START 9613447.0058 0044383 W0730-2

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

JUN 1996 RECEIVED LDMC

October 27, 1995

Attention: Joan Kessner

Project number	:	550.104
Date Received by Lab	:	September 22 and 25, 1995
Number of Samples	:	Twenty-four (24)
Sample Type	:	Water
SDG Number	:	W0730
Data Deliverable	:	Summary

I. Introduction

On September 22 and 25, 1995, twenty-four (24) water samples were received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. Upon receipt, the samples were given the following laboratory ID numbers to correspond with the specific client ID's:

St Louis ID	BHI ID	Richland ID	Matrix	Date of Receipt
9416-001	B0GKM7	50934001	Water	09/22/95
9416-002	B0GKN8	50934003	Water	09/22/95
9416-003	B0GKM8	50934002	Water	09/22/95
9417-001	B0GKL9	50937001	Water	09/25/95
9417-002	B0GKM1	50937004	Water	09/25/95
9417-003	B0GKM3	50937007	Water	09/25/95
9417-004	B0GKM5	50937010	Water	09/25/95
9417-005	B0GKM9	50937013	Water	09/25/95
9417-006	B0GKN1	50937016	Water	09/25/95
9417-007	B0GKN3	50937019	Water	09/25/95
9417-008	B0GKM0	50937002	Water	09/25/95
9417-009	B0GKM2	50937005	Water	09/25/95

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St Louis ID	BHI ID	Richland ID	Matrix	Date of Receipt
9417-010	B0GKM4	50937008	Water	09/25/95
9417-011	B0GKM6	50937011	Water	09/25/95
9417-012	B0GKN0	50937014	Water	09/25/95
9417-013	B0GKN2	50937017	Water	09/25/95
9417-014	B0GKN4	50937020	Water	09/25/95
9417-015	B0GKN9	50937003	Water	09/25/95
9417-016	B0GKP0	50937006	Water	09/25/95
9417-017	B0GKP4	50937009	Water	09/25/95
9417-018	B0GKP2	50937012	Water	09/25/95
9417-019	B0GKP1	50937015	Water	09/25/95
9417-020	B0GKP5	50937018	Water	09/25/95
9417-021	B0GKP6	50937021	Water	09/25/95

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: VOA by EPA method 8240. ICP metals by EPA methdo 6010. Arsenic by EPA method 7060. Lead by EPA method 7421. Selenium by EPA method 7740. Thallium by EPA method 7841. Chloride, Fluoride, Nitrate, Phosphate, and Sulfate by EPA method 300.0. Ammonia by EPA method 350.1. Sulfide by EPA method 9030.

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.

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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

There were no comments or nonconformances associated with the Volatiles or Metals analyses.

The Matrix Spike is outside of the suggested QC limits of ± 25% for sample 9416-001 on the Sulfide analysis.

The Relative Percent Differences could not be calculated due to the values being below the detection limits for sample 9416-001 and its duplicate on the Sulfide, Ammonia and Phosphate analyses.

The Matrix Spikes are outside of the suggested QC limits of 75-125% for sample 9416-001 on the Ammonia and Fluoride analyses.

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

Due to the CCVS injection at #56 not being integrated by the software, the Fluoride peak was manually integrated.

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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
Quanterra Environmental Services, St. Louis
e:\\price$\abby\dave\hanw0730.nar

Quanterra September 26, 1995 02:50 pm
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9416

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.
9416-001	B0GKM7	Water	21-SEP-95 13:30	22-SEP-95 10:45	27-OCT-95	FED-EX		1 Screening not Required	
RICHLAND I.D. 50934001									
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	20-OCT-95	05-OCT-95	109P	(181569:100 181570:99 181571:98)	
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		FL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		NH3/350.1/Q4	S	H2SO4	20-OCT-95	19-MAR-96	S17B	(181574:99)	
1		NO3/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		OPHOS/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		SO4/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		ICAP/6010/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		PB/7421/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		SE/7740/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		TL/7841/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	20-OCT-95	28-SEP-95	S17B	(181575:100 181576:99 181577:98)	
9416-001DUP	B0GKM7	Water	21-SEP-95 13:30	22-SEP-95 10:45	27-OCT-95	FED-EX		1 Screening not Required	
RICHLAND I.D. 50934001									
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		FL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		NH3/350.1/Q4	S	H2SO4	20-OCT-95	19-MAR-96	S17B	(181574:99)	
1		NO3/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		OPHOS/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		SO4/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	20-OCT-95	28-SEP-95	S17B	(181575:100 181576:99 181577:98)	
9416-001MS	B0GKM7	Water	21-SEP-95 13:30	22-SEP-95 10:45	27-OCT-95	FED-EX		1 Screening not Required	
RICHLAND I.D. 50934001									
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	20-OCT-95	05-OCT-95	109P	(181569:100 181570:99 181571:98)	
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		FL/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1		NH3/350.1/Q4	S	H2SO4	20-OCT-95	19-MAR-96	S17B	(181574:99)	
1		NO3/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		OPHOS/300.0/Q4	S	COLD	20-OCT-95	23-SEP-95	S17B	(181573:100)	
1		SO4/300.0/Q4	S	COLD	20-OCT-95	19-OCT-95	S17B	(181573:100)	
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		ICAP/6010/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		PB/7421/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		SE/7740/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		TL/7841/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	

3*=Sample has not been rad screened.

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Quanterra September 26, 1995 02:50 pm
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9416

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.
Comments / Data:									
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	20-OCT-95	28-SEP-95	S17B	(181575:100 181576:99 181577:98)	
9416-001MSD	BOGKM7	Water	21-SEP-95 13:30	22-SEP-95 10:45	27-OCT-95	FED-EX	1	Screening not Required	
RICHLAND I.D. 50934001									
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	20-OCT-95	05-OCT-95	109P	(181569:100 181570:99 181571:98)	
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		ICAP/6010/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		PB/7421/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		SE/7740/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
1		TL/7841/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181572:100)	
9416-002	BOGKM8	Water	20-SEP-95 12:10	22-SEP-95 10:45	27-OCT-95	FED-EX	1	Screening not Required	
RICHLAND I.D. 50934003									
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	20-OCT-95	04-OCT-95	109P	(181578:100 181579:99 181580:98)	
9416-003	BOGKM8	Water	21-SEP-95 13:30	22-SEP-95 10:45	27-OCT-95	FED-EX	1	Screening not Required	
RICHLAND I.D. 50934002									
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181590:100)	
1		ICAPD/6010/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181590:100)	
1		PBD/7421/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181590:100)	
1		SED/7740/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181590:100)	
1		TLD/7841/Q4	S	HNO3	20-OCT-95	19-MAR-96	S17B	(181590:100)	

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3*=Sample has not been rad screened.

Temp 4°C CVR# 5477

[redacted]

Chain of Custody Record

To: St Louis

Quanterra Environmental Services

QUA-4124

Client: Bechtel Hanford	Project Manager: Van Pettey	Date: 9-22-95	Chain Of Custody Number: 0499E
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City / State / Zip Code	Site Contact		
Project Name: SAF B95-099	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis
50934001 BOGKM7		SEE	CoC						SEE COC
↓ 02 ↓ KM8									
03 KN8									

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

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific (Specify): SDG W0730

	Date	Time		Date	Time
1. Relinquished By: Heidelberg Quanterra	9-22-95	16:00	1. Received By: Fred Mutter	9-23-95	08:15
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

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Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: D. A. St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: GWS-015	Field Logbook No.: EFL-1019	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA PH 1 1	Bill of Lading/Air Bill No.: NA 1 2 1

Possible Sample Hazards/Remarks	Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	NaOH *1	HNO_3	None		HNO_3
	Type of Container	Gs	P/G	A/G	A/G	P	P/G	P/G		P/G
	No. of Container(s)	3	1	1	1	3	1	1		1
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.	Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L
SAMPLE ANALYSIS 509340 SDL W0730		VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U 509341	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered)	Anions (IC)	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered)
B0GKM7 01	W	09/21/95	1330	X	X	X	X	X	X	X		
B0GKM8 02	W	09/21/95	1330									X
B0GKN8 03	W	09/20/95	1210	X								
				3X100	100	100	100	3X100				100

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D. St. John	1520 09-21-95	Received By	1520 B.Whitten 9-21-95
Relinquished By	B.Whitten	1045 9-22-95	Received By	1045 9/22/95
Relinquished By			Received By	
Relinquished By			Received By	

SPECIAL INSTRUCTIONS

*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

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

9613947.0065

00000:7

Client Sample Screening Results

22-Sep-95

(R3) 9/22/95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKJ8		9/22/95 11:05:00 AM	QUAD21A	9/22/95 2:41:42 PM	B0GKJ8	30	24	0.74	108	2.508
	LIQUID		Bkg:	9/22/95 2:26:14 AM	BKG	500	30	0.06	546	1.092

Ani Date: 9/22/95 Tot Sa, Alq: 1.00E+00 , 1.00E+01 Alp; (Dpm/ 2.13E+00 (uCi/ 9.58E-05 (pCi/ 9.58E+01 ± 2.8E+01 CAT I 2.6E-01 Lab Alq
Ppt mg: 1.4 Units: L , ml Bet; Alq): 4.63E+00 Sa): 2.09E-04 Lig): 2.09E+02 ± 3.1E+01 2.4E-01 Lig

WHC B0GKM7		9/22/95 11:05:00 AM	QUAD21B	9/22/95 2:41:42 PM	B0GKM7	30	46	1.47533333	151	4.1613333
	LIQUID		Bkg:	9/22/95 2:26:14 AM	BKG	500	29	0.058	436	0.872

Ani Date: 9/22/95 Tot Sa, Alq: 1.00E+00 , 1.00E+01 Alp; (Dpm/ 4.62E+00 (uCi/ 2.08E-04 (pCi/ 2.08E+02 ± 3.4E+01 CAT I 1.2E-01 Lab Alq
Ppt mg: 2.6 Units: L , ml Bet; Alq): 7.20E+00 Sa): 3.24E-04 Lig): 3.24E+02 ± 3.4E+01 1.5E-01 Lig

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Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Written Response Required: NO
CCN: N/A
OU: 300 FF-2
TSD: N/A
ERA: N/A
Subject Code: 3530

TO: W. S. Thompson N3-06

DATE: September 20, 1995

COPIES: J. E. Parsons X0-23
M. J. Galgoul H6-01

FROM: S. K. De Mers
Radiological Controls
T7-05/373-1913

SUBJECT: **Sampling of Wells 699-S6-E4A, E4B, and E4C and Wells 699-12-4D and 699-13-1A&B**

There is no need to perform total activities prior to offsite shipment to NRC licensed labs of samples taken from these wells.

The wells were reviewed for radiological content based on the previous sampling data. Additionally, other wells in the same local were reviewed as recent sampling data is not available for all wells. The wells listed have a β activity <100,000 pCi/l (<.1 uCi/sample based on a 1 liter sample size) and the α activity is <10,000 pCi/l (<.01 uCi/l based on a 1 liter sample). The well shows activities < 2,000 pCi/gm (< 2 nCi/gm D.O.T. limit). The highest activity in recent samples is 36,600 pCi/l $\beta(H^3)$ and 15 pCi/l α. Other wells in the vicinity showed a recent high of 86,000 pCi/l of Tritium. While this value exceeds the drinking water limit, it does not exceed the limit for DOT shipping.

None of the wells reviewed are located within radiological areas and will not require any RCT support.

skd

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/22/95 1045 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) GWS 015

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 19
8. Samples have: X tape ____ hazard labels
   X custody seals ____ appropriate sample labels
9. Samples are: X 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) N/A
    Request for Analysis #(s) —
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [X]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore Tom Gilmore Date/Time 9/22/95 1045

Environmental Services 9613447.0069

C.U.R. and C.O.C.
COPIED TO: BW & WP
DATE: 9-23-95
TIME: 09:00
JMM

Work Order No.: 9416

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Richland

Date: 9-23-95 08:15

Project No: 550.104

Initiated by: [illegible]

Analysis Requested: Refer to RFA/COC

RFA/COC Numbers:

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: 4°C 1/21/98
   - ☐ 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.
    292 2776 367

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) [illegible] Date: 9-23-95

Project Management Review: [illegible] Date: 9/27/95

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

0000011

5477

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

Draft: Final: Entered and Reviewed by: Bob Cannel PM Review: Abby Wolder

Sample Header Template:

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-001	B0GKL9	Water	23-SEP-95 10:11	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937001								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181623:100 181624:99 181625:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181627:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181627:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181628:99)*
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181627:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181627:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181627:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181626:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181626:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181626:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181626:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181626:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181629:100 181630:99 181631:98)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-002	B0GKM1	Water	23-SEP-95 13:45	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937004								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181632:100 181633:99 181634:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181636:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181636:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181637:99)
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181636:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181636:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181636:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181635:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181635:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181635:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181635:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181635:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181638:100 181639:99 181640:98)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-003	B0GKM3	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937007								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181641:100 181642:99 181643:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181645:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181645:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181646:99)
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181645:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181645:100)

3*=Sample has not been rad screened.

