W03119-STL

0053283

Quanterra
Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

CASE NARRATIVE

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

April 21, 2000

Attention: Joan Kessner

APR 2000 RECEIVED Data Log In

Project Number	:	33548
SAF	:	B99-018
SDG	:	W03119
Number of Samples	:	one (1)
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	March 9, 2000

II. Introduction

On March 9, 2000, one (1) "water" sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. The samples were received within temperature criteria. See the attached Sample Summary sheet for the client and lab Ids for these samples.

III. 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:

pH – 150.1
Sulfate – 375.4
TDS – 160.1
TSS – 160.2
Arsenic – 7060 (GFAA)
ICP Metals – 6010 TAL
Chlorine (Total Residual) – 330.3
Acrylamide – 8316
VOA – 8240 (Appen IX)
VOA – 8260A (TCL)

RECEIVED JUN 26 2000 EDMC

Deviation from Request: There were no deviations.

Quanterra

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
MS- Matrix Spike.
DUP- Matrix Duplicate
MSD- Matrix Spike Duplicate.

V. Comments

General: The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Please refer to the attached cross-reference table for the standard preparation methods used at Quanterra, St. Louis.

VOA: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with the 8260 or 8240 Volatiles data.

Acrylamide: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

There were no comments or non-conformances associated with this data.

Metals: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

The Arsenic analysis was done without a bench spike. The matrix spike and matrix spike duplicate recoveries were within QC criteria. A non-conformance memo (F00250) was generated to document this issue.

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Bechtel Hanford Incorporated
April 21, 2000
Project Number: 33548
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Page 3

Wet Chemistry: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Duplicate were analyzed with the Sulfate preparation batch per the protocol for this analysis. A duplicate was analyzed as QC for the pH, TSS, TDS and Residual Chlorine analyses.

There were no comments or non-conformances associated with the Wet Chemistry data.

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:

Marti Ward
St. Louis Project Manager

Clouseau Nonconformance Memo

SEVERN TRENT SERVICES

NCM #:	F00250	Classification:	Deficiency
NCM Initiated By:	Kao, Ed	Status:	QAREVIEW
Date Opened:	04/20/00	Production Area:	Metals
Date Closed:	N/A	Tests:	7060
		Lot #'s (Sample #'s):	F0C100241 (1); F0C230200 (1); F0C300194 (1,2)
		QC Batch:	0094167
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Kao, Ed	04/20/00	The analytical spiked was not performed. However, the matrix spikes were within acceptable criteria indicating no presence of matrix interferences.

Corrective Action

Name	Date	Corrective Action

Client Notification Summary

Client	Project Manager	Date Notified	Response Date	How Notified
WASTE MANGMNT FEDERAL S	Ward, Marti	04/21/00	04/21/00	by narrative
	Response	Response Details		
	Process "as-is"			
PACIFIC NORTHWEST NATION	Ward, Marti	04/21/00	04/21/00	by narrative
	Response	Response Details		
	Process "as-is"			
BECHTEL HANFORD, INC.	Ward, Marti	04/21/00	04/21/00	by narrative
	Response	Response Details		
	Process "as-is"			

Approval History

Name	Date Approved:	Position
Kao, Ed	04/20/00	Group Leader
Martino, Ron	04/21/00	Project Manager
Ward, Marti	04/21/00	Project Manager

Date Printed: 04/21/00

SAMPLE SUMMARY

F0C100241

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D9H8W	001	B0XPD1	03/08/00	10:08

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

F0C100241

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH (Electrometric)	MCAWW 150.1	MCAWW 150.1
Acrylamide, Acrylonitrile and Acrolein by HPLC	SWDFT 8316	
Arsenic (AA, Furnace Technique)	SW846 7060	SW846 7060
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Residual Chlorine 330.3	MCAWW 330.3	
Sulfate	MCAWW 375.4	MCAWW 375.4
Volatile Organics by GC/MS	SW846 8240A	SW846 8240A
Volatile Organics by GC/MS	SW846 8260A	SW846 5030/8260

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SWDFT "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Draft Methods.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PSL20300 QUANTERRA INCORPORATED Run Date: 3/10/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 15:38:49
Quanterra - St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0C100241-001
PROJECT #: PERMIT MONITOR WORK ORDER: D9H8W
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 3/08/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 3/08/00
SITE: B99-018 ANALYTICAL DUE DATE: 4/06/00N
AMOUNT REC"D: 20ML,9X40,125,250,4X500,L REPORT DUE DATE: 4/24/00
STORAGE LOC: V1H,R1B PRIORITY: 29
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:08
MATRIX: WATER RECEIVING TIME: 11:50
SAMPLE ID: B0XPD1
QC PACKAGE: Special Report - see checklist SDG# : ~~PENDING~~
SAMPLE COMMENTS: W03119
RUN A DUPLICATE ON PH,TDS,TSS,CHLORINE. SULfate
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) D9H8W-1-01 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	3/10/00	0/00/00	3/22/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) D9H8W-1-04 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
pH - Aqueous (150.1)	06	3/10/00	0/00/00	3/10/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AJ-01) D9H8W-1-24 Protocol: A QC Program: STANDARD TEST SET				
Solids, Filterable "TDS" (160.1)	06	3/10/00	0/00/00	3/15/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AK-01) D9H8W-1-27 Protocol: A QC Program: STANDARD TEST SET				
Chlorine, Residual (330.3)	06	3/10/00	0/00/00	3/09/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-RD-01) D9H8W-1-2A Protocol: A QC Program: STANDARD TEST SET				
Sulfate 375.4)	06	3/10/00	0/00/00	4/05/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-UV-01) D9H8W-1-2E Protocol: A QC Program: STANDARD TEST SET				

