9613446.2892

START

0044374

W0696

Quanterra
Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

CERTIFICATE OF ANALYSIS

Bechtel Hanford Incorporated
P.O. Box 1970
Richland, Washington 99352

September 19, 1995

Attention: Joan Kessner

JUN 1996 RECEIVED EDMC

OCT 1995 RECEIVED Data Log In

Project number	:	550.101
Dates Received by Lab	:	August 31, 1995
Number of Samples	:	Two (2)
Sample Type	:	Liquid
SDG Number	:	W0696
Data Deliverable	:	Summary

I. Introduction

On August 31, 1995, one (1) liquid sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. Upon receipt, the sample was given the following laboratory ID number to correspond with their specific client ID:

St Louis ID	WHC ID	Richland ID	Matrix	Date of Receipt
9262-001	B0GJQ6	50849901	Liquid	08/31/95

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: Chloride, Fluoride, Nitrite, Nitrate, Phosphate and Sulfate by EPA method 300.0. ICAP Metals by EPA method 6010. Volatiles by EPA 8240.

Quanterra
Environmental Services

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 analyses were performed per the protocol for each analyte.

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

Sample 9262-001 was an organic liquid, and thus was analyzed by the medium level extraction procedure. This sample required a 1:8,000,000 overall dilution in order to allow analysis, due to the carbon tetrachloride concentration.

Due to limited sample volume the sample was digested as a soil sample.

The holding times were waived for the Nitrate, Nitrite and Phosphate analyses.

The Relative Percent Differences could not be calculated for the Chloride, Fluoride, Sulfate, Nitrate, Nitrite and Phosphate analyses due to the values being below the detection limits for sample 9262-001 and it's duplicate.

Quanterra
Environmental Services

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$\abbydave\hanw0696.nar

Quanterra September 06, 1995 12:15 pm
Account: 10722 Project: 550.101 Quanterra-Richland QAS No. 550.101 Rev. 0
Master Sample Login: 9262

Project Manager: W. Price

Draft: (Final) Entered and Reviewed by: [signature] PM Review: [signature]

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.
9262-001	BOGJQ6 RICHLAND I.D. 50849901	Liquid	30-AUG-95 10:35	31-AUG-95 10:30	14-SEP-95	FED-EX		1 Screening not Required	
3	VI - Vial-40ml	VOA/8240/Q4	S	COLD	12-SEP-95	13-SEP-95	109A	(176584:100 176585:99 176586:98)	
1	AN - Amber Glass-60ML	ANIONS/300.0/Q4	P	COLD	N/A	N/A	T14A	(176583:100)	
1		CL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		FL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		NO2/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		NO3/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		OPHOS/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		SO4/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1	PW - Plastic-2oz	ICAP/6010/Q4	S	COLD	12-SEP-95	26-FEB-96	T14A	(176582:100)	
9262-001DUP	BOGJQ6 RICHLAND I.D. 50849901	Liquid	30-AUG-95 10:35	31-AUG-95 10:30	14-SEP-95	FED-EX		1 Screening not Required	
1	AN - Amber Glass-60ML	ANIONS/300.0/Q4	P	COLD	N/A	N/A	T14A	(176583:100)	
1		CL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		FL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		NO2/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		NO3/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		OPHOS/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		SO4/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
9262-001MS	BOGJQ6 RICHLAND I.D. 50849901	Liquid	30-AUG-95 10:35	31-AUG-95 10:30	14-SEP-95	FED-EX		1 Screening not Required	
3	VI - Vial-40ml	VOA/8240/Q4	S	COLD	12-SEP-95	13-SEP-95	109A	(176584:100 176585:99 176586:98)	
1	AN - Amber Glass-60ML	ANIONS/300.0/Q4	P	COLD	N/A	N/A	T14A	(176583:100)	
1		CL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		FL/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1		NO2/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		NO3/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		OPHOS/300.0/Q4	C	COLD	12-SEP-95	01-SEP-95	T14A	(176583:100)	
1		SO4/300.0/Q4	C	COLD	12-SEP-95	27-SEP-95	T14A	(176583:100)	
1	PW - Plastic-2oz	ICAP/6010/Q4	S	COLD	12-SEP-95	26-FEB-96	T14A	(176582:100)	
9262-001MSD	BOGJQ6 RICHLAND I.D. 50849901	Liquid	30-AUG-95 10:35	31-AUG-95 10:30	14-SEP-95	FED-EX		1 Screening not Required	
3	VI - Vial-40ml	VOA/8240/Q4	S	COLD	12-SEP-95	13-SEP-95	109A	(176584:100 176585:99 176586:98)	
1	PW - Plastic-2oz	ICAP/6010/Q4	S	COLD	12-SEP-95	26-FEB-96	T14A	(176582:100)	

Data:

3*=Sample has not been rad screened.