0000012

9613447.0070

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

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

Sample Header Template: _____

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-004	BOGKM5	Water	22-SEP-95 11:30	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937010								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
Data:								
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181645:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181644:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181644:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181644:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181644:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181644:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181647:100 181648:99 181649:98)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	06-OCT-95	1091	(181650:100 181651:99 181652:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	20-OCT-95	S5B	(181654:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	20-OCT-95	S5B	(181654:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	20-MAR-96	S5B	(181655:99)
1		NO3/300.0/Q4	S	COLD	23-OCT-95	24-SEP-95	S5B	(181654:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	24-SEP-95	S5B	(181654:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	20-OCT-95	S5B	(181654:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181653:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181653:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181653:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181653:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181653:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	29-SEP-95	S5B	(181656:100 181657:99 181658:98)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-005	BOGKM9	Water	23-SEP-95 14:50	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937013								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181659:100 181660:99 181661:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181663:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181663:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181664:99)
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181663:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181663:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181663:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181662:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181662:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181662:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181662:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181662:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181665:100 181666:99 181667:98)

3*=Sample has not been rad screened.

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9613447.0071

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

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

Sample Header Template: _____

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-006 BOGKN1 / RICHLAND I.D. 50937016	Water	23-SEP-95 12:10	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181668:100 181669:99 181670:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181672:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181672:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181673:99)*
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181672:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181672:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181672:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181671:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181671:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181671:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181671:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181671:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181674:100 181675:99 181676:98)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-007 BOGKN3 / RICHLAND I.D. 50937019	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181677:100 181678:99 181679:98)
1	AN - Amber Glass-500ml	CL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181681:100)
1		FL/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181681:100)
1		NH3/350.1/Q4	S	H2SO4	23-OCT-95	21-MAR-96	S5B	(181682:99)
1		NO3/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181681:100)
1		OPHOS/300.0/Q4	S	COLD	23-OCT-95	25-SEP-95	S5B	(181681:100)
1		SO4/300.0/Q4	S	COLD	23-OCT-95	21-OCT-95	S5B	(181681:100)
1	PN - Plastic-1L	AS/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181680:100)
1		ICAP/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181680:100)
1		PB/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181680:100)
1		SE/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181680:100)
1		TL/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181680:100)
3	PN - Plastic-500ml	S/9030/Q4	S	NAOH	23-OCT-95	30-SEP-95	S5B	(181683:100 181684:99 181685:98)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-008 BOGKM0 / RICHLAND I.D. 50937002	Water	23-SEP-95 10:11	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181689:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181689:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181689:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181689:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181689:100)

3*=Sample has not been rad screened.

0000014

9613447.0072

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

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

Sample Header Template: _____

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-009 BOGKM2 RICHLAND I.D. 50937005	Water	23-SEP-95 13:45	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181695:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181695:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181695:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181695:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181695:100)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-010 BOGKM4 RICHLAND I.D. 50937008	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181696:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181696:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181696:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181696:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181696:100)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-011 BOGKM6 RICHLAND I.D. 50937011	Water	22-SEP-95 11:30	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181697:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181697:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181697:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181697:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	20-MAR-96	S5B	(181697:100)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-012 BOGKN0 RICHLAND I.D. 50937014	Water	23-SEP-95 14:50	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181698:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181698:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181698:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181698:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181698:100)

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
9417-013 BOGKN2 RICHLAND I.D. 50937017	Water	23-SEP-95 12:10	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181699:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181699:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181699:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181699:100)

3*=Sample has not been rad screened.

0000015

9613447.0073

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

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

Sample Header Template: _____

Sample No. / Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
Comments							

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
Data:								
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181699:100)
9417-014	B0GKN4	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937020								
1	PN - Plastic-1L	ASD/7060/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181700:100)
1		ICAPD/6010/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181700:100)
1		PBD/7421/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181700:100)
1		SED/7740/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181700:100)
1		TLD/7841/Q4	S	HNO3	23-OCT-95	21-MAR-96	S5B	(181700:100)
9417-015	B0GKN9	Water	23-SEP-95 10:11	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937003								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181701:100 181702:99 181703:98)
9417-016	B0GKP0	Water	23-SEP-95 13:45	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937006								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181704:100 181705:99 181706:98)
9417-017	B0GKP4	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937009								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181707:100 181708:99 181709:98)
9417-018	B0GKP2	Water	22-SEP-95 09:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937012								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	06-OCT-95	1091	(181710:100 181711:99 181712:98)
9417-019	B0GKP1	Water	23-SEP-95 14:50	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937015								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181713:100 181714:99 181715:98)
9417-020	B0GKP5	Water	23-SEP-95 11:30	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937018								
3	VI - Vial-40ml	VOA/8240/Q4	S	HCL	23-OCT-95	07-OCT-95	1091	(181716:100 181717:99 181718:98)
9417-021	B0GKP6	Water	23-SEP-95 14:20	25-SEP-95 11:05	30-OCT-95	FED-EX	1	Screening not Required
RICHLAND I.D. 50937021								

3*=Sample has not been rad screened.

0000016

9613447.0074

Quanterra October 25, 1995 09:54 am
Account: 10722 Project: 550.104 Quanterra-Richland QAS No. 550.104 Rev. 0
Master Sample Login: 9417

Project Manager: W. Price

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

Sample Header Template: _____

Sample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
Comments								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
Data:								
3	VI - Vial-40ml	VOA/8240/04	S	HCL	23-OCT-95	07-OCT-95	1091	(181719:100 181720:99 181721:98)

3*=Sample has not been rad screened.

0000017

9613447.0075

Temp 2°C CUR# 5488

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
BHI St Louis	V. Pettay	9/25/95	43601
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 2
City / State / Zip Code	Site Contact / Lab Contact		
Project Name: B95-099	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

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
50937001 BOGKL9	See	COC/SAR										
2 BOGKMØ												
3 BOGKN9												
4 BOGKM1												
5 BOGKM2												
6 BOGKPØ												
7 BOGKM3												
8 BOGKM4												
9 BOGKP4												
10 BOGKM5												
11 BOGKM6												
12 BOGKP2												

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 Normal

QC Requirements (Specify): SDG WO 730

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/25/95	1600	1. Received By: [signature]	9-26-95	08:45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 0000018

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

9613447.0076

Temp 2°C Cuch 5488

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
BHI St Louis	V. Pettey	9/25/95	43602
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 2
City / State / Zip Code	Site Contact / Lab Contact		
Project Name: B95-099	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

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
50937013 BOGKM9	See	COC/SAR										
14 BOGKN0												
15 BOGKP1												
16 BOGKN1												
17 BOGKN2												
18 BOGKP5												
19 BOGKN3												
20 BOGKN4												
21 BOGKP6												
9/25/95												

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 Normal

QC Requirements (Specify): SDG WO730

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/25/95	1600	1. Received By: [signature]	9-26-95	0845
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 0000019

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

96134470077

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: K.D Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: EFL-1006	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

SAMPLE ANALYSIS: 509370

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	A Gs	P/G	A/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered)	Anions (IC)	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered)
BOGKL9 01	W	9/23/95	1011	X	X	X	X	X	X	X		
BOGKM0 2	W	9/23/95	1011	|	|	|	|	|	509371 01			X
BOGKN9 3	W	9/23/95		X	|	|	|	|				|
				|	|	|	|	|				|
				3X100	100	100	100	3X100				100

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D.S. Johnson ERC	0830 09-25-95	ERC B.S. Hitchen	0830 9-25-95
Relinquished By	ERC B.S. Hitchen	1105 9-25-95	Received By	Date/Time 9/25/95 1105
Relinquished By		Date/Time	Received By	Date/Time
Relinquished By		Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9613447.0078

0000020

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: K.D. Lee	Company Contact: M. J. Gelgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: EFL-1006	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA Pit 1 1	Bill of Lading/Air Bill No.: NA 12 1
Possible Sample Hazards/Remarks		
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.		

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered)	Anions (IC)	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered)	
BOGKM1 4	W	9/23/95	1345	X	X	X	X	X	X	X		X	[illegible]
BOGKM2 5	W	9/23/95	1345						50957102			X	
BOGKP0 6	W	9/23/95	1345	X									
				3X100	100	100	100	3X100				100	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
D.St John / ERC	0830 09-25-95	ERC / B.Whitten	0830 9-25-95
ERC / B.Whitten	1105 9-25-95	/ Bentum	9/25/95 1105

SPECIAL INSTRUCTIONS

*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9614447.0079

0000021

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: K D Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: EFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

SAMPLE ANALYSIS: 5093700

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
Possible Sample Hazards/Remarks			Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
			Type of Container	Gs	P/G	AG	AG	P	P/G	P/G		P/G	
			No. of Container(s)	3	1	1	1	3	1	1		1	
			Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
				PH 1			1	12				1	
BOGKM3 7	W	9/23/95	1420	X	X	X	X	X	X	X			
BOGKM4 8	W	9/23/95	1420						509871	03		X	
BOGKP4 9	W	9/23/95	1420	X									
				3X100	100	100	100	3X100				100	

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: D. Stubblefield	Date/Time: 0830 09-25-95	Received By: ER Bechtel	Date/Time: 0830 9-25-95
Relinquished By: ER Bechtel	Date/Time: 1105 9-25-95	Received By: Quanterra	Date/Time: 9/25/95 1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

0000022

9615947.0080

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround: ☐ Priority ■ Normal

Collector: David St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: GWS-015	Field Logbook No.: EFL-1019	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA Pit 1 1	Bill of Lading/Air Bill No.: NA 12 1

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	A P/G	A P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
Sample No. / Matrix* / Date Sampled / Time Sampled										
B0GKM5 10 / W / 09-22-95 / 1130	X	X	X	X	X	X	X			
B0GKM6 11 / W / 09-22-95 / 1130						50937104			X	
B06KP2 12 / W / 09-22-95 / 0920	X									
	3X100	100	100	100	3X100				100	

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D. St. John	9/25/95 0830	ERC	0830
Relinquished By	ERC	09-26-95	Battelle	9-25-95
Relinquished By	ERC	1105	Received By	
Relinquished By	Battelle	9-25-95	Battelle	9/25/95 1105
Relinquished By			Received By	
Relinquished By			Received By	

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SPG W0730

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

9613447.0081

0000023

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: K.O. Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: FFL-1006 & FFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3
Type of Container	Ga	P/G	A P/G	P/G	P	P/G	P/G		P/G
No. of Container(s)	3	1	1	1	3	1	1		1
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl
BOGKM9 13	W	9/23/95	~~1545~~ 1450	X	X	X	X	X	X	X		
BOGKN0 14	W	9/23/95	~~1545~~ 1450						509371	05		X
BOGKP1 15		9/23/95	~~1545~~ 1450	X								
				3X100	100	100	100	3X100				100
					2mL	Richland		Lab	ID	509	3700	2

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D. St. John / David Sign EPE	09-25-95 0830	GAL / Kris Butler Butler	0830 9-25-95
Relinquished By	GAL / Kris Butler Butler	9-25-95 1105	Tom Gunter	9/25/95 1105
Relinquished By			Received By	
Relinquished By			Received By	

SPECIAL INSTRUCTIONS

*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

Matrix*: S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; OS = 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

9613447.0082

0000024

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Date Turnaround
☐ Priority
■ Normal

Collector: K. Lee / D. St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: EFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

SAMPLE ANALYSIS: 509370

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	A Gs	P/G	A P/G	A P/G	P	P	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled										
B0GKN1 16	W	9/23/95	1210	X	X	X	X	X	X	X			
B0GKN2 17	W	9/23/95	1210						509371	06		X	
B0GKP5 18	W	9/23/95	1130	X									
				3X100	100	100	100	3X100				100	
							L	CAP Busted					

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
D St John / ERC	0830 09-25-95	ERC / Bechtel	0830 9-25-95
ERC / Bechtel	1105 9-25-95	[illegible]	9/25/95 1105

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9613497.0083

0000025

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1

Date Turnaround: ☐ Priority ■ Normal

Collector: K. Dole / D. St. John	Company Contact: M. J. Gelgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: EFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA 815	Bill of Lading/Air Bill No.: NA 12

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3
Type of Container	Gs	P/G	A P/G	A P/G	P	P/G	P/G		P/G
No. of Container(s)	3	1	1	1	3	1	1		1
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered)	Anions (IC)	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered)
BOGKN3 19	W	9/23/95	1420	X	X	X	X	X	X	X		
BOGKN4 20	W	9/23/95	1420						509371	07		X
BOGKP6 21	W	9/23/95	1420	X								
				3X100	100	100	100	3X100				100

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D. St John ERC	0830 0925-95	GE Bechtel	0830 9-25-95
Relinquished By	GE Bechtel	1105 9-25-95	Received By	Date/Time 9/25/95 1105
Relinquished By		Date/Time	Received By	Date/Time
Relinquished By		Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9613447.0084

0000026

Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Where Response Required: N
CCN: N/A
OU: 300 FF-5
TBD: N/A
ERA: N/A
Subject Code: 3020

TO: W. S. Thompson N3-06

DATE: September 20, 1995

COPIES: J. E. Parsons X0-23
M. J. Galgoul H6-01

FROM: S. K. De Mers
Radiological Controls
T7-05/373-1913

SUBJECT: **Sampling of Wells 699-S6-E4A, E4B, and E4C and Wells 699-12-4D and 699-13-1A&B**

There is no need to perform total activities prior to offsite shipment to NRC licensed labs of samples taken from these wells.

