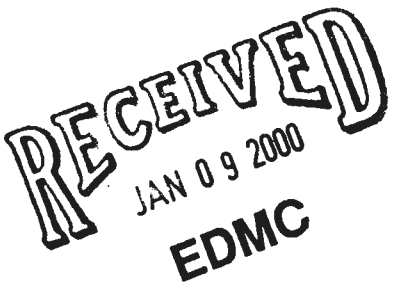
W03244

0054233



SEVERN TRENT SERVICES

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel 314 298 8566
Fax 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 618-11 BURIAL

C00-037

Lot #: F0J060272
SDG #: W03244

Joan Kessner

Bechtel Hanford, Inc.
3190 George Washington Way
Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.

MARTI WARD
Project Manager

November 6, 2000

SEVERN TRENT SERVICES

CASE NARRATIVE

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel 314 298 8566
Fax 314 298 8757
www.stl-inc.com

Bechtel Hanford Incorporated
3190 George Washington Way
Richland, Washington 99352

November 7, 2000
Attention: Joan Kessner

Project Number	:	38805
SDG	:	W03244
Number of Samples	:	six
Sample Matrix	:	water
Data Deliverable	:	Summary
Date SDG Closed	:	October 13, 2000

II. Introduction

On October 6, 2000, six (6) "water" samples were received by STL-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:
6010 Metals ICP
300.0 Anions IC
8260 Volatiles
310.1 Alkalinity

Deviation from Request: There were no deviations.

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

SEVERN TRENT SERVICES

STL St. Louis

Bechtel Hanford Incorporated
November 7, 2000
Project Number: 38805
SDG: W03244

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.

Results obtained from a dilution of the samples are reported with a "D" flag.

Volatiles: 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.

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

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

The spike recovery for Nitrite in sample B104T6 was outside the control limits. The spike data was flagged with an "N" qualifier. LCS recovery was acceptable.

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

SAMPLE SUMMARY

F0J060272

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DLP2V	001	B104T4	10/04/00	09:15
DLP31	002	B104T5	10/04/00	08:18
DLP35	003	B104T6	10/04/00	08:18
DLP43	004	B104R6	10/04/00	11:11
DLP47	005	B104R7	10/04/00	11:11
DLP4C	006	B104T2	10/04/00	11:11
DLP4H	007	B104T3	10/04/00	11:11

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

F0J060272

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

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

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

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-001
PROJECT #: 618-11 BURIAL WORK ORDER: DLP2V
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC'D: 3X40,20ML REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 9:15
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T4
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260B)	06	10/06/00	0/00/00	10/18/00

PURGE AND TRAP - 25 mL purge (Waters)
(I-25-QK-5I) DLP2V-1-01 Protocol: A QC Program: CLIENT: HANPORD

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-002
PROJECT #: 618-11 BURIAL WORK ORDER: DLP31
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC'D: 500P REPORT DUE DATE: 11/20/00
STORAGE LOC: T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 8:18
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T5
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B)	06	10/06/00	0/00/00	4/02/01

METALS, FILTERED (DISS) -> TOTAL
M6010DS AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,SR,VX,ZN
(I-55-QO-5I) DLP31 Protocol: A QC Program: CLIENT: HANFORD

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-002-D
PROJECT #: 618-11 BURIAL WORK ORDER: DLP31 MSD
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC'D: 500P REPORT DUE DATE: 11/20/00
STORAGE LOC: T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 8:18
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T5
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B)	06	10/06/00	0/00/00	4/02/01

METALS, FILTERED (DISS) -> TOTAL
M6010DS AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,SR,VX,ZN
(I-55-QO-5I) DLP31 Protocol: A QC Program: CLIENT: HANFORD

PSL20300
Page 1

SEVERN TRENT LABORATORIES, INC
CLIENT ANALYSIS SUMMARY
STL St. Louis

Run Date: 10/09/00
Time: 8:53:52
User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC.
PROJECT MANAGER: MARTI WARD
PROJECT #: 618-11 BURIAL
REPORT TO: Joan Kessner
P.O. NUMBER: MRC-SBB-A-19981
SITE: C00-037
AMOUNT REC"D: 500P
STORAGE LOC: T5B
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH
MATRIX: WATER
SAMPLE ID: B104T5
QC PACKAGE: Special Report - see checklist
SAMPLE COMMENTS:

QUOTE/SAR #: 38805
LAB ID: F-0J060272-002-S
WORK ORDER: DLP31 MS
RECEIVING DATE: 10/06/00
SAMPLING DATE: 10/04/00
ANALYTICAL DUE DATE: 11/06/00N
REPORT DUE DATE: 11/20/00
PRIORITY: 31
SAMPLING TIME: 8:18
RECEIVING TIME: 8:30
SDG# : W03244

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B)	06	10/06/00	0/00/00	4/02/01

METALS, FILTERED (DISS) -> TOTAL
M6010DS AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,SR,VX,ZN
(I-55-QO-5I) DLP31 Protocol: A QC Program: CLIENT: HANFORD

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-003
PROJECT #: 618-11 BURIAL WORK ORDER: DLP35
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC"D: 3X40,20ML,2X500P REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 8:18
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T6
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:
RUN A DUPLICATE ON ANIONS AND ALKALINITY.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Chloride (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CX-5I) DLP35-1-01 Protocol: A QC Program: CLIENT: HANFORD				
Fluoride (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C8-5I) DLP35-1-04 Protocol: A QC Program: CLIENT: HANFORD				
Nitrate as N (300.0, Ion Chromatography)	06	10/06/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C9-5I) DLP35-1-07 Protocol: A QC Program: CLIENT: HANFORD				
Nitrite as N (300.0, Ion Chromatography)	06	10/06/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-GO-5I) DLP35-1-0A Protocol: A QC Program: CLIENT: HANFORD				
Sulfate (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CY-5I) DLP35-1-0E Protocol: A QC Program: CLIENT: HANFORD				
Alkalinity, Total (310.1)	06	10/06/00	0/00/00	10/18/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-VC-5I) DLP35-1-0H Protocol: A QC Program: CLIENT: HANFORD				
Volatile Organics, GC/MS (8260B)	06	10/06/00	0/00/00	10/18/00
PURGE AND TRAP - 25 mL purge (Waters)				
(I-25-QK-5I) DLP35-1-0L Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-003-D
PROJECT #: 618-11 BURIAL WORK ORDER: DLP35 MSD
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC"D: 3X40,20ML,2X500P REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 8:18
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T6
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:
RUN A DUPLICATE ON ANIONS AND ALKALINITY.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Volatile Organics, GC/MS (8260B)	06	10/06/00	0/00/00	10/18/00

PURGE AND TRAP - 25 mL purge (Waters)
(I-25-QK-5I) DLP35-1-0N Protocol: A QC Program: CLIENT: HANFORD

