Methoxychlor	ND		0.50
Toxaphene	ND		5.0
alpha-BHC	ND		0.050
alpha-Chlordane	ND		0.050
beta-BHC	ND		0.050
delta-BHC	ND		0.050
gamma-BHC (Lindane)	ND		0.050
gamma-Chlordane	ND		0.050

APPENDIX E
HEXAVALENT CHROMIUM
ANALYTICAL DATA

SOUTHWELL LABORATORY, INC.
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ODEQ CERT #7218

To: DAPHNE NICKISCH
WOODWARD-CLYDE FEDERAL SERVICES
3000 TOWER DR. STE 456
DEL CITY, OK 73115

PO Number: 406332
Project #: F96515
Project Name: SOLDIER CRK SED & SURF WATER
Date Received: 01/20/1997
Report Date: 01/29/1997

- CERTIFICATE OF ANALYSIS -

Lab Number	Sample Identification	Matrix	Date Sampled	Parameter	Result	MDL	Method
SL9701043	SC-QW06-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/20/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701044	SC-QW06-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	8.42 mg/Kg	0.1	EPA 7196A
SL9701045	SC-QW05-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/20/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701046	SC-QW05-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	<0.25 mg/Kg	0.1	EPA 7196A
SL9701047	SC-QW04-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701048	SC-QW03-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701049	SC-QW02-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701050	SC-QW01-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/20/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701051	SC-QW03-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/20/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701103	SC-QW07-ED-901 1ST EVENT 3RD YEAR MONITORING	SOIL	01/21/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701104	SC-QW07-SD-1401 1ST EVENT 3RD YR MONITORING	SOIL	01/21/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701105	SC-QE11-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/21/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701106	SC-QE10-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/21/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701107	SC-TR01-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/21/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701108	SC-QW07-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/21/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A

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Lab Number	Sample Identification	Matrix	Date Sampled	Parameter	Result	MDL	Method
SL9701109	SC-QW07-SW-1401 1ST EVENT 3RD YR MONITORING	WATER	01/21/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701110	SC-QE10-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/21/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701111	SC-QE11-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/21/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701207	SC-QE09-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/22/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701208	SC-QE09-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/22/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701209	SC-QE08-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/22/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701210	SC-QE08-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/22/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701211	SC-QE06-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/22/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701212	SC-QE06-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/22/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701213	SC-QE07-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/22/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701214	SC-QE07-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/22/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701263	SC-QE05-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/23/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701264	SC-QE05-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/23/1997	CR_HEX-M	<0.1 mg/Kg	0.1	EPA 7196A
SL9701265	SC-QE05-SD-1401 1ST EVENT 3RD YR MONITORING	SOIL	01/23/1997	CR_HEX-M	<0.1 mg/Kg	0.1	EPA 7196A
SL9701266	SC-QE04-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/23/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A

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- CERTIFICATE OF ANALYSIS -

Lab Number	Sample Identification	Matrix	Date Sampled	Parameter	Result	MDL	Method
SL9701267	SC-QE04-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/23/1997	CR_HEX-M	<0.1 mg/Kg	0.1	EPA 7196A
SL9701268	SC-QE01-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/23/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701269	SC-QE01-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/23/1997	CR_HEX-M	<0.1 mg/Kg	0.1	EPA 7196A
SL9701270	SC-QE03-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/23/1997	CR-W-HEX	0.01 mg/L	0.01	EPA 7196A
SL9701271	SC-QE03-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	01/23/1997	CR_HEX-M	<0.5 mg/Kg	0.1	EPA 7196A
SL9701272	SC-QE02-SW-901 1ST EVENT 3RD YR MONITORING	WATER	01/23/1997	CR-W-HEX	<0.01 mg/L	0.01	EPA 7196A
SL9701273	SC-QE02-SD-901 1ST EVENT 3RD YR MONITORING	SOIL	07/01/3012	CR_HEX-M	<0.1 mg/Kg	0.1	EPA 7196A