PSL20300 QUANTERRA INCORPORATED Run Date: 3/10/00
Page 2 CLIENT ANALYSIS SUMMARY Time: 15:38:49
Quanterra - St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0C100241-001
PROJECT #: PERMIT MONITOR WORK ORDER: D9H8W
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 3/08/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 3/08/00
SITE: B99-018 ANALYTICAL DUE DATE: 4/06/00N
AMOUNT REC"D: 20ML,9X40,125,250,4X500,L REPORT DUE DATE: 4/24/00
STORAGE LOC: V1H,R1B PRIORITY: 29
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:08
MATRIX: WATER RECEIVING TIME: 11:50
SAMPLE ID: B0XPD1
QC PACKAGE: Special Report - see checklist SDG# : PENDING
SAMPLE COMMENTS:
RUN A DUPLICATE ON PH,TDS,TSS,CHLORINE.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Solids, Total Suspended "TSS" (160.2)	06	3/10/00	0/00/00	3/15/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-AL-01) D9H8W-1-2H Protocol: A QC Program: STANDARD TEST SET				
Volatile Organics, GC/MS (8240)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-PB-5I) D9H8W-1-2L Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 QUANTERRA INCORPORATED Run Date: 3/10/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 15:38:49
Quanterra - St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0C100241-001-D
PROJECT #: PERMIT MONITOR WORK ORDER: D9H8W MSD
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 3/08/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 3/08/00
SITE: B99-018 ANALYTICAL DUE DATE: 4/06/00N
AMOUNT REC"D: 20ML,9X40,125,250,4X500,L REPORT DUE DATE: 4/24/00
STORAGE LOC: V1H,R1B PRIORITY: 29
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:08
MATRIX: WATER RECEIVING TIME: 11:50
SAMPLE ID: B0XPD1
QC PACKAGE: Special Report - see checklist SDG# : PENDING
SAMPLE COMMENTS:
RUN A DUPLICATE ON PH,TDS,TSS,CHLORINE.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) D9H8W-1-03 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	3/10/00	0/00/00	3/22/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) D9H8W-1-06 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
Volatile Organics, GC/MS (8240)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-FB-5I) D9H8W-1-2N Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 QUANTERRA INCORPORATED Run Date: 3/10/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 15:38:49
Quanterra - St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 33548
PROJECT MANAGER: MARTI WARD LAB ID: F-0C100241-001-S
PROJECT #: PERMIT MONITOR WORK ORDER: D9H8W MS
REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 3/08/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 3/08/00
SITE: B99-018 ANALYTICAL DUE DATE: 4/06/00N
AMOUNT REC"D: 20ML,9X40,125,250,4X500,L REPORT DUE DATE: 4/24/00
STORAGE LOC: V1H,R1B PRIORITY: 29
LOT COMMENTS: Hanford EDD and Package Format required SAMPLING TIME: 10:08
MATRIX: WATER RECEIVING TIME: 11:50
SAMPLE ID: B0XPD1
QC PACKAGE: Special Report - see checklist SDG# : PENDING
SAMPLE COMMENTS:
RUN A DUPLICATE ON PH,TDS,TSS,CHLORINE.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260A)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: SW-846 8260A				
(I-15-MZ-01) D9H8W-1-02 Protocol: A QC Program: STANDARD TEST SET				
Acrylamide, Acrylonitrile, Acrolein (831	06	3/10/00	0/00/00	3/22/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
STL: Acrylamide by HPLC				
(I-88-A9-01) D9H8W-1-05 Protocol: A QC Program: STANDARD TEST SET				
Arsenic (7060, Furnace)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M7060_L AS				
(I-05-DT-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
Inductively Coupled Plasma (6010B)	06	3/10/00	0/00/00	9/04/00
METALS, TOTAL - Waters				
M6010_L AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,VX,ZN				
(I-05-QO-01) D9H8W Protocol: A QC Program: STANDARD TEST SET				
Sulfate 375.4)	06	3/10/00	0/00/00	4/05/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-UV-01) D9H8W-1-2F Protocol: A QC Program: STANDARD TEST SET				
Volatile Organics, GC/MS (8240)	06	3/10/00	0/00/00	3/22/00
PURGE AND TRAP - 5 mL purge				
STL: HANFORD 8240APPIX VOA GC/MS LIST				
(I-15-FB-5I) D9H8W-1-2M Protocol: A QC Program: CLIENT: HANFORD				

LOT #F0C100241

STL St. Louis

Temp 2° CM 000123

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-018-34	Page 1 of 2

Collector: gale, sj	Company Contact: Dorman Blankenship	Telephone No.: 373-5456	Project Coordinator: TRENT, SJ
Project Designation: 183N Backwash Discharge Pond -- Permit Monitoring	Sampling Location: 183-N		SAF No.: B99-018
Ice Chest No.: ERC 99-054	Field Logbook No.: EL-1424	COA: 77BK27YA40	Method of Shipment: Federal Express
Shipped To: Quanterra Incorporated	Offsite Property No.: A000114		Bill of Lading/Air Bill No.: 4235 7953 4343

Price Code: 7N — Air Quality: – — Data Turnaround: 45 Days

POSSIBLE SAMPLE HAZARDS/REMARKS: NONE

Special Handling and/or Storage

W03119

SAMPLE ANALYSIS

Preservation	None	None	Cool 4C	Cool 4C	Cool 4C	HNO3 to pH <2	HNO3 to pH <2	None	Cool 4C	HCl or H2SO4 to pH <2 Coo
Type of Container	P	P	P	P	P	P	P	P	aGs*	aGs*
No. of Container(s)	1	1	1	1	1	1	1	1	3	3
Volume	20mL	125mL	250mL	500mL	500mL	500mL	500mL	1000mL	40mL	40mL
	Activity Scan	pH - 150.1	Sulfate – 375.4	TDS - 160.1	TSS - 160.2	Arsenic - 7060 - (GFAA)	ICP Metals - 6010A (TAL)	Chlorine (Total residual) - 330.3	Acrylamide - 8316	VOA - 8240A (Append IX)
	3-10-00 JB ~~1000~~					pH= 1	pH= 1			