9613446.2895

000005

TEMP 5° CUR #5270

[redacted]

Chain of Custody Record

To: St Louis

Quanterra Environmental Services

QUA-4124

Client: Bechtel Hanford	Project Manager: Van Pettey	Date: 8-31-95	Chain Of Custody Number: 04950
Address:	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page 1 of 1
City: / State: / Zip Code:	Site Contact:		
Project Name: SAF B95-096	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis: SEE COC

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis
50849901 - B06JQ6	8-30-95 10:35	SEE	COC					1 x 20 ml vial	100
								3 x 40 ml vial	6
								1 x 60 ml vial	

Special Instructions

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

Sample Disposal: ☒ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Turn Around Time Required: ☐ Normal ☒ Rush Due 9-15-95

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific (Specify): SDG W0696

	Date	Time		Date	Time
1. Relinquished By: Hudelberg Quanterra	8-31-95	16:00	1. Received By: George W. Byrd	09-01-95	08:15
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Stay with Sample; CANARY - Return to Client with Report; PINK - F.I.L.C.

9613446.8896

0000006

Westinghouse Hanford Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround: [X] Priority [ ] Normal

Collector: Doug Bowers	Company Contact: R. K. Tranberger	Telephone No.: 372-9298
Project Designation: Purus Tech. Demo. Waste Designation (Carbon Tet)	Sampling Location: 216-Z-9 Trench Site 200 West	SAF No.: B95-096
Ice Chest No.: GWS-025	Field Logbook No.: EFL-1133	Method of Shipment: Hand Deliver
Shipped To: Quanterra	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A
Possible Sample Hazards/Remarks: Unknown		
Special Handling and/or Storage: cool to 4C		

SAMPLE ANALYSIS: 508499 SDL W0096

Preservative	cool 4C	Cool 4C	Cool 4C	none	none
Type of Container	P/G	P/G	Gs	P/G	P/G
No. of Container(s)	1	1	3	1	1
Volume	20 mL	60 mL	40 mL	20 mL	20 mL
	ICP Metals TAL	Anions F,Cl, SO4,PO4, NO2, NO3	VOA TCL	Activity Scan	Rad Screen

Sample No.	Matrix*	Date Sampled	Time Sampled	ICP Metals TAL	Anions F,Cl, SO4,PO4, NO2, NO3	VOA TCL	Activity Scan	Rad Screen
BOGJ96 01	X	8-30-95	1035	X 100%	X 100%	X 3x 100%	X	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: Doug Bowers	Date/Time: 8-30-95/1400	Received By: [signature] GR B. Whitten	Date/Time: 8-30-95 1400
Relinquished By: [signature] ER B. Whitten	Date/Time: 8-31-95 0 1034	Received By: Karen Schlinburg Quanterra	Date/Time: 8-31-95 10:30
Relinquished By:	Date/Time:	Received By: Lisa Thay	Date/Time: 100 CPM
Relinquished By:	Date/Time:	Received By:	Date/Time:

SPECIAL INSTRUCTIONS

Sample analysis for phosphate, nitrate, and nitrite by EPA 300.00 at the Quanterra Laboratories is being requested for information only. The ERC Contractor acknowledges the 48-hour holding time will not be met.

material is almost pure CCly

Matrix*

- S = Soil
- SE = Sediment
- SD = 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

DISTRIBUTION: Original- Sample Yellow - Sampler

BC-6000-828 (12/92)