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-003-S
PROJECT #: 618-11 BURIAL WORK ORDER: DLP35 MS
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC"D: 3X40,20ML,2X500P REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 8:18
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T6
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:
RUN A DUPLICATE ON ANIONS AND ALKALINITY.
Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Chloride (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CX-5I) DLP35-1-02 Protocol: A QC Program: CLIENT: HANFORD				
Fluoride (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C8-5I) DLP35-1-05 Protocol: A QC Program: CLIENT: HANFORD				
Nitrate as N (300.0, Ion Chromatography)	06	10/06/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C9-5I) DLP35-1-08 Protocol: A QC Program: CLIENT: HANFORD				
Nitrite as N (300.0, Ion Chromatography)	06	10/06/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-GO-5I) DLP35-1-0C Protocol: A QC Program: CLIENT: HANFORD				
Sulfate (300.0, Ion Chromatography)	06	10/06/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CY-5I) DLP35-1-0F Protocol: A QC Program: CLIENT: HANFORD				
Volatile Organics, GC/MS (8260B)	06	10/06/00	0/00/00	10/18/00
PURGE AND TRAP - 25 mL purge (Waters)				
(I-25-QK-5I) DLP35-1-0M Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-004
PROJECT #: 618-11 BURIAL WORK ORDER: DLP43
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC'D: 500P REPORT DUE DATE: 11/20/00
STORAGE LOC: T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 11:11
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104R6
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B)	06	10/06/00	0/00/00	4/02/01
METALS, FILTERED (DISS) -> TOTAL				
M6010DS AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,SR,VX,ZN				
(I-55-QO-5I) DLP43 Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-005
PROJECT #: 618-11 BURIAL WORK ORDER: DLP47
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC"D: 3X40,20ML,2X500P REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 11:11
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104R7
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Chloride (300.0, Ion Chromatography)	06	10/09/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CX-5I) DLP47-1-01 Protocol: A QC Program: CLIENT: HANFORD				
Fluoride (300.0, Ion Chromatography)	06	10/09/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C8-5I) DLP47-1-02 Protocol: A QC Program: CLIENT: HANFORD				
Nitrate as N (300.0, Ion Chromatography)	06	10/09/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-C9-5I) DLP47-1-03 Protocol: A QC Program: CLIENT: HANFORD				
Nitrite as N (300.0, Ion Chromatography)	06	10/09/00	0/00/00	10/06/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-GO-5I) DLP47-1-04 Protocol: A QC Program: CLIENT: HANFORD				
Sulfate (300.0, Ion Chromatography)	06	10/09/00	0/00/00	11/01/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-CY-5I) DLP47-1-05 Protocol: A QC Program: CLIENT: HANFORD				
Alkalinity, Total (310.1)	06	10/09/00	0/00/00	10/18/00
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION				
(I-88-VC-5I) DLP47-1-06 Protocol: A QC Program: CLIENT: HANFORD				
Volatile Organics, GC/MS (8260B)	06	10/09/00	0/00/00	10/18/00
PURGE AND TRAP - 25 mL purge (Waters)				
(I-25-QK-5I) DLP47-1-07 Protocol: A QC Program: CLIENT: HANFORD				

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-006
PROJECT #: 618-11 BURIAL WORK ORDER: DLP4C
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC'D: 500P REPORT DUE DATE: 11/20/00
STORAGE LOC: T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 11:11
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T2
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Inductively Coupled Plasma (6010B)	06	10/09/00	0/00/00	4/02/01

METALS, FILTERED (DISS) -> TOTAL
M6010DS AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,KX,MG,MN,NA,NI,SB,SR,VX,ZN
(I-55-QO-5I) DLP4C Protocol: A QC Program: CLIENT: HANFORD

PSL20300 SEVERN TRENT LABORATORIES, INC Run Date: 10/09/00
Page 1 CLIENT ANALYSIS SUMMARY Time: 8:53:52
STL St. Louis User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 38805
PROJECT MANAGER: MARTI WARD LAB ID: F-0J060272-007
PROJECT #: 618-11 BURIAL WORK ORDER: DLP4H
REPORT TO: Joan Kessner RECEIVING DATE: 10/06/00
P.O. NUMBER: MRC-SBB-A-19981 SAMPLING DATE: 10/04/00
SITE: C00-037 ANALYTICAL DUE DATE: 11/06/00N
AMOUNT REC"D: 3X40,20ML,2X500P REPORT DUE DATE: 11/20/00
STORAGE LOC: V11B,T5B PRIORITY: 31
LOT COMMENTS: SOME SAMPLES IN THIS SDG WILL HAVE HIGH SAMPLING TIME: 11:11
MATRIX: WATER RECEIVING TIME: 8:30
SAMPLE ID: B104T3
QC PACKAGE: Special Report - see checklist SDG# : W03244
SAMPLE COMMENTS:

Beginning Depth: .00 **Ending Depth:** .00

***** ANALYSIS *****	WRK LOC	REQUEST DATE	EXTRACTION EXP DATE	ANALYSIS EXP DATE
Chloride (300.0, Ion Chromatography) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-CX-5I) DLP4H-1-01 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	11/01/00
Fluoride (300.0, Ion Chromatography) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-C8-5I) DLP4H-1-02 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	11/01/00
Nitrate as N (300.0, Ion Chromatography) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-C9-5I) DLP4H-1-03 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	10/06/00
Nitrite as N (300.0, Ion Chromatography) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-GO-5I) DLP4H-1-04 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	10/06/00
Sulfate (300.0, Ion Chromatography) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-CY-5I) DLP4H-1-05 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	11/01/00
Alkalinity, Total (310.1) NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION (I-88-VC-5I) DLP4H-1-06 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	10/18/00
Volatile Organics, GC/MS (8260B) PURGE AND TRAP - 25 mL purge (Waters) (I-25-QK-5I) DLP4H-1-07 Protocol: A QC Program: CLIENT: HANFORD	06	10/09/00	0/00/00	10/18/00

LOT #F0J060272

STL St. Louis

PNNL W03244	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# C00-037-6
		Page 1 of 1

Collector: JG HOGAN	Contact/Requester: JH KESSNER	Telephone No.: (509) 375-4688 MSIN FAX
SAF No.: C00-037	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: 618-11 BURIAL GRNDS. GW MONITORING SEPTEMBER 2000	Logbook No.: WM-5ANS-H35	Ice Chest No.: 0696 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.: 26635515746
Protocol: CERCLA	Data Turnaround: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Fax copies of STL & TMA log-ins to JH Kessner, BHI (372-9487) & DL Stewart, PNNL (372-1704).
Submit invoices & deliverables to JH Kessner.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B104T4		W	10-4-00	0915	3x40-mL aGs*	8260_VOA_GCMS: List-1 (23)	HCl or H2SO4 to pH <2 Cool 4C
B104T4		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JG HOGAN		JG Hogan	10-5-00 1230	AIRBORNE			
Relinquished By		AIRBORNE	Date/Time	Received By		STL	10.06.00 0850
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