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ODEQ CERT# 7218

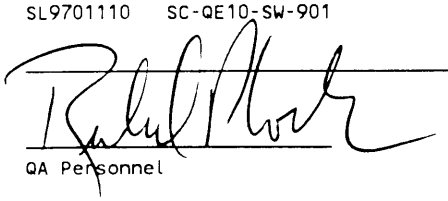
Quality Control Report

WOODWARD-CLYDE FEDERAL SERVICES

01/29/1997

PROJECT NAME: SOLDIER CRK SED & SURF WATER OPER

Lab Number	Sample Identification	Parameter	Analytical Method	QCLAB#	Dupl %Diff	MtrxSpk %Recvry	SpkDup %Diff	Control %Accuracy
SL9701043	SC-QW06-SW-901	CR-W-HEX	EPA 7196A	QC00038387	0.00	88.00	4.44	100.00
SL9701044	SC-QW06-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701045	SC-QW05-SW-901	CR-W-HEX	EPA 7196A	QC00038387	0.00	88.00	4.44	100.00
SL9701046	SC-QW05-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701047	SC-QW04-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701048	SC-QW03-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701049	SC-QW02-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701050	SC-QW01-SD-901	CR_HEX-M	EPA 7196A	QC00038450	3.75	102.01	0.50	96.00
SL9701051	SC-QW03-SW-901	CR-W-HEX	EPA 7196A	QC00038387	0.00	88.00	4.44	100.00
SL9701104	SC-QW07-SD-1401	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701103	SC-QW07-ED-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701105	SC-QE11-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701106	SC-QE10-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701107	SC-TR01-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701108	SC-QW07-SW-901	CR-W-HEX	EPA 7196A	QC00038388	0.00	92.00	0.00	96.00
SL9701109	SC-QW07-SW-1401	CR-W-HEX	EPA 7196A	QC00038388	0.00	92.00	0.00	96.00
SL9701110	SC-QE10-SW-901	CR-W-HEX	EPA 7196A	QC00038388	0.00	92.00	0.00	96.00



QA Personnel

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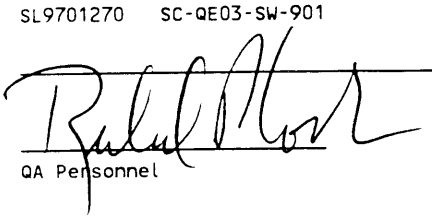
PROJECT NAME: SOLDIER CRK SED & SURF WATER OPER

Lab Number	Sample Identification	Parameter	Analytical Method	QCLAB#	Dupl %Diff	MtrxSpk %Recvry	SpkDup %Diff	Control %Accuracy
SL9701111	SC-QE11-SW-901	CR-W-HEX	EPA 7196A	QC00038388	0.00	92.00	0.00	96.00
SL9701207	SC-QE09-SW-901	CR-W-HEX	EPA 7196A	QC00038451	0.00	104.00	3.92	96.00
SL9701208	SC-QE09-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701209	SC-QE08-SW-901	CR-W-HEX	EPA 7196A	QC00038451	0.00	104.00	3.92	96.00
SL9701210	SC-QE08-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701211	SC-QE06-SW-901	CR-W-HEX	EPA 7196A	QC00038451	0.00	104.00	3.92	96.00
SL9701212	SC-QE06-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701213	SC-QE07-SW-901	CR-W-HEX	EPA 7196A	QC00038451	0.00	104.00	3.92	96.00
SL9701214	SC-QE07-SD-901	CR_HEX-M	EPA 7196A	QC00038469	0.00	91.84	4.55	100.00
SL9701263	SC-QE05-SW-901	CR-W-HEX	EPA 7196A	QC00038470	0.00	108.00	3.77	94.40
SL9701264	SC-QE05-SD-901	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00
SL9701265	SC-QE05-SD-1401	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00
SL9701266	SC-QE04-SW-901	CR-W-HEX	EPA 7196A	QC00038470	0.00	108.00	3.77	94.40
SL9701267	SC-QE04-SD-901	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00
SL9701268	SC-QE01-SW-901	CR-W-HEX	EPA 7196A	QC00038470	0.00	108.00	3.77	94.40
SL9701269	SC-QE01-SD-901	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00
SL9701270	SC-QE03-SW-901	CR-W-HEX	EPA 7196A	QC00038470	0.00	108.00	3.77	94.40



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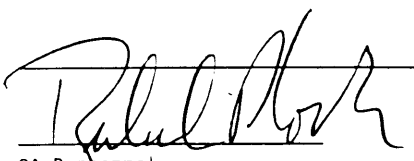
Quality Control Report

WOODWARD-CLYDE FEDERAL SERVICES 01/29/1997

PROJECT NAME: SOLDIER CRK SED & SURF WATER OPER

Lab Number	Sample Identification	Parameter	Analytical Method	QCLAB#	Dupl %Diff	MtrxSpk %Recvry	SpkDup %Diff	Control %Accuracy
SL9701271	SC-QE03-SD-901	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00
SL9701272	SC-QE02-SW-901	CR-W-HEX	EPA 7196A	QC00038470	0.00	108.00	3.77	94.40
SL9701273	SC-QE02-SD-901	CR_HEX-M	EPA 7196A	QC00038559	0.00	64.82	6.02	104.00



QA Personnel

APPENDIX F

SAMPLING DETECTIONS

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
0-6 inches (bgs), January 1997