9613446.2897

0000007

Client Sample Screening Results

31-Aug-95

(R3) 8/31/95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0FBT2		8/31/95 12:30:00 PM	QUAD23A	8/31/95 3:35:52 PM	B0FBT2	30	2431	80.9933333	45762	1524.4141
	LIQUID		Bkg:	8/31/95 7:20:28 AM	BKG	925	37	0.04	912	0.9859459
Anl Date: 8/31/95	Tot Sa, Alq: 1.00E+00	, 1.00E-01	Alp; (Dpm/ 1.97E+02	(uCi/ 8.89E-01	(pCi/ 8.89E+05	± 1.7E+04	CAT	2.8E-05	Lab	
Ppt mg: 0	Units: L	, ml	Bet; Alq): 2.83E+03	Sa): 1.27E+01	Lig): 1.27E+07	± 6.0E+04	III	3.9E-06	Alq Lig	
WHC B0FBT3		8/31/95 12:30:00 PM	QUAD23B	8/31/95 3:35:52 PM	B0FBT3	30	3	0.05675676	46	0.6317117
	LIQUID		Bkg:	8/31/95 7:20:28 AM	BKG	925	40	0.04324324	834	0.9016216
Anl Date: 8/31/95	Tot Sa, Alq: 1.00E+00	, 5.00E+00	Alp; (Dpm/ 1.55E-01	(uCi/ 1.39E-05	(pCi/ 1.39E+01	± 3.7E+01	CAT	1.8E+00	Lab	
Ppt mg: 0	Units: L	, ml	Bet; Alq): 1.16E+00	Sa): 1.05E-04	Lig): 1.05E+02	± 3.9E+01	I	4.8E-01	Alq Lig	
WHC B0GJP1		8/31/95 10:30:00 AM	QUAD21B	8/31/95 2:09:02 PM	B0GJP1	30	3	0.04270270	35	0.3169369
	LIQUID		Bkg:	8/31/95 7:19:57 AM	BKG	925	53	0.0572973	786	0.8497297
Anl Date: 8/31/95	Tot Sa, Alq: 5.00E-01	, 5.00E+00	Alp; (Dpm/ 1.47E-01	(uCi/ 6.63E-06	(pCi/ 1.33E+01	± 4.8E+01	CAT	1.9E+00	Lab	
Ppt mg: 14.9	Units: L	, ml	Bet; Alq): 6.06E-01	Sa): 2.73E-05	Lig): 5.46E+01	± 3.6E+01	I	9.2E-01	Alq Lig	
WHC B0GJP2		8/31/95 10:30:00 AM	QUAD21C	8/31/95 2:09:02 PM	B0GJP2	30	6	0.14486486	60	0.9070270
	LIQUID		Bkg:	8/31/95 7:19:57 AM	BKG	925	51	0.05513514	1011	1.092973
Anl Date: 8/31/95	Tot Sa, Alq: 5.00E-01	, 1.00E+00	Alp; (Dpm/ 7.00E-01	(uCi/ 1.58E-04	(pCi/ 3.15E+02	± 3.9E+02	CAT	7.9E-02	Lab	
Ppt mg: 49.8	Units: L	, ml	Bet; Alq): 1.84E+00	Sa): 4.15E-04	Lig): 8.30E+02	± 2.5E+02	I	6.0E-02	Alq Lig	
WHC B0GJQ6		8/31/95 10:30:00 AM	QUAD21D	8/31/95 2:09:02 PM	B0GJQ6	30	3	0.04378378	40	0.3700901
	LIQUID		Bkg:	8/31/95 7:19:57 AM	BKG	925	52	0.05621622	891	0.9632432
Anl Date: 8/31/95	Tot Sa, Alq: 6.00E-02	, 1.00E+01	Alp; (Dpm/ 1.58E-01	(uCi/ 4.28E-07	(pCi/ 7.14E+00	± 2.7E+01	CAT	3.5E+00	Lab	
Ppt mg: 22	Units: L	, ml	Bet; Alq): 7.33E-01	Sa): 1.98E-06	Lig): 3.30E+01	± 2.0E+01	I	1.5E+00	Alq Lig	

9613446.2898

0000008

8/31/95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC TEDF083195001		8/31/95 12:30:00 PM	QUAD23C	8/31/95 3:35:52 PM	TEDF083195001	30	3	0.05567568	39	0.2945946
	LIQUID		Bkg:	8/31/95 7:20:28 AM	BKG	925	41	0.04432432	930	1.0054054

Anl Date: 8/31/95	Tot Sa, Alq: 5.00E-01	, 5.00E+00	Alp;	(Dpm/ 1.57E-01	(uCi/ 7.05E-06	(pCi/ 1.41E+01	± 4.0E+01	CAT	1.8E+00	Lab
Ppt mg: 2.1	Units: L	, ml	Bet;	Alq): 5.39E-01	Sa): 2.43E-05	Lig): 4.85E+01	± 3.7E+01	I	1.0E+00	Alq Lig

9613446.2899

6000000

Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Written Response Required: NO
CCN: N/A
OU: 200-ZP-2
TSD: N/A
ERA: N/A
Subject Code: 5860

TO: S.A. Driggers H6-03
T.L. LaFreinere X0-23

DATE: March 6, 1995

COPIES: See Below

FROM: Michael Wesselman
200 Areas Radiological Support
N3-06/ 376-2084

SUBJECT: Radiological Survey Requirements and Recommendations for the Purus Padre Vapor Treatment Unit

After the Purus Padre equipment is connected to the Z-9 vapor extraction system, it is not expected to be exposed to anything but naturally occurring radioactivity. The Purus system is to be installed downstream of two banks of high efficiency particulate air (HEPA) filters which will prevent the potential spread of contamination from any wells in Z-crib area to the unit. These HEPA's have an isokinetic particulate air sampler located near their exhaust. The filters on this sampler are checked on a weekly basis to verify that the HEPA's have not allowed contamination to enter the system.