17

LOT #F0J060272

STL St. Louis

PNNL W03244	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # C00-037-7
		Page 1 of 1

Collector JG HOGAN	Contact/Requester JH KESSNER	Telephone No. (509) 375-4688 MSIN FAX
SAF No. C00-037	Sampling Origin HANFORD SITE	Purchase Order/Charge Code
Project Title 618-11 BURIAL GRNDS, GW MONITORING SEPTEMBER 2000	Logbook No. WM-SAW3-H35	Ice Chest No. SML-574 Temp.
Shipped To (Lab) Severn Trent St. Louis	Method of Shipment GOVT. VEHICLE	Bill of Lading/Air Bill No. 266351594 5
Protocol CERCLA	Data Turnaround 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes [X] No [ ]
Fax copies of STL & TMA log-ins to JH Kessner, BHI (372-9487) & DL Stewart, PNNL (372-1704).
Submit invoices & deliverables to JH Kessner.

10.8.00

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B104T5 (F)	3	W	10-4-00	0818	1x500-mL G/P	6010_METALS_ICP: List-1 (19) pH 1	HNO3 to pH <2
B104T6	2	W			3x40-mL aGs*	8260_VOA_GCMS: List-1 (23)	HCl or H2SO4 to pH <2 Cool 4C
B104T6		W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B104T6		W			1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	Cool 4C
B104T6		W			1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JG HOGAN	JG HOGAN	JG HOGAN	10-5-00 1430	AIRBORNE			
Relinquished By			Date/Time	Received By			Date/Time
AIRBORNE				STL			10.06.00 0830
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

LOT #F0J060272

cur 1112 2°

PNNL W03244	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # C00-037-3
		Page 1 of 1

Collector: JG HOGAN	Contact/Requester: JH KESSNER	Telephone No.: (509) 375-4688 MSIN FAX
SAF No.: C00-037	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: 618-11 BURIAL GRNDS, GW MONITORING SEPTEMBER 2000	Logbook No.: WM-SAWS-H35	Ice Chest No.: 0696 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.: 26 3515 746
Protocol: CERCLA	Data Turnaround: 45 Days	~~Offsite Property No.~~ RSR# 107747

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☐ No ☑
TOTAL ACTIVITY RESULTS ARE SAMPLE # B104T8
Fax copies of STL & TMA log-ins to JH Kessner, BHI (372-9487) & DL Stewart, PNNL (372-1704).
Submit invoices & deliverables to JH Kessner.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B104R6 (F)	4	W	10-4-00	1111	1x500-mL G/P	6010_METALS_ICP: List-1 (19) pH 1	HNO3 to pH <2
B104R7	5	W	↓	↓	3x40-mL aGs*	8260_VOA_GCMS: List-1 (23)	HCl or H2SO4 to pH <2 Cool 4C
B104R7		W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B104R7		W			1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	Cool 4C
B104R7		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JG HOGAN		JG Hogan	10-5-00 1230	AIRBORNE			
Relinquished By			Date/Time	Received By			Date/Time
		AIRBORNE		Jeff Kessner SR			10.06.00 0830
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL St. Louis

LOT #F0J060272

STL St. Louis

PNNL WO3244	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # C00-037-4
		Page 1 of 1

Collector: JG HOGAN	Contact/Requester: JH KESSNER	Telephone No.: (509) 375-4688 MSIN FAX
SAF No.: C00-037	Sampling Origin: HANFORD SITE	Purchase Order/Charge Code
Project Title: 618-11 BURIAL GRNDS. GW MONITORING SEPTEMBER 2000	Logbook No.: WM-SAWS-H35	Ice Chest No.: 0696 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: GOVT. VEHICLE	Bill of Lading/Air Bill No.: 266 3515 746
Protocol: CERCLA	Data Turnaround: 45 Days	~~Offsite Property No.~~: RSR# 107747

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☐ No ☑
TOTAL ACTIVITY RESULTS ARE SAMPLE # B104T8
Fax copies of STL & TMA log-ins to JH Kessner, BHI (372-9487) & DL Stewart, PNNL (372-1704).
Submit invoices & deliverables to JH Kessner.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis pH	Preservative
B104T2 (F)	6	W	10-4-00	1111	1x500-mL G/P	6010_METALS_ICP: List-1 (19) / 1	HNO3 to pH <2
B104T3	7	W	↓	↓	3x40-mL aGs*	8260_VOA_GCMS: List-1 (23)	HCl or H2SO4 to pH <2 Cool 4C
B104T3		W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B104T3		W			1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	Cool 4C
B104T3		W			1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JG HOGAN	JG HOGAN	JG Hogan	10-5-00 1230	AIRBORNE			
Relinquished By AIRBORNE			Date/Time	Received By Sue Mason STL			10.06.00 0830
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

LOT #F0J060272

STL St. Louis

WSCF
ANALYTICAL LABORATORY REPORT

Attention: DL STEWART/SCOTT CONLEY K6-75 **Group #:** 20001574
Project Number GW SAMPLING :GROUND WATER SAMPLING

Sample #	Client ID		Test Performed	Matrix	Method	RQ	Result	Units	MDL	Analyzed	Sampled	Received
W000001304	B104T8	STEWART	Alpha by liquid scintillation	WATER	LA-508-421		0.3	pCi/mL	0.20	10/05/00	10/04/00	10/04/00
W000001304	B104T8	STEWART	Alpha error by LC	WATER	LA-508-421		171	%	0.00	10/05/00	10/04/00	10/04/00
W000001304	B104T8	STEWART	Beta by liquid scintillation	WATER	LA-508-421		3.8e+03	pCi/mL	0.40	10/05/00	10/04/00	10/04/00
W000001304	B104T8	STEWART	Beta error by LC	WATER	LA-508-421		10	%	0.00	10/05/00	10/04/00	10/04/00

MDL=Minimum Detection Limit
RQ=Result Qualifier

B - The analyte was detected in the associated method blank.
D - Compound concentration resulted from a dilution.
E - Compound concentration exceeded calibration range.
J - Estimated value. 2 - See Comments.
N - Identification is based on a mass spectral library search.
U - The analyte was analyzed for but not detected.

* - Indicates results that have NOT been validated.

STL St. Louis

STL

Committed to *Your* Success

Lot No.: F0J060272
W03244

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: ANL

Date: 10.06.00 Time: 0830

Quote No: 38805

Initiated by: Sue Nisse

Shipper/No: Cerborne 002663515 746

RFA/COC Numbers: COC-037-3,4,6,7

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: all 100 % full

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: (or designate) Sue Nisse Date: 10.06.00

Project Management Review: Mulard Date: 10.9.00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE
THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY HIS/HER INITIALS AND THE DATE NEXT TO THAT ITEM

Form: SL-ADMIN-0004, Revised 6/21/00 SOP Reference: STL-QA-0006

VOLATILE ORGANICS

BECHTEL HANFORD, INC.