The wells were reviewed for radiological content based on the previous sampling data. Additionally, other wells in the same local were reviewed as recent sampling data is not available for all wells. The wells listed have a β activity <100,000 pCi/l (<.1 uCi/sample based on a 1 liter sample size) and the α activity is <10,000 pCi/l (<.01 uCi/l based on a 1 liter sample). The well shows activities < 2,000 pCi/gm (< 2 nCi/gm D.O.T. limit). The highest activity in recent samples is 36,600 pCi/l $\beta(H^3)$ and 15 pCi/l α. Other wells in the vicinity showed a recent high of 86,000 pCi/l of Tritium. While this value exceeds the drinking water limit, it does not exceed the limit for DOT shipping.

None of the wells reviewed are located within radiological areas and will not require any RCT support.

skd

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/25/95 1105 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER-210

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [x] No [ ]
3. Custody Seals dated and signed? Yes [x] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [x]
5. Vermiculite/packing material is: Wet [x] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [x] _____
7. Number of sample containers in cooler: 44
8. Samples have:
   - x tape
   - x custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - x in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
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) N/A
    Request for Analysis #(s) _____
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [x]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore [signature] Date/Time 9/25/95 1105

0000028

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/25/95 1105 Client Name BHF

Project/Client # 895-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER-9

1. Condition of shipping container? O.K.
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 44
8. Samples have:
   - X tape
   - X custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
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) N/A

    Request for Analysis #(s) /

    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [X] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [X]

Printed Name/Signature Tom Gilmore [signature] Date/Time 9/25/95 1105

0000029

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 92595 1105 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) GW5015

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 25
8. Samples have:
   - X tape
   - X custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
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) N/A
    Request for Analysis #(s) /
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [X]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore [signature] Date/Time 9/25/95 1105

9613447.0089

SAMPLE RECEIPT VARIANCE REPORT
ITAS-RICHLAND LABORATORY

WORK ORDER NUMBER: _____ DATE INITIATED: 9/25/95

INITIATED BY: T Gilmore

DATE/TIME OF SAMPLE (AND/OR RFA & COC) RECEIPT: 9/25/95

CLIENT SAMPLE NUMBER	RFA/COC NUMBERS	ANALYSIS REQUESTED
BOGKN1		chem α β
BOGKN2		\

Samples were received with the following deficiencies:

- ☐ 1. Not enough sample received for proper analysis.
- ☐ 2. Sample received without proper preservative.
- ☐ 3. No sample received in container.
- ☐ 4. Sample received without a RFA/COC form.
- ☐ 5. No sample ID on container.
- ☐ 6. Sample received broken or leaking.
- ☐ 7. Holding time exceeded at receipt.
- ☐ 8. Custody tape broken.
- ☐ 9. COC not relinquished by client.
- ☑ 10. Sample information on container does not match sample information on the paper work (Explain below).
- ☐ 11. All shipping containers (coolers) on waybill not received with shipment.
  - ☐ RFA/COC received
  - ☐ RFA/COC not received
- ☐ 12. Other (Explain below).

NOTES: COC shows sample date as 9/23/95, sample shows 9/24/95. Used 9/23/95 for login.

SUPERVISOR REVIEW: _____

PROJECT MANAGER REVIEW: _____

TELEPHONED TO: _____ ON _____ BY _____

TELEFAXED TO: _____ ON _____ BY _____

SIGNED ORIGINAL MUST BE RETAINED IN WORK ORDER FILE

FORM NO. LS-023, 3/92, Rev. 0

0000031

Quanterra Environmental Services

9613447.0090

BW+WP
9-26-95
1030
2m

Work Order No.: 9417

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Richland

Date: 9-26-95 ~~0845~~

Project No: ~~55064~~ 550.104

Initiated by: Fred Mitchell

Analysis Requested: Refer to RFA/COC

RFA/COC Numbers: 43601, 43602

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: 2C Vact 4°C
   - ☐ 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:
    BOGKM9 - metals
    Richland label 50937002
12. ☐ All coolers on airbill not received with shipment.
13. ☐ Other (explain below):
    Shipping containers not rad surveyed.
    265-7335-387

Notes: BOGKM1 (50937016) Ammonia Recv with cap Busted, no sample Lost

Corrective Action:

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

☑ Client's Name: Jodie Carnes Informed ~~in writing~~ e-mail on: 9/27/95 By: alw

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

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

Sample Control Supervisor Review: (or designate) Fred Mitchell Date: 9-26-95

Project Management Review: Abby Wold Date: 9-27-95

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

0000032

9613447.0091

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

Project: 550.104

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

Client ID: BOGKM7

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/27/95

Quanterra ID : 9416-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	102	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	103	%REC			1

9613447.0092

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

Project: 550.104

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

Client ID: BOGKM7

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/27/95

Quanterra ID : 9416-001MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	126	%REC			1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	91	%REC			1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	97	%REC			1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	95	%REC			1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	90	%REC			1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	100	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	103	%REC			1

9613447.0093

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

Project: 550.104

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

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/27/95

Client ID: BOGKM7

Quanterra ID : 9416-001MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	118	%REC			1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	93	%REC			1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	95	%REC			1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	92	%REC			1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	101	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	103	%REC			1

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

Project: 550.104

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

Client ID: BOGKN8

Sample Date : 09/20/95
Receipt Date : 09/22/95
Report Date : 10/27/95

Quanterra ID : 9416-002

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	4	UG/L	BJ	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Unknown-1	TIC-32	QCBLK79432-1	10/01/95	10/01/95	8	UG/L	J		1
Unknown-2	TIC-33	QCBLK79432-1	10/01/95	10/01/95	9	UG/L	J		1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	98	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	104	%REC			1

9613447.0095

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKL9

Quanterra ID : 9417-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	101	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	100	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	102	%REC			1

9613447.0096

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

Project: 550.104

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

Client ID: BOGKM1

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-002

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	101	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	103	%REC			1

9613447.0097

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKM3

Quanterra ID : 9417-003

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	99	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	102	%REC			1

9613447.0098

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

Project: 550.104

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

Sample Date : 09/22/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKM5

Quanterra ID : 9417-004

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79432-1	10/01/95	10/01/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79432-1	10/01/95	10/01/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79432-1	10/01/95	10/01/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79432-1	10/01/95	10/01/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79432-1	10/01/95	10/01/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79432-1	10/01/95	10/01/95	102	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79432-1	10/01/95	10/01/95	104	%REC			1

9613447.0099

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

Project: 550.104

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

Client ID: BOGKM9

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-005

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	2	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	92	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	102	%REC			1

9613447.0100

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKN1

Quanterra ID : 9417-006

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	2	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	102	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	93	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	103	%REC			1

9613447.0101

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKN3

Quanterra ID : 9417-007

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	2	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	3	UG/L	BJ	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	96	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	103	%REC			1

9613447.0102

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKN9

Quanterra ID : 9417-015

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	3	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	1	UG/L	BJ	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	96	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	94	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	106	%REC			1

9613447.0103

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

Project: 550.104

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

Client ID: BOGKPO

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-016

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	93	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	102	%REC			1

9613447.0104

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

Project: 550.104

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

Client ID: BOGKP4

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-017

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	2	UG/L	BJ	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	94	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	105	%REC			1

9613447.0105

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

Project: 550.104

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

Sample Date : 09/22/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKP2

Quanterra ID : 9417-018

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	3	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	11	UG/L	BJ	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	97	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	96	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	104	%REC			1

9613447.0106

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

Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Client ID: BOGKP1

Quanterra ID : 9417-019

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79525-1	10/02/95	10/02/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79525-1	10/02/95	10/02/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79525-1	10/02/95	10/02/95	2	UG/L	BJ	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79525-1	10/02/95	10/02/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79525-1	10/02/95	10/02/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79525-1	10/02/95	10/02/95	98	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79525-1	10/02/95	10/02/95	95	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79525-1	10/02/95	10/02/95	107	%REC			1

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

Project: 550.104

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

Client ID: BOGKP5

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-020

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79604-1	10/03/95	10/03/95	2	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79604-1	10/03/95	10/03/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79604-1	10/03/95	10/03/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79604-1	10/03/95	10/03/95	2	UG/L	BJ	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79604-1	10/03/95	10/03/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79604-1	10/03/95	10/03/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79604-1	10/03/95	10/03/95	97	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79604-1	10/03/95	10/03/95	93	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79604-1	10/03/95	10/03/95	101	%REC			1

9613447.0108

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

Project: 550.104

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

Client ID: BOGKP6

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/27/95

Quanterra ID : 9417-021

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK79604-1	10/03/95	10/03/95	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK79604-1	10/03/95	10/03/95	3	UG/L	BJ	5	1
Acetone	67-64-1	QCBLK79604-1	10/03/95	10/03/95	100	UG/L	U	100	1
Carbon Disulfide	75-15-0	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloroethane	107-06-2	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
2-Butanone	78-93-3	QCBLK79604-1	10/03/95	10/03/95	100	UG/L	U	100	1
1,1,1-Trichloroethane	71-55-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
4-Methyl-2-Pentanone	108-10-1	QCBLK79604-1	10/03/95	10/03/95	50	UG/L	U	50	1
2-Hexanone	591-78-6	QCBLK79604-1	10/03/95	10/03/95	50	UG/L	U	50	1
Tetrachloroethene	127-18-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK79604-1	10/03/95	10/03/95	5	UG/L	U	5	1
Toluene-d8 (SURR)	2037-26-5	QCBLK79604-1	10/03/95	10/03/95	103	%REC			1
Bromofluorobenzene (SURR)	460-00-4	QCBLK79604-1	10/03/95	10/03/95	86	%REC			1
1,2-Dichloroethane-d4 (SURR)	17070-07-0	QCBLK79604-1	10/03/95	10/03/95	89	%REC			1

9613447.0109

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKL9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5648

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0110

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKL9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5648

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0111

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKM1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5649

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0112

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKM1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5649

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0113

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKM3

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5650

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0114

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKM3

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5650

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0115

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKM5

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5651

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0116

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKM5

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5651

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0117

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKM7

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9416-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5643

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0118

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKM7

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9416-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5643

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0119

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKM9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5493

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	2	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0120

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKM9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5493

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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9613447.0121

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKN1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-006

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5494

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	2	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0122

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKN1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-006

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5494

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0123

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKN3

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5495

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	2	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	3	BJ
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	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

9613447.0124

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKN3

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5495

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0125

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKN8

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9416-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5646

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	4	BJ
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0126

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKN8

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9416-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5646

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. Date Analyzed: 10/01/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.89	8	J
2.	UNKNOWN	21.70	9	J

9613447.0127

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKN9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5496

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	3	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	1	BJ
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	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

9613447.0128

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKN9

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5496

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0129

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP0

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-016

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5497

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0130

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP0

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-016

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5497

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0131

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-019

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5499

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	2	BJ
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	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

9613447.0132

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP1

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-019

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5499

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0133

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP2

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5492

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	3	BJ
67-64-1	Acetone	11	BJ
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

9613447.0134

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP2

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5492

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0135

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP4

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5498

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	2	BJ
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	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

9613447.0136

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP4

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5498

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/02/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0137

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP5

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-020

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5525

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/03/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	2	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	2	BJ
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	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

9613447.0138

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP5

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-020

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5525

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/03/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0139

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0GKP6

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-021

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5520

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/03/95

Column: (pack/cap) CAP Dilution Factor: 1.0

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	3	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	5	U
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	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	100	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	50	U
591-78-6	2-Hexanone	50	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

FORM I VOA 1/87 Rev.

