0057844 W03763

Original Chain of Custody Documentation

RECEIVED
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H2D250101

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B99-009-16	Page 1 of 1
Collector: Baechler / Johansen	Company Contact: Korenkiewicz, LC	Telephone No.: 373-4947	Project Coordinator: TRENT, SJ	Price Code: 9N; Air Quality ☐; Data Turnaround: 45 Days
Project Designation: 200-ZP-1 Operations On-Site and Off-Site Air Monitor Samplin	Sampling Location: 200 West		SAF No.: B99-009	
Ice Chest No.: Suma Case	Field Logbook No.: EL 1330	COA: R20ZP1D760	Method of Shipment: Hand Delivered	
Shipped To: Severn Trent Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Samples Originated from a non RAD Controlled area. No TA Required.

Special Handling and/or Storage

Preservation	None							Rec'd Temp Ambient			
Type of Container	Summa Canister							Custody seals intact			
No. of Container(s)	1							D.F.O 4-25-02			
Volume	6L							~~D~~FEDEX# 7920 2238 7071			
SAMPLE ANALYSIS	See item (1) in Special Instructions.							DF 4-25-02			

Sample No.	Matrix *	Sample Date	Sample Time										
B14JB3	GASEOUS	4/24/02	0746	X									AS-2
B14JB4	GASEOUS	4/24/02	0740	X									AS-3

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: [signature] ARC	Date/Time: 4/24/02 1250	Received By/Stored In: STL [signature]	Date/Time: 4-24-02 1250
Relinquished By/Removed From: [signature]	Date/Time: 4-24-02 1600	Received By/Stored In: David D. Flores	Date/Time: 4-25-02 0845
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

** Quanterra is to close the SDG upon receipt of samples.

(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylenechloride, Tetrachloroethene, Trichloroethene}

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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 (03/01/2002)

W03763 Sample Data Summary **1**

Sample Receipt Documentation **14**

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- Raw Sample Data 25
- Standards Data 44
- Raw QC Data 93
- Miscellaneous Data 110

Sample Receipt Documentation **121**

Total Number of Pages **122**

SEVERN TRENT SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

CERTIFICATE OF ANALYSIS

Bechtel Hanford, Inc.
3350 George Washington Way
Richland, WA 99352

May 3, 2002

Attention: Keith Maki

SAF Number	:	B99-009
Date Samples Received	:	April 25, 2002
Number of Samples	:	Two (2)
Sample Type	:	Air
Data Deliverable	:	45 Day Data Package

I. Introduction

Two (2) air samples were received on April 25, 2002 by the STL Knoxville Laboratory for analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Bechtel Hanford, Inc. (BHI) specific ID:

STLKL ID#	BHI ID#	MATRIX	DATE OF RECEIPT
E0EAD	B14JB3	Air	04/25/02
E0EAE	B14JB$	Air	04/25/02

II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information and analytical results.

The requested analysis was:

Volatile Organics by TO-14

III. Quality Control

The analytical results for the analysis performed includes a minimum of one Laboratory Control Sample (LCS).

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

IV. Comments

The original chain of custody documentation is included with this report.

Unless otherwise noted, all holding times and QC criteria were met. The test results shown in this report meet all applicable NELAC requirements. Any exceptions are noted below.

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

Reviewed and approved:

Jamie McKinney
Project Manager

Sample Data Summary

BECHTEL HANFORD, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: W03763

Matrix: (soil/water) AIR Lab Sample ID: H2D250107 001
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: / mL
Work Order: E0EAD1AA
Dilution factor: 807.3

Date Received: 04/25/02
Date Extracted: 04/30/02
Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: B14JB3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
67-64-1	Acetone	4000	U
56-23-5	**Carbon tetrachloride**	**18000**	
67-66-3	Chloroform	160	U
75-09-2	Methylene chloride	400	U
127-18-4	Tetrachloroethene	160	U
79-01-6	Trichloroethene	160	U
78-93-3	2-Butanone (MEK)	400	U

