W01972

Quanterra
Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
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0049080

CASE NARRATIVE

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

November 4, 1997

Attention: Joan Kessner

NOV 1997
RECEIVED
Data
Log In

Project number	:	550.230
Date Received by Lab	:	October 2, 1997
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W01972
Data Deliverable	:	Summary

APR 1998
RECEIVED
EDMC

I. Introduction

On October 2, 1997, one (1) water sample was received by Quanterra, Richland and was transferred to Quanterra, St. Louis for chemical analysis. Upon receipt, the sample was given the following laboratory ID number to correspond with the specific client ID:

St. Louis ID	BHI ID	Richland ID	Matrix	Date of Receipt
15996-001	B0L3Y7	71003601	Water	02-OCT-97

II. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: Volatiles by EPA 8260. Total Residual Chlorine by EPA Method 330.1. Sulfate by EPA Method 375.4. pH by EPA Method 150.1.

III. Quality Control

A Laboratory Control Sample and Method Blank were analyzed with each preparation batch. Matrix Spike and Matrix Spike Duplicate or Sample Duplicate were performed per the protocol for each analyte in this SDG. Total Residual Chlorine and pH analyses require only a Sample Duplicate for matrix QC.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike

V. Comments

Shipping and Receiving
There are no comments or nonconformances associated with the shipping and receiving of these samples.

Volatiles-8260
There are no comments or nonconformances associated with this analysis.

Wet Chemistry
The Sulfate Matrix Spike recovery of 58% for sample 15996-001 is reported outside QC guidelines of 75-125%.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Wade H. Price
Project Manager
e:\\price$\hanford\hanw1972.nar

Quanterra October 07, 1997 01:27 pm
Account: 10722 Project: 550.230 Quanterra-Richland QAS No. 550.23 Rev. 0
Master Sample Login: 15996

Project Manager: W. Price

Draft: Final: Entered and Reviewed by: PM Review:

Sample Header Template:

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category / (Container Numbers:% Filled)	Rad Sample No.
15996-001	B0L3Y7	Water	02-OCT-97 07:15	02-OCT-97 09:00	31-OCT-97	AIR BORNE		1	Screening not Required
RICHLAND I.D. 71003601									
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	24-OCT-97	16-OCT-97	109M	(335483:100 335484:99 335485:98)	
1	PN - Plastic-1L	CL/330.3/Q4	S	COLD	24-OCT-97	04-OCT-97	TOC	(335482:100)	
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	24-OCT-97	30-OCT-97	TOC	(335486:97)	
1	PN - Plastic-120ml	PH/150.1/Q4	S	COLD	24-OCT-97	03-OCT-97	TOC	(335481:100)	
15996-001DUP	B0L3Y7	Water	02-OCT-97 07:15	02-OCT-97 09:00	31-OCT-97	AIR BORNE		1	Screening not Required
RICHLAND I.D. 71003601									
1	PN - Plastic-1L	CL/330.3/Q4	S	COLD	24-OCT-97	04-OCT-97	TOC	(335482:100)	
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	24-OCT-97	30-OCT-97	TOC	(335486:97)	
1	PN - Plastic-120ml	PH/150.1/Q4	S	COLD	24-OCT-97	03-OCT-97	TOC	(335481:100)	
15996-001MS	B0L3Y7	Water	02-OCT-97 07:15	02-OCT-97 09:00	31-OCT-97	AIR BORNE		1	Screening not Required
RICHLAND I.D. 71003601									
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	24-OCT-97	16-OCT-97	109M	(335483:100 335484:99 335485:98)	
1	PN - Plastic-1L	CL/330.3/Q4	S	COLD	24-OCT-97	04-OCT-97	TOC	(335482:100)	
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	24-OCT-97	30-OCT-97	TOC	(335486:97)	
15996-001MSD	B0L3Y7	Water	02-OCT-97 07:15	02-OCT-97 09:00	31-OCT-97	AIR BORNE		1	Screening not Required
RICHLAND I.D. 71003601									
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	24-OCT-97	16-OCT-97	109M	(335483:100 335484:99 335485:98)	

Comments
Data:

3*=Sample has not been rad screened.