Client Sample ID: B104T4

GC/MS Volatiles

Lot-Sample #...: F0J060272-001 **Work Order #...:** DLP2V101 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.17
Acetone	ND	10	ug/L	4.0
Methylene chloride	**0.66 J,B**	**1.0**	**ug/L**	**0.37**
Carbon disulfide	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.19
2-Butanone	ND	5.0	ug/L	0.70
Chloroform	ND	1.0	ug/L	0.23
cis-1,2-Dichloroethene	ND	0.50	ug/L	0.18
Propionitrile	ND	4.0	ug/L	2.6
trans-1,2-Dichloroethene	ND	0.50	ug/L	0.26
1,1,1-Trichloroethane	ND	1.0	ug/L	0.23
Carbon tetrachloride	ND	1.0	ug/L	0.23
1,2-Dichloroethane	ND	1.0	ug/L	0.17
Benzene	ND	1.0	ug/L	0.23
Trichloroethene	ND	1.0	ug/L	0.16
4-Methyl-2-pentanone	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	1.0	ug/L	0.31
Tetrachloroethene	ND	1.0	ug/L	0.57
Tetrahydrofuran	ND	5.0	ug/L	1.5
Xylenes (total)	ND	1.0	ug/L	0.61
1,4-Dichlorobenzene	**0.23 J**	**1.0**	**ug/L**	**0.14**
Toluene	ND	1.0	ug/L	0.33

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	112	(72 - 116)
Toluene-d8	95	(79 - 124)
Dibromofluoromethane	102	(71 - 128)
1,2-Dichloroethane-d4	92	(65 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BECHTEL HANFORD, INC.

B104T4

GC/MS Volatiles

Lot-Sample #: F0J060272-001 **Work Order #:** DLP2V101 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

BECHTEL HANFORD, INC.

Client Sample ID: B104T6

GC/MS Volatiles

Lot-Sample #...: F0J060272-003 **Work Order #...:** DLP3510L **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.17
Acetone	ND	10	ug/L	4.0
Methylene chloride	**0.99 J,B**	**1.0**	**ug/L**	**0.37**
Carbon disulfide	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.19
2-Butanone	ND	5.0	ug/L	0.70
Chloroform	**0.77 J**	**1.0**	**ug/L**	**0.23**
cis-1,2-Dichloroethene	ND	0.50	ug/L	0.18
Propionitrile	ND	4.0	ug/L	2.6
trans-1,2-Dichloroethene	ND	0.50	ug/L	0.26
1,1,1-Trichloroethane	ND	1.0	ug/L	0.23
Carbon tetrachloride	ND	1.0	ug/L	0.23
1,2-Dichloroethane	ND	1.0	ug/L	0.17
Benzene	ND	1.0	ug/L	0.23
Trichloroethene	ND	1.0	ug/L	0.16
4-Methyl-2-pentanone	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	1.0	ug/L	0.31
Tetrachloroethene	ND	1.0	ug/L	0.57
Tetrahydrofuran	ND	5.0	ug/L	1.5
Xylenes (total)	ND	1.0	ug/L	0.61
1,4-Dichlorobenzene	ND	1.0	ug/L	0.14
Toluene	ND	1.0	ug/L	0.33

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	108	(72 - 116)
Toluene-d8	91	(79 - 124)
Dibromofluoromethane	100	(71 - 128)
1,2-Dichloroethane-d4	98	(65 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BECHTEL HANFORD, INC.

B104T6

GC/MS Volatiles

Lot-Sample #: F0J060272-003 **Work Order #:** DLP3510L **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 #...: F0J060272 **Work Order #...:** DLP3510M-MS **Matrix.....:** WATER
MS Lot-Sample #: F0J060272-003 DLP3510N-MSD
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Chlorobenzene	**ND**	**10.0**	**11.0**	**ug/L**	**110**		**SW846 8260B**
	ND	**10.0**	**9.87**	**ug/L**	**99**	**11**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**9.59**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.77**	**ug/L**	**98**	**1.8**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.24**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**10.3**	**ug/L**	**103**	**11**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**9.72**	**ug/L**	**97**		**SW846 8260B**
	ND	**10.0**	**9.95**	**ug/L**	**100**	**2.4**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**4.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(72 - 116)
	102	(72 - 116)
Toluene-d8	113	(79 - 124)
	102	(79 - 124)
Dibromofluoromethane	98	(71 - 128)
	99	(71 - 128)
1,2-Dichloroethane-d4	89	(65 - 126)
	101	(65 - 126)

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: B104R7

GC/MS Volatiles

Lot-Sample #...: F0J060272-005 **Work Order #...:** DLP47107 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.17
Acetone	ND	10	ug/L	4.0
Methylene chloride	**0.89 J,B**	**1.0**	**ug/L**	**0.37**
Carbon disulfide	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.19
2-Butanone	ND	5.0	ug/L	0.70
Chloroform	ND	1.0	ug/L	0.23
cis-1,2-Dichloroethene	ND	0.50	ug/L	0.18
Propionitrile	ND	4.0	ug/L	2.6
trans-1,2-Dichloroethene	ND	0.50	ug/L	0.26
1,1,1-Trichloroethane	ND	1.0	ug/L	0.23
Carbon tetrachloride	ND	1.0	ug/L	0.23
1,2-Dichloroethane	ND	1.0	ug/L	0.17
Benzene	ND	1.0	ug/L	0.23
Trichloroethene	**0.23 J**	**1.0**	**ug/L**	**0.16**
4-Methyl-2-pentanone	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	1.0	ug/L	0.31
Tetrachloroethene	ND	1.0	ug/L	0.57
Tetrahydrofuran	ND	5.0	ug/L	1.5
Xylenes (total)	ND	1.0	ug/L	0.61
1,4-Dichlorobenzene	ND	1.0	ug/L	0.14
Toluene	ND	1.0	ug/L	0.33

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(72 - 116)
Toluene-d8	112	(79 - 124)
Dibromofluoromethane	97	(71 - 128)
1,2-Dichloroethane-d4	84	(65 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BECHTEL HANFORD, INC.

B104R7

GC/MS Volatiles

Lot-Sample #: F0J060272-005 **Work Order #:** DLP47107 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

BECHTEL HANFORD, INC.