The only radiological concerns associated with this system are related to the resins used to remove vapor from the air stream and the CCL, liquid wastes retention containers. The resin has the potential to accumulate Radon gas and Radon daughter products which will be transported with the liquid wastes to its storage containers. A weekly check should be performed to verify that this build up does not generate doserates greater than 5 mRem/hr on contact with the unit or waste drums.

Since there is no contamination threat other than the build up of radon in the resin, samples taken anywhere in the system will not require release surveys even when the system is attached to the Vapor Extraction System (VES). However, if samples need to be taken of the resin or the liquid wastes, they should be checked with field instruments to ensure the radon has decayed to below detectable levels prior to shipping.

While no release survey will be required for the unit to leave the site, I recommend an end of work survey to document that the unit meets DOT specifications and to provide a record for future reference should the unit ever be exposed to contamination elsewhere (ie. I.N.E.L. or Savannah River).

This survey should consist of large area smears of the work areas and accessible portions of the external surfaces of the system as well as at any point where the Purus system was connected to the VES unit. Direct readings should be taken on the resin beds, waste containers, the control panel, connection points, and random locations on the unit exterior. The direct readings should consist of 15 second static counts performed with both a PAM and a Geiger-Muller (GM) "Pancake" type probe. There should be at least twenty-two readings taken with each instrument.

If it is found that radon does build up in the resin, or liquid wastes, as would be indicated by a survey with the GM "pancake" probe, the unit or wastes should not be removed from the site until dosrates in contact with the affected areas are below 0.5 mRad/hr in order to meet DOT specifications. This can be determined using an Eberline RO-3 "CP" to survey the area where the elevated GM readings are encountered.

Michael Wesselman

maw

Distribution

BHI Document Control	H4-79
SA Driggers	H6-01
AP Goforth	H6-08
GC Henckel	H6-07
TL LaFreniere	X0-23
KA Mathews	X0-23
RK Tranbarger	H6-04
JG Zoghbi	H6-07

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 8-2-95 1030 Client Name BHI

Project/Client # B95-096 Batch or Case # _____

Cooler ID (if noted on outside of cooler) CLUS025

1. Condition of shipping container? _____
2. Custody Seals on cooler intact? Yes [ ] No [ ]
3. Custody Seals dated and signed? Yes [ ] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [ ]
5. Vermiculite/packing material is: Wet [ ] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [ ] _____
7. Number of sample containers in cooler: 18
8. Samples have: ____ tape ____ hazard labels
   ____ custody seals ____ appropriate sample labels
9. Samples are: ____ in good condition ____ leaking
   ____ broken ____ have air bubbles
   ____ other
10. Coolant Present? Yes [X] No [ ] Sample Temperature 4°C
11. The following paperwork should be accounted for (N/A if not applicable):
    Chain of Custody #(s) _____
    Request for Analysis #(s) _____
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature _____ Date/Time _____

9613446.2903

Quanterra
Environmental Services

C.U.R. and C.O.C.
COPIED TO: BW/WP
DATE: 09-01-95
TIME: 10:25
BY: GWB

Work Order No.: 9262

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: BECHTEL HANFORD
Date: 09-01-95 08:15
Project No: 550.101
Initiated by: George W Byrd
Analysis Requested: Refer to RFA/COC
RFA/COC Numbers: # 04950
Client Sample Numbers Affected: Entire Login

Condition/Variance (Check all that apply): Circle Number to Denote that Item was Evaluated. "NA" = "Not Applicable".

1	NA	Not enough sample received for proper analysis. Received approximately: _____
2	☐	Sample received broken/leaking.
3	☐	Sample received without proper preservative.
	☐	Cooler temperature not within 4°C ± 2°C. Record temperature: 5°
	☐	pH _____
	☐	other: _____
4	☐	Sample received in improper container.
5	☐	Sample received without proper paperwork. Explain: _____
6	☐	Paperwork received without sample.
7	☐	No sample ID on sample container.
8	☐	Custody tape disturbed/broken/missing.
9	NA	Sample splits performed by lab.
10	NA	Volatile sample received with approximately _____ mm headspace.
11	☐	Sample ID on container does not match sample ID on paperwork. Explain: _____
12	☐	All coolers on airbill not received with shipment.
13	☐	Other (explain below): Shipping containers not rad surveyed. 1760467284

Notes:

Corrective Action:

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

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

☐ Sample(s) processed "as is". Comments: _____

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

Sample Control Supervisor Review: (or designate) George W Byrd Date: 09-01-95

Project Management Review: Abby [illegible] Date: 9/7/95

0000013

5278

9613446.2904

Quanterra Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: VOA TCL EPA 8240
Method: EPA 8240
Matrix: LIQUID