000003

TOC
Temp 4°C Cur# 13078
ST Louis

Chain of Custody Record

Quanterra

QUA-4124 0797

Client: Bchtel	Project Manager: Jodie Carnes	Date: 10-2-97	Chain of Custody Number: 00044
Address:	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page 1 of 1
City: / State: / Zip Code:	Site Contact: / Lab Contact:	Analysis (Attach list if more space is needed): SEE COC	Special Instructions/ Conditions of Receipt
Project Name: SAF B97-108	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis	Special Instructions/ Conditions of Receipt
7100360 1 BOL3Y7	all	Bottles											

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☒ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Due 11-16-97

QC Requirements (Specify): SDG W01972

	Date	Time		Date	Time
1. Relinquished By: Heidelberg Quanterra	10-2-97	16:00	1. Received By: [signature]	10-4-97	0945
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B97-108-11	Page 1 of 1

Collector Robert Fahlberg/R. Nielson	**Company Contact** Joe Zoric	**Telephone No.** 373-4315	**Project Coordinator** Koerner, CC
Project Designation 183N Backwash Discharge Pond – Permit Monitoring	**Sampling Location** 100N		**SAF No.** B97-108
Ice Chest No.	**Field Logbook No.** EL-1309		**Method of Shipment** Hand delivered
Shipped To Quanterra Incorporated	**Offsite Property No.**		**Bill of Lading/Air Bill No.**

Data Turnaround 45 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage Cool 4C

SAMPLE ANALYSIS

71003601 SDG W01972

Preservation	None	None	Cool 4C	None	HCl to pH <2 Cool 4C					
Type of Container	P	P	P	P	Gs*					
No. of Container(s)	1	1	1	1	3					
Volume	20ml	125ml	250ml	1000ml	40ml					
	Activity Scan	pH - 150.1	Sulfate – 375.4	Chlorine (Total residual) - 330.3 (Chlorine)	VOA - 8260A (TCL)					

Sample No.	Matrix *	Sample Date	Sample Time											
B0L3Y7	Water	10-2-97	0715	X	X	X	X	X						
					1	1	1	1						
					100	100	100	3X100						

CHAIN OF POSSESSION

Relinquished By	Date/Time	Received By	Date/Time
R. Fahlberg / R. Fahlberg	10-2-97 0900	Karen [illegible]	10-2-97 0900

SPECIAL INSTRUCTIONS
**EPA330.3 - The ERC Contractor acknowledges the specified holding time is not likely achievable.
<100CPM

Matrix *

S	=	Soil
SE	=	Sediment
SO	=	Solid
SL	=	Sludge
W	=	Water
O	=	Oil
A	=	Air
DS	=	Drum Solids
DL	=	Drum Liquids
T	=	Tissue
WI	=	Wipe
L	=	Liquid
V	=	Vegetation
X	=	Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

000007

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 10-2-97 0900 SG#: _____

Work Order Number: _____ SAF #: B97-108

Shipping Container ID: ERC 96-025 Chain of Custody # B97-108-11

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain-of-Custody record present? Yes [✓] No [ ]
4. Cooler temperature 3°c
5. Vermiculite/packing materials is Wet [ ] Dry [✓]
6. Number of samples in shipping container: 7
7. Sample holding times exceeded? Yes [ ] No [✓]

8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels

9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles

10. Where any anomalies identified in sample receipt? Yes [ ] No [✓]
11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Karen Stikenburg Date: 10-2-97

Telephoned To: _____ On _____ By _____

000008

Quanterra Environmental Services

Bwow

013078

Login No.: 15996

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Richland Date: 10-4-97 Time: 0995

Project No: 678.24 550.230 Initiated by: [illegible]

Shipper/No: Airborne 5999644011 RFA/COC Numbers: 44

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☐ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 4°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: [signature] (or designee) Date: 10-4-97

Project Management Review: [signature] Date: 10/17/97

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/27/97

Client ID: B0L3Y7

Quanterra ID : 15996-005

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK156492-1	10/16/97	10/16/97	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK156492-1	10/16/97	10/16/97	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK156492-1	10/16/97	10/16/97	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK156492-1	10/16/97	10/16/97	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK156492-1	10/16/97	10/16/97	3	UG/L	J	20	1
Carbon Disulfide	75-15-0	QCBLK156492-1	10/16/97	10/16/97	1	UG/L	J	5	1
1,1-Dichloroethene	75-35-4	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK156492-1	10/16/97	10/16/97	64	UG/L		5	1
1,2-Dichloroethane	107-06-2	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
2-Butanone (MEK)	78-93-3	QCBLK156492-1	10/16/97	10/16/97	20	UG/L	U	20	1
1,1,1-Trichloroethane	71-55-6	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
4-Methyl-2-Pentanone (MIBK)	108-10-1	QCBLK156492-1	10/16/97	10/16/97	20	UG/L	U	20	1
2-Hexanone	591-78-6	QCBLK156492-1	10/16/97	10/16/97	20	UG/L	U	20	1
Tetrachloroethene	127-18-4	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK156492-1	10/16/97	10/16/97	5	UG/L	U	5	1
Toluene-d8	2037-26-5	QCBLK156492-1	10/16/97	10/16/97	102	%REC			1
Bromofluorobenzene	460-00-4	QCBLK156492-1	10/16/97	10/16/97	93	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK156492-1	10/16/97	10/16/97	100	%REC			1