	East Soldier Creek												West Soldier Creek						
	QE01	QE02	QE03	QE04	QE05	QE06	QE07	QE08	QE09	QE10	QE11	TR01	QW01	QW02	QW03	QW04	QW05	QW06	QW07
PCBs and Pesticides - Method 8080 (mg/kg)																			
Aldrin														0.037					
Aroclor 1254		10	1.7		0.15										2	4.4	6	1.9	
delta-BHC														0.014					
Endrin aldehyde																			
gamma-Chlordane																			
Heptachlor epoxide														0.72					
Semivolatile Organics - Method 8270 (mg/kg)																			
1,2-Dichlorobenzene																			
1,4-Dichlorobenzene									0.051										
1-Chloronaphthalene											0.046								
2-Chloronaphthalene									0.22										
2-Methylnaphthalene	0.075			0.05					0.064								0.28		
Acenaphthene	0.77		1.4	0.15			0.55	0.98									2		
Anthracene	1.5	0.26	1.6	0.14	0.054	1.2	2.3	3									3.2		
Benzidine																			
Benzo(a)anthracene	1.9	0.83	6.2	0.52	0.13	5.4	9.1	7.3	0.097			0.1	0.055	1.3	0.26	1.9	9.9	0.098	
Benzo(a)pyrene	1.5	0.87	7	0.47	0.15	6.8	11	7.3	0.13			0.11	0.073	1.7	0.35	5.2	7.9	0.096	
Benzo(b)fluoranthene	1.2	0.99	8.3	0.49	0.18	8.8	13	9.6	0.11			0.17	0.088	1.9	0.32	4.2	9.4	0.12	
Benzo(g,h,i)perylene	0.83	0.55	3.9	0.32	0.12	3.8	4.2	4.5	0.094			0.075	0.046	0.84	0.16	5.3	3.9	0.042	
Benzo(k)fluoranthene	1.4	0.76	5.1	0.47	0.15	7	8.6	5.9	0.13			0.17	0.096	2.4	0.57	4.1	8.3	0.16	
bis(2-Ethylhexyl)phthalate	0.29	2.6	1.6		0.047	6.4	1.7	7.5	3.3	5.2	0.8	0.26	0.083	1.3	1.2	3.4	1.4	0.16	
Butyl benzyl phthalate																	0.47		
Chrysene	2	1.1	8.9	0.73	0.23	9.3	12	9.2	0.16		0.044	0.15	0.076	1.7	0.39	2.5	12	0.13	
Di-n-butyl phthalate													0.2						
Di-n-octyl phthalate																	0.66		
Dibenz(a,h)anthracene	0.31		1.3	0.12		1.5	1.9	1.6						0.22		1.6	0.36		
Dibenz(a,j)acridine							0.33												
Dibenzofuran	0.39		0.87	0.13	0.041		0.35	0.58									1.2		
Fluoranthene	5.4	2.7	25	1.9	0.69	21	32	25	0.67	0.83	0.29	0.31	0.14	2.6	0.68	3.4	27	0.29	0.074
Fluorene	0.72		1.1	0.14		0.55	1	1.4									2.2		
Indeno(1,2,3-cd)pyrene	0.85	0.5	4	0.3	0.11	3.8	4.6	4.3	0.067			0.069		0.81	0.17	4.7	4.3	0.041	
Naphthalene	0.19		1.4	0.26	0.089				0.046								0.69		
Phenanthrene	5.4	0.84	18	1.8	0.62	8.2	15	15	0.24			0.16	0.049	1.2	0.36	2.3	21	0.13	
Pyrene	4	2.1	17	1.6	0.59	12	17	15	0.25	0.26	0.085	0.24	0.13	2.4	0.57	2.8	25	0.26	0.079
Total Metals - Methods 6010/7060/7471/7740 (mg/kg)																			
Aluminum	7430	750	2770	5600	7630	6030	1990	9210	6060	1790	4360	9580	14200	22700	6250	15800	2810	1800	13300

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
0-6 inches (bgs), January 1997