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9613447.0140

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0GKP6

Lab Name: QUANTERRA MO Contract: 550-104

Lab Code: ITMO Case No.: V41601 SDG No.: W0730

Matrix: (soil/water) WATER Lab Sample ID: 9417-021

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: B5520

Level: (low/med) LOW Date Received: 09/25/95

% Moisture: not dec. Date Analyzed: 10/03/95

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613447.0141

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

Project: 550.104

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

Client ID: BOGKM7

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Quanterra ID : 9416-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	26.6	UG/L	B	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	51.8	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	48200	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	5.5	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	102	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	14900	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	19.0	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7390	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	21800	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	9.5	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	38.4	UG/L		20.0	1

9613447.0142

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

Project: 550.104

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

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID: BOGKM7

Quanterra ID : 9416-001MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	96	%REC			1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	94	%REC			1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	97	%REC			1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	90	%REC			1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	92	%REC			1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	94	%REC			1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	92	%REC			1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	92	%REC			1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	97	%REC			1

9613447.0143

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

Project: 550.104

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

Client ID: BOGKM7

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Quanterra ID : 9416-001MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	95	%REC			1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	96	%REC			1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	93	%REC			1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	97	%REC			1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	92	%REC			1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	93	%REC			1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	94	%REC			1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	98	%REC			1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	91	%REC			1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	92	%REC			1

9613447.0144

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

Project: 550.104

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

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID: BOGKM8

Quanterra ID : 9416-003

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	50.9	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	47500	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	25.1	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	14800	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	15.4	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7000	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	21900	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	4.0	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	21.3	UG/L		20.0	1

9613447.0145

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

Project: 550.104

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

Client ID: BOGKL9

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	46.2	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	46600	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	4.0	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	35.9	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	12800	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	77.7	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7490	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	28800	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	11.4	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	27.2	UG/L		20.0	1

9613447.0146

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

Project: 550.104

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

Client ID: BOGKM1

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-002

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	47.1	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	51500	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	5.3	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	141	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	13700	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	7.2	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7620	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	23000	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	8.2	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	172	UG/L		20.0	1

9613447.0147

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

Project: 550.104

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

Client ID: BOGKM3

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-003

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	47.1	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	44200	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	3.8	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	300	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	11900	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	3.8	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7120	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	15700	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	7.9	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	19.6	UG/L	B	20.0	1

9613447.0148

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Project: 550.104

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

Sample Date : 09/22/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKM5

Quanterra ID : 9417-004

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	60.6	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	50200	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.7	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	637	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	14400	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	111	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7020	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	3.2	UG/L	B	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	21300	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	8.3	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	34.8	UG/L		20.0	1

9613447.0149

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Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKM9

Quanterra ID : 9417-005

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	124	UG/L	B	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	67.1	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	55200	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	228	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	13500	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	139	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	7440	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	17300	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	7.2	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	38.1	UG/L		20.0	1

9613447.0150

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Project: 550.104

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

Client ID: BOGKN1

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-006

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	1610	UG/L	B	5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.9	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	4.7	UG/L	U	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	16.6	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	317	UG/L	B	5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	1.4	UG/L	U	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	1060	UG/L	U	5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	243	UG/L	B	1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	3.8	UG/L	U	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	11.0	UG/L	B	20.0	1

9613447.0151

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Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKN3

Quanterra ID : 9417-007

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	46.8	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	44000	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	3.2	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	13.0	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	304	UG/L		100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	11700	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	6.1	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	5470	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	15200	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	18.2	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	17.4	UG/L	B	20.0	1

9613447.0152

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Project: 550.104

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

Client ID: BOGKM0

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-008

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	44.9	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.60	UG/L	B	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	45800	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	3.4	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.8	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	40.7	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	12300	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	83.6	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	5810	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	27300	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	23.7	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	12.6	UG/L	B	20.0	1

9613447.0153

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Project: 550.104

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

Client ID: BOGKM2

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-009

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	28.5	UG/L	B	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	50.6	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.68	UG/L	B	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	55900	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	4.8	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.9	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	45.0	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	14800	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	8.9	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	6380	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	24300	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	26.0	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	137	UG/L		20.0	1

9613447.0154

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Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: B0GKM4

Quanterra ID : 9417-010

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	48.4	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	46100	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.8	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	35.6	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	12400	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	3.9	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	5330	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	3.2	UG/L	B	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	16100	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	19.6	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	42.9	UG/L		20.0	1

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Project: 550.104

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

Sample Date : 09/22/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKM6

Quanterra ID : 9417-011

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	56.8	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.50	UG/L	U	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	47000	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	10.4	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	52.0	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	13500	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	103	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	6370	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	19900	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	10.4	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	11.4	UG/L	B	20.0	1

9613447.0156

Quanterra-Richland
P.O. Box 1970
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Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKNO

Quanterra ID : 9417-012

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	26.4	UG/L	B	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	63.7	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.68	UG/L	B	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	53900	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.4	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	54.6	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	13000	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	129	UG/L		15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	6740	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	16400	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	18.7	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	17.5	UG/L	B	20.0	1

9613447.0157

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Project: 550.104

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

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Client ID: BOGKN2

Quanterra ID : 9417-013

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	4.4	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.67	UG/L	B	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	1760	UG/L	B	5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	2.8	UG/L	U	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	14.8	UG/L	B	25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	34.3	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	534	UG/L	B	5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	3.5	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	1060	UG/L	U	5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	379	UG/L	B	1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	12.6	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	13.9	UG/L	B	20.0	1

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Project: 550.104

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

Client ID: BOGKN4

Sample Date : 09/23/95
Receipt Date : 09/25/95
Report Date : 10/26/95

Quanterra ID : 9417-014

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Aluminum	7429-90-5	QCBLK79253-1	09/28/95	09/29/95	24.6	UG/L	U	200	1
Antimony	7440-36-0	QCBLK79253-1	09/28/95	09/29/95	45.9	UG/L	U	100	1
Barium	7440-39-3	QCBLK79253-1	09/28/95	09/29/95	47.1	UG/L	B	200	1
Beryllium	7440-41-7	QCBLK79253-1	09/28/95	09/29/95	0.83	UG/L	B	7.0	1
Cadmium	7440-43-9	QCBLK79253-1	09/28/95	09/29/95	3.1	UG/L	U	20.0	1
Calcium	7440-70-2	QCBLK79253-1	09/28/95	09/29/95	44800	UG/L		5000	1
Chromium	7440-47-3	QCBLK79253-1	09/28/95	09/29/95	3.8	UG/L	B	20.0	1
Cobalt	7440-48-4	QCBLK79253-1	09/28/95	09/29/95	4.3	UG/L	U	50.0	1
Copper	7440-50-8	QCBLK79253-1	09/28/95	09/29/95	25.6	UG/L		25.0	1
Iron	7439-89-6	QCBLK79253-1	09/28/95	09/29/95	46.0	UG/L	B	100	1
Magnesium	7439-95-4	QCBLK79253-1	09/28/95	09/29/95	11800	UG/L		5000	1
Manganese	7439-96-5	QCBLK79253-1	09/28/95	09/29/95	5.3	UG/L	B	15.0	1
Nickel	7440-02-0	QCBLK79253-1	09/28/95	09/29/95	14.2	UG/L	U	40.0	1
Potassium	7440-09-7	QCBLK79253-1	09/28/95	09/29/95	6000	UG/L		5000	1
Silver	7440-22-4	QCBLK79253-1	09/28/95	09/29/95	2.2	UG/L	U	200	1
Sodium	7440-23-5	QCBLK79253-1	09/28/95	09/29/95	15100	UG/L		1000	1
Vanadium	7440-62-2	QCBLK79253-1	09/28/95	09/29/95	28.9	UG/L	B	50.0	1
Zinc	7440-66-6	QCBLK79253-1	09/28/95	09/29/95	12.5	UG/L	B	20.0	1

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Quanterra-Richland
P.O. Box 1970
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Project: 550.104

Category: Arsenic EPA 7060
Method: EPA 7000 Series
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	3.2	UG/L	B	10.0	1
B0GKM7	9416-001MS	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	95	%REC			1
B0GKM7	9416-001MSD	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	101	%REC			1
B0GKL9	9417-001	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	4.4	UG/L	B	10.0	1
B0GKM1	9417-002	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	3.0	UG/L	B	10.0	1
B0GKM3	9417-003	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	4.2	UG/L	B	10.0	1
B0GKM5	9417-004	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	4.1	UG/L	B	10.0	1
B0GKM9	9417-005	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	1.4	UG/L	B	10.0	1
B0GKN1	9417-006	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	0.90	UG/L	U	10.0	1
B0GKN3	9417-007	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	2.6	UG/L	B	10.0	1
NA	QCLCS79359-1	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	105	%REC			1
NA	QCBLK79359-1	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	-1.6	UG/L	B	10.0	1
B0GKM8	9416-003	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	2.6	UG/L	B	10.0	1
B0GKM0	9417-008	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	2.8	UG/L	B	10.0	1
B0GKM2	9417-009	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	0.90	UG/L	U	10.0	1
B0GKM4	9417-010	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	3.0	UG/L	B	10.0	1
B0GKM6	9417-011	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	0.90	UG/L	U	10.0	1
B0GKN0	9417-012	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	0.90	UG/L	U	10.0	1
B0GKN2	9417-013	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	0.90	UG/L	U	10.0	1
B0GKN4	9417-014	Arsenic	7440-38-2	QCBLK79359-1	09/29/95	10/02/95	2.1	UG/L	B	10.0	1

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

Project: 550.104

Category: Lead EPA 7421
Method: EPA 7000 Series
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM7	9416-001MS	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	85	%REC			1
B0GKM7	9416-001MSD	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	89	%REC			1
B0GKL9	9417-001	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM1	9417-002	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM3	9417-003	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM5	9417-004	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM9	9417-005	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKN1	9417-006	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKN3	9417-007	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
NA	QCLCS79359-1	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	99	%REC			1
NA	QCBLK79359-1	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	-1.1	UG/L	B	3.0	1
B0GKM8	9416-003	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM0	9417-008	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM2	9417-009	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM4	9417-010	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKM6	9417-011	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKN0	9417-012	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKN2	9417-013	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1
B0GKN4	9417-014	Lead	7439-92-1	QCBLK79359-1	09/29/95	10/02/95	0.70	UG/L	U	3.0	1

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

Project: 550.104

Category: Selenium EPA 7740
Method: EPA 7000 Series
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGKM7	9416-001	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.5	UG/L	B	5.0	1
BOGKM7	9416-001MS	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	88	%REC			1
BOGKM7	9416-001MSD	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	96	%REC			1
BOGKL9	9417-001	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.5	UG/L	B	5.0	1
BOGKM1	9417-002	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	3.9	UG/L	B	5.0	1
BOGKM3	9417-003	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.4	UG/L	B	5.0	1
BOGKM5	9417-004	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	0.80	UG/L	U	5.0	1
BOGKM9	9417-005	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.4	UG/L	B	5.0	1
BOGKN1	9417-006	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	0.80	UG/L	U	5.0	1
BOGKN3	9417-007	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.4	UG/L	B	5.0	1
NA	QCLCS79359-1	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	104	%REC			1
NA	QCBLK79359-1	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	0.80	UG/L	U	5.0	1
BOGKM8	9416-003	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	1.3	UG/L	B	5.0	1
BOGKM0	9417-008	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	1.9	UG/L	B	5.0	1
BOGKM2	9417-009	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.7	UG/L	B	5.0	1
BOGKM4	9417-010	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	3.0	UG/L	B	5.0	1
BOGKM6	9417-011	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	1.2	UG/L	B	5.0	1
BOGKN0	9417-012	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.1	UG/L	B	5.0	1
BOGKN2	9417-013	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	0.80	UG/L	U	5.0	1
BOGKN4	9417-014	Selenium	7782-49-2	QCBLK79359-1	09/29/95	10/02/95	2.6	UG/L	B	5.0	1

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

Project: 550.104

Category: Thallium EPA 7841
Method: EPA 7841
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM7	9416-001MS	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	95	%REC			1
B0GKM7	9416-001MSD	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	101	%REC			1
B0GKL9	9417-001	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM1	9417-002	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM3	9417-003	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM5	9417-004	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM9	9417-005	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKN1	9417-006	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKN3	9417-007	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
NA	QCLCS79359-1	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	99	%REC			1
NA	QCBLK79359-1	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM8	9416-003	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM0	9417-008	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM2	9417-009	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM4	9417-010	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKM6	9417-011	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKN0	9417-012	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKN2	9417-013	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1
B0GKN4	9417-014	Thallium	7440-28-0	QCBLK79359-1	09/29/95	10/03/95	0.50	UG/L	U	10.0	1

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

~~BOGKIN0~~
BØGKNØ

Lab Name: QUANTERRA MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-012
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.4	B		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	0.90	U		F
7440-39-3	Barium	63.7	B		P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	53900			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.4	B		P
7439-89-6	Iron	54.6	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	13000			P
7439-96-5	Manganese	129			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	6740			P
7782-49-2	Selenium	2.1	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	16400			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	18.7	B		P
7440-66-6	Zinc	17.5	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKL9

Lab Name: QUANTERRA_MO
Lab Code: ITMO Case No.:
Matrix (soil/water): WATER
Level (low/med): LOW
% Solids: 0.0

Contract: 550.104
SAS No.:
SDG No.: W0730
Lab Sample ID: 9417-001
Date Received: 09/25/95

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	4.4	B		F
7440-39-3	Barium	46.2	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	46600			P
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	35.9	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	77.7			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7490			P
7782-49-2	Selenium	2.5	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	28800			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	11.4	B		P
7440-66-6	Zinc	27.2			P

Color Before:
Color After:
Clarity Before:
Clarity After:
Texture:
Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM0

Lab Name: QUANTERRA MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-008
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	2.8	B		F
7440-39-3	Barium	44.9	B		P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	45800			P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.8	B		P
7439-89-6	Iron	40.7	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	12300			P
7439-96-5	Manganese	83.6			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	5810			P
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	27300			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	23.7	B		P
7440-66-6	Zinc	12.6	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM1

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-002

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	3.0	B		F
7440-39-3	Barium	47.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	51500			P
7440-47-3	Chromium	5.3	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	141			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	13700			P
7439-96-5	Manganese	7.2	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7620			P
7782-49-2	Selenium	3.9	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	23000			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	8.2	B		P
7440-66-6	Zinc	172			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM2