Client Sample ID: B104T3

GC/MS Volatiles

Lot-Sample #...: F0J060272-007 **Work Order #...:** DLP4H107 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.17
Acetone	ND	10	ug/L	4.0
Methylene chloride	**0.92 J,B**	**1.0**	**ug/L**	**0.37**
Carbon disulfide	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.19
2-Butanone	ND	5.0	ug/L	0.70
Chloroform	ND	1.0	ug/L	0.23
cis-1,2-Dichloroethene	ND	0.50	ug/L	0.18
Propionitrile	ND	4.0	ug/L	2.6
trans-1,2-Dichloroethene	ND	0.50	ug/L	0.26
1,1,1-Trichloroethane	ND	1.0	ug/L	0.23
Carbon tetrachloride	ND	1.0	ug/L	0.23
1,2-Dichloroethane	ND	1.0	ug/L	0.17
Benzene	ND	1.0	ug/L	0.23
Trichloroethene	**0.23 J**	**1.0**	**ug/L**	**0.16**
4-Methyl-2-pentanone	ND	5.0	ug/L	1.3
1,1,2-Trichloroethane	ND	1.0	ug/L	0.31
Tetrachloroethene	ND	1.0	ug/L	0.57
Tetrahydrofuran	ND	5.0	ug/L	1.5
Xylenes (total)	ND	1.0	ug/L	0.61
1,4-Dichlorobenzene	ND	1.0	ug/L	0.14
Toluene	ND	1.0	ug/L	0.33

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(72 - 116)
Toluene-d8	105	(79 - 124)
Dibromofluoromethane	103	(71 - 128)
1,2-Dichloroethane-d4	92	(65 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

BECHTEL HANFORD, INC.

B104T3

GC/MS Volatiles

Lot-Sample #: F0J060272-007 **Work Order #:** DLP4H107 **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0J060272 **Work Order #...:** DNG6K1AA **Matrix.....:** WATER
MB Lot-Sample #: F0J200000-232

Prep Date.....: 10/18/00
Analysis Date..: 10/18/00 **Prep Batch #...:** 0294232
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
Propionitrile	ND	4.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	5.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(72 - 116)
Toluene-d8	112	(79 - 124)
Dibromofluoromethane	95	(71 - 128)
1,2-Dichloroethane-d4	87	(65 - 126)

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 #: F0J200000-232 B **Work Order #:** DNG6K1AA **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 #...: F0J060272 **Work Order #...:** DNG6K1AC **Matrix.....:** WATER
LCS Lot-Sample#: F0J200000-232
Prep Date.....: 10/18/00 **Analysis Date..:** 10/18/00
Prep Batch #...: 0294232
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Chlorobenzene	**10.0**	**9.29**	**ug/L**	**93**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**11.0**	**ug/L**	**110**	**SW846 8260B**
Benzene	**10.0**	**11.7**	**ug/L**	**117**	**SW846 8260B**
Trichloroethene	**10.0**	**9.82**	**ug/L**	**98**	**SW846 8260B**
Toluene	**10.0**	**9.94**	**ug/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	110	(72 - 116)
Toluene-d8	92	(79 - 124)
Dibromofluoromethane	113	(71 - 128)
1,2-Dichloroethane-d4	124	(65 - 126)

NOTE(S):

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

Bold print denotes control parameters

METALS

BECHTEL HANFORD, INC.

Client Sample ID: B104T5

DISSOLVED Metals

Lot-Sample #...: F0J060272-002 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0292367						
Aluminum	ND	200	ug/L	SW846 6010B	10/18-10/24/00	DLP31101
		Dilution Factor: 1		MDL.....: 85.2		
Antimony	ND	60.0	ug/L	SW846 6010B	10/18-10/24/00	DLP31104
		Dilution Factor: 1		MDL.....: 39.1		
Barium	ND	200	ug/L	SW846 6010B	10/18-10/24/00	DLP31107
		Dilution Factor: 1		MDL.....: 7.3		
Beryllium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3110A
		Dilution Factor: 1		MDL.....: 0.60		
Cadmium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3110E
		Dilution Factor: 1		MDL.....: 2.8		
Calcium	ND	5000	ug/L	SW846 6010B	10/18-10/24/00	DLP3110H
		Dilution Factor: 1		MDL.....: 160		
Chromium	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3110L
		Dilution Factor: 1		MDL.....: 7.5		
Cobalt	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3110P
		Dilution Factor: 1		MDL.....: 4.6		
Copper	**32.8**	**25.0**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP3110T**
		Dilution Factor: 1		MDL.....: 6.4		
Iron	ND	100	ug/L	SW846 6010B	10/18-10/24/00	DLP3110W
		Dilution Factor: 1		MDL.....: 56.6		
Magnesium	ND	5000	ug/L	SW846 6010B	10/18-10/24/00	DLP31111
		Dilution Factor: 1		MDL.....: 161		
Manganese	ND	15.0	ug/L	SW846 6010B	10/18-10/24/00	DLP31114
		Dilution Factor: 1		MDL.....: 1.9		
Nickel	ND	40.0	ug/L	SW846 6010B	10/18-10/24/00	DLP31117
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	ND	5000	ug/L	SW846 6010B	10/18-10/23/00	DLP3111A
		Dilution Factor: 1		MDL.....: 1800		

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BECHTEL HANFORD, INC.

Client Sample ID: B104T5

DISSOLVED Metals

Lot-Sample #...: F0J060272-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3111E
		Dilution Factor: 1		MDL.....: 7.4		
Sodium	**273 B**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/23/00**	**DLP3111H**
		Dilution Factor: 1		MDL.....: 172		
Strontium	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3111L
		Dilution Factor: 1		MDL.....: 1.8		
Vanadium	ND	20.0	ug/L	SW846 6010B	10/18-10/24/00	DLP3111P
		Dilution Factor: 1		MDL.....: 6.9		
Zinc	**5.3 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP3111T**
		Dilution Factor: 1		MDL.....: 4.2		

NOTE(S):

B Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F0J060272-002 **Prep Batch #...:** 0292367									
Aluminum									
	ND	2000	2070	ug/L	104		SW846 6010B	10/18-10/24/00	DLP31102
	ND	2000	2150	ug/L	107	3.5	SW846 6010B	10/18-10/24/00	DLP31103
				Dilution Factor: 1					
Antimony									
	ND	500	469	ug/L	94		SW846 6010B	10/18-10/24/00	DLP31105
	ND	500	482	ug/L	96	2.7	SW846 6010B	10/18-10/24/00	DLP31106
				Dilution Factor: 1					
Barium									
	ND	2000	1930	ug/L	96		SW846 6010B	10/18-10/24/00	DLP31108
	ND	2000	1980	ug/L	99	2.9	SW846 6010B	10/18-10/24/00	DLP31109
				Dilution Factor: 1					
Beryllium									
	ND	50.0	52.0	ug/L	104		SW846 6010B	10/18-10/24/00	DLP3110C
	ND	50.0	53.5	ug/L	107	2.9	SW846 6010B	10/18-10/24/00	DLP3110D
				Dilution Factor: 1					
Cadmium									
	ND	50.0	47.0	ug/L	94		SW846 6010B	10/18-10/24/00	DLP3110F
	ND	50.0	48.3	ug/L	97	2.7	SW846 6010B	10/18-10/24/00	DLP3110G
				Dilution Factor: 1					
Calcium									
	ND	50000	48300	ug/L	97		SW846 6010B	10/18-10/24/00	DLP3110J
	ND	50000	49800	ug/L	100	3.0	SW846 6010B	10/18-10/24/00	DLP3110K
				Dilution Factor: 1					
Chromium									
	ND	200	187	ug/L	93		SW846 6010B	10/18-10/24/00	DLP3110M
	ND	200	193	ug/L	96	3.2	SW846 6010B	10/18-10/24/00	DLP3110N
				Dilution Factor: 1					
Cobalt									
	ND	500	450	ug/L	90		SW846 6010B	10/18-10/24/00	DLP3110Q
	ND	500	464	ug/L	93	2.9	SW846 6010B	10/18-10/24/00	DLP3110R
				Dilution Factor: 1					
Copper									
	32.8	250	241	ug/L	83		SW846 6010B	10/18-10/24/00	DLP3110U
	32.8	250	247	ug/L	86	2.3	SW846 6010B	10/18-10/24/00	DLP3110V
				Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	1000	776	ug/L	78		SW846 6010B	10/18-10/24/00	DLP3110X
	ND	1000	787	ug/L	79	1.4	SW846 6010B	10/18-10/24/00	DLP31110
			Dilution Factor: 1						
Magnesium									
	ND	50000	47500	ug/L	95		SW846 6010B	10/18-10/24/00	DLP31112
	ND	50000	49000	ug/L	98	3.1	SW846 6010B	10/18-10/24/00	DLP31113
			Dilution Factor: 1						
Manganese									
	ND	500	477	ug/L	95		SW846 6010B	10/18-10/24/00	DLP31115
	ND	500	492	ug/L	98	3.1	SW846 6010B	10/18-10/24/00	DLP31116
			Dilution Factor: 1						
Nickel									
	ND	500	466	ug/L	93		SW846 6010B	10/18-10/24/00	DLP31118
	ND	500	483	ug/L	97	3.4	SW846 6010B	10/18-10/24/00	DLP31119
			Dilution Factor: 1						
Potassium									
	ND	50000	48300	ug/L	97		SW846 6010B	10/18-10/23/00	DLP3111C
	ND	50000	50200	ug/L	100	3.9	SW846 6010B	10/18-10/23/00	DLP3111D
			Dilution Factor: 1						
Silver									
	ND	50.0	42.6	ug/L	85		SW846 6010B	10/18-10/24/00	DLP3111F
	ND	50.0	42.6	ug/L	85	0.07	SW846 6010B	10/18-10/24/00	DLP3111G
			Dilution Factor: 1						
Sodium									
	273	50000	47500	ug/L	94		SW846 6010B	10/18-10/23/00	DLP3111J
	273	50000	49100	ug/L	98	3.4	SW846 6010B	10/18-10/23/00	DLP3111K
			Dilution Factor: 1						
Strontium									
	ND	1000	974	ug/L	97		SW846 6010B	10/18-10/24/00	DLP3111M
	ND	1000	998	ug/L	100	2.4	SW846 6010B	10/18-10/24/00	DLP3111N
			Dilution Factor: 1						
Vanadium									
	ND	500	480	ug/L	96		SW846 6010B	10/18-10/24/00	DLP3111Q
	ND	500	494	ug/L	99	2.9	SW846 6010B	10/18-10/24/00	DLP3111R
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	5.3	500	452	ug/L	89		SW846 6010B	10/18-10/24/00	DLP3111U
	5.3	500	466	ug/L	92	3.2	SW846 6010B	10/18-10/24/00	DLP3111V

Dilution Factor: 1

NOTE(S):

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

BECHTEL HANFORD, INC.

Client Sample ID: B104R6

DISSOLVED Metals

Lot-Sample #...: F0J060272-004 Matrix.....: WATER
Date Sampled...: 10/04/00 Date Received..: 10/06/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0292367						
Aluminum	ND	200	ug/L	SW846 6010B	10/18-10/24/00	DLP43101
		Dilution Factor: 1		MDL.....: 85.2		
Antimony	ND	60.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43102
		Dilution Factor: 1		MDL.....: 39.1		
Barium	**79.7 B**	**200**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP43103**
		Dilution Factor: 1		MDL.....: 7.3		
Beryllium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43104
		Dilution Factor: 1		MDL.....: 0.60		
Cadmium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43105
		Dilution Factor: 1		MDL.....: 2.8		
Calcium	**71400**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP43106**
		Dilution Factor: 1		MDL.....: 160		
Chromium	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43107
		Dilution Factor: 1		MDL.....: 7.5		
Cobalt	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43108
		Dilution Factor: 1		MDL.....: 4.6		
Copper	ND	25.0	ug/L	SW846 6010B	10/18-10/24/00	DLP43109
		Dilution Factor: 1		MDL.....: 6.4		
Iron	ND	100	ug/L	SW846 6010B	10/18-10/24/00	DLP4310A
		Dilution Factor: 1		MDL.....: 56.6		
Magnesium	**16400**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP4310C**
		Dilution Factor: 1		MDL.....: 161		
Manganese	ND	15.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310D
		Dilution Factor: 1		MDL.....: 1.9		
Nickel	ND	40.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310E
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**8450**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/23/00**	**DLP4310F**
		Dilution Factor: 1		MDL.....: 1800		

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BECHTEL HANFORD, INC.

Client Sample ID: B104R6

DISSOLVED Metals

Lot-Sample #...: F0J060272-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310G
		Dilution Factor: 1		MDL.....: 7.4		
Sodium	19100	5000	ug/L	SW846 6010B	10/18-10/23/00	DLP4310H
		Dilution Factor: 1		MDL.....: 172		
Strontium	375	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310J
		Dilution Factor: 1		MDL.....: 1.8		
Vanadium	8.0 B	20.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310K
		Dilution Factor: 1		MDL.....: 6.9		
Zinc	ND	20.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4310L
		Dilution Factor: 1		MDL.....: 4.2		

NOTE(S):

B Estimated result. Result is less than RL.

BECHTEL HANFORD, INC.