	East Soldier Creek												West Soldier Creek						
	QE01	QE02	QE03	QE04	QE05	QE06	QE07	QE08	QE09	QE10	QE11	TR01	QW01	QW02	QW03	QW04	QW05	QW06	QW07
Antimony																			
Arsenic	2.1	3.1	15.7	2.9	5.5	5.6	1.6	6.4	2.7	0.89	2.3	3.1	2.3	4.7	1.5	2.8	1.6	1.8	2.1
Barium	1300	388	1200	830	683	721	358	645	726	177	3200	430	437	676	125	423	631	327	534
Beryllium	0.53			0.45	0.6			0.76	0.46			0.42	1.1	1.7	0.32	0.9			0.7
Cadmium		2.3	13.3			17.4	22.6	50.1	25.5	3.9	25.2	75.5	5.3	40.3	14.1	80	7.7	3.3	
Calcium	27000	93300	22200	13600	6450	36600	117000	37000	7310	141000	52900	7580	34200	45100	2950	15800	112000	74000	7390
Chromium	36.1	108	2800	99.7	19.5	276	210	318	236	31.6	220	543	32.6	744	224	1150	115	17.3	24.3
Cobalt	6.2	9.4	48.1	6.9	5	9.6	50.4	11.4	6.5	1.2	7	6	9.3	19.5	37.7	61.7	7.2	6.1	20.1
Copper	12.5	101	576	9.2	8.3	581	135	520	26.4	8	34.2	34.1	24.1	201	274	278	17.2	6.4	7.1
Iron	11500	13300	7370	10600	13600	10200	8250	14300	12300	3730	14400	15300	14700	24400	9580	15800	6230	5150	21400
Lead	13.3	349	528	20.5	12.2	190	174	124	37.3	38.1	42.3	94	50.6	202	65.9	298	253	7.1	20.7
Magnesium	2780	4410	3550	1980	1690	4430	3190	5040	2900	4990	27100	4740	8460	14800	2620	5870	5210	7630	2110
Manganese	353	356	143	338	481	214	110	228	1490	191	1780	356	585	677	124	478	233	751	1510
Mercury	0.1	0.24	3.7	0.25	0.047	0.54	0.26	0.4	0.17	0.077	0.098	0.45	0.039	0.38	0.38	0.32	0.055		0.016
Molybdenum		12.3	41.8			19.1	13.6	14.2			5.7			18.6	23	24.7	4.9		
Nickel	24.3	166	79	9.7	12.3	88.8	87.6	92.5	58.7	10.6	96.5	136	33.9	685	1430	1040	150	32.8	27.6
Potassium	870	133	350	607	849	869	264	1200	796	262	662	1390	2090	2730	822	1670	200	300	1260
Selenium			7.5											1.3	0.68	3.9			
Silver		2.9	2			8.1	14.2	6	3.1		5.8	9.3	2.2	24.8	99.2	82.3	15.7	4.5	
Sodium																			
Thallium	62.7		72.6	39.3						126	71.2		65.3	127					
Vanadium	15.9	18.6	82.9	19	18.9	43.5	21.3	43	25.2	5.3	19.1	22.4	25.2	82.1	33.2	77.8	10.1	11.1	35.5
Zinc	38.8	89.2	463	31	31.3	494	258	466	48.8	20.1	91.5	105	81.5	1180	482	1140	81.1	33.3	22.6
Volatile Organics - Method 8260 (mg/kg)																			
1,1,2,2-Tetrachloroethane		0.0027																	
2-Butanone (MEK)			0.0074			0.046	0.0029	0.047	0.0036	0.0029	0.0046	0.0034		0.014	0.011				
Acetone	0.01	0.0062	0.034	0.012	0.008	0.26	0.013	0.26	0.016	0.011	0.016	0.015		0.059	0.044	0.055	0.0019		
Acrylonitrile													0.0015						
Carbon disulfide			0.0019								0.0038				0.0057				
Chlorobenzene						0.0059		0.14	0.0048										
Chloromethane			0.0038			0.025								0.004					
Ethylbenzene			0.0081			0.0075	0.0013								0.0045				
Methylene chloride		0.0015	0.0019										0.0016	0.005	0.0023		0.0018	0.002	
Styrene		0.0019	0.012				0.036								0.0032	0.5			
Toluene															0.034				
Vinyl chloride															0.0028				
Xylenes (total)																			

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
6-12 inches (bgs), January 1997

	East Soldier Creek							West Soldier Creek				
	QE02	QE06	QE07	QE08	QE09	QE10	QE11	QW01	QW02	QW03	QW04	QW07
PCBs and Pesticides - Method 8080 (mg/kg)												
Aldrin												
Aroclor 1254	14									82	4.2	
delta-BHC		1.2										
Endrin aldehyde		0.042										
gamma-Chlordane		0.036										
Heptachlor epoxide		3.3										
Semivolatile Organics - Method 8270 (mg/kg)												
1,2-Dichlorobenzene											1.2	
1,4-Dichlorobenzene												
1-Chloronaphthalene					0.23		0.049					
2-Chloronaphthalene					0.053							
2-Methylnaphthalene		0.33									0.41	
Acenaphthene	0.43	0.35	0.72	0.044							0.86	
Anthracene	0.81	0.77	1.9	0.072							1.2	
Benzidine												
Benzo(a)anthracene	1.6	2.9	4.7	0.29						1.6	4.7	
Benzo(a)pyrene	1.6		5	0.31						1.8	4.6	
Benzo(b)fluoranthene	1.8	2.9	5.9	0.34	0.05		0.04			2.2	5.6	
Benzo(g,h,i)perylene	0.9	1.1	1.9	0.15	0.05					0.85	2.1	
Benzo(k)fluoranthene	1.1	2.8	4.8	0.28			0.039			2.3	5.5	
bis(2-Ethylhexyl)phthalate	4.4	19	1.3	3.2	0.55	1.1	4.9		0.25	8.7	1.6	
Butyl benzyl phthalate												
Chrysene	1.9	4	6.3	0.44	0.062		0.047			2.1	6.1	
Di-n-butyl phthalate												
Di-n-octyl phthalate										0.5		
Dibenz(a,h)anthracene	0.27	0.36	0.9	0.057							0.74	
Dibenz(a,j)acridine												
Dibenzofuran	0.24		0.43								0.79	