Client ID: B0GJQ6

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/14/95

Quanterra ID : 9262-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK77968-1	09/13/95	09/13/95	50000000	UG/KG	U	50000000	2000000
Bromomethane	74-83-9	QCBLK77968-1	09/13/95	09/13/95	50000000	UG/KG	U	50000000	2000000
Vinyl Chloride	75-01-4	QCBLK77968-1	09/13/95	09/13/95	50000000	UG/KG	U	50000000	2000000
Chloroethane	75-00-3	QCBLK77968-1	09/13/95	09/13/95	50000000	UG/KG	U	50000000	2000000
Methylene Chloride	75-09-2	QCBLK77968-1	09/13/95	09/13/95	24000000	UG/KG	BJ	25000000	2000000
Acetone	67-64-1	QCBLK77968-1	09/13/95	09/13/95	500000000	UG/KG	U	500000000	2000000
Carbon Disulfide	75-15-0	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,1-Dichloroethene	75-35-4	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,1-Dichloroethane	75-34-3	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,2-Dichloroethene (total)	540-59-0	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Chloroform	67-66-3	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,2-Dichloroethane	107-06-2	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
2-Butanone	78-93-3	QCBLK77968-1	09/13/95	09/13/95	500000000	UG/KG	U	500000000	2000000
1,1,1-Trichloroethane	71-55-6	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Carbon Tetrachloride	56-23-5	QCBLK77968-1	09/13/95	09/13/95	300000000	UG/KG		25000000	2000000
Bromodichloromethane	75-27-4	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,2-Dichloropropane	78-87-5	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
cis-1,3-Dichloropropene	10061-01-5	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Trichloroethene	79-01-6	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Dibromochloromethane	124-48-1	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,1,2-Trichloroethane	79-00-5	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Benzene	71-43-2	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
trans-1,3-Dichloropropene	10061-02-6	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Bromoform	75-25-2	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
4-Methyl-2-Pentanone	108-10-1	QCBLK77968-1	09/13/95	09/13/95	250000000	UG/KG	U	250000000	2000000
2-Hexanone	591-78-6	QCBLK77968-1	09/13/95	09/13/95	250000000	UG/KG	U	250000000	2000000
Tetrachloroethene	127-18-4	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Toluene	108-88-3	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Chlorobenzene	108-90-7	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
EthylBenzene	100-41-4	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Styrene	100-42-5	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Xylene (total)	1330-20-7	QCBLK77968-1	09/13/95	09/13/95	25000000	UG/KG	U	25000000	2000000
Toluene-d8 (SURR)	2037-26-5	QCBLK77968-1	09/13/95	09/13/95	96	%REC			2000000
Bromofluorobenzene (SURR)	460-00-4	QCBLK77968-1	09/13/95	09/13/95	97	%REC			2000000
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK77968-1	09/13/95	09/13/95	105	%REC			2000000

9613446.2905

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: VOA TCL EPA 8240
Method: EPA 8240
Matrix: LIQUID

Client ID: BOGJQ6

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/14/95

Quanterra ID : 9262-001MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK77968-1	09/13/95	09/13/95	110	%REC			2000000
Trichloroethene	79-01-6	QCBLK77968-1	09/13/95	09/13/95	96	%REC			2000000
Benzene	71-43-2	QCBLK77968-1	09/13/95	09/13/95	86	%REC			2000000
Toluene	108-88-3	QCBLK77968-1	09/13/95	09/13/95	91	%REC			2000000
Chlorobenzene	108-90-7	QCBLK77968-1	09/13/95	09/13/95	91	%REC			2000000
Toluene-d8 (SURR)	2037-26-5	QCBLK77968-1	09/13/95	09/13/95	98	%REC			2000000
Bromofluorobenzene (SURR)	460-00-4	QCBLK77968-1	09/13/95	09/13/95	99	%REC			2000000
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK77968-1	09/13/95	09/13/95	110	%REC			2000000

9613446.2906

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: VOA TCL EPA 8240
Method: EPA 8240
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/14/95

Client ID: B0GJQ6

Quanterra ID : 9262-001MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK77968-1	09/13/95	09/13/95	114	%REC			2000000
Trichloroethene	79-01-6	QCBLK77968-1	09/13/95	09/13/95	96	%REC			2000000
Benzene	71-43-2	QCBLK77968-1	09/13/95	09/13/95	85	%REC			2000000
Toluene	108-88-3	QCBLK77968-1	09/13/95	09/13/95	89	%REC			2000000
Chlorobenzene	108-90-7	QCBLK77968-1	09/13/95	09/13/95	91	%REC			2000000
Toluene-d8 (SURR)	2037-26-5	QCBLK77968-1	09/13/95	09/13/95	95	%REC			2000000
Bromofluorobenzene (SURR)	460-00-4	QCBLK77968-1	09/13/95	09/13/95	101	%REC			2000000
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK77968-1	09/13/95	09/13/95	111	%REC			2000000