BECHTEL HANFORD, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: W03763

Matrix: (soil/water) AIR Lab Sample ID: H2D250107 002
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: / mL Date Received: 04/25/02
Work Order: E0EAE1AA Date Extracted: 04/30/02
Dilution factor: 1.64 Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: B14JB4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
67-64-1	Acetone	8.2	U
56-23-5	**Carbon tetrachloride**	**17**	
67-66-3	Chloroform	0.33	U
75-09-2	Methylene chloride	0.82	U
127-18-4	Tetrachloroethene	0.33	U
79-01-6	Trichloroethene	0.33	U
78-93-3	2-Butanone (MEK)	0.82	U

BECHTEL HANFORD, INC.
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:W03763

Matrix: (soil/water) AIR Lab Sample ID:H2E010000 122
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: / mL Date Received: 04/25/02
Work Order: E0N0R1AA Date Extracted:04/30/02
Dilution factor: 1 Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
67-64-1	Acetone	5.0	U
56-23-5	Carbon tetrachloride	0.20	U
67-66-3	Chloroform	0.20	U
75-09-2	Methylene chloride	0.50	U
127-18-4	Tetrachloroethene	0.20	U
79-01-6	Trichloroethene	0.20	U
78-93-3	2-Butanone (MEK)	0.50	U

BECHTEL HANFORD, INC.
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:W03763

Matrix: (soil/water) AIR Lab Sample ID:H2E010000 122
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: 100 / mL
Work Order: E0N0R1AC
Dilution factor: 1

Date Received: 04/25/02
Date Extracted:04/30/02
Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
56-23-5	Carbon tetrachloride	10	
67-66-3	Chloroform	10	
75-09-2	Methylene chloride	9.7	
127-18-4	Tetrachloroethene	10	
79-01-6	Trichloroethene	10	
75-71-8	Dichlorodifluoromethane	10	
74-87-3	Chloromethane	10	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafl	11	
75-01-4	Vinyl chloride	10	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	9.4	
75-35-4	1,1-Dichloroethene	10	
76-13-1	1,1,2-Trichloro-1,2,2-triflu	9.7	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.9	
71-55-6	1,1,1-Trichloroethane	10	
107-06-2	1,2-Dichloroethane	9.5	
71-43-2	Benzene	9.9	
78-87-5	1,2-Dichloropropane	9.7	
10061-01-5	cis-1,3-Dichloropropene	9.4	
10061-02-6	trans-1,3-Dichloropropene	9.6	
108-88-3	Toluene	10	
79-00-5	1,1,2-Trichloroethane	10	
106-93-4	1,2-Dibromoethane (EDB)	10	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	10	
136777-61-2	m-Xylene & p-Xylene	9.9	

BECHTEL HANFORD, INC.
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:W03763

Matrix: (soil/water) AIR Lab Sample ID:H2E010000 122
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: 100 / mL Date Received: 04/25/02
Work Order: E0N0R1AC Date Extracted:04/30/02
Dilution factor: 1 Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
100-42-5	Styrene	9.8	
95-47-6	o-Xylene	10	
79-34-5	1,1,2,2-Tetrachloroethane	9.5	
108-67-8	1,3,5-Trimethylbenzene	10	
95-63-6	1,2,4-Trimethylbenzene	9.9	
541-73-1	1,3-Dichlorobenzene	9.5	
100-44-7	Benzyl chloride	9.7	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	9.5	
120-82-1	1,2,4-Trichlorobenzene	9.3	
87-68-3	Hexachlorobutadiene	9.3	

BECHTEL HANFORD, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: W03763

Matrix: (soil/water) AIR Lab Sample ID: H2D250107 002
Method: EPA-19 TO-14
Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)

Sample WT/Vol: / mL
Work Order: E0EAE1AC
Dilution factor: 1.64

Date Received: 04/25/02
Date Extracted: 04/30/02
Date Analyzed: 04/30/02

QC Batch: 2121122

Client Sample Id: B14JB4 DUP

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ppb(v	Q
67-64-1	Acetone	8.2	U
56-23-5	Carbon tetrachloride	17	
67-66-3	Chloroform	0.33	U
75-09-2	Methylene chloride	0.82	U
127-18-4	Tetrachloroethene	0.33	U
79-01-6	Trichloroethene	0.33	U
78-93-3	2-Butanone (MEK)	0.82	U