Lab Name: QUANTERRA_MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-009
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28.5	B		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	0.90	U		F
7440-39-3	Barium	50.6	B		P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	55900			P
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.9	B		P
7439-89-6	Iron	45.0	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	14800			P
7439-96-5	Manganese	8.9	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	6380			P
7782-49-2	Selenium	2.7	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	24300			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	26.0	B		P
7440-66-6	Zinc	137			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM3

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-003

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	4.2	B		F
7440-39-3	Barium	47.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	44200			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	300			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	11900			P
7439-96-5	Manganese	3.8	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7120			P
7782-49-2	Selenium	2.4	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	15700			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	7.9	B		P
7440-66-6	Zinc	19.6	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM4

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-010

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	3.0	B		F
7440-39-3	Barium	48.4	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	46100			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.8	B		P
7439-89-6	Iron	35.6	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	12400			P
7439-96-5	Manganese	3.9	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	5330			P
7782-49-2	Selenium	3.0	B		F
7440-22-4	Silver	3.2	B		P
7440-23-5	Sodium	16100			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	19.6	B		P
7440-66-6	Zinc	42.9			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM5

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-004

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	4.1	B		F
7440-39-3	Barium	60.6	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	50200			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.7	B		P
7439-89-6	Iron	637			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	14400			P
7439-96-5	Manganese	111			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7020			P
7782-49-2	Selenium	0.80	U		F
7440-22-4	Silver	3.2	B		P
7440-23-5	Sodium	21300			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	8.3	B		P
7440-66-6	Zinc	34.8			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM6

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-011

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	0.90	U		F
7440-39-3	Barium	56.8	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	47000			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	10.4	B		P
7439-89-6	Iron	52.0	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	13500			P
7439-96-5	Manganese	103			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	6370			P
7782-49-2	Selenium	1.2	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	19900			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	10.4	B		P
7440-66-6	Zinc	11.4	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM7

Lab Name: QUANTERRA MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9416-001
Level (low/med): LOW Date Received: 09/22/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.6	B		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	3.2	B		F
7440-39-3	Barium	51.8	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	48200			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	5.5	B		P
7439-89-6	Iron	102			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	19.0			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7390			P
7782-49-2	Selenium	2.5	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	21800			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	9.5	B		P
7440-66-6	Zinc	38.4			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM8

Lab Name: QUANTERRA_MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9416-003
Level (low/med): LOW Date Received: 09/22/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	50.9	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	47500			P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	25.1	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	14800			P
7439-96-5	Manganese	15.4			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7000			P
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	21900			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	21.3			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKM9

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-005

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	124	B		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	1.4	B		F
7440-39-3	Barium	67.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	55200			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	228			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	13500			P
7439-96-5	Manganese	139			P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	7440			P
7782-49-2	Selenium	2.4	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	17300			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	7.2	B		P
7440-66-6	Zinc	38.1			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKN1

Lab Name: QUANTERRA_MO Contract: 550.104

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730

Matrix (soil/water): WATER Lab Sample ID: 9417-006

Level (low/med): LOW Date Received: 09/25/95

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	0.90	U		F
7440-39-3	Barium	2.8	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	1610	B		P
7440-47-3	Chromium	2.9	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	4.7	U		P
7439-89-6	Iron	16.6	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	317	B		P
7439-96-5	Manganese	1.4	U		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	1060	U		P
7782-49-2	Selenium	0.80	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	243	B		P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	3.8	U		P
7440-66-6	Zinc	11.0	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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SW-846

9613447.0176

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKN2

Lab Name: QUANTERRA_MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-013
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	0.90	U		F
7440-39-3	Barium	4.4	B		P
7440-41-7	Beryllium	0.67	B		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	1760	B		P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	14.8	B		P
7439-89-6	Iron	34.3	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	534	B		P
7439-96-5	Manganese	3.5	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	1060	U		P
7782-49-2	Selenium	0.80	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	379	B		P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	12.6	B		P
7440-66-6	Zinc	13.9	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN

SW-846

9613447.0177

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKN3

Lab Name: QUANTERRA MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-007
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	2.6	B		F
7440-39-3	Barium	46.8	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	44000			P
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	13.0	B		P
7439-89-6	Iron	304			P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	11700			P
7439-96-5	Manganese	6.1	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	5470			P
7782-49-2	Selenium	2.4	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	15200			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	18.2	B		P
7440-66-6	Zinc	17.4	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN

SW-846

9613447.0178

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0GKN4

Lab Name: QUANTERRA MO Contract: 550.104
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0730
Matrix (soil/water): WATER Lab Sample ID: 9417-014
Level (low/med): LOW Date Received: 09/25/95
% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24.6	U		P
7440-36-0	Antimony	45.9	U		P
7440-38-2	Arsenic	2.1	B		F
7440-39-3	Barium	47.1	B		P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	3.1	U		P
7440-70-2	Calcium	44800			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	4.3	U		P
7440-50-8	Copper	25.6			P
7439-89-6	Iron	46.0	B		P
7439-92-1	Lead	0.70	U		F
7439-95-4	Magnesium	11800			P
7439-96-5	Manganese	5.3	B		P
7440-02-0	Nickel	14.2	U		P
7440-09-7	Potassium	6000			P
7782-49-2	Selenium	2.6	B		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	15100			P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	28.9	B		P
7440-66-6	Zinc	12.5	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN

SW-846

9613447.0179

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

Project: 550.104

Category: Ammonia EPA 350.1
Method: EPA 7841
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM7	9416-001DUP	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM7	9416-001MS	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	68	%REC			1
B0GKL9	9417-001	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM1	9417-002	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM3	9417-003	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM5	9417-004	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
B0GKM9	9417-005	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.052	MG/L		0.050	1
B0GKN1	9417-006	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.056	MG/L		0.050	1
B0GKN3	9417-007	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
NA	QCBLK79542-1	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	0.050	MG/L	U	0.050	1
NA	QCLCS79542-1	Ammonia	7664-41-7	QCBLK79542-1	10/03/95	10/03/95	98	%REC			1

9613447.0180

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

Project: 550.104

Category: Chloride
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	14.3	MG/L		1.00	5
B0GKM7	9416-001DUP	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	14.3	MG/L		1.00	5
B0GKM7	9416-001MS	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	90	%REC			10
B0GKL9	9417-001	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	13.5	MG/L		1.00	5
B0GKM1	9417-002	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	12.5	MG/L		2.00	10
B0GKM3	9417-003	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	9.54	MG/L		2.00	10
B0GKM5	9417-004	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	12.6	MG/L		1.00	5
B0GKM9	9417-005	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	15.4	MG/L		1.00	5
B0GKN1	9417-006	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	0.20	MG/L	U	0.20	1
B0GKN3	9417-007	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	9.54	MG/L		2.00	10
NA	QCBLK79295-1	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	0.20	MG/L	U	0.20	1
NA	QCLCS79295-1	Chloride	16887-00-6	QCBLK79295-1	09/28/95	09/28/95	88	%REC			1

9613447.0181

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

Project: 550.104

Category: Fluoride
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGKM7	9416-001	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.34	MG/L		0.20	2
BOGKM7	9416-001DUP	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.31	MG/L		0.20	2
BOGKM7	9416-001MS	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	74	%REC			1
BOGKL9	9417-001	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.57	MG/L		0.10	1
BOGKM1	9417-002	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.36	MG/L		0.10	1
BOGKM3	9417-003	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.28	MG/L		0.10	1
BOGKM5	9417-004	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.35	MG/L		0.20	2
BOGKM9	9417-005	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.20	MG/L		0.10	1
BOGKN1	9417-006	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.10	MG/L	U	0.10	1
BOGKN3	9417-007	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.30	MG/L		0.10	1
NA	QCBLK79295-1	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	0.10	MG/L	U	0.10	1
NA	QCLCS79295-1	Fluoride	16984-48-8	QCBLK79295-1	09/28/95	09/28/95	96	%REC			1

9613447.0182

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

Project: 550.104

Category: Nitrate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGKM7	9416-001	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	9.81	MG/L		0.40	20
BOGKM7	9416-001DUP	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	9.84	MG/L		0.40	20
BOGKM7	9416-001MS	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	75	%REC			20
BOGKL9	9417-001	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	4.27	MG/L		0.10	5
BOGKM1	9417-002	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	5.51	MG/L		0.20	10
BOGKM3	9417-003	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	5.47	MG/L		0.20	10
BOGKM5	9417-004	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	10.8	MG/L		0.40	20
BOGKM9	9417-005	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	8.05	MG/L		0.40	20
BOGKN1	9417-006	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	0.020	MG/L	U	0.020	1
BOGKN3	9417-007	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	5.43	MG/L		0.20	10
NA	QCBLK79295-1	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	0.020	MG/L	U	0.020	1
NA	QCLCS79295-1	Nitrate-N	14797-55-8	QCBLK79295-1	09/28/95	09/28/95	98	%REC			1

9613447.0183

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

Project: 550.104

Category: Orthophosphate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGKM7	9416-001	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM7	9416-001DUP	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM7	9416-001MS	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	115	%REC			1
BOGKL9	9417-001	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM1	9417-002	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM3	9417-003	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM5	9417-004	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKM9	9417-005	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKN1	9417-006	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
BOGKN3	9417-007	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
NA	QCBLK79295-1	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
NA	QCLCS79295-1	Ortho-Phosphate	14265-44-2	QCBLK79295-1	09/28/95	09/28/95	103	%REC			1

9613447.0184

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

Project: 550.104

Category: Sulfate
Method: EPA 300.0
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0GKM7	9416-001	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	46.1	MG/L		2.50	5
B0GKM7	9416-001DUP	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	45.8	MG/L		2.50	5
B0GKM7	9416-001MS	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	90	%REC			5
B0GKL9	9417-001	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	52.0	MG/L		2.50	5
B0GKM1	9417-002	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	60.5	MG/L		5.00	10
B0GKM3	9417-003	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	42.8	MG/L		5.00	10
B0GKM5	9417-004	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	49.7	MG/L		2.50	5
B0GKM9	9417-005	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	47.5	MG/L		2.50	5
B0GKN1	9417-006	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
B0GKN3	9417-007	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	41.7	MG/L		5.00	10
NA	QCBLK79295-1	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	0.50	MG/L	U	0.50	1
NA	QCLCS79295-1	Sulfate	14808-79-8	QCBLK79295-1	09/28/95	09/28/95	100	%REC			1

9613447.0185

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

Project: 550.104

Category: Sulfide EPA 9030
Method: EPA 9030
Matrix: LIQUID

Sample Date : 09/21/95
Receipt Date : 09/22/95
Report Date : 10/26/95

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOGKM7	9416-001	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.38	MG/L	U	0.38	1
BOGKM7	9416-001DUP	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.38	MG/L	U	0.38	1
BOGKM7	9416-001MS	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	67	%REC			1
BOGKL9	9417-001	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.37	MG/L		0.37	1
BOGKM1	9417-002	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.45	MG/L		0.38	1
BOGKM3	9417-003	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.52	MG/L		0.37	1
BOGKM5	9417-004	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.39	MG/L		0.39	1
BOGKM9	9417-005	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.49	MG/L		0.38	1
BOGKN1	9417-006	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.37	MG/L	U	0.37	1
BOGKN3	9417-007	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	0.44	MG/L		0.37	1
NA	QCBLK79269-1	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	1.00	MG/L	U	1.00	1
NA	QCLCS79269-1	Sulfide	18496-25-8	QCBLK79269-1	09/28/95	09/28/95	94	%REC			1

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W0730
R

Quanterra
Environmental Services

Quanterra Incorporated
2800 George Washington Way
Richland, Washington 99352

509 375-3131 Telephone
509 375-5590 Fax

CERTIFICATE OF ANALYSIS

NOV 1995
RECEIVED
Data
Log In

Bechtel Hanford, Inc.
345 Hills
Richland, WA 99352

November 8, 1995

Attention: Joan Kessner

SAF Number	:	B95-099
Date SDG Closed	:	September 25, 1995
Number of Samples	:	Eight (8)
Sample Type	:	Water
SDG Number	:	W0730
Data Deliverable	:	Summary

I. Introduction

On September 22 and 25, 1995, a total of eight water samples were received by the Quanterra Environmental Services Richland Laboratory (QTESRL) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Bechtel Hanford, Inc. (BHI) specific IDs:

QTESRL ID	BHI ID	Matrix	Date of Receipt
50934101	B0GKM7	Water	9/22/95
50937101	B0GKL9	Water	9/25/95
50937102	B0GKM1	Water	9/25/95
50937103	B0GKM3	Water	9/25/95
50937104	B0GKM5	Water	9/25/95
50937105	B0GKM9	Water	9/25/95
50937106	B0GKN1	Water	9/25/95
50937107	B0GKN3	Water	9/25/95

II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

Quanterra
Environmental Services

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method ITAS-RD-3214
Gross Beta by method ITAS-RD-3214
Total Uranium
Total Uranium by method ITAS-RD-4200

III. Quality Control

The analytical results for each analysis performed under SDG W0730 include a minimum of one Laboratory Control Sample (LCS), one method (reagent) blank, and one duplicate. Any exceptions have been noted in the "Comments" section.