Client Sample ID: B104T2

DISSOLVED Metals

Lot-Sample #...: F0J060272-006 Matrix.....: WATER
Date Sampled...: 10/04/00 Date Received..: 10/06/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0292367						
Aluminum	ND	200	ug/L	SW846 6010B	10/18-10/24/00	DLP4C101
		Dilution Factor: 1		MDL.....: 85.2		
Antimony	ND	60.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C102
		Dilution Factor: 1		MDL.....: 39.1		
Barium	**83.4 B**	**200**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP4C103**
		Dilution Factor: 1		MDL.....: 7.3		
Beryllium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C104
		Dilution Factor: 1		MDL.....: 0.60		
Cadmium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C105
		Dilution Factor: 1		MDL.....: 2.8		
Calcium	**74200**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP4C106**
		Dilution Factor: 1		MDL.....: 160		
Chromium	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C107
		Dilution Factor: 1		MDL.....: 7.5		
Cobalt	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C108
		Dilution Factor: 1		MDL.....: 4.6		
Copper	ND	25.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C109
		Dilution Factor: 1		MDL.....: 6.4		
Iron	ND	100	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10A
		Dilution Factor: 1		MDL.....: 56.6		
Magnesium	**17000**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DLP4C10C**
		Dilution Factor: 1		MDL.....: 161		
Manganese	ND	15.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10D
		Dilution Factor: 1		MDL.....: 1.9		
Nickel	ND	40.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10E
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**7960**	**5000**	**ug/L**	**SW846 6010B**	**10/18-10/23/00**	**DLP4C10F**
		Dilution Factor: 1		MDL.....: 1800		

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BECHTEL HANFORD, INC.

Client Sample ID: B104T2

DISSOLVED Metals

Lot-Sample #...: F0J060272-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10G
		Dilution Factor: 1		MDL.....: 7.4		
Sodium	19300	5000	ug/L	SW846 6010B	10/18-10/23/00	DLP4C10H
		Dilution Factor: 1		MDL.....: 172		
Strontium	389	50.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10J
		Dilution Factor: 1		MDL.....: 1.8		
Vanadium	8.4 B	20.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10K
		Dilution Factor: 1		MDL.....: 6.9		
Zinc	ND	20.0	ug/L	SW846 6010B	10/18-10/24/00	DLP4C10L
		Dilution Factor: 1		MDL.....: 4.2		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F0J180000-367 **Prep Batch #...:** 0292367						
Aluminum	**124 B**	**200**	**ug/L**	**SW846 6010B**	**10/18-10/24/00**	**DNCW01AM**
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AN
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AP
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AQ
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AR
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AT
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AU
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AV
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AW
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AA
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AC
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AD
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AE
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	10/18-10/23/00	DNCW01AF
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AG
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5000	ug/L	SW846 6010B	10/18-10/23/00	DNCW01AH
		Dilution Factor: 1				
Strontium	ND	50.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AJ
		Dilution Factor: 1				
Vanadium	ND	20.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AK
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	10/18-10/24/00	DNCW01AL
		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

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F0J180000-367 **Prep Batch #...:** 0292367							
Aluminum	1000	1130	ug/L	113	SW846 6010B	10/18-10/24/00	DNCW01A9
			Dilution Factor: 1				
Antimony	1000	994	ug/L	99	SW846 6010B	10/18-10/24/00	DNCW01CA
			Dilution Factor: 1				
Barium	1000	1000	ug/L	100	SW846 6010B	10/18-10/24/00	DNCW01CC
			Dilution Factor: 1				
Beryllium	1000	1070	ug/L	107	SW846 6010B	10/18-10/24/00	DNCW01CD
			Dilution Factor: 1				
Cadmium	1000	994	ug/L	99	SW846 6010B	10/18-10/24/00	DNCW01CE
			Dilution Factor: 1				
Calcium	20000	20300	ug/L	101	SW846 6010B	10/18-10/24/00	DNCW01CF
			Dilution Factor: 1				
Chromium	1000	980	ug/L	98	SW846 6010B	10/18-10/24/00	DNCW01CG
			Dilution Factor: 1				
Cobalt	1000	953	ug/L	95	SW846 6010B	10/18-10/24/00	DNCW01CH
			Dilution Factor: 1				
Copper	1000	1030	ug/L	103	SW846 6010B	10/18-10/24/00	DNCW01CJ
			Dilution Factor: 1				
Iron	1000	825	ug/L	83	SW846 6010B	10/18-10/24/00	DNCW01AX
			Dilution Factor: 1				
Magnesium	20000	20000	ug/L	100	SW846 6010B	10/18-10/24/00	DNCW01A0
			Dilution Factor: 1				
Manganese	1000	999	ug/L	100	SW846 6010B	10/18-10/24/00	DNCW01A1
			Dilution Factor: 1				
Nickel	1000	968	ug/L	97	SW846 6010B	10/18-10/24/00	DNCW01A2
			Dilution Factor: 1				
Potassium	20000	19600	ug/L	98	SW846 6010B	10/18-10/23/00	DNCW01A3
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: F0J060272 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	250	245	ug/L	98	SW846 6010B	10/18-10/24/00	DNCW01A4
			Dilution Factor: 1				
Sodium	20000	20300	ug/L	101	SW846 6010B	10/18-10/23/00	DNCW01A5
			Dilution Factor: 1				
Strontium	1000	1050	ug/L	105	SW846 6010B	10/18-10/24/00	DNCW01A6
			Dilution Factor: 1				
Vanadium	1000	999	ug/L	100	SW846 6010B	10/18-10/24/00	DNCW01A7
			Dilution Factor: 1				
Zinc	1000	943	ug/L	94	SW846 6010B	10/18-10/24/00	DNCW01A8
			Dilution Factor: 1				

NOTE(S):

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

WET CHEMISTRY

BECHTEL HANFORD, INC.

Client Sample ID: B104T6

General Chemistry

Lot-Sample #...: F0J060272-003 **Work Order #...:** DLP35 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**0.096 B**	**0.20**	**mg/L**	**MCAWW 300.0A**	**10/06/00**	**0284094**
		Dilution Factor: 1		MDL.....: 0.035		
Fluoride	ND	0.10	mg/L	MCAWW 300.0A	10/06/00	0284093
		Dilution Factor: 1		MDL.....: 0.010		
Nitrate	ND	0.020	mg/L	MCAWW 300.0A	10/06/00	0284096
		Dilution Factor: 1		MDL.....: 0.011		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	10/06/00	0284095
		Dilution Factor: 1		MDL.....: 0.0074		
Sulfate	ND	0.50	mg/L	MCAWW 300.0A	10/06/00	0284097
		Dilution Factor: 1		MDL.....: 0.11		
Total Alkalinity	ND	5.0	mg/L	MCAWW 310.1	10/18/00	0304140
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F0J060272 **Work Order #...:** DLP35-SMP DLP35-DUP **Matrix.....:** WATER

Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F0J060272-003		
	0.096 B	0.097	mg/L	0.97	(0-20)	MCAWW 300.0A	10/06/00	0284094
		Dilution Factor: 1						
Fluoride						SD Lot-Sample #: F0J060272-003		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	10/06/00	0284093
		Dilution Factor: 1						
Nitrate						SD Lot-Sample #: F0J060272-003		
	ND	0.011	mg/L	200	(0-20)	MCAWW 300.0A	10/06/00	0284096
		Dilution Factor: 1						
Nitrite						SD Lot-Sample #: F0J060272-003		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	10/06/00	0284095
		Dilution Factor: 1						
Sulfate						SD Lot-Sample #: F0J060272-003		
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	10/06/00	0284097
		Dilution Factor: 1						
Total Alkalinity						SD Lot-Sample #: F0J060272-003		
	ND	ND	mg/L	0	(0-20)	MCAWW 310.1	10/18/00	0304140
		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.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F0J060272 **Matrix.....:** WATER
Date Sampled...: 10/04/00 **Date Received..:** 10/06/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	PREPARATION-METHOD	ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...: DLP35102			MS Lot-Sample #: F0J060272-003		
	0.096	20.0	19.6 D	mg/L	98	MCAWW 300.0A	10/06/00	0284094
			Dilution Factor: 10					
Fluoride			Work Order #...: DLP35105			MS Lot-Sample #: F0J060272-003		
	ND	2.00	2.03	mg/L	101	MCAWW 300.0A	10/06/00	0284093
			Dilution Factor: 1					
Nitrate			Work Order #...: DLP35108			MS Lot-Sample #: F0J060272-003		
	ND	2.00	2.02 D	mg/L	101	MCAWW 300.0A	10/06/00	0284096
			Dilution Factor: 10					
Nitrite			Work Order #...: DLP3510C			MS Lot-Sample #: F0J060272-003		
	ND	2.00	2.59 N,D	mg/L	130	MCAWW 300.0A	10/06/00	0284095
			Dilution Factor: 10					
Sulfate			Work Order #...: DLP3510F			MS Lot-Sample #: F0J060272-003		
	ND	20.0	23.4 D	mg/L	117	MCAWW 300.0A	10/06/00	0284097
			Dilution Factor: 10					

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

BECHTEL HANFORD, INC.

Client Sample ID: B104R7

General Chemistry

Lot-Sample #...: F0J060272-005 Work Order #...: DLP47 Matrix.....: WATER
Date Sampled...: 10/04/00 Date Received..: 10/06/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	16.9 D	1.0	mg/L	MCAWW 300.0A	10/06/00	0284094
		Dilution Factor: 5		MDL.....: 0.17		
Fluoride	0.24	0.10	mg/L	MCAWW 300.0A	10/06/00	0284093
		Dilution Factor: 1		MDL.....: 0.010		
Nitrate	19.2 D	1.0	mg/L	MCAWW 300.0A	10/06/00	0284096
		Dilution Factor: 50		MDL.....: 0.53		
Nitrite	0.021	0.020	mg/L	MCAWW 300.0A	10/06/00	0284095
		Dilution Factor: 1		MDL.....: 0.0074		
Sulfate	63.7 D	2.5	mg/L	MCAWW 300.0A	10/06/00	0284097
		Dilution Factor: 5		MDL.....: 0.54		
Total Alkalinity	134	5.0	mg/L	MCAWW 310.1	10/18/00	0304140
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

BECHTEL HANFORD, INC.

Client Sample ID: B104T3

General Chemistry

Lot-Sample #...: F0J060272-007 Work Order #...: DLP4H Matrix.....: WATER
Date Sampled...: 10/04/00 Date Received..: 10/06/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	16.7 D	1.0	mg/L	MCAWW 300.0A	10/06/00	0284094
		Dilution Factor: 5		MDL.....: 0.17		
Fluoride	0.23	0.10	mg/L	MCAWW 300.0A	10/06/00	0284093
		Dilution Factor: 1		MDL.....: 0.010		
Nitrate	20.4 D	1.0	mg/L	MCAWW 300.0A	10/06/00	0284096
		Dilution Factor: 50		MDL.....: 0.53		
Nitrite	0.031	0.020	mg/L	MCAWW 300.0A	10/06/00	0284095
		Dilution Factor: 1		MDL.....: 0.0074		
Sulfate	62.0 D	2.5	mg/L	MCAWW 300.0A	10/06/00	0284097
		Dilution Factor: 5		MDL.....: 0.54		
Total Alkalinity	138	5.0	mg/L	MCAWW 310.1	10/18/00	0304140
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F0J060272 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: DLTFC101		MB Lot-Sample #:	F0J100000-094	
	ND	0.20	mg/L	MCAWW 300.0A	10/06/00	0284094
		Dilution Factor: 1				
Fluoride		Work Order #: DLTFA101		MB Lot-Sample #:	F0J100000-093	
	ND	0.10	mg/L	MCAWW 300.0A	10/06/00	0284093
		Dilution Factor: 1				
Nitrate		Work Order #: DLTFE101		MB Lot-Sample #:	F0J100000-096	
	ND	0.020	mg/L	MCAWW 300.0A	10/06/00	0284096
		Dilution Factor: 1				
Nitrite		Work Order #: DLTFD101		MB Lot-Sample #:	F0J100000-095	
	ND	0.020	mg/L	MCAWW 300.0A	10/06/00	0284095
		Dilution Factor: 1				
Sulfate		Work Order #: DLTFF101		MB Lot-Sample #:	F0J100000-097	
	ND	0.50	mg/L	MCAWW 300.0A	10/06/00	0284097
		Dilution Factor: 1				
Total Alkalinity		Work Order #: DN2MN1AA		MB Lot-Sample #:	F0J300000-140	
	ND	5.0	mg/L	MCAWW 310.1	10/18/00	0304140
		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 #...: F0J060272 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: DLTFC102		LCS Lot-Sample#:	F0J100000-094	
	1.00	0.942	mg/L	94	MCAWW 300.0A	10/06/00	0284094
			Dilution Factor: 1				
Fluoride			Work Order #: DLTFA102		LCS Lot-Sample#:	F0J100000-093	
	1.00	0.951	mg/L	95	MCAWW 300.0A	10/06/00	0284093
			Dilution Factor: 1				
Nitrate			Work Order #: DLTFE102		LCS Lot-Sample#:	F0J100000-096	
	0.200	0.192	mg/L	96	MCAWW 300.0A	10/06/00	0284096
			Dilution Factor: 1				
Nitrite			Work Order #: DLTFD102		LCS Lot-Sample#:	F0J100000-095	
	0.0800	0.0780	mg/L	98	MCAWW 300.0A	10/06/00	0284095
			Dilution Factor: 1				
Sulfate			Work Order #: DLTFF102		LCS Lot-Sample#:	F0J100000-097	
	4.00	3.74	mg/L	94	MCAWW 300.0A	10/06/00	0284097
			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

Lot-Sample #...: F0J060272 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity	WO#:DN2MN1AC-LCS/DN2MN1AD-LCSD LCS Lot-Sample#: F0J300000-140							
	1000	958	mg/L	96		MCAWW 310.1	10/18/00	0304140
	1000	930	mg/L	93	2.9	MCAWW 310.1	10/18/00	0304140

Dilution Factor: 1

NOTE(S):

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