EPA-19 TO-14 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2D250107

Extraction: XXS88JY01

	CLIENT ID.	SRG01	SRG02	SRG03	TOT OUT
01	B14JB3	101	104	88	00
02	B14JB4	100	105	88	00
03	METHOD BLK. E0N0R1AA	100	103	87	00
04	LCS E0N0R1AC	96	100	99	00
05	B14JB4 DUP	101	104	89	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(70-130)
SRG02	= Toluene-d8	(70-130)
SRG03	= 4-Bromofluorobenzene	(70-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

EPA-19 TO-14 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2E010000 WO #: E0N0R1AC
BATCH: 2121122

COMPOUND	SPIKE ADDED (ppb(v)	SAMPLE CONCENT. (ppb(v)	% REC	QC LIMITS REC	QUAL
Dichlorodifluoromethane	10	10	104	70 - 130	
Chloromethane	10	10	102	70 - 130	
1,2-Dichloro-1,1,2,2-tetr	10	11	109	70 - 130	
Vinyl chloride	10	10	105	70 - 130	
Bromomethane	10	10	104	70 - 130	
Chloroethane	10	10	100	70 - 130	
Trichlorofluoromethane	10	9.4	94	70 - 130	
1,1-Dichloroethene	10	10	100	70 - 130	
1,1,2-Trichloro-1,2,2-tri	10	9.7	97	70 - 130	
Methylene chloride	10	9.7	97	70 - 130	
1,1-Dichloroethane	10	9.6	96	70 - 130	
cis-1,2-Dichloroethene	10	9.9	99	70 - 130	
Chloroform	10	10	100	70 - 130	
1,1,1-Trichloroethane	10	10	100	70 - 130	
1,2-Dichloroethane	10	9.5	95	70 - 130	
Benzene	10	9.9	99	70 - 130	
Carbon tetrachloride	10	10	100	70 - 130	
1,2-Dichloropropane	10	9.7	97	70 - 130	
Trichloroethene	10	10	100	70 - 130	
cis-1,3-Dichloropropene	10	9.4	94	70 - 130	
trans-1,3-Dichloropropene	10	9.6	96	70 - 130	
Toluene	10	10	102	70 - 130	
1,1,2-Trichloroethane	10	10	100	70 - 130	
1,2-Dibromoethane (EDB)	10	10	100	70 - 130	
Tetrachloroethene	10	10	102	70 - 130	
Chlorobenzene	10	10	100	70 - 130	
Ethylbenzene	10	10	100	70 - 130	
m-Xylene & p-Xylene	10	9.9	99	70 - 130	
Styrene	10	9.8	98	70 - 130	
o-Xylene	10	10	100	70 - 130	
1,1,2,2-Tetrachloroethane	10	9.5	95	70 - 130	

(Continued on next page)

EPA-19 TO-14 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2E010000 WO #: E0N0R1AC
BATCH: 2121122

COMPOUND	SPIKE ADDED (ppb(v)	SAMPLE CONCENT. (ppb(v)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	10	10	101	70- 130	
1,2,4-Trimethylbenzene	10	9.9	99	70- 130	
1,3-Dichlorobenzene	10	9.5	95	70- 130	
Benzyl chloride	10	9.7	97	70- 130	
1,4-Dichlorobenzene	10	9.6	96	70- 130	
1,2-Dichlorobenzene	10	9.5	95	70- 130	
1,2,4-Trichlorobenzene	10	9.3	93	70- 130	
Hexachlorobutadiene	10	9.3	93	70- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 39 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

E0N0R1AA

EPA-19 TO-14 METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLKNX

SDG Number: W03763

Lab File ID: bk0430b.d

Lot Number: H2D250107

Date Analyzed: 04/30/02

Time Analyzed: 12:08

Matrix: AIR

Date Extracted: 04/30/02

GC Column: DB-5 ID: .32

Extraction Method: TO-14

Instrument ID: MT

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	B14JB3	E0EAD1AA	e0ead.d	04/30/02	12:42
02	B14JB4	E0EAE1AA	e0eae.d	04/30/02	13:18
03	B14JB4 DUP	E0EAE1AC X	e0eaed.d	04/30/02	13:53
04	CHECK SAMPLE	E0N0R1AC C	rf0430.d	04/30/02	10:40
05					
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COMMENTS:

FORM IV

Sample Receipt Documentation

H2D250107

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-009-16	Page 1 of 1

Collector Baechler / Johansen	**Company Contact** Korenkiewicz, LC	**Telephone No.** 373-4947	**Project Coordinator** TRENT, SJ	**Price Code** 9N	**Data Turnaround** 45 Days
Project Designation 200-ZP-1 Operations On-Site and Off-Site Air Monitor Samplin	**Sampling Location** 200 West		**SAF No.** B99-009	**Air Quality** ☐	
Ice Chest No. Suma Case	**Field Logbook No.** EL 1330	**COA** R20ZP1D760	**Method of Shipment** Hand Delivered		
Shipped To Severn Trent Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS

Samples Originated from a non RAD Controlled area. No TA Required.