Sample No.	Matrix *	Sample Date	Sample Time										
B0XPD1	Water	3-8-00	1008	X	X	X	X	X	X	X	X	X	X
					✓	✓	✓	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
[signature]	3800 1150	R. Thoren	3-8-00/1150
R. Thoren	3-9-00/1430	FED EX	
FED EX		[signature]	3-10-00 0830

SPECIAL INSTRUCTIONS

Sample originated in non Rad Controlled area. <200dpm/g NOTA Required

Matrix *: S=Soil, SE=Sediment, SO=Solid, S=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

BHI-EE-011 (10/99)

LOT #F0C100241

STL St. Louis

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-018-34	Page 2 of 2
Collector: gale, sj	Company Contact: Dorman Blankenship; Telephone No.: 373-5456	Project Coordinator: TRENT, SJ	Price Code: 7N; Data Turnaround: 45 Days; Air Quality
Project Designation: 183N Backwash Discharge Pond -- Permit Monitoring	Sampling Location: 183-N	SAF No.: B99-018	
Ice Chest No.: ERC 99.059	Field Logbook No.: EL-1424; COA: 77BK27YA40	Method of Shipment: Federal Express	
Shipped To: Quanterra Incorporated	Offsite Property No.: A000114	Bill of Lading/Air Bill No.: 923579534343	

POSSIBLE SAMPLE HAZARDS/REMARKS: None

Special Handling and/or Storage

Preservation	HCl or H2SO4 to pH <2 Coo										
Type of Container	gGs*										
No. of Container(s)	3										
Volume	40mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										
Sample No.	Matrix *	Sample Date	Sample Time								
B0XPD1	Water	3-8-00	1008	X							
				✓							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By	Date/Time
Relinquished By: SJ GALE	3-8-00 1150	Received By: R. Thoren	3-8-00 1150
Relinquished By: R Thoren	3-9-00 1430	Received By: FED EX	3-10-00
Relinquished By: FED EX		Received By:	3-10-00 0832
Relinquished By		Received By	
Relinquished By		Received By	
Relinquished By		Received By	

SPECIAL INSTRUCTIONS: Sample originated in non Rad Controlled area <2000cpm/g no TA Required

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=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

BHI-EE-011 (10/99)

STL St. Louis

Quanterra Environmental Services

000123

Lot No.: F0C100241
WO 3119

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Richland

Date: 3-10-00 Time: 0830

Quote No: 33548

Initiated by: [illegible]

Shipper/No: FEDX 4235795343

RFA/COC Numbers: B99-018

Condition/Variance (Check all that apply):

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

☒ **No variances were noted during sample receipt.**

☒ **Cooler Temperature Upon Receipt in °C:** 2°

Temperature Variance Does Not Affect the Following Analyses: _____

Notes: _____

Corrective Action:

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

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

☐ Sample(s) processed "as is". _____

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

Sample Control Supervisor Review: [illegible] (or designate) Date: 3-10-00

Project Management Review: [illegible] Date: 3.10.00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 02/01/00

BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

GC/MS Volatiles

Lot-Sample #...: F0C100241-001 **Work Order #...:** D9H8W101 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00
Prep Date.....: 03/15/00 **Analysis Date..:** 03/15/00
Prep Batch #...: 0076129
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	10	ug/L	1.6
Vinyl chloride	ND	10	ug/L	4.1
Bromomethane	ND	10	ug/L	2.0
Chloroethane	ND	10	ug/L	2.3
Acetone	ND	20	ug/L	6.9
1,1-Dichloroethene	ND	5.0	ug/L	2.2
Methylene chloride	ND	5.0	ug/L	1.8
Carbon disulfide	ND	5.0	ug/L	2.1
1,1-Dichloroethane	ND	5.0	ug/L	1.2
2-Butanone	ND	20	ug/L	6.8
1,2-Dichloroethene (total)	ND	5.0	ug/L	2.7
Chloroform	**19**	**5.0**	**ug/L**	**1.5**
1,1,1-Trichloroethane	ND	5.0	ug/L	1.3
Carbon tetrachloride	ND	5.0	ug/L	1.3
1,2-Dichloroethane	ND	5.0	ug/L	1.6
Benzene	ND	5.0	ug/L	1.9
Trichloroethene	ND	5.0	ug/L	1.8
1,2-Dichloropropane	ND	5.0	ug/L	1.7
Bromodichloromethane	ND	5.0	ug/L	2.7
4-Methyl-2-pentanone	ND	20	ug/L	3.5
cis-1,3-Dichloropropene	ND	5.0	ug/L	2.0
Toluene	ND	5.0	ug/L	1.6
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.5
1,1,2-Trichloroethane	ND	5.0	ug/L	3.6
2-Hexanone	ND	20	ug/L	4.6
Tetrachloroethene	ND	5.0	ug/L	2.7
Dibromochloromethane	ND	5.0	ug/L	3.2
Chlorobenzene	ND	5.0	ug/L	2.8
Ethylbenzene	ND	5.0	ug/L	2.4
Xylenes (total)	ND	10	ug/L	6.6
Styrene	ND	5.0	ug/L	3.0
Bromoform	ND	5.0	ug/L	3.1
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	3.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	85	(71 - 118)
Toluene-d8	96	(78 - 124)
Dibromofluoromethane	98	(77 - 138)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9H8W102-MS **Matrix.....:** WATER
MS Lot-Sample #: F0C100241-001 D9H8W103-MSD
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00
Prep Date.....: 03/15/00 **Analysis Date..:** 03/15/00
Prep Batch #...: 0076129
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**54.4**	**ug/L**	**109**		**SW846 8260A**
	ND	**50.0**	**55.0**	**ug/L**	**110**	**1.1**	**SW846 8260A**
Benzene	**ND**	**50.0**	**53.8**	**ug/L**	**108**		**SW846 8260A**
	ND	**50.0**	**54.0**	**ug/L**	**108**	**0.42**	**SW846 8260A**
Trichloroethene	**ND**	**50.0**	**45.9**	**ug/L**	**92**		**SW846 8260A**
	ND	**50.0**	**45.5**	**ug/L**	**91**	**0.91**	**SW846 8260A**
Toluene	**ND**	**50.0**	**48.9**	**ug/L**	**98**		**SW846 8260A**
	ND	**50.0**	**50.8**	**ug/L**	**102**	**3.8**	**SW846 8260A**
Chlorobenzene	**ND**	**50.0**	**49.5**	**ug/L**	**99**		**SW846 8260A**
	ND	**50.0**	**49.9**	**ug/L**	**100**	**0.84**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(71 - 118)
	89	(71 - 118)
Toluene-d8	97	(78 - 124)
	100	(78 - 124)
Dibromofluoromethane	99	(77 - 138)
	96	(77 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BECHTEL HANFORD, INC.