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
6-12 inches (bgs), January 1997

	East Soldier Creek							West Soldier Creek				
	QE02	**QE06**	**QE07**	**QE08**	**QE09**	**QE10**	**QE11**	**QW01**	**QW02**	**QW03**	**QW04**	**QW07**
Fluoranthene	5.5	10	18	1.3	0.35	0.53	0.3			3.6	13	
Fluorene	0.47	0.52	1.2	0.057							1	
Indeno(1,2,3-cd)pyrene	0.79	1.2	1.9	0.15						0.82	2.2	
Naphthalene											1.7	
Phenanthrene	2.3	4.7	9.6	0.5	0.067		0.064			2.2	11	
Pyrene	3.8	6.2	9.6	0.67	0.11	0.28	0.11			3.3	11	
Total Metals - Methods 6010/7060/7471/7740 (mg/kg)												
Aluminum	1320	7620	1670	1940	4710	3030	2880	12400	5020	11600	13800	10700
Antimony												
Arsenic	2.5	7.2	3.2	3.4	1.4	1.3	4.7	1.7	1.8	4.6	5.9	2.6
Barium	168	657	81.6	168	328	176	1790	197	179	325	401	416
Beryllium		0.63			0.35			0.8	0.29	0.81	0.71	0.48
Cadmium		14.8	7.4	12.2	7.4	7.8	10.2		2.3	112	111	
Calcium	121000	33300	119000	48600	2290	66800	96700	20300	5180	5230	5840	2000
Chromium	139	261	41.3	107	48.4	57.8	125	16.1	79.3	1110	721	18.1
Cobalt	21.1	10.2	2.8	6.7	4.3	2.2	8.1	8	5.3	166	42	5.6
Copper	109	436	52.5	40.4	9.6	19	23	18.6	11.7	2010	78	8
Iron	7850	11400	4600	3420	7760	4050	18500	12800	6660	13000	14300	13200
Lead	221	124	24.4	18.5	16.6	45.5	30.4	7.2	9.7	422	172	12.4
Magnesium	6120	5300	5790	1580	1360	5220	22000	10600	2270	3850	2560	1710
Manganese	310	242	210	108	216	192	1890	517	70.2	158	812	313
Mercury	0.34	0.35	0.1	0.042	0.036	0.036	0.1		0.081	0.55	0.24	
Molybdenum	28.2	27.3					7.2		3.4	262	16.4	
Nickel	319	73	20.9	32.9	13.8	12.8	64.7	18.8	57.8	6470	410	11.5
Potassium	193	1010	232	279	581	393	435	2050	735	1130	1420	1050
Selenium		0.88								10.3	1.3	
Silver		3.9	3.9	1.5			3.4		0.87	725	23.3	
Sodium												
Thallium	126					54.6	39.3	53.9		74.2		

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
6-12 inches (bgs), January 1997

	East Soldier Creek							West Soldier Creek				
	QE02	**QE06**	**QE07**	**QE08**	**QE09**	**QE10**	**QE11**	**QW01**	**QW02**	**QW03**	**QW04**	**QW07**
Vanadium	10.1	46	8.9	9.8	13.6	7.6	15.3	16.2	117	114	45.2	25.7
Zinc	65.6	362	52.4	45.1	29.8	47.2	45.5	50.3	44.8	2310	427	21
Volatile Organics - Method 8260 (mg/kg)												
1,1,2,2-Tetrachloroethane												
2-Butanone (MEK)	0.0034	0.037	0.0028		0.0048	0.0052	0.0043		0.0073	0.028		
Acetone	0.017	0.19	0.011	0.062	0.019	0.021	0.019		0.027	0.089		0.025
Acrylonitrile												
Carbon disulfide	0.0018	0.0087				0.0013	0.0045					
Chlorobenzene	0.0074	0.011		0.91	0.021							
Chloromethane												
Ethylbenzene	0.0025									0.053	0.013	
Methylene chloride	0.0016							0.0017	0.0018	0.017		
Styrene	0.0031		0.0045							0.031	0.33	
Toluene									0.018	0.021		
Vinyl chloride	0.0013											
Xylenes (total)	0.0018	0.0061										

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
Greater than 12 inches (bgs), January 1997