Special Handling and/or Storage

Preservation	None											
Type of Container	Summa Canister											
No. of Container(s)	1											
Volume	6L											

Rec'd Temp Ambient
Custody seals intact
D.F.O 4-25-02
FEDEX# 7920 2238 7071

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.									
B14JB3	GASEOUS	4/24/02	0746	X									AS-2
B14JB4	GASEOUS	4/24/02	0740	X									AS-3

DF 4-25-02

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From	4/24/02 0800	Received By/Stored In STL	4/24/02 1250
Relinquished By/Removed From	4-24-02 1600	Received By/Stored In David D. Floyd	4-25-02 0845
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

** Quanterra is to close the SDG upon receipt of samples.

(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylenechloride, Tetrachloroethene, Trichloroethene}

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

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

BHI-EE-011 (03/01/2002)

Volatiles

QC Summary

EPA-19 TO-14 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2D250107

Extraction: XXS88JY01

	CLIENT ID.	SRG01	SRG02	SRG03	TOT OUT
01	B14JB3	101	104	88	00
02	B14JB4	100	105	88	00
03	METHOD BLK. E0N0R1AA	100	103	87	00
04	LCS E0N0R1AC	96	100	99	00
05	B14JB4 DUP	101	104	89	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(70-130)
SRG02	= Toluene-d8	(70-130)
SRG03	= 4-Bromofluorobenzene	(70-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

EPA-19 TO-14 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2E010000 WO #: E0N0R1AC
BATCH: 2121122

COMPOUND	SPIKE ADDED (ppb(v)	SAMPLE CONCENT. (ppb(v)	% REC	QC LIMITS REC	QUAL
Dichlorodifluoromethane	10	10	104	70 - 130	
Chloromethane	10	10	102	70 - 130	
1,2-Dichloro-1,1,2,2-tetr	10	11	109	70 - 130	
Vinyl chloride	10	10	105	70 - 130	
Bromomethane	10	10	104	70 - 130	
Chloroethane	10	10	100	70 - 130	
Trichlorofluoromethane	10	9.4	94	70 - 130	
1,1-Dichloroethene	10	10	100	70 - 130	
1,1,2-Trichloro-1,2,2-tri	10	9.7	97	70 - 130	
Methylene chloride	10	9.7	97	70 - 130	
1,1-Dichloroethane	10	9.6	96	70 - 130	
cis-1,2-Dichloroethene	10	9.9	99	70 - 130	
Chloroform	10	10	100	70 - 130	
1,1,1-Trichloroethane	10	10	100	70 - 130	
1,2-Dichloroethane	10	9.5	95	70 - 130	
Benzene	10	9.9	99	70 - 130	
Carbon tetrachloride	10	10	100	70 - 130	
1,2-Dichloropropane	10	9.7	97	70 - 130	
Trichloroethene	10	10	100	70 - 130	
cis-1,3-Dichloropropene	10	9.4	94	70 - 130	
trans-1,3-Dichloropropene	10	9.6	96	70 - 130	
Toluene	10	10	102	70 - 130	
1,1,2-Trichloroethane	10	10	100	70 - 130	
1,2-Dibromoethane (EDB)	10	10	100	70 - 130	
Tetrachloroethene	10	10	102	70 - 130	
Chlorobenzene	10	10	100	70 - 130	
Ethylbenzene	10	10	100	70 - 130	
m-Xylene & p-Xylene	10	9.9	99	70 - 130	
Styrene	10	9.8	98	70 - 130	
o-Xylene	10	10	100	70 - 130	
1,1,2,2-Tetrachloroethane	10	9.5	95	70 - 130	

(Continued on next page)

EPA-19 TO-14 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: BECHTEL HANFORD, INC.