Quality control sample results are reported in the same units as sample results.

IV. Comments

The BHI Chain of Custody for sample B0GKN1 has a sample date of 9/23/95, the sample bottle has a date of 9/24/95. The date on the Chain of Custody was used for login.

Gas Proportional Counting

Gross Alpha by method ITAS-RD-3214
The LCS, batch blank, sample and sample duplicate (B0GKM7) results are within contractual requirements.

Gross Beta by method ITAS-RD-3214
The LCS, batch blank, sample and sample duplicate (B0GKL9) results are within contractual requirements.

Total Uranium

Total Uranium by method ITAS-RD-4200
The matrix spike, LCS, batch blank, sample and sample duplicate (B0GKM7) results are within contractual requirements.

Quanterra
Environmental Services

I certify that this Certificate of Analysis 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:

Suzanne Gaines
Project Manager

9613447.0189

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	**ITAS-RICHLAND**	**SDG:**	W0730
LAB SAMPLE ID:	50934101	**MATRIX:**	WATER
CLIENT ID:	B0GKM7	**DATE RECEIVED:**	9/22/95 10:45:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	5.96E+00	1.6E+00	1.8E+00	8.65E-01	pCi/L	100.00%	RD3214
BETA	2.71E+01	2.9E+00	3.5E+00	3.03E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	7.73E+00	N/A	1.7E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	ITAS-RICHLAND	**SDG:**	W0730
LAB SAMPLE ID:	50937101	**MATRIX:**	WATER
CLIENT ID:	B0GKL9	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	3.39E+00	1.3E+00	1.4E+00	1.30E+00	pCi/L	100.00%	RD3214
BETA	1.56E+01	2.4E+00	2.6E+00	3.03E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	4.79E+00	N/A	1.1E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	ITAS-RICHLAND	**SDG:**	W0730
LAB SAMPLE ID:	50937102	**MATRIX:**	WATER
CLIENT ID:	B0GKM1	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	2.45E+00	1.1E+00	1.1E+00	1.03E+00	pCi/L	100.00%	RD3214
BETA	1.63E+01	2.4E+00	2.7E+00	3.16E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	3.96E+00	N/A	8.8E-01	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	**ITAS-RICHLAND**	**SDG:**	W0730
LAB SAMPLE ID:	50937103	**MATRIX:**	WATER
CLIENT ID:	B0GKM3	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	2.97E+00	1.1E+00	1.2E+00	1.03E+00	pCi/L	100.00%	RD3214
BETA	9.40E+00	2.0E+00	2.1E+00	2.92E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	5.82E+00	N/A	1.3E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	**ITAS-RICHLAND**	**SDG:**	W0730
LAB SAMPLE ID:	50937104	**MATRIX:**	WATER
CLIENT ID:	B0GKM5	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	5.26E+00	1.6E+00	1.7E+00	1.12E+00	pCi/L	100.00%	RD3214
BETA	3.25E+01	3.1E+00	3.9E+00	3.12E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	6.20E+00	N/A	1.4E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	**ITAS-RICHLAND**	**SDG:**	W0730
LAB SAMPLE ID:	50937105	**MATRIX:**	WATER
CLIENT ID:	B0GKM9	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	5.40E+00	1.6E+00	1.7E+00	8.95E-01	pCi/L	100.00%	RD3214
BETA	1.44E+01	2.3E+00	2.5E+00	3.04E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	8.49E+00	N/A	1.9E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	ITAS-RICHLAND	**SDG:**	W0730
LAB SAMPLE ID:	50937106	**MATRIX:**	WATER
CLIENT ID:	B0GKN1	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	2.21E-01	3.0E-01	3.0E-01	5.80E-01	pCi/L	100.00%	RD3214
BETA	7.55E-01	1.3E+00	1.3E+00	2.76E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	0.00E+00	N/A	3.0E-01	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

Quanterra
Environmental Services

SAMPLE RESULTS

LAB NAME:	ITAS-RICHLAND	**SDG:**	W0730
LAB SAMPLE ID:	50937107	**MATRIX:**	WATER
CLIENT ID:	B0GKN3	**DATE RECEIVED:**	9/25/95 11:05:00 AM

ISOTOPE	RESULT	COUNTING ERROR (2 s)	TOTAL ERROR (2 s)	MDA	REPORT UNIT	YIELD	METHOD NUMBER
ALPHA	4.39E+00	1.4E+00	1.5E+00	1.08E+00	pCi/L	100.00%	RD3214
BETA	8.84E+00	2.0E+00	2.1E+00	3.15E+00	pCi/L	100.00%	RD3214
TOTAL-URANIUM	5.66E+00	N/A	1.3E+00	6.98E-01	ug/L	N/A	RD4200

Number of Results: 3

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Quanterra

Environmental Services

ITAS Data Review Checklist
RADIOCHEMISTRY

BHI - Water

Work Order No(s): 509341, 509371

Lab Sample Numbers or SDG: W0730

Method/Test/Parameter: Alpha

	Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level review (✓)
A. 1.	**Calibration** Is the calibration documentation included where applicable?	✓		✓	WFM 10/12/95 ✓
B. 1.	**Sample Analysis** Are the sample Yields within acceptance criteria?			✓	✓
2.	Were all sample holding times met?	✓		✓	WFM 10/12/95 ✓
C. 1.	**QC Samples** Is the Blank Yield within acceptance criteria?			✓	✓
2.	Is the Minimum Detectable Activity for the Blank result ≤ the Contract Detection Limit?	✓			✓
3.	Is the Blank result ≤ the Contract Detection Limit?	✓			✓
4.	Is the Blank result greater than the Contract Detection Limit but the Sample result less than the Contract Detection Limit?			✓	✓
5.	Is the LCS result within acceptance criteria?	✓			✓
6.	Is the LCS yield within acceptance criteria?			✓	✓
7.	Is the LCS Minimum Detectable Activity less than or equal to the Contract Detection Limit?	✓			✓
8.	MS/MSD results and yield meet acceptance criteria?			✓	✓
9.	Duplicate sample results and yield meet acceptance criteria?	✓			✓
D. 1.	**Other** Are all nonconformances included and noted?			✓	✓
2.	Are all required forms filled out?	✓			✓
3.	Correct methodology used?	✓			✓
4.	Transcription checked?	JM			WFM
5.	Were all calculations checked at a minimum frequency?	✓			✓
6.	Units checked?	✓			✓

Comments on any "No" response: Report all data

Analyst: W. MacKellar Date: 10/12/95

Second Level Review: Sergy Gaines Date: 10/29/95

Form No: LS-038, 3/94, Rev 2

9613447.0198

11-9-95

Quanterra

Environmental Services

ITAS Data Review Checklist
RADIOCHEMISTRY

BHI - Water

Work Order No(s): 509341, 509371

Lab Sample Numbers or SDG: W0730

Method/Test/Parameter: Beta

	Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level review (✓)
A. 1.	**Calibration** Is the calibration documentation included where applicable?	✓			✓
B. 1.	**Sample Analysis** Are the sample Yields within acceptance criteria?			✓	✓
2.	Were all sample holding times met?	✓			✓
C. 1.	**QC Samples** Is the Blank Yield within acceptance criteria?			✓	✓
2.	Is the Minimum Detectable Activity for the Blank result ≤ the Contract Detection Limit?	✓			✓
3.	Is the Blank result ≤ the Contract Detection Limit?	✓			✓
4.	Is the Blank result greater than the Contract Detection Limit but the Sample result less than the Contract Detection Limit?			✓	✓
5.	Is the LCS result within acceptance criteria?	✓			✓
6.	Is the LCS yield within acceptance criteria?			✓	✓
7.	Is the LCS Minimum Detectable Activity less than or equal to the Contract Detection Limit?	✓			✓
8.	MS/MSD results and yield meet acceptance criteria?			✓	✓
9.	Duplicate sample results and yield meet acceptance criteria?	✓			✓
D. 1.	**Other** Are all nonconformances included and noted?			✓	✓
2.	Are all required forms filled out?	✓			✓
3.	Correct methodology used?	✓			✓
4.	Transcription checked?	JM			WFM
5.	Were all calculations checked at a minimum frequency?	✓			✓
6.	Units checked?	✓			✓

Comments on any "No" response: Report all data.

Analyst: W MacKellar Date: 10/19/95

Second Level Review: Sally Jones Date: 11/8/95

Form No: LS-038, 3/94, Rev 2

9613447.0199

S

Due 10-30-95

Quanterra

Environmental Services

Data Review Checklist
RADIOCHEMISTRY

BHI

Work Order No(s): 509371 509341

Lab Sample Numbers or SDG: [illegible] 0770 [illegible] 9341

Method/Test/Parameter: Plutonium - water

	Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level review (✓)
A. 1.	**Calibration** Is the calibration documentation included where applicable?	✓			✓
B. 1.	**Sample Analysis** Are the sample Yields within acceptance criteria?			✓	✓
2.	Were all sample holding times met?	✓			✓
C. 1.	**QC Samples** Is the Blank Yield within acceptance criteria?			✓	✓
2.	Is the Minimum Detectable Activity for the Blank result ≤ the Contract Detection Limit?	✓			✓
3.	Is the Blank result ≤ the Contract Detection Limit?	✓			✓
4.	Is the Blank result greater than the Contract Detection Limit but the Sample result less than the Contract Detection Limit?			✓	✓
5.	Is the LCS result within acceptance criteria?	✓			✓
6.	Is the LCS yield within acceptance criteria?			✓	✓
7.	Is the LCS Minimum Detectable Activity less than or equal to the Contract Detection Limit?			✓	✓
8.	MS/MSD results and yield meet acceptance criteria?	✓			✓
9.	Duplicate sample results and yield meet acceptance criteria?	✓			✓
D. 1.	**Other** Are all nonconformances included and noted?			✓	✓
2.	Are all required forms filled out?	✓			✓
3.	Correct methodology used?	✓			✓
4.	Transcription checked? [illegible] 10-30-95	✓			✓
5.	Were all calculations checked at a minimum frequency?	✓			✓
6.	Units checked?	✓			✓

Comments on any "No" response:

Analyst: [signature] Date: 10-23-95

Second Level Review: [signature] Date: 11/8/95

Form No: LS-038, 3/94, Rev 2

CHAIN OF

CUSTODY FORMS

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround
☐ Priority
■ Normal

Collector: D. A. St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: GWS-015	Field Logbook No.: EFL-1019	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

SAMPLE ANALYSIS: 509340 SDL WO730

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G
No. of Container(s)	3	1	1	1	3	1	1		1
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L
	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U 509341	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl
B0GKM7 01	W	09/21/95	1330	X	X	X	X	X	X	X		
B0GKM8 02	W	09/21/95	1330									X
B06KN8 03	W	09/20/95	1210	X								

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
D. St. John	1520 09-21-95	B. Whitten	1520 9-21-95
B. Whitten	1045 9-22-95	Tom Rutherford	9/22/95 1045

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

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

0021

Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Written Response Required: NO
CCN: N/A
OU: 300 FF-2
TSD: N/A
ERA: N/A
Subject Code: 5830

TO: W. S. Thompson N3-06

COPIES: J. E. Parsons X0-23
M. J. Galgoul H6-01

DATE: September 20, 1995

FROM: S. K. De Mers
Radiological Controls
T7-05/373-1913

SUBJECT: **Sampling of Wells 699-S6-E4A, E4B, and E4C and Wells 699-12-4D and 699-13-1A&B**

There is no need to perform total activities prior to offsite shipment to NRC licensed labs of samples taken from these wells.

The wells were reviewed for radiological content based on the previous sampling data. Additionally, other wells in the same local were reviewed as recent sampling data is not available for all wells. The wells listed have a β activity <100,000 pCi/l (<.1 uCi/sample based on a 1 liter sample size) and the α activity is <10,000 pCi/l (<.01 uCi/l based on a 1 liter sample). The well shows activities < 2,000 pCi/gm (< 2 nCi/gm D.O.T. limit). The highest activity in recent samples is 36,600 pCi/l $\beta(H^3)$ and 15 pCi/l α. Other wells in the vicinity showed a recent high of 86,000 pCi/l of Tritium. While this value exceeds the drinking water limit, it does not exceed the limit for DOT shipping.