	East Soldier Creek				West Soldier Creek			
	QE06 1.0-1.5 feet	QE07 3.0-3.5 feet	QE09 1.0-2.0 feet	QE10 2.0-3.0 feet	QW01 1.0-1.5 feet	QW03 1.0-2.0 feet	QW04 2.0-2.5 feet	QW07 3.0-3.5 feet
PCBs and Pesticides - Method 8080 (mg/kg)								
Aldrin								
Aroclor 1254						15	10	
delta-BHC								
Endrin aldehyde								
gamma-Chlordane								
Heptachlor epoxide								
Semivolatile Organics - Method 8270 (mg/kg)								
1,2-Dichlorobenzene							1.6	
1,4-Dichlorobenzene								
1-Chloronaphthalene		0.1						
2-Chloronaphthalene			0.1					
2-Methylnaphthalene							0.85	
Acenaphthene			0.066				1.1	
Anthracene	0.32		0.079				1.6	
Benzidine						0.22		
Benzo(a)anthracene	1.3	0.063	0.36			0.33	5.7	
Benzo(a)pyrene	1.6	0.054	0.39			0.36	5.8	
Benzo(b)fluoranthene	1.6	0.044	0.45			0.53	5.5	
Benzo(g,h,i)perylene	0.67	0.046	0.28			0.16	2.2	
Benzo(k)fluoranthene	1.5	0.055	0.35			0.5	9.5	
bis(2-Ethylhexyl)phthalate	1.8	0.45	0.27	0.31		1.2	19	
Butyl benzyl phthalate								
Chrysene	1.8	0.088	0.52			0.46	7	
Di-n-butyl phthalate	0.3		0.044					
Di-n-octyl phthalate								
Dibenz(a,h)anthracene			0.095				0.76	
Dibenz(a,j)acridine								

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
Greater than 12 inches (bgs), January 1997

	East Soldier Creek				West Soldier Creek			
	QE06 1.0-1.5 feet	QE07 3.0-3.5 feet	QE09 1.0-2.0 feet	QE10 2.0-3.0 feet	QW01 1.0-1.5 feet	QW03 1.0-2.0 feet	QW04 2.0-2.5 feet	QW07 3.0-3.5 feet
Dibenzofuran							1.1	
Fluoranthene	4.4	0.3	1.3	0.14		0.84	21	
Fluorene			0.053				1.4	
Indeno(1,2,3-cd)pyrene	0.65		0.27			0.17	2.2	
Naphthalene		0.11	0.28				2.1	
Phenanthrene	2.8	0.15	0.77			0.44	14	
Pyrene	3	0.22	0.9			0.78	12	
Total Metals - Methods 6010/7060/7471/7740 (mg/kg)								
Aluminum	7910	4400	2900	6830	17400	3010	7320	8000
Antimony							11.4	
Arsenic	3.6	2.1	2.3	1.4	0.62	1.3	9.7	3.9
Barium	498	174	276	184	67.4	96.3	771	457
Beryllium	0.65	0.28	0.29		1.5		0.34	0.82
Cadmium	19.3	3.9	51.8	2.4		5.6	212	
Calcium	15100	2290	4400	26200	27000	16000	14600	1920
Chromium	549	18	142	31.3	19.5	67.5	4020	23.9
Cobalt	16.7	2.8	4.4	3.9	13.3	12	161	9
Copper	107	10.7	19.8	7.6	37.3	52.9	166	13.7
Iron	10500	7540	6160	9650	18300	5630	15400	20900
Lead	318	6.6	55	13	8.1	24	934	4.9
Magnesium	3710	1260	2160	2690	23400	2150	2900	2890
Manganese	382	163	224	185	1080	161	7430	258
Mercury	0.31	0.08	0.1	0.045		0.11	0.22	
Molybdenum	4.9					19.1	40.9	
Nickel	75.5	12.3	22.6	18.7	32.9	380	1190	24.3
Potassium	999	491	404	964	3520	487	864	806
Selenium						0.92	2.8	
Silver	2.9		2			21.8	105	

First Event Third Year Long-Term Monitoring
Sediment Sampling Detections
Greater than 12 inches (bgs), January 1997

	East Soldier Creek				West Soldier Creek			
	QE06 1.0-1.5 feet	**QE07 3.0-3.5 feet**	**QE09 1.0-2.0 feet**	**QE10 2.0-3.0 feet**	**QW01 1.0-1.5 feet**	**QW03 1.0-2.0 feet**	**QW04 2.0-2.5 feet**	**QW07 3.0-3.5 feet**
Sodium					495			
Thallium				46.3	64.9	45.1	62.4	
Vanadium	22.7	13.4	13.7	17.8	17.3	15.5	56.9	39.9
Zinc	237	12.1	76.8	18.1	39.4	106	590	26.4
Volatile Organics - Method 8260 (mg/kg)								
1,1,2,2-Tetrachloroethane								
2-Butanone (MEK)	0.013	0.0026	0.0081			0.0062	0.0034	
Acetone	0.067	0.014	0.031	0.0058	0.005	0.023	0.016	0.0034
Acrylonitrile								
Carbon disulfide								
Chlorobenzene	0.0083		0.054					
Chloromethane								
Ethylbenzene						0.0019		
Methylene chloride						0.0019	0.0022	
Styrene						0.0024	0.0047	
Toluene						0.0024		
Vinyl chloride								
Xylenes (total)	0.0015							