B0XPD1

GC/MS Volatiles

Lot-Sample #: F0C100241-001 **Work Order #:** D9H8W101 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
UNKNOWN		18	M	2.101	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9NGT101 **Matrix.....:** WATER
MB Lot-Sample #: F0C160000-129

Prep Date.....: 03/15/00
Analysis Date..: 03/15/00 **Prep Batch #...:** 0076129
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Acetone	ND	20	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
Carbon disulfide	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
2-Butanone	ND	20	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
Bromodichloromethane	ND	5.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	20	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Dibromochloromethane	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Xylenes (total)	ND	10	ug/L	SW846 8260A
Styrene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(71 - 118)
Toluene-d8	96	(78 - 124)
Dibromofluoromethane	102	(77 - 138)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9NGT101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BECHTEL HANFORD, INC.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F0C160000-129 B **Work Order #:** D9NGT101 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
UNKNOWN		16	M	2.341	ug/L
UNKNOWN		6.7	M	23.004	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9NGT102 **Matrix.....:** WATER
LCS Lot-Sample#: F0C160000-129
Prep Date.....: 03/15/00 **Analysis Date..:** 03/15/00
Prep Batch #...: 0076129
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**55.1**	**ug/L**	**110**	**SW846 8260A**
Benzene	**50.0**	**53.8**	**ug/L**	**108**	**SW846 8260A**
Trichloroethene	**50.0**	**46.2**	**ug/L**	**92**	**SW846 8260A**
Toluene	**50.0**	**50.9**	**ug/L**	**102**	**SW846 8260A**
Chlorobenzene	**50.0**	**50.9**	**ug/L**	**102**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(71 - 118)
Toluene-d8	99	(78 - 124)
Dibromofluoromethane	102	(77 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

GC/MS Volatiles

Lot-Sample #...: F0C100241-001 Work Order #...: D9H8W12L Matrix.....: WATER
Date Sampled...: 03/08/00 Date Received..: 03/08/00
Prep Date.....: 03/14/00 Analysis Date..: 03/14/00
Prep Batch #...: 0076417
Dilution Factor: 1 Method.....: SW846 8240A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	10	ug/L	2.7
Vinyl chloride	ND	10	ug/L	2.6
Bromomethane	ND	10	ug/L	2.0
1,1-Dichloroethene	ND	5.0	ug/L	1.4
Methylene chloride	ND	5.0	ug/L	1.5
Carbon disulfide	ND	5.0	ug/L	1.3
Chloroethane	ND	10	ug/L	1.9
Acetone	ND	20	ug/L	1.3
1,1-Dichloroethane	ND	5.0	ug/L	1.3
2-Butanone	ND	20	ug/L	2.2
1,2-Dichloroethene (total)	ND	5.0	ug/L	5.0
Chloroform	**13**	**5.0**	**ug/L**	**1.7**
1,1,1-Trichloroethane	ND	5.0	ug/L	5.0
Carbon tetrachloride	ND	5.0	ug/L	1.2
1,2-Dichloroethane	ND	5.0	ug/L	1.9
Benzene	ND	5.0	ug/L	1.6
Trichloroethene	ND	5.0	ug/L	1.3
1,2-Dichloropropane	ND	5.0	ug/L	2.2
Bromodichloromethane	ND	5.0	ug/L	1.2
4-Methyl-2-pentanone	ND	20	ug/L	1.6
cis-1,3-Dichloropropene	ND	5.0	ug/L	1.3
Toluene	ND	5.0	ug/L	1.7
trans-1,3-Dichloropropene	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
2-Hexanone	ND	20	ug/L	1.7
Tetrachloroethene	ND	5.0	ug/L	2.0
Dibromochloromethane	ND	5.0	ug/L	5.0
Chlorobenzene	ND	5.0	ug/L	2.7
Ethylbenzene	ND	5.0	ug/L	1.1
Xylenes (total)	ND	5.0	ug/L	1.2
Styrene	ND	5.0	ug/L	1.2
Bromoform	ND	5.0	ug/L	0.97
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.97
Acrolein	ND	100	ug/L	100
Acetonitrile	ND	100	ug/L	100
Iodomethane	ND	5.0	ug/L	5.0
Allyl chloride	ND	10	ug/L	10
2-Chloro-1,3-butadiene	ND	5.0	ug/L	5.0

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BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

GC/MS Volatiles

Lot-Sample #...: F0C100241-001 **Work Order #...:** D9H8W12L **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Propionitrile	ND	20	ug/L	20
Methacrylonitrile	ND	5.0	ug/L	5.0
Isobutanol	ND	200	ug/L	200
1,4-Dioxane	ND	500	ug/L	500
Methyl methacrylate	ND	5.0	ug/L	5.0
Dibromomethane	ND	5.0	ug/L	5.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	5.0
trans-1,4-Dichloro-2-butene	ND	5.0	ug/L	5.0
1,2,3-Trichloropropane	ND	5.0	ug/L	5.0
Ethyl methacrylate	ND	5.0	ug/L	5.0
1,2-Dibromoethane	ND	5.0	ug/L	5.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	10
Dichlorodifluoromethane	ND	10	ug/L	10
Trichlorofluoromethane	ND	10	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	86	(69 - 113)
Toluene-d8	99	(68 - 132)
1,2-Dichloroethane-d4	109	(72 - 147)

BECHTEL HANFORD, INC.