None of the wells reviewed are located within radiological areas and will not require any RCT support.

skd

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WC# 509340 509341

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/22/95 1045 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) GWS 015

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 19
8. Samples have: X tape ____ hazard labels
   X custody seals ____ appropriate sample labels
9. Samples are: X 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) N/A
    Request for Analysis #(s) —
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [X]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore Tom Gilmore Date/Time 9/22/95 1045

509340
509341

Client Sample Screening Results

22-Sep-95

(R3) 9/22/95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKJ8		9/22/95 11:05:00 AM	QUAD21A	9/22/95 2:41:42 PM	B0GKJ8	30	24	0.74	108	2.508
	LIQUID		Bkg:	9/22/95 2:26:14 AM	BKG	500	30	0.06	546	1.092

Anl Date: 9/22/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 2.13E+00	(uCi/ 9.58E-05	(pCi/ 9.58E+01	± 2.8E+01	CAT I	2.6E-01	Lab Alq L/g
Ppt mg: 1.4	Units: L	, ml	Bet;	Alq): 4.63E+00	Sa): 2.09E-04	L/g): 2.09E+02	± 3.1E+01		2.4E-01	

WHC B0GKM7		9/22/95 11:05:00 AM	QUAD21B	9/22/95 2:41:42 PM	B0GKM7	30	46	1.47533333	151	4.1613333
01-03	LIQUID		Bkg:	9/22/95 2:26:14 AM	BKG	500	29	0.058	436	0.872

Anl Date: 9/22/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 4.62E+00	(uCi/ 2.08E-04	(pCi/ 2.08E+02	± 3.4E+01	CAT I	1.2E-01	Lab Alq L/g
Ppt mg: 2.6	Units: L	, ml	Bet;	Alq): 7.20E+00	Sa): 3.24E-04	L/g): 3.24E+02	± 3.4E+01		1.5E-01	

96135947.0204

0024

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1
		Data Turnaround: ☐ Priority ■ Normal

Collector: K.D Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: EFL-1006	Method of Shipment: Hand Delivered
Shipped To: Quanterre	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.		

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
B0GKL9 01	W	9/23/95	1011	X	X	X	X	X	X	X			
B0GKM0 2	W	9/23/95	1011						509371 01			X	
B0GKN9 3	W	9/23/95		X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: D.S. John, ERC	Date/Time: 0830	Received By: ERC, B.Ashton	Date/Time: 0830, 9-25-95
Relinquished By: ERC, B.Ashton	Date/Time: 1105, 9-25-95	Received By: Quanterre	Date/Time: 9/25/95 1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SPG W0730

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

9613117.0205

0025

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1
		Data Turnaround: ☐ Priority ■ Normal

Collector: K.D. Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: EFL-1006	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.		

	Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
	Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
	No. of Container(s)	3	1	1	1	3	1	1		1	
	Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370		VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
B0GKM1 4	W	9/23/95	1345	X	X	X	X	X	X	X		X	EEC 9/23/95
B0GKM2 5	W	9/23/95	1345						509371	02		X	
B0GKPØ 6	W	9/23/95	1345	X									

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	D.St. John ERC	0830 09-25-95	ERC B.Whitten	0830 9-25-95
Relinquished By	ERC B.Whitten	1105 9-25-95	Received By Quanterra	9/25/95 1105
Relinquished By			Received By	
Relinquished By			Received By	

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9200

9613117.0206

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1
		Data Turnaround: ☐ Priority ■ Normal

Collector: K D Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: BFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.		

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 5093700	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
B0GKM3 7	W	9/23/95	1420	X	X	X	X	X	X	X			
B0GKM4 8	W	9/23/95	1420						5095871	03		X	
B0GKP4 9	W	9/23/95	1420	X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: D. St. John, David E. St. John, ERC	Date/Time: 0830 09-25-95	Received By: ER, Bechtel	Date/Time: 0830 9-25-95
Relinquished By: ER, Bechtel	Date/Time: 1105 9-25-95	Received By: Quanterra	Date/Time: 9/25/95 1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

0027

9613117.0207

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround
☐ Priority
■ Normal

Collector: David St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: GWS-015	Field Logbook No.: EFL-1019	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA

Possible Sample Hazards/Remarks

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
B0GKM5 10	W	09-22-95	1130	X	X	X	X	X	X	X			
B0GKM6 11	W	09-22-95	1130						50937104			X	
B06KP2 12	W	09-22-95	0920	X									

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
D. St. John	9/25/95 0830	ERC	0830
David St. John ERC	09-26-95	Bob Hoffman	9-25-95
ERC	1105		
Bob Hoffman	9-25-95	Quanterra	9/25/95 1105

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SPG W0730

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

0028

0028

Bechtel Hanford, Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	Page 1 of 1
		Data Turnaround: ☐ Priority ■ Normal

Collector: K.D. Lee	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-210	Field Logbook No.: FFL-1006 & FFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		

	Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
	Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
	No. of Container(s)	3	1	1	1	3	1	1		1	
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.	Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370		VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled										
B0GKM9 13	W	9/23/95	~~1545~~ 1450	X	X	X	X	X	X	X			
B0GKN0 14	W	9/23/95	~~1545~~ 1450						509371	05		X	
B0GKP1 15		9/23/95	~~1545~~ 1450	X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: D. St. John / David St John ERC	Date/Time: 0830 09-25-95	Received By: GRC / Bwhitten	Date/Time: 0830 9-25-95
Relinquished By: GRC / Bwhitten	Date/Time: 1105 9-25-95	Received By: Tom Gunther	Date/Time: 9/25/95 1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG 40730

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

0029

9613147.0208

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround
☐ Priority
■ Normal

Collector: K. Lee / D. St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: EFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		
Special Handling and/or Storage: Maintain samples between 2°C and 6°C.		

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	

Sample No.	Matrix*	Date Sampled	Time Sampled	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
B0GKN1 16	W	9/23/95	1210	X	X	X	X	X	X	X			
B0GKN2 17	W	9/23/95	1210						509371	06		X	
B0GKP5 18	W	9/23/95	1130	X									

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By: D St John / ERC	Date/Time: 0830 09-25-95	Received By: ERC / Bechtel	Date/Time: 0830 9-25-95
Relinquished By: ERC / Bechtel	Date/Time: 1105 9-25-95	Received By: Quanterra	Date/Time: 9/26/95 1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

SPECIAL INSTRUCTIONS
*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

0030

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround
☐ Priority
■ Normal

Collector: K. Lee / D. St. John	Company Contact: M. J. Galgoul	Telephone: (509) 372-9597
Project Designation: 300-FF-2 618-10 and 618-11 Burial Ground Wells	Sampling Location: 618-10 and 618-11 Burial Grounds	SAF No.: B95-099
Ice Chest No.: ER-9	Field Logbook No.: EFL-1123	Method of Shipment: Hand Delivered
Shipped To: Quanterra	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA
Possible Sample Hazards/Remarks		

Special Handling and/or Storage: Maintain samples between 2°C and 6°C.

Preservation	HCl	HNO_3	Cool 4°C	H_2SO_4	*1	HNO_3	None		HNO_3	
Type of Container	Gs	P/G	P/G	P/G	P	P/G	P/G		P/G	
No. of Container(s)	3	1	1	1	3	1	1		1	
Volume	40mL	1L	500mL	500mL	500mL	1L	20mL		1L	
SAMPLE ANALYSIS 509370	VOA - TCL	ICP Metals (unfiltered) - TAL, GFAA Metals - As, Pb, Se, Tl	Anions (IC) - F, Cl, SO_4, NO_3, PO_4	Ammonia	Sulfide	Gross Alpha, Gross Beta, Total U	Activity Scan		ICP Metals (filtered) - TAL, GFAA Metals - As, Pb, Se, Tl	
Sample No. / **Matrix*** / **Date Sampled** / **Time Sampled**										
B0GKN3 19	W	9/23/95	1420	X	X	X	X	X	X	X
B0GKN4 20	W	9/23/95	1420						509371 07	X
B0GKP6 21	W	9/23/95	1420	X						

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
D. St. John / David St. John ERC	0830 / 09-25-95	ERC / Bill Whitten BWHHW	0830 / 9-25-95
ERC / Bill Whitten BWHHW	1105 / 9-25-95	Bill Whitten BWHHW	9/25/95 1105

SPECIAL INSTRUCTIONS

*1 ZnAc + NaOH

Sample analysis for nitrate and phosphate by EPA 300.0 is being requested for information only. The ERC Contractor acknowledges that the 48-hour holding time will not be met.

SDG W0730

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

9515947.0211

0031

Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Witness Signature Required: NO
CCN: N/A
OU: 300 FF-5
TSD: N/A
ERA: N/A
Subject Code: 3830

TO: W. S. Thompson N3-06

DATE: September 20, 1995

COPIES: J. E. Parsons X0-23
M. J. Galgoul H6-01

FROM: S. K. De Mers
Radiological Controls
T7-05/373-1913

SUBJECT: **Sampling of Wells 699-S6-E4A, E4B, and E4C and Wells 699-12-4D and 699-13-1A&B**

There is no need to perform total activities prior to offsite shipment to NRC licensed labs of samples taken from these wells.

The wells were reviewed for radiological content based on the previous sampling data. Additionally, other wells in the same local were reviewed as recent sampling data is not available for all wells. The wells listed have a β activity <100,000 pCi/l (<.1 uCi/sample based on a 1 liter sample size) and the α activity is <10,000 pCi/l (<.01 uCi/l based on a 1 liter sample). The well shows activities < 2,000 pCi/gm (< 2 nCi/gm D.O.T. limit). The highest activity in recent samples is 36,600 pCi/l $\beta(H^3)$ and 15 pCi/l α. Other wells in the vicinity showed a recent high of 86,000 pCi/l of Tritium. While this value exceeds the drinking water limit, it does not exceed the limit for DOT shipping.

None of the wells reviewed are located within radiological areas and will not require any RCT support.

skd

9613447.0213

SAMPLE RECEIPT VARIANCE REPORT
ITAS-RICHLAND LABORATORY

WORK ORDER NUMBER: 5-09-370 + 371 (06) DATE INITIATED: 9/25/95

INITIATED BY: TGilmore

DATE/TIME OF SAMPLE (AND/OR RFA & COC) RECEIPT: 9/25/95

	CLIENT SAMPLE NUMBER	RFA/COC NUMBERS	ANALYSIS REQUESTED
16	BOGKN1	Uha	chem αβ u
17	BOGKN2		1

Samples were received with the following deficiencies:

- ☐ 1. Not enough sample received for proper analysis.
- ☐ 2. Sample received without proper preservative.
- ☐ 3. No sample received in container.
- ☐ 4. Sample received without a RFA/COC form.
- ☐ 5. No sample ID on container.
- ☐ 6. Sample received broken or leaking.
- ☐ 7. Holding time exceeded at receipt.
- ☐ 8. Custody tape broken.
- ☐ 9. COC not relinquished by client.
- ☑ 10. Sample information on container does not match sample information on the paper work (Explain below).
- ☐ 11. All shipping containers (coolers) on waybill not received with shipment.
  - ☐ RFA/COC received
  - ☐ RFA/COC not received
- ☐ 12. Other (Explain below).

NOTES: COC shows sample date as 9/23/95, sample shows 9/24/95. Used 9/23/95 for login. NO sample time on COC for BOGKN9 used 10:11.

SUPERVISOR REVIEW: Tami Heidelberg

PROJECT MANAGER REVIEW: Suzy Jones

TELEPHONED TO: _____ ON _____ BY _____

TELEFAXED TO: _____ ON _____ BY _____

SIGNED ORIGINAL MUST BE RETAINED IN WORK ORDER FILE

FORM NO. LS-023, 3/92, Rev. 0

9613447.0214

SDG
W0730
WO#
509370
509371

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/25/95 1105 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER-210

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [x] No [ ]
3. Custody Seals dated and signed? Yes [x] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [x]
5. Vermiculite/packing material is: Wet [x] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [x] _____
7. Number of sample containers in cooler: 44
8. Samples have:
   - x tape
   - x custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - x in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
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) N/A
    Request for Analysis #(s) _____
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [x]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore Tom G Date/Time 9/25/95 1105

0034

9613447.0215

SDL
W0730
WO#
509370
509371

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9/25/95 1105 Client Name BHF

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER-9

1. Condition of shipping container? O.K.
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 44
8. Samples have: X tape ____ hazard labels
   X custody seals ____ appropriate sample labels
9. Samples are: X 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) N/A
    Request for Analysis #(s) /
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [X] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [X]

Printed Name/Signature Tom Gilmore [signature] Date/Time 9/25/95 1105

9613442.0216
SDG-W0730

WO# 509370 509371

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 9-25-95 1105 Client Name BHI

Project/Client # B95-099 Batch or Case # _____

Cooler ID (if noted on outside of cooler) GW5015

1. Condition of shipping container? ok
2. Custody Seals on cooler intact? Yes [X] No [ ]
3. Custody Seals dated and signed? Yes [X] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [X]
5. Vermiculite/packing material is: Wet [X] Dry [ ] _____
6. Each sample is in a plastic bag? Yes [ ] No [X] _____
7. Number of sample containers in cooler: 25
8. Samples have:
   - X tape
   - X custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
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) N/A
    Request for Analysis #(s) /
    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [X]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Tom Gilmore [signature] Date/Time 9/25/95 1105

509370-Chem
509371- Rad.