Lab Code: STLKNX SDG No: W03763

Lot #: H2E010000 WO #: E0N0R1AC
BATCH: 2121122

COMPOUND	SPIKE ADDED (ppb(v)	SAMPLE CONCENT. (ppb(v)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	10	10	101	70 - 130	
1,2,4-Trimethylbenzene	10	9.9	99	70 - 130	
1,3-Dichlorobenzene	10	9.5	95	70 - 130	
Benzyl chloride	10	9.7	97	70 - 130	
1,4-Dichlorobenzene	10	9.6	96	70 - 130	
1,2-Dichlorobenzene	10	9.5	95	70 - 130	
1,2,4-Trichlorobenzene	10	9.3	93	70 - 130	
Hexachlorobutadiene	10	9.3	93	70 - 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 39 outside limits

COMMENTS:

EPA-19 TO-14 METHOD BLANK SUMMARY

BLANK WORKORDER NO.
E0N0R1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLKNX

SDG Number:W03763

Lab File ID: bk0430b.d

Lot Number: H2D250107

Date Analyzed: 04/30/02

Time Analyzed: 12:08

Matrix: AIR

Date Extracted:04/30/02

GC Column: DB-5 ID: .32

Extraction Method: TO-14

Instrument ID: MT

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	B14JB3	E0EAD1AA	e0ead.d	04/30/02	12:42
02	B14JB4	E0EAE1AA	e0eae.d	04/30/02	13:18
03	B14JB4 DUP	E0EAE1AC X	e0eaed.d	04/30/02	13:53
04	CHECK SAMPLE	E0N0R1AC C	rf0430.d	04/30/02	10:40
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

FORM 5
OTHER ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: W03763

Lab File ID: BF0329 BFB Injection Date: 03/29/02

Instrument ID: MT BFB Injection Time: 1357

GC Column: DB-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.0
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 100.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.0 (7.1)1
176	95.0 - 101.0% of mass 174	66.5 (95.4)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICAL 5	ICAL 5	HI0329	03/29/02	1432
02	ICAL 4	ICAL 4	MH0329	03/29/02	1508
03	ICAL 3	ICAL 3	MD0329	03/29/02	1544
04	ICAL 2	ICAL 2	ML0329	03/29/02	1621
05	ICAL 6	ICAL 6	RL0329B	03/29/02	2025
06	ICAL 1	ICAL 1	LW0329D	03/29/02	2212
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
OTHER ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: W03763

Lab File ID: BF0430 BFB Injection Date: 04/30/02

Instrument ID: MT BFB Injection Time: 0931

GC Column: DB-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.7
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 100.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.1 (7.3)1
176	95.0 - 101.0% of mass 174	68.1 (98.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	10PPV	CCV	MD0430	04/30/02	1005
02	LCS	E0N0R1AC	RF0430	04/30/02	1040
03	BLANK	E0N0R1AA	BK0430B	04/30/02	1208
04	B14JB3	E0EAD1AA	E0EAD	04/30/02	1242
05	B14JB4	E0EAE1AA	E0EAE	04/30/02	1318
06	B14JB4	E0EAE1AC	E0EAED	04/30/02	1353
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
OTHER INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: W03763

Lab File ID (Standard): MD0430 Date Analyzed: 04/30/02

Instrument ID: MT Time Analyzed: 1005

GC Column: DB-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1(DFB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(BCM) AREA #	RT #
	12 HOUR STD	650344	11.87	630534	16.40	135584	9.79
	UPPER LIMIT	910482	12.37	882748	16.90	189818	10.29
	LOWER LIMIT	390206	11.37	378320	15.90	81350	9.29
	CLIENT SAMPLE NO.						
01	LCS	723970	11.88	685507	16.40	148118	9.79
02	BLANK	656446	11.86	587303	16.39	136971	9.76
03	B14JB3	632172	11.86	549846	16.40	128071	9.76
04	B14JB4	615376	11.86	550804	16.39	128818	9.75
05	B14JB4	621803	11.85	549794	16.39	130386	9.75
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (BCM) = Bromochloromethane