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/27/97

Client ID: BOL3Y7

Quanterra ID : 15996-005MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK156492-1	10/16/97	10/16/97	117	%REC			1
Trichloroethene	79-01-6	QCBLK156492-1	10/16/97	10/16/97	101	%REC			1
Benzene	71-43-2	QCBLK156492-1	10/16/97	10/16/97	94	%REC			1
Toluene	108-88-3	QCBLK156492-1	10/16/97	10/16/97	96	%REC			1
Chlorobenzene	108-90-7	QCBLK156492-1	10/16/97	10/16/97	94	%REC			1
Toluene-d8	2037-26-5	QCBLK156492-1	10/16/97	10/16/97	96	%REC			1
Bromofluorobenzene	460-00-4	QCBLK156492-1	10/16/97	10/16/97	90	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK156492-1	10/16/97	10/16/97	104	%REC			1

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/27/97

Client ID: BOL3Y7

Quanterra ID : 15996-005MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK156492-1	10/16/97	10/16/97	120	%REC			1
Trichloroethene	79-01-6	QCBLK156492-1	10/16/97	10/16/97	100	%REC			1
Benzene	71-43-2	QCBLK156492-1	10/16/97	10/16/97	96	%REC			1
Toluene	108-88-3	QCBLK156492-1	10/16/97	10/16/97	99	%REC			1
Chlorobenzene	108-90-7	QCBLK156492-1	10/16/97	10/16/97	97	%REC			1
Toluene-d8	2037-26-5	QCBLK156492-1	10/16/97	10/16/97	99	%REC			1
Bromofluorobenzene	460-00-4	QCBLK156492-1	10/16/97	10/16/97	92	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK156492-1	10/16/97	10/16/97	104	%REC			1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0L3Y7

Lab Name: QUANTERRA MO Contract: 550-230

Lab Code: ITSL Case No.: V99601 SAS No.: SDG No.: W01972

Matrix: (soil/water) WATER Lab Sample ID: 15996-005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G9400

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/16/97

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	1	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	64	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0L3Y7

Lab Name: QUANTERRA MO Contract: 550-230

Lab Code: ITSL Case No.: V99601 SAS No.: SDG No.: W01972

Matrix: (soil/water) WATER Lab Sample ID: 15996-005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G9400

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/16/97

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Total Residual Chlorine
Method: EPA 330.3
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/30/97

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0L3Y7	15996-001	Total Chlorine	7782-50-5A	QCBLK155985-1	10/13/97	10/13/97	0.10	MG/L	U	0.10	1
B0L3Y7	15996-001DUP	Total Chlorine	7782-50-5A	QCBLK155985-1	10/13/97	10/13/97	0.10	MG/L	U	0.10	1
NA	QCBLK155985-1	Total Chlorine	7782-50-5A	QCBLK155985-1	10/13/97	10/13/97	0.10	MG/L	U	0.10	1
NA	QCLCS155985-1	Total Chlorine	7782-50-5A	QCBLK155985-1	10/13/97	10/13/97	100	%REC			1

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: pH EPA 150.1
Method: EPA 150.1
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/27/97

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0L3Y7	15996-001	pH	PH	QCBLK155801-1	10/10/97	10/10/97	6.03	PH			1
B0L3Y7	15996-001DUP	pH	PH	QCBLK155801-1	10/10/97	10/10/97	6.09	PH			1
NA	QCBLK155801-1	pH	PH	QCBLK155801-1	10/10/97	10/10/97	4.74	PH			1

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Project: 550.230

Category: Sulfate
Method: EPA 375.4
Matrix: LIQUID

Sample Date : 10/02/97
Receipt Date : 10/02/97
Report Date : 10/30/97

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOL3Y7	15996-001	Sulfate	14808-79-8	QCBLK157439-1	10/27/97	10/27/97	33.1	MG/L		5.00	1
BOL3Y7	15996-001DUP	Sulfate	14808-79-8	QCBLK157439-1	10/27/97	10/27/97	33.3	MG/L		5.00	1
BOL3Y7	15996-001MS	Sulfate	14808-79-8	QCBLK157439-1	10/27/97	10/27/97	58	%REC			1
NA	QCBLK157439-1	Sulfate	14808-79-8	QCBLK157439-1	10/27/97	10/27/97	5.00	MG/L	U	5.00	1
NA	QCLCS157439-1	Sulfate	14808-79-8	QCBLK157439-1	10/27/97	10/27/97	97	%REC			1