B0XPD1

GC/MS Volatiles

Lot-Sample #: F0C100241-001 **Work Order #:** D9H8W12L **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9H8W12M-MS **Matrix.....:** WATER
MS Lot-Sample #: F0C100241-001 D9H8W12N-MSD
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00
Prep Date.....: 03/14/00 **Analysis Date..:** 03/14/00
Prep Batch #...: 0076417
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**50.0**	**52.0**	**ug/L**	**104**		**SW846 8240A**
	ND	**50.0**	**38.8**	**ug/L**	**78 p**	**29**	**SW846 8240A**
Trichloroethene	**ND**	**50.0**	**48.4**	**ug/L**	**97**		**SW846 8240A**
	ND	**50.0**	**50.1**	**ug/L**	**100**	**3.5**	**SW846 8240A**
1,1-Dichloroethene	**ND**	**50.0**	**55.1**	**ug/L**	**110**		**SW846 8240A**
	ND	**50.0**	**55.2**	**ug/L**	**110**	**0.10**	**SW846 8240A**
Toluene	**ND**	**50.0**	**46.7**	**ug/L**	**93**		**SW846 8240A**
	ND	**50.0**	**48.6**	**ug/L**	**97**	**4.0**	**SW846 8240A**
Chlorobenzene	**ND**	**50.0**	**47.4**	**ug/L**	**95**		**SW846 8240A**
	ND	**50.0**	**46.9**	**ug/L**	**94**	**1.1**	**SW846 8240A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(69 - 113)
	83	(69 - 113)
Toluene-d8	94	(68 - 132)
	97	(68 - 132)
1,2-Dichloroethane-d4	117	(72 - 147)
	98	(72 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9PW2101 **Matrix.....:** WATER
MB Lot-Sample #: F0C160000-417

Prep Date.....: 03/14/00
Analysis Date..: 03/14/00 **Prep Batch #...:** 0076417
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chlorobenzene	ND	5.0	ug/L	SW846 8240A
2-Chloro-1,3-butadiene	ND	5.0	ug/L	SW846 8240A
Chloroform	ND	5.0	ug/L	SW846 8240A
Chloromethane	ND	10	ug/L	SW846 8240A
Allyl chloride	ND	10	ug/L	SW846 8240A
Dibromochloromethane	ND	5.0	ug/L	SW846 8240A
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	SW846 8240A
Chloroethane	ND	10	ug/L	SW846 8240A
1,2-Dibromoethane	ND	5.0	ug/L	SW846 8240A
Dibromomethane	ND	5.0	ug/L	SW846 8240A
trans-1,4-Dichloro-2-butene	ND	5.0	ug/L	SW846 8240A
Dichlorodifluoromethane	ND	10	ug/L	SW846 8240A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8240A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8240A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8240A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8240A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8240A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8240A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8240A
1,4-Dioxane	ND	500	ug/L	SW846 8240A
Ethylbenzene	ND	5.0	ug/L	SW846 8240A
Ethyl methacrylate	ND	5.0	ug/L	SW846 8240A
Trichlorofluoromethane	ND	10	ug/L	SW846 8240A
2-Hexanone	ND	20	ug/L	SW846 8240A
Iodomethane	ND	5.0	ug/L	SW846 8240A
Isobutanol	ND	200	ug/L	SW846 8240A
Methacrylonitrile	ND	5.0	ug/L	SW846 8240A
Methylene chloride	ND	5.0	ug/L	SW846 8240A
Methyl methacrylate	ND	5.0	ug/L	SW846 8240A
4-Methyl-2-pentanone	ND	20	ug/L	SW846 8240A
Propionitrile	ND	20	ug/L	SW846 8240A
Styrene	ND	5.0	ug/L	SW846 8240A
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8240A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8240A
Tetrachloroethene	ND	5.0	ug/L	SW846 8240A
Toluene	ND	5.0	ug/L	SW846 8240A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8240A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8240A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9PW2101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Trichloroethene	ND	5.0	ug/L	SW846 8240A
1,2,3-Trichloropropane	ND	5.0	ug/L	SW846 8240A
Vinyl chloride	ND	10	ug/L	SW846 8240A
Xylenes (total)	ND	5.0	ug/L	SW846 8240A
Acetone	ND	20	ug/L	SW846 8240A
Acetonitrile	ND	100	ug/L	SW846 8240A
Acrolein	ND	100	ug/L	SW846 8240A
Benzene	ND	5.0	ug/L	SW846 8240A
Bromodichloromethane	ND	5.0	ug/L	SW846 8240A
Bromoform	ND	5.0	ug/L	SW846 8240A
Bromomethane	ND	10	ug/L	SW846 8240A
2-Butanone	ND	20	ug/L	SW846 8240A
Carbon disulfide	ND	5.0	ug/L	SW846 8240A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8240A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(69 - 113)
Toluene-d8	99	(68 - 132)
1,2-Dichloroethane-d4	109	(72 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BECHTEL HANFORD, INC.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F0C160000-417 B **Work Order #:** D9PW2101 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F0C100241 **Work Order #...:** D9PW2102 **Matrix.....:** WATER
LCS Lot-Sample#: F0C160000-417
Prep Date.....: 03/14/00 **Analysis Date..:** 03/14/00
Prep Batch #...: 0076417
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**53.7**	**ug/L**	**107**	**SW846 8240A**
Toluene	**50.0**	**50.7**	**ug/L**	**101**	**SW846 8240A**
Benzene	**50.0**	**52.5**	**ug/L**	**105**	**SW846 8240A**
Trichloroethene	**50.0**	**48.6**	**ug/L**	**97**	**SW846 8240A**
Chlorobenzene	**50.0**	**48.0**	**ug/L**	**96**	**SW846 8240A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(69 - 113)
Toluene-d8	103	(68 - 132)
1,2-Dichloroethane-d4	109	(72 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