9613446.2907

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GJQ6

Lab Name: QUANTERRA MO Contract: 550-101

Lab Code: ITMO Case No.: V26201 SDG No.: W0696

Matrix: (soil/water) SOIL Lab Sample ID: 9262-001

Sample wt/vol: 1.60 (g/mL) G Lab File ID: B5196

Level: (low/med) MED Date Received: 08/31/95

% Moisture: not dec. Date Analyzed: 09/13/95

Column: (pack/cap) CAP Dilution Factor: 16000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	50000000	U
74-83-9	Bromomethane	50000000	U
75-01-4	Vinyl Chloride	50000000	U
75-00-3	Chloroethane	50000000	U
75-09-2	Methylene Chloride	24000000	BJ
67-64-1	Acetone	500000000	U
75-15-0	Carbon Disulfide	25000000	U
75-35-4	1,1-Dichloroethene	25000000	U
75-34-3	1,1-Dichloroethane	25000000	U
540-59-0	1,2-Dichloroethene (total)	25000000	U
67-66-3	Chloroform	25000000	U
107-06-2	1,2-Dichloroethane	25000000	U
78-93-3	2-Butanone	500000000	U
71-55-6	1,1,1-Trichloroethane	25000000	U
56-23-5	Carbon Tetrachloride	300000000	
75-27-4	Bromodichloromethane	25000000	U
78-87-5	1,2-Dichloropropane	25000000	U
10061-01-5	cis-1,3-Dichloropropene	25000000	U
79-01-6	Trichloroethene	25000000	U
124-48-1	Dibromochloromethane	25000000	U
79-00-5	1,1,2-Trichloroethane	25000000	U
71-43-2	Benzene	25000000	U
10061-02-6	trans-1,3-Dichloropropene	25000000	U
75-25-2	Bromoform	25000000	U
108-10-1	4-Methyl-2-Pentanone	250000000	U
591-78-6	2-Hexanone	250000000	U
127-18-4	Tetrachloroethene	25000000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000000	U
108-88-3	Toluene	25000000	U
108-90-7	Chlorobenzene	25000000	U
100-41-4	Ethylbenzene	25000000	U
100-42-5	Styrene	25000000	U
1330-20-7	Xylene (total)	25000000	U

9613446.2908

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GJQ6

Lab Name: QUANTERRA MO Contract: 550-101

Lab Code: ITMO Case No.: V26201 SDG No.: W0696

Matrix: (soil/water) SOIL Lab Sample ID: 9262-001

Sample wt/vol: 1.60 (g/mL) G Lab File ID: B5196

Level: (low/med) MED Date Received: 08/31/95

% Moisture: not dec. Date Analyzed: 09/13/95

Column (pack/cap) CAP Dilution Factor: 16000

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613446.2909

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: ICAP Metals TAL EPA 6010
Method: EPA 6010
Matrix: LIQUID

Client ID: BOGJQ6

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Quanterra ID : 9262-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK77606-1	09/11/95	09/11/95	2.5	MG/KG	U	20.0	1
Antimony	7440-36-0	QCBLK77606-1	09/11/95	09/11/95	4.6	MG/KG	U	10.0	1
Barium	7440-39-3	QCBLK77606-1	09/11/95	09/11/95	0.33	MG/KG	B	20.0	1
Beryllium	7440-41-7	QCBLK77606-1	09/11/95	09/11/95	0.05	MG/KG	U	0.70	1
Cadmium	7440-43-9	QCBLK77606-1	09/11/95	09/11/95	0.31	MG/KG	U	2.0	1
Calcium	7440-70-2	QCBLK77606-1	09/11/95	09/11/95	196	MG/KG	B	500	1
Chromium	7440-47-3	QCBLK77606-1	09/11/95	09/11/95	0.28	MG/KG	U	2.0	1
Cobalt	7440-48-4	QCBLK77606-1	09/11/95	09/11/95	0.43	MG/KG	U	5.0	1
Copper	7440-50-8	QCBLK77606-1	09/11/95	09/11/95	0.47	MG/KG	U	2.5	1
Iron	7439-89-6	QCBLK77606-1	09/11/95	09/11/95	2.7	MG/KG	B	10.0	1
Magnesium	7439-95-4	QCBLK77606-1	09/11/95	09/11/95	35.8	MG/KG	B	500	1
Manganese	7439-96-5	QCBLK77606-1	09/11/95	09/11/95	0.20	MG/KG	B	1.5	1
Nickel	7440-02-0	QCBLK77606-1	09/11/95	09/11/95	1.4	MG/KG	U	4.0	1
Potassium	7440-09-7	QCBLK77606-1	09/11/95	09/11/95	106	MG/KG	U*	500	1
Silver	7440-22-4	QCBLK77606-1	09/11/95	09/11/95	0.30	MG/KG	B	20.0	1
Sodium	7440-23-5	QCBLK77606-1	09/11/95	09/11/95	29.7	MG/KG	B	100	1
Vanadium	7440-62-2	QCBLK77606-1	09/11/95	09/11/95	0.38	MG/KG	U	5.0	1
Zinc	7440-66-6	QCBLK77606-1	09/11/95	09/11/95	1.3	MG/KG	B	2.0	1