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Miscellaneous Data

STL Knoxville GC/MS Air Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 3

LOT/Project # H2D250107

Instrument:	MT	
Scanned File Names:	T032902I	
	T043002	

Review Items A. Tune / Continuing Calibration	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Were all samples injected within 24 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct CCAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results	**N/A**	**Yes**	**No**	**Why is data reportable?**	
1. Were all special project requirements met?		✓			✓
2. Were dilution factors/header information verified?		✓			✓
3. Are surrogates and internal standards within QC limits? (70-130% R for surr.; 60-140%R from CCAL for IS) *If no, list samples/reason (e.g.,* **sur1***):* Sample Reason Sample Reason		✓		[sur1] DUP surr. %R demonstrated same effect. [sur2] Reanalysis demonstrated same effect. **[sur5] At client's request, data was flagged as estimated & released without further investigation.*** **[is1] Per client, reanalysis was not performed *** [is2] Reanalysis confirmed a matrix effect.	✓
4. Were positive hits evaluated using qualitative identification criteria and technical judgement?		✓			✓
5. Are positive results within calibration range?		✓			✓
6. For dilutions, is highest concentration hit ≥ 5 ppb? *List samples and reason (e.g.,* elev1*):* Sample Reason Sample Reason		✓		[elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. [elev3] Elevated RLs for all analytes due to difficult sample matrix. [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	✓
7. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
8. Have alternate hits/manual integrations been verified as correct?	✓				NA
9. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)		✓			✓
10. Was a narrative prepared and all deviations noted?	✓				✓
C. Preparation QC					
1. System blank run every 24 hours prior to samples?		✓			✓
2. System blank surrogate recoveries within QC limits (70-130% R) ?		✓		**[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.***	✓
3. Are all analytes present in the system blank < RL? *If no, list blank ID:*		✓		**[mb3] No analyte > RL in associated samples.*** **[mb4] Sample results > 20x higher than blank.** **[mb6]** Common lab contaminant (methylene chloride/Freon) ≤2x RL.*	✓
4. DUP done per 20 samples and are all RPDs within limits? (for analytes >5x RL, ≤30 RPD for nonpolars; ≤40 RPD for polars; no criteria for methanol and n-butanol) *If no, list DUP ID:*		✓			✓
D. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				NA

Analyst: [signature]	Date: 5/1/02	2nd Level Reviewer: CWJ	Date: 5/1/02
Comments:		Comments:	

* Such action must be taken in consultation with client.

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RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/01/02
Time: 7:24:58

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

T043002

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* QC BATCH: 2121122 *
****

PREP DATE: 4/30/02
COMP DATE: 4/30/02

Reviewer/Date: _____ / 0/00/00

Volatile Organics, (GCMS-TO14 Low Level) ppb(v/v)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJT	ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00 COMMENTS:	6/06/02	H2D250107-001 **E0KAD-1-AA**		88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	6/06/02	H2D250107-002 **E0KAE-1-AA**		88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	6/06/02	H2D250107-002 **E0KAE-1-ACX**		88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-003 **E0MAX-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-004 **E0MA0-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-005 **E0MA1-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-006 **E0MA2-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/01/02
Time: 7:24:58

QC BATCH: 2121122

PREP DATE: 4/30/02
COMP DATE: 4/30/02

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00 COMMENTS:	5/06/02	H2D300131-007 **E0MA3-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-008 **E0MA4-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-009 **E0MA5-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-010 **E0MA6-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-012 **E0MCF-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-013 **E0MCH-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-014 **E0MCT-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-015 **E0MCW-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-016 **E0MCX-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
0/00/00 COMMENTS:	5/06/02	H2D300131-017 **E0MC0-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 5/01/02
Time: 7:24:58

QC BATCH: 2121122

PREP DATE: 4/30/02
COMP DATE: 4/30/02

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	5/06/02	H2D300131-019 **E0MC3-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
COMMENTS:															
0/00/00	5/06/02	H2D300131-020 **E0MC4-1-AA**	DR	88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
COMMENTS:															
0/00/00	0/00/00	H2E010000-122 **E0N0R-1-AAB**		88	JY	AIR	mL	NA	NA	NA		.0		.0	CX-772
COMMENTS:															
0/00/00	0/00/00	H2E010000-122 **E0N0R-1-ACC**		88	JY	AIR	**100mL** 100.00mL	NA	NA	NA		.0		.0	CX-890 CX-772
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
↕