First Event Third Year Long-Term Monitoring
Surface Water Detections
January 1997

	East Soldier Creek											West Soldier Creek			
	QE01	QE02	QE03	QE04	QE05	QE06	QE07	QE08	QE09	QE10	QE11	QW03	QW05	QW06	QW07
Dissolved Metals - Methods 6010/6020 (mg/L)															
Aluminum						0.068	0.006	0.11	0.12	0.15				0.0066	0.11
Antimony								0.00018	0.0002	0.00022	0.00023	0.00051	0.00022	0.00024	
Barium	0.41	0.47	0.48	0.4	0.4	0.42	0.42	0.41	0.41	0.4	0.37	0.12	0.26	0.24	0.052
Cadmium	0.00012	0.00024	0.00021	0.00018	0.00023	0.00049	0.0026	0.00079	0.001	0.0021	0.0014	0.00067	0.00068	0.00084	
Calcium	43.7	67.2	70.4	48.7	45.8	50.1	43.1	44.9	47.8	43.6	43.3	24.5	41.8	39.7	16.7
Chromium	0.0089	0.013	0.013	0.0085	0.0087	0.0096	0.01	0.01	0.0098	0.011	0.0078	0.0036	0.0071	0.0072	0.0013
Cobalt	0.000093	0.00015	0.00016	0.000099	0.000085	0.00014	0.000072	0.00015	0.00016	0.00018	0.00016	0.0014	0.00011	0.00011	
Copper	0.0013	0.047	0.04	0.015	0.0063	0.014	0.0098	0.014	0.014	0.014	0.0069	0.003	0.0053	0.0055	0.0039
Iron		0.042	0.054			0.024					0.073	0.1	0.025	0.031	
Lead		0.00027	0.00039			0.0013	0.001	0.0012	0.0013	0.0018	0.00043	0.0002			
Magnesium	22.3	33.3	34.7	24	22.9	24.9	22.2	22.1	23.4	21.3	21	3.3	17.7	16.3	1.1
Manganese	0.0037	0.011	0.013	0.00099	0.0063	0.021	0.00047	0.016	0.017	0.016	0.065	0.061	0.0019	0.0033	0.0095
Molybdenum	0.00028	0.0029	0.0032	0.0018	0.00086	0.0014	0.00019	0.0018	0.0018	0.0019	0.0021	0.019	0.0056	0.0062	0.00046
Nickel	0.00054	0.0014	0.00016	0.00093	0.00074	0.0012	0.00097	0.0015	0.0015	0.0019	0.0019	0.038	0.004	0.0048	0.00069
Potassium	1.4	2	2.1	1.4	1.4	1.5	1.2	1.5	1.6	1.5	1.6	1.6	1.5	1.6	1.6
Silver		0.000035													
Sodium	14.4	26	28.2	16.4	15.3	17.8	12.9	17.3	18.8	17	17.3	4.1	20.7	19.2	5.2
Thallium	0.000044		0.000054												
Vanadium	0.013	0.019	0.019	0.013	0.013	0.013	0.013	0.014	0.013	0.014	0.012	0.00099	0.0079	0.007	0.0013
Zinc	0.0036	0.0084	0.0087	0.0059	0.0054	0.011	0.024	0.0091	0.0094	0.011	0.0054	0.019	0.0081	0.012	0.036
PCBs and Pesticides - Method 8080 (ug/L)															
Aroclor 1254		0.58													
Semivolatile Organics - Method 8270 (mg/L)															
bis(2-Ethylhexyl)phthalate											0.0041	0.013		0.0016	0.01
Total Metals - Methods 6010/6020/7060/7470 (mg/L)															
Aluminum		0.0059			0.048	0.031		0.034	0.0057	0.06		0.013	0.0095	0.012	0.04
Antimony	0.00004		0.00012		0.00023	0.00012	0.0002	0.00025		0.00022	0.00029	0.00055	0.00028	0.00044	0.00013
Arsenic		0.0026	0.0027							0.0023	0.0024				
Barium	0.41	0.55	0.52	0.41	0.44	0.45	0.43	0.42	0.43	0.41	0.36	0.12	0.28	0.27	0.05
Cadmium		0.00015	0.00014	0.000086	0.0005	0.00022	0.0012	0.00038	0.000086	0.00094	0.0006	0.00088	0.00047	0.00052	
Calcium	42.7	72.4	68.9	47.7	45.3	48.2	42.3	46.7	46.2	44.5	44.5	23.8	40.4	38.2	17.7
Chromium	0.0047	0.014	0.011	0.0059	0.0059	0.0057	0.0066	0.0054	0.0048	0.0063	0.0041	0.0016	0.003	0.0028	0.0004
Cobalt	0.00026	0.00058	0.00053	0.00035	0.00044	0.00039	0.00027	0.00038	0.0003	0.0004	0.00036	0.0018	0.00034	0.00036	0.00017
Copper	0.0013	0.083	0.063	0.023	0.015	0.014	0.01	0.014	0.0095	0.014	0.0066	0.0061	0.0062	0.0063	0.0041
Iron	0.033	0.14	0.13	0.089	0.061	0.11	0.024	0.13	0.16	0.15	0.34	0.44	0.046	0.053	0.06
Lead		0.0012	0.00086	0.0005	0.0012	0.0013	0.00094	0.0011	0.00047	0.0016	0.00023		0.00017	0.00022	
Magnesium	21.8	36.1	34	23.5	22.7	23.6	21.4	22.6	22.5	21.4	21.7	3.2	16.5	14.9	1.2
Manganese	0.0036	0.011	0.013	0.0099	0.017	0.021	0.00021	0.014	0.0069	0.015	0.06	0.067	0.0028	0.0039	0.008
Molybdenum	0.00045	0.0027	0.0031	0.0019	0.0021	0.0014	0.00034	0.0021	0.0011	0.0022	0.0022	0.02	0.0063	0.0083	0.0006
Nickel	0.0096	0.02	0.016	0.011	0.012	0.012	0.01	0.011	0.01	0.012	0.011	0.052	0.014	0.016	0.0075
Potassium	1.4	2.3	2.2	1.5	1.5	1.6	1.4	1.7	1.6	1.6	1.6	1.5	1.4	1.5	1.6
Selenium		0.0042	0.0039		0.0027					0.0023	0.0023				
Silver					0.00013										
Sodium	14.9	29.3	27.7	16.5	16.1	17.2	12.3	15.9	17.2	17.7	17.9	4	20.7	19.3	5.4
Vanadium	0.0095	0.018	0.016	0.01	0.011	0.01	0.011	0.01	0.0098	0.011	0.0088	0.001	0.0059	0.0055	0.0008
Zinc	0.0047	0.016	0.013	0.0076	0.0081	0.01	0.025	0.0073	0.0064	0.0093	0.0034	0.031	0.012	0.016	0.036