HPLC

Lot-Sample #...: F0C100241-001 Work Order #...: D9H8W104 Matrix.....: WATER
Date Sampled...: 03/08/00 Date Received..: 03/08/00
Prep Date.....: 03/29/00 Analysis Date..: 03/29/00
Prep Batch #...: 0089301
Dilution Factor: 1 Method.....: SWDFT 8316

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acrylamide	ND	100	ug/L	100

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: F0C100241 **Work Order #...:** D9H8W105-MS **Matrix.....:** WATER
MS Lot-Sample #: F0C100241-001 D9H8W106-MSD
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00
Prep Date.....: 03/29/00 **Analysis Date..:** 03/29/00
Prep Batch #...: 0089301
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acrylamide	ND	1500	1300	ug/L	87		SWDFT 8316
	ND	1500	1200	ug/L	80	8.0	SWDFT 8316

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: F0C100241 **Work Order #...:** DA73W101 **Matrix.....:** WATER
MB Lot-Sample #: F0C290000-301

Prep Date.....: 03/29/00
Analysis Date..: 03/29/00 **Prep Batch #...:** 0089301
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrylamide	ND	100	ug/L	SWDFT 8316

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: F0C100241 **Work Order #...:** DA73W102 **Matrix.....:** WATER
LCS Lot-Sample#: F0C290000-301
Prep Date.....: 03/29/00 **Analysis Date..:** 03/29/00
Prep Batch #...: 0089301
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acrylamide	**1000**	**1000**	ug/L	**100**	**SWDFT 8316**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

TOTAL Metals

Lot-Sample #...: F0C100241-001 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0088165						
Aluminum	**1400**	**200**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W107**
		Dilution Factor: 1		MDL.....: 26.5		
Antimony	ND	60.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W10A
		Dilution Factor: 1		MDL.....: 19.7		
Barium	**27.4 B**	**200**	**ug/L**	**SW846 6010B**	**03/28-04/01/00**	**D9H8W10E**
		Dilution Factor: 1		MDL.....: 0.90		
Beryllium	ND	5.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W10H
		Dilution Factor: 1		MDL.....: 0.20		
Cadmium	ND	5.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W10L
		Dilution Factor: 1		MDL.....: 2.0		
Calcium	**22000**	**5000**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W10P**
		Dilution Factor: 1		MDL.....: 65.3		
Chromium	ND	10.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W10T
		Dilution Factor: 1		MDL.....: 2.7		
Cobalt	ND	50.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W10W
		Dilution Factor: 1		MDL.....: 2.5		
Copper	ND	25.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W111
		Dilution Factor: 1		MDL.....: 4.0		
Iron	**386**	**100**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W114**
		Dilution Factor: 1		MDL.....: 30.3		
Magnesium	**4200 B**	**5000**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W117**
		Dilution Factor: 1		MDL.....: 101		
Manganese	**6.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**03/28-04/01/00**	**D9H8W11A**
		Dilution Factor: 1		MDL.....: 0.90		
Nickel	ND	40.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W11E
		Dilution Factor: 1		MDL.....: 10.0		
Potassium	**2480 B**	**5000**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W11H**
		Dilution Factor: 1		MDL.....: 1810		

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BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

TOTAL Metals

Lot-Sample #...: F0C100241-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	10.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W11L
		Dilution Factor: 1		MDL.....: 8.0		
Sodium	**2700 B**	**5000**	**ug/L**	**SW846 6010B**	**03/28-04/05/00**	**D9H8W11P**
		Dilution Factor: 1		MDL.....: 44.2		
Vanadium	ND	50.0	ug/L	SW846 6010B	03/28-04/01/00	D9H8W11T
		Dilution Factor: 1		MDL.....: 4.7		
Zinc	**9.5 B**	**20.0**	**ug/L**	**SW846 6010B**	**03/28-04/01/00**	**D9H8W11W**
		Dilution Factor: 1		MDL.....: 4.2		
Prep Batch #...: 0094167						
Arsenic	ND	10.0	ug/L	SW846 7060	04/03-04/09/00	D9H8W121
		Dilution Factor: 1		MDL.....: 1.0		

NOTE(S):

B Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F0C100241-001 **Prep Batch #...:** 0088165									
Aluminum									
	1400	2000	3390	ug/L	100		SW846 6010B	03/28-04/05/00	D9H8W108
	1400	2000	3360	ug/L	98	0.96	SW846 6010B	03/28-04/05/00	D9H8W109
				Dilution Factor: 1					
Antimony									
	ND	500	505	ug/L	101		SW846 6010B	03/28-04/01/00	D9H8W10C
	ND	500	506	ug/L	101	0.23	SW846 6010B	03/28-04/01/00	D9H8W10D
				Dilution Factor: 1					
Barium									
	27.4	2000	2230	ug/L	110		SW846 6010B	03/28-04/01/00	D9H8W10F
	27.4	2000	2230	ug/L	110	0.29	SW846 6010B	03/28-04/01/00	D9H8W10G
				Dilution Factor: 1					
Beryllium									
	ND	50.0	55.7	ug/L	111		SW846 6010B	03/28-04/01/00	D9H8W10J
	ND	50.0	55.7	ug/L	111	0.03	SW846 6010B	03/28-04/01/00	D9H8W10K
				Dilution Factor: 1					
Cadmium									
	ND	50.0	49.8	ug/L	100		SW846 6010B	03/28-04/01/00	D9H8W10M
	ND	50.0	50.0	ug/L	100	0.36	SW846 6010B	03/28-04/01/00	D9H8W10N
				Dilution Factor: 1					
Calcium									
	22000	50000	72100	ug/L	100		SW846 6010B	03/28-04/05/00	D9H8W10Q
	22000	50000	72300	ug/L	101	0.39	SW846 6010B	03/28-04/05/00	D9H8W10R
				Dilution Factor: 1					
Chromium									
	ND	200	205	ug/L	103		SW846 6010B	03/28-04/01/00	D9H8W10U
	ND	200	205	ug/L	102	0.19	SW846 6010B	03/28-04/01/00	D9H8W10V
				Dilution Factor: 1					
Cobalt									
	ND	500	513	ug/L	103		SW846 6010B	03/28-04/01/00	D9H8W10X
	ND	500	514	ug/L	103	0.14	SW846 6010B	03/28-04/01/00	D9H8W110
				Dilution Factor: 1					
Copper									
	ND	250	276	ug/L	110		SW846 6010B	03/28-04/01/00	D9H8W112
	ND	250	274	ug/L	110	0.60	SW846 6010B	03/28-04/01/00	D9H8W113
				Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	386	1000	1400	ug/L	102		SW846 6010B	03/28-04/05/00	D9H8W115
	386	1000	1430	ug/L	104	1.9	SW846 6010B	03/28-04/05/00	D9H8W116
				Dilution Factor: 1					
Magnesium									
	4200	50000	54100	ug/L	100		SW846 6010B	03/28-04/05/00	D9H8W118
	4200	50000	54400	ug/L	100	0.42	SW846 6010B	03/28-04/05/00	D9H8W119
				Dilution Factor: 1					
Manganese									
	6.0	500	540	ug/L	107		SW846 6010B	03/28-04/01/00	D9H8W11C
	6.0	500	541	ug/L	107	0.17	SW846 6010B	03/28-04/01/00	D9H8W11D
				Dilution Factor: 1					
Nickel									
	ND	500	497	ug/L	99		SW846 6010B	03/28-04/01/00	D9H8W11F
	ND	500	498	ug/L	100	0.10	SW846 6010B	03/28-04/01/00	D9H8W11G
				Dilution Factor: 1					
Potassium									
	2480	50000	49700	ug/L	94		SW846 6010B	03/28-04/05/00	D9H8W11J
	2480	50000	50600	ug/L	96	1.9	SW846 6010B	03/28-04/05/00	D9H8W11K
				Dilution Factor: 1					
Silver									
	ND	50.0	50.1	ug/L	100		SW846 6010B	03/28-04/01/00	D9H8W11M
	ND	50.0	50.2	ug/L	100	0.07	SW846 6010B	03/28-04/01/00	D9H8W11N
				Dilution Factor: 1					
Sodium									
	2700	50000	51600	ug/L	98		SW846 6010B	03/28-04/05/00	D9H8W11Q
	2700	50000	51800	ug/L	98	0.34	SW846 6010B	03/28-04/05/00	D9H8W11R
				Dilution Factor: 1					
Vanadium									
	ND	500	526	ug/L	105		SW846 6010B	03/28-04/01/00	D9H8W11U
	ND	500	526	ug/L	105	0.11	SW846 6010B	03/28-04/01/00	D9H8W11V
				Dilution Factor: 1					
Zinc									
	9.5	500	517	ug/L	102		SW846 6010B	03/28-04/01/00	D9H8W11X
	9.5	500	519	ug/L	102	0.37	SW846 6010B	03/28-04/01/00	D9H8W120
				Dilution Factor: 1					

MS Lot-Sample #: F0C100241-001 **Prep Batch #...:** 0094167

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Arsenic									
	ND	40.0	45.0	ug/L	112		SW846 7060	04/03-04/09/00	D9H8W122
	ND	40.0	45.4	ug/L	114	0.88	SW846 7060	04/03-04/09/00	D9H8W123

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F0D030000-167 **Prep Batch #...:** 0094167						
Arsenic	ND	10.0	ug/L	SW846 7060	04/03-04/09/00	DADJC101
		Dilution Factor: 1				
MB Lot-Sample #: F0C280000-165 **Prep Batch #...:** 0088165						
Aluminum	ND	200	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ10P
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ101
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ102
		Dilution Factor: 1				
Beryllium	ND B	5.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ103
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ104
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ105
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ106
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ107
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ108
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ109
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ10A
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ10C
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ10D
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ10E
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ10F
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	03/28-04/05/00	DA4WJ10G
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ10H
		Dilution Factor: 1				
Zinc	6.490 B	20.0	ug/L	SW846 6010B	03/28-04/01/00	DA4WJ10J
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F0C280000-165 **Prep Batch #...:** 0088165							
Aluminum	1000	970.50	ug/L	97	SW846 6010B	03/28-04/05/00	DA4WJ11F
			Dilution Factor: 1				
Antimony	1000	978.30	ug/L	98	SW846 6010B	03/28-04/01/00	DA4WJ10Q
			Dilution Factor: 1				
Barium	1000	1042.40	ug/L	104	SW846 6010B	03/28-04/01/00	DA4WJ10R
			Dilution Factor: 1				
Beryllium	1000	1065.70	ug/L	107	SW846 6010B	03/28-04/01/00	DA4WJ10T
			Dilution Factor: 1				
Cadmium	1000	988.00	ug/L	99	SW846 6010B	03/28-04/01/00	DA4WJ10U
			Dilution Factor: 1				
Calcium	20000	20313.80	ug/L	102	SW846 6010B	03/28-04/05/00	DA4WJ10V
			Dilution Factor: 1				
Chromium	1000	999.80	ug/L	100	SW846 6010B	03/28-04/01/00	DA4WJ10W
			Dilution Factor: 1				
Cobalt	1000	973.60	ug/L	97	SW846 6010B	03/28-04/01/00	DA4WJ10X
			Dilution Factor: 1				
Copper	1000	1009.60	ug/L	101	SW846 6010B	03/28-04/01/00	DA4WJ110
			Dilution Factor: 1				
Iron	1000	1029.40	ug/L	103	SW846 6010B	03/28-04/05/00	DA4WJ111
			Dilution Factor: 1				
Magnesium	20000	19942.30	ug/L	100	SW846 6010B	03/28-04/05/00	DA4WJ112
			Dilution Factor: 1				
Manganese	1000	1022.70	ug/L	102	SW846 6010B	03/28-04/01/00	DA4WJ113
			Dilution Factor: 1				
Nickel	1000	998.10	ug/L	100	SW846 6010B	03/28-04/01/00	DA4WJ114
			Dilution Factor: 1				
Potassium	20000	18981.20	ug/L	95	SW846 6010B	03/28-04/05/00	DA4WJ115
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	250	246.30	ug/L	98	SW846 6010B	03/28-04/01/00	DA4WJ116
			Dilution Factor: 1				
Sodium	20000	19717.90	ug/L	99	SW846 6010B	03/28-04/05/00	DA4WJ117
			Dilution Factor: 1				
Vanadium	1000	1007.70	ug/L	101	SW846 6010B	03/28-04/01/00	DA4WJ118
			Dilution Factor: 1				
Zinc	1000	984.40	ug/L	98	SW846 6010B	03/28-04/01/00	DA4WJ119
			Dilution Factor: 1				
LCS Lot-Sample#: F0D030000-167 **Prep Batch #...:** 0094167							
Arsenic	40.0	44.0	ug/L	110	SW846 7060	04/03-04/09/00	DADJC103
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BECHTEL HANFORD, INC.