(R3) 9/25/95

Client Sample Screening Results

25-Sep-95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0FK22		9/25/95 10:00:00 AM	QUAD21B	9/25/95 2:56:50 PM	B0FK22	30	5	0.09416667	31	0.0833333
	LIQUID		Bkg:	9/23/95 4:14:29 AM	BKG	800	58	0.0725	760	0.95

Anl Date: 9/25/95	Tot Sa, Alq: 5.00E-01	, 1.00E+01	Alp;	(Dpm/ 2.93E-01	(uCi/ 6.60E-06	(pCi/ 1.32E+01	± 2.1E+01	CAT	1.9E+00	Lab
Ppt mg: 0.5	Units: L	, ml	Bet;	Alq): 1.03E-01	Sa): 2.33E-06	Lig): 4.65E+00	± 1.7E+01	I	1.1E+01	Alq Lig

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKJ9		9/25/95 10:00:00 AM	QUAD21C	9/25/95 2:56:50 PM	B0GKJ9	30	11	0.31041667	88	1.8133333
	LIQUID		Bkg:	9/23/95 4:14:29 AM	BKG	800	45	0.05625	896	1.12

Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 8.59E-01	(uCi/ 3.87E-05	(pCi/ 3.87E+01	± 2.4E+01	CAT	6.5E-01	Lab
Ppt mg: 1	Units: L	, ml	Bet;	Alq): 3.38E+00	Sa): 1.52E-04	Lig): 1.52E+02	± 2.7E+01	I	3.3E-01	Alq Lig

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKL9 (1)		9/25/95 10:00:00 AM	QUAD21D	9/25/95 2:56:50 PM	B0GKL9	30	13	0.37458333	74	1.4029167
1-3	LIQUID		Bkg:	9/23/95 4:14:29 AM	BKG	800	47	0.05875	851	1.06375

Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 1.15E+00	(uCi/ 5.19E-05	(pCi/ 5.19E+01	± 2.6E+01	CAT	4.8E-01	Lab
Ppt mg: 3.1	Units: L	, ml	Bet;	Alq): 2.56E+00	Sa): 1.15E-04	Lig): 1.15E+02	± 2.5E+01	I	4.3E-01	Alq Lig

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKM1 (2)		9/25/95 10:00:00 AM	QUAD22A	9/25/95 2:56:54 PM	B0GKM1	30	16	0.46583333	87	1.76
4-6	LIQUID		Bkg:	9/23/95 4:14:39 AM	BKG	800	54	0.0675	912	1.14

Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 1.34E+00	(uCi/ 6.02E-05	(pCi/ 6.02E+01	± 2.5E+01	CAT	4.2E-01	Lab
Ppt mg: 2.9	Units: L	, ml	Bet;	Alq): 3.01E+00	Sa): 1.36E-04	Lig): 1.36E+02	± 2.6E+01	I	3.7E-01	Alq Lig

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKM3 (3)		9/25/95 10:00:00 AM	QUAD22B	9/25/95 2:56:54 PM	B0GKM3	30	18	0.54125	72	1.395
7-9	LIQUID		Bkg:	9/23/95 4:14:39 AM	BKG	800	47	0.05875	804	1.005

Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp;	(Dpm/ 1.64E+00	(uCi/ 7.41E-05	(pCi/ 7.41E+01	± 2.6E+01	CAT	3.4E-01	Lab
Ppt mg: 2.4	Units: L	, ml	Bet;	Alq): 2.33E+00	Sa): 1.05E-04	Lig): 1.05E+02	± 2.4E+01	I	4.8E-01	Alq Lig

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(3) 11/24/95

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0GKM5	(4)	9/25/95 10:00:00 AM	QUAD22C	9/25/95 2:56:54 PM	B0GKM5	30	34	1.07333333	150	3.9275
10-12	LIQUID		Bkg:	9/23/95 4:14:39 AM	BKG	800	48	0.06	858	1.0725
Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp; (Dpm/ 3.16E+00	(uCi/ 1.42E-04	(pCi/ 1.42E+02	± 3.0E+01	CAT I	1.8E-01	Lab Alq Lig	
Ppt mg: 3.2	Units: L	, ml	Bet; Alq): 6.71E+00	Sa): 3.02E-04	Lig): 3.02E+02	± 3.3E+01		1.7E-01		
WHC B0GKM9	(5)	9/25/95 10:00:00 AM	QUAD22D	9/25/95 2:56:54 PM	B0GKM9	30	16	0.47083333	79	1.6670833
13-15	LIQUID		Bkg:	9/23/95 4:14:39 AM	BKG	800	50	0.0625	773	0.96625
Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp; (Dpm/ 1.41E+00	(uCi/ 6.36E-05	(pCi/ 6.36E+01	± 2.5E+01	CAT I	3.9E-01	Lab Alq Lig	
Ppt mg: 3.5	Units: L	, ml	Bet; Alq): 2.88E+00	Sa): 1.30E-04	Lig): 1.30E+02	± 2.5E+01		3.9E-01		
WHC B0GKN1	(6)	9/25/95 10:00:00 AM	QUAD23A	9/25/95 2:56:58 PM	B0GKN1	30	4	0.08333333	36	0.1975
16-18	LIQUID		Bkg:	9/23/95 4:14:48 AM	BKG	800	40	0.05	802	1.0025
Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp; (Dpm/ 2.34E-01	(uCi/ 1.05E-05	(pCi/ 1.05E+01	± 1.9E+01	CAT I	2.4E+00	Lab Alq Lig	
Ppt mg: 0.3	Units: L	, ml	Bet; Alq): 3.23E-01	Sa): 1.45E-05	Lig): 1.45E+01	± 1.7E+01		3.4E+00		
WHC B0GKN3	(7)	9/25/95 10:00:00 AM	QUAD23B	9/25/95 2:56:58 PM	B0GKN3	30	22	0.67708333	86	1.8979167
19-21	LIQUID		Bkg:	9/23/95 4:14:48 AM	BKG	800	45	0.05625	775	0.96875
Anl Date: 9/25/95	Tot Sa, Alq: 1.00E+00	, 1.00E+01	Alp; (Dpm/ 2.07E+00	(uCi/ 9.30E-05	(pCi/ 9.30E+01	± 2.7E+01	CAT I	2.7E-01	Lab Alq Lig	
Ppt mg: 2.9	Units: L	, ml	Bet; Alq): 3.20E+00	Sa): 1.44E-04	Lig): 1.44E+02	± 2.6E+01		3.5E-01		
WHC B0GKW6		9/25/95 10:00:00 AM	QUAD23C	9/25/95 2:56:58 PM	B0GKW6	30	16	0.48083333	77	1.5766667
	LIQUID		Bkg:	9/23/95 4:14:48 AM	BKG	800	42	0.0525	792	0.99
Anl Date: 9/25/95	Tot Sa, Alq: 5.00E-01	, 1.00E+01	Alp; (Dpm/ 1.43E+00	(uCi/ 3.23E-05	(pCi/ 6.45E+01	± 2.5E+01	CAT I	3.9E-01	Lab Alq Lig	
Ppt mg: 4.5	Units: L	, ml	Bet; Alq): 2.79E+00	Sa): 6.28E-05	Lig): 1.26E+02	± 2.5E+01		4.0E-01		
WHC B0GKW7		9/25/95 10:00:00 AM	QUAD23D	9/25/95 2:56:58 PM	B0GKW7	30	13	0.38208333	74	1.6204167
	LIQUID		Bkg:	9/23/95 4:14:48 AM	BKG	800	41	0.05125	677	0.84625
Anl Date: 9/25/95	Tot Sa, Alq: 5.00E-01	, 1.00E+01	Alp; (Dpm/ 1.16E+00	(uCi/ 2.61E-05	(pCi/ 5.23E+01	± 2.3E+01	CAT I	4.8E-01	Lab Alq Lig	
Ppt mg: 4.4	Units: L	, ml	Bet; Alq): 2.87E+00	Sa): 6.47E-05	Lig): 1.29E+02	± 2.4E+01		3.9E-01		

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*** ALPHA ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

22-Sep-1995
Page 1

CUSTOMER: BHI SAF SAMPLE DELIVERY GROUP W0730

MATRIX : WATER B95-099 BATCH NUMBER 09-341

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	M093411B		BHI		
*)	M093411S		BHI	EQEG 860	
3)	50934101		BHI	BOGKM7	
	G0934101		Dup		

ACTIONS (Initial & Date)

1) INITIATED AH 9/22/95

2) PREP LAB RECEIVED 10-4-95 S

3) SAMPLE REMAINDER STORED 10-10-95 S

4) SEPARATION LAB RECEIVED n/a

5) COUNTING/MEASUREMENT LAB

6) DATA REVIEWED AND ANALYTICAL PREP STORED

9613447.0220 *** ALPHA ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

26-Sep-1995
Page 1

CUSTOMER: BHI SAF

SAMPLE DELIVERY GROUP W0730

MATRIX : WATER B95-099

BATCH NUMBER 09-371

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	~~M093711B~~		~~BHI~~	10-9-95	
*)	~~M093711S~~		~~BHI~~	10-9-95	
3)	50937101		BHI	BOGKL9	
4)	50937102		BHI	BOGKM1	
5)	50937103		BHI	BOGKM3	
6)	50937104		BHI	BOGKM5	
7)	50937105		BHI	BOGKM9	
8)	50937106		BHI	BOGKN1	
9)	50937107		BHI	BOGKN3	

ACTIONS (Initial & Date)

1) INITIATED JH 9/26/95

2) PREP LAB RECEIVED 10-4-95

3) SAMPLE REMAINDER STORED 10-10-95

4) SEPARATION LAB RECEIVED N/A

5) COUNTING/MEASUREMENT LAB

6) DATA REVIEWED AND ANALYTICAL PREP STORED

9613447.0221

*** BETA ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

22-Sep-1995
Page 1

CUSTOMER: BHI SAF

SAMPLE DELIVERY GROUP WO730

MATRIX : WATER B95-099

BATCH NUMBER 09-341

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	M093411B		BHI		
*)	M093411S		BHI	EQAH 2758	
3)	50934101		BHI	BOGKM7	

ACTIONS (Initial & Date)

1) INITIATED JH 9/22/95

2) PREP LAB RECEIVED 10-4-95 S

3) SAMPLE REMAINDER STORED 10-10-95 S

4) SEPARATION LAB RECEIVED n/a

5) COUNTING/MEASUREMENT LAB

6) DATA REVIEWED AND ANALYTICAL PREP STORED

9613447.0222 *** BETA ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

26-Sep-1995
Page 1

SAF
B95-099

CUSTOMER: BHI

SAMPLE DELIVERY GROUP W0730

MATRIX : WATER

BATCH NUMBER 09-371

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	~~M0937118~~		~~BHI~~		10-1-95
*)	~~M0937115~~		~~BHI~~		10-1-95
3)	50937101		BHI	BOGKL9	
	G0937101		Dup		
4)	50937102		BHI	BOGKM1	
5)	50937103		BHI	BOGKM3	
6)	50937104		BHI	BOGKM5	
7)	50937105		BHI	BOGKM9	
8)	50937106		BHI	BOGKN1	
9)	50937107		BHI	BOGKN3	

ACTIONS (Initial & Date)

1) INITIATED JH 9/26/95

2) PREP LAB RECEIVED 10-4-95

3) SAMPLE REMAINDER STORED 10-10-95

4) SEPARATION LAB RECEIVED n/a

5) COUNTING/MEASUREMENT LAB

6) DATA REVIEWED AND ANALYTICAL PREP STORED

9613447.0223

*** URANIUM ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

22-Sep-1995
Page 1

CUSTOMER: BHI SAF

SAMPLE DELIVERY GROUP W0730

MATRIX : WATER B95-099

BATCH NUMBER 09-341

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	M093411B		BHI		
*)	M093411S		BHI		
3)	50934101		BHI	BOGKM7	
	G0934101		Dup		

ACTIONS (Initial & Date)

1) INITIATED JH 9/22/95

2) PREP LAB RECEIVED 10-4-95

3) SAMPLE REMAINDER STORED 10-5-95

4) SEPARATION LAB RECEIVED N/A

5) COUNTING/MEASUREMENT LAB 10/13/95 WJ

6) DATA REVIEWED AND ANALYTICAL PREP STORED

9613447.0229 *** URANIUM ***

CHAIN-OF-CUSTODY BATCH ANALYSIS RECORD

26-Sep-1995
Page 1

CUSTOMER: BHI SAF

SAMPLE DELIVERY GROUP W0730

MATRIX : WATER B95-099

BATCH NUMBER 09-371

	ITAS ID	DUP	ACCOUNT	CUSTOMER ID	COMMENTS
*)	~~M093711B~~		~~BHI~~		10-5-95
*)	~~M093711S~~		~~BHI~~		10-5-95
3)	50937101 H093710 1		BHI m.s.	BOGKL9	
4)	50937102		BHI	BOGKM1	
5)	50937103		BHI	BOGKM3	
6)	50937104		BHI	BOGKM5	
7)	50937105		BHI	BOGKM9	
8)	50937106		BHI	BOGKN1	
9)	50937107		BHI	BOGKN3	

ACTIONS (Initial & Date)

1) INITIATED 9/26/95

2) PREP LAB RECEIVED 10-4-95

3) SAMPLE REMAINDER STORED 10-5-95

4) SEPARATION LAB RECEIVED N/A

5) COUNTING/MEASUREMENT LAB 10/13/95

6) DATA REVIEWED AND ANALYTICAL PREP STORED