9613446.2910

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: ICAP Metals TAL EPA 6010
Method: EPA 6010
Matrix: LIQUID

Client ID: B0GJQ6

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Quanterra ID : 9262-001MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Antimony	7440-36-0	QCBLK77606-1	09/11/95	09/11/95	98	%REC			1
Barium	7440-39-3	QCBLK77606-1	09/11/95	09/11/95	99	%REC			1
Beryllium	7440-41-7	QCBLK77606-1	09/11/95	09/11/95	102	%REC			1
Cadmium	7440-43-9	QCBLK77606-1	09/11/95	09/11/95	100	%REC			1
Chromium	7440-47-3	QCBLK77606-1	09/11/95	09/11/95	101	%REC			1
Cobalt	7440-48-4	QCBLK77606-1	09/11/95	09/11/95	101	%REC			1
Copper	7440-50-8	QCBLK77606-1	09/11/95	09/11/95	103	%REC			1
Manganese	7439-96-5	QCBLK77606-1	09/11/95	09/11/95	100	%REC			1
Nickel	7440-02-0	QCBLK77606-1	09/11/95	09/11/95	103	%REC			1
Silver	7440-22-4	QCBLK77606-1	09/11/95	09/11/95	96	%REC			1
Vanadium	7440-62-2	QCBLK77606-1	09/11/95	09/11/95	101	%REC			1
Zinc	7440-66-6	QCBLK77606-1	09/11/95	09/11/95	104	%REC			1

9613446.2911

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: ICAP Metals TAL EPA 6010
Method: EPA 6010
Matrix: LIQUID

Client ID: BOGJQ6

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Quanterra ID : 9262-001MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Antimony	7440-36-0	QCBLK77606-1	09/11/95	09/11/95	102	%REC			1
Barium	7440-39-3	QCBLK77606-1	09/11/95	09/11/95	99	%REC			1
Beryllium	7440-41-7	QCBLK77606-1	09/11/95	09/11/95	101	%REC			1
Cadmium	7440-43-9	QCBLK77606-1	09/11/95	09/11/95	97	%REC			1
Chromium	7440-47-3	QCBLK77606-1	09/11/95	09/11/95	101	%REC			1
Cobalt	7440-48-4	QCBLK77606-1	09/11/95	09/11/95	100	%REC			1
Copper	7440-50-8	QCBLK77606-1	09/11/95	09/11/95	102	%REC			1
Manganese	7439-96-5	QCBLK77606-1	09/11/95	09/11/95	99	%REC			1
Nickel	7440-02-0	QCBLK77606-1	09/11/95	09/11/95	102	%REC			1
Silver	7440-22-4	QCBLK77606-1	09/11/95	09/11/95	100	%REC			1
Vanadium	7440-62-2	QCBLK77606-1	09/11/95	09/11/95	99	%REC			1
Zinc	7440-66-6	QCBLK77606-1	09/11/95	09/11/95	102	%REC			1

9613446.2912

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GJQ6

Lab Name: QUANTERRA MO Contract: 550.101

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0696

Matrix (soil/water): SOIL Lab Sample ID: 9262-001

Level (low/med): LOW Date Received: 08/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2.5	U		P
7440-36-0	Antimony	4.6	U		P
7440-39-3	Barium	0.33	B		P
7440-41-7	Beryllium	0.05	U		P
7440-43-9	Cadmium	0.31	U		P
7440-70-2	Calcium	196	B		P
7440-47-3	Chromium	0.28	U		P
7440-48-4	Cobalt	0.43	U		P
7440-50-8	Copper	0.47	U		P
7439-89-6	Iron	2.7	B		P
7439-95-4	Magnesium	35.8	B		P
7439-96-5	Manganese	0.20	B		P
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	106	U		P
7440-22-4	Silver	0.30	B		P
7440-23-5	Sodium	29.7	B		P
7440-62-2	Vanadium	0.38	U		P
7440-66-6	Zinc	1.3	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN

SW-846

9613446.2913

Quanterra Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Chloride
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GJQ6	9262-001	Chloride	16887-00-6	QCBLK77598-2	09/07/95	09/07/95	1.95	UG/G	U	1.95	1
B0GJQ6	9262-001DUP	Chloride	16887-00-6	QCBLK77598-2	09/07/95	09/07/95	1.98	UG/G	U	1.98	1
B0GJQ6	9262-001MS	Chloride	16887-00-6	QCBLK77598-2	09/07/95	09/07/95	102	%REC			5
NA	QCBLK77598-2	Chloride	16887-00-6	QCBLK77598-2	09/07/95	09/07/95	2.00	UG/G	U	2.00	1
NA	QCLCS77598-3	Chloride	16887-00-6	QCBLK77598-2	09/07/95	09/07/95	88	%REC			1

9613446.2914

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Fluoride
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GJQ6	9262-001	Fluoride	16984-48-8	QCBLK77598-2	09/07/95	09/07/95	0.98	UG/G	U	0.98	1
B0GJQ6	9262-001DUP	Fluoride	16984-48-8	QCBLK77598-2	09/07/95	09/07/95	0.99	UG/G	U	0.99	1
B0GJQ6	9262-001MS	Fluoride	16984-48-8	QCBLK77598-2	09/07/95	09/07/95	105	%REC			1
NA	QCBLK77598-2	Fluoride	16984-48-8	QCBLK77598-2	09/07/95	09/07/95	1.00	UG/G	U	1.00	1
NA	QCLCS77598-3	Fluoride	16984-48-8	QCBLK77598-2	09/07/95	09/07/95	94	%REC			1

9613446.2915

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Nitrate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GJQ6	9262-001	Nitrate	14797-55-8	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
B0GJQ6	9262-001DUP	Nitrate	14797-55-8	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
B0GJQ6	9262-001MS	Nitrate	14797-55-8	QCBLK77598-2	09/07/95	09/07/95	101	%REC			5
NA	QCBLK77598-2	Nitrate	14797-55-8	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
NA	QCLCS77598-3	Nitrate	14797-55-8	QCBLK77598-2	09/07/95	09/07/95	98	%REC			1

9613446.2917

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Nitrite
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GJQ6	9262-001	Nitrite	14797-65-0	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
B0GJQ6	9262-001DUP	Nitrite	14797-65-0	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
B0GJQ6	9262-001MS	Nitrite	14797-65-0	QCBLK77598-2	09/07/95	09/07/95	95	%REC			5
NA	QCBLK77598-2	Nitrite	14797-65-0	QCBLK77598-2	09/07/95	09/07/95	0.20	UG/G	U	0.20	1
NA	QCLCS77598-3	Nitrite	14797-65-0	QCBLK77598-2	09/07/95	09/07/95	89	%REC			1

9613446.2916

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Orthophosphate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GJQ6	9262-001	Ortho-Phosphate	14265-44-2	QCBLK77598-2	09/07/95	09/07/95	4.87	UG/G	U	4.87	1
B0GJQ6	9262-001DUP	Ortho-Phosphate	14265-44-2	QCBLK77598-2	09/07/95	09/07/95	4.95	UG/G	U	4.95	1
B0GJQ6	9262-001MS	Ortho-Phosphate	14265-44-2	QCBLK77598-2	09/07/95	09/07/95	108	%REC			1
NA	QCBLK77598-2	Ortho-Phosphate	14265-44-2	QCBLK77598-2	09/07/95	09/07/95	5.00	UG/G	U	5.00	1
NA	QCLCS77598-3	Ortho-Phosphate	14265-44-2	QCBLK77598-2	09/07/95	09/07/95	98	%REC			1

9613446.2918

Quanterra
Environmental Services

Quanterra-Richland
P.O. Box 1970
Richland, WA 99352

Project: 550.101

Category: Sulfate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 08/30/95
Receipt Date : 08/31/95
Report Date : 09/13/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGJQ6	9262-001	Sulfate	14808-79-8	QCBLK77598-2	09/07/95	09/07/95	4.87	UG/G	U	4.87	1
BOGJQ6	9262-001DUP	Sulfate	14808-79-8	QCBLK77598-2	09/07/95	09/07/95	4.95	UG/G	U	4.95	1
BOGJQ6	9262-001MS	Sulfate	14808-79-8	QCBLK77598-2	09/07/95	09/07/95	96	%REC			5
NA	QCBLK77598-2	Sulfate	14808-79-8	QCBLK77598-2	09/07/95	09/07/95	5.00	UG/G	U	5.00	1
NA	QCLCS77598-3	Sulfate	14808-79-8	QCBLK77598-2	09/07/95	09/07/95	86	%REC			1