Client Sample ID: B0XPD1

General Chemistry

Lot-Sample #...: F0C100241-001 **Work Order #...:** D9H8W **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.6		No Units	MCAWW 150.1	03/21/00	0081349
		Dilution Factor: 1		MDL.....: 0.010		
Sulfate	17.5	5.0	mg/L	MCAWW 375.4	04/05/00	0096340
		Dilution Factor: 1		MDL.....: 0.90		
Total Dissolved Solids	105	5.0	mg/L	MCAWW 160.1	03/14-03/15/00	0074369
		Dilution Factor: 1		MDL.....: 4.2		
Total Residual Chlorine	0.25	0.10	mg/L	MCAWW 330.3	03/17/00	0077286
		Dilution Factor: 1		MDL.....: 0.089		
Total Suspended Solids	7.0	1.0	mg/L	MCAWW 160.2	03/14-03/15/00	0074375
		Dilution Factor: 1		MDL.....:		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0C100241 **Work Order #...:** D9H8W-SMP D9H8W-DUP **Matrix.....:** WATER

Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	F0C100241-001	
	7.6	7.6	No Units	0.53	(0-20)	MCAWW 150.1	03/21/00	0081349
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	F0C100241-001	
	105	100	mg/L	4.9	(0-20)	MCAWW 160.1	03/14-03/15/00	0074369
			Dilution Factor: 1					
Total Residual Chlorine						SD Lot-Sample #:	F0C100241-001	
	0.25	0.25	mg/L	0.0	(0-20)	MCAWW 330.3	03/17/00	0077286
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F0C100241-001	
	17.5	17.8	mg/L	1.8	(0-20)	MCAWW 375.4	04/05/00	0096340
			Dilution Factor: 1					
Total Suspended Solids						SD Lot-Sample #:	F0C100241-001	
	7.0	7.0	mg/L	0.0	(0-20)	MCAWW 160.2	03/14-03/15/00	0074375
			Dilution Factor: 1					

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F0C100241 **Matrix.....:** WATER
Date Sampled...: 03/08/00 **Date Received..:** 03/08/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #...:		D9H8W12F		MS Lot-Sample #:	F0C100241-001
	17.5	25.0	42.1	mg/L	99	MCAWW 375.4	04/05/00	0096340
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: D9WG5101		MB Lot-Sample #:	F0C210000-349	
	6.7		**No Units**	**MCAWW 150.1**	**03/21/00**	**0081349**
		Dilution Factor: 1				
Sulfate		Work Order #: DAH75101		MB Lot-Sample #:	F0D050000-340	
	ND	5.0	mg/L	MCAWW 375.4	04/05/00	0096340
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: D9N34101		MB Lot-Sample #:	F0C140000-369	
	5.0 <	**5.0**	**mg/L**	**MCAWW 160.1**	**03/14-03/15/00**	**0074369**
		Dilution Factor: 1				
Total Residual Chlorine		Work Order #: D9QXR101		MB Lot-Sample #:	F0C170000-286	
	0.10 <	**0.10**	**mg/L**	**MCAWW 330.3**	**03/17/00**	**0077286**
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: D9N44101		MB Lot-Sample #:	F0C140000-375	
	1.0 <	**1.0**	**mg/L**	**MCAWW 160.2**	**03/14-03/15/00**	**0074375**
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F0C100241 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			Work Order #: DAH75102		LCS Lot-Sample#: F0D050000-340		
	30.0	30.1	mg/L	100	MCAWW 375.4	04/05/00	0096340
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #: D9N34102		LCS Lot-Sample#: F0C140000-369		
	500	524	mg/L	105	MCAWW 160.1	03/14-03/15/00	0074369
			Dilution Factor: 1				
Total Residual Chlorine			Work Order #: D9QXR102		LCS Lot-Sample#: F0C170000-286		
	7.13	7.20	mg/L	101	MCAWW 330.3	03/17/00	0077286
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: D9N44102		LCS Lot-Sample#: F0C140000-375		
	500	421	mg/L	84	MCAWW 160.2	03/14-03/15/00	0074375
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.