First Event Third Year Long-Term Monitoring
Surface Water Detections
January 1997

	East Soldier Creek											West Soldier Creek			
	QE01	QE02	QE03	QE04	QE05	QE06	QE07	QE08	QE09	QE10	QE11	QW03	QW05	QW06	QW07
Volatile Organics - Method 8260 (mg/L)															
2-Butanone (MEK)	0.0024	0.0033		0.0015			0.0062	0.0018	0.0016		0.0018				0.0014
Acetone	0.0031	0.0049	0.003	0.0033	0.0067	0.0036	0.0061	0.0037	0.0045	0.0048	0.0072	0.0058	0.0035	0.0034	0.007
Acrolein		0.0019							0.0025						
Acrylonitrile		0.0022							0.0027						
Bromoform			0.0016												
Bromomethane												0.0015	0.0072	0.0042	
Chloroform															
Chloromethane												0.0011	0.0036	0.0021	
Dibromochloromethane			0.0018												
Ethanol		0.041													
Iodomethane													0.0018	0.0012	
Methylene chloride		0.0047	0.0059			0.0039	0.0033								
Styrene												0.0034			
Wet Chemistry - Methods 130.2/160.1/160.2/300.0/310.1/410.4/415.1 (mg/L)															
Alkalinity, Bicarb. as CaCO3 at	199	126	137	184	191	184	196	174	174	168	175	88	191	182	41.9
Alkalinity, Carb. as CaCO3 at pH 8.3							6.6		5.6	6.2					
Alkalinity, Total as CaCO3 at p	199	126	137	184	191	184	203	179	180	174	176	88	191	182	41.9
Chemical Oxygen Demand (Regular)		13.8	10.9									25.6	14.3	24.3	9.6
Chloride	8.3	16.8	16.1	9.6	9	10.2	8.2	10.2	10.2	9.9	10.4	4	9.2	9	6.9
Hardness as CaCO3	184	312	296	202	194	213	186	207	200	198	202	76	169	156	54.7
Sulfate	5.3	232	198	50.1	24.7	55.4	4.9	53.7	52.3	49.1	48.3	2.1	10.7	10	7.6
Total Dissolved Solids	235	507	481	286	257	301	236	290	286	274	281	90	242	220	93
Total Organic Carbon	0.71	9.5	8.1	2.5	1.2	3.1	0.86	4.4	4.3	4	4.1	10.5	5.5	7.7	4.3
Total Suspended Solids										4	3.6	1.6			2.4