NUMBER OF WORK ORDERS IN BATCH: 21

STL-Knoxville **Second In-Can Dilution**

Analyst: SAH

Notebook: 2428

Barometer: 30.04 inches Hg at sea level
732.92 mm Hg at Knoxville

Date: 4/29/02

Lot #	Work Order #	P init inches Hg	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor (In-Can)	Dilution Factor **(Total)**	
H2D250107	E0E AD	0.0	732.9	40.2	2811.8	3.8365	***24.22***	(AD) (*6.3143)
	E0E AE	0.0	732.9					

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

cjcandil.xls
rev.03

STL-Knoxville **In-Can Dilution**

Analyst: SAH

Notebook: 2428

Barometer: 30.04 inches Hg at sea level
732.92 mm Hg at Knoxville

Date: 4/29/02

Lot #	Work Order #	P init inches Hg	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor (In-Can)	Dilution Factor **(Total)**	
H2D250107	E0E AD	0.0	732.9	40.0	2801.5	3.8224	***6.31***	(AD) (*1.6519)
	E0E AE	0.0	732.9					

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

cjcandil.xls
rev.03

STL-Knoxville Initial Canister Dilution

Analyst: SAH

Notebook: 2428

Barometer: 30.23 inches Hg at sea level
737.742 mm Hg at Knoxville

Date: 4/25/02

Lot #	W/O #	P init inches	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor	
H2D250107	E0E AD	0.0	737.7	9.3	1218.7	1.65	(AD)
	E0E AE	0.0	737.7	9.1	1208.3	1.64	(AE)

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

cjcandil.xls
rev.03

STL-Knoxville

TO-14 Canister Dilution Log

Initial Dilution								In-Can Dilution				Serial Dilution or 2nd in-can					
Analyst	Date	Pbarr (in.)	Lot #	Work Order #	Can #	Initial Pressure Pi (in.)	Final Pressure Pf (psig)	Analyst	Date	Pbarr (in.)	Final Pressure Pf (psig)	Analyst	Date	Pbarr (in.)	To Can #	Volume (ml)	Final Pressure Pf (psig)
SAN	4/25/02	NA	D250124	E0EG0	12470	18 psi	NA										
↓	↓	↓	↓	↓ G4	12875	16 ↓	↓										
				↓ G7	12641	12 ↓											
SAN	4/25/02	30.23	D240124	E0CJ9	12454	16 psi	NA										
↓	↓	↓	↓	↓ KE	04738	15 ↓	↓										
				KF	11339	15 ↓											
				KG	12403	-7.3	5.3										
				KH	93289	18 psi	NA										
			↓	↓ KJ	04393	Vacuum	22										
			D240110	E0CFA	1799	-4.9	7.5										
			D240113	E0CFX	04729	-1.3	7.6										
			↓	↓ F0	0077	-0.9	7.9										
			D240174	E0CW8	93037	-3.0	7.8										
			↓	↓ XD	92070	-11.7	7.4										
			↓	↓ XE	1796	-8.9	7.1										
			D250107	E0EAD	93121	Ø	9.3	SAN	4/29/02	30.04	40.0	SAN	4/29/02	30.04	NA	NA	40.2
↓	↓	↓	↓	↓ AE	1806	Ø	9.1										

MS038R0.xls, 10/16/00

Updated: **12:53 PM EDT on April 25, 2002** Observed at Knoxville, Tennessee	
Temperature	**60° F**
Humidity	**51%**
Dewpoint	**42° F**
Wind	**North at 13 mph**
Pressure	**30.23 in**

Updated: **11:53 AM EDT on April 29, 2002** Observed at Knoxville, Tennessee	
Temperature	**61° F**
Humidity	**59%**
Dew Point	**46° F**
Wind	**Variable at 7 mph**
Pressure	**30.04 in**

H2D250107

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B99-009-16	Page 1 of 1
Collector: Baechler / Johansen	Company Contact: Korenkiewicz, LC	Telephone No.: 373-4947	Project Coordinator: TRENT, SJ	Price Code: 9N; Data Turnaround: 45 Days
Project Designation: 200-ZP-1 Operations On-Site and Off-Site Air Monitor Samplin	Sampling Location: 200 West		SAF No.: B99-009	Air Quality ☐
Ice Chest No.: Suma Case	Field Logbook No.: EL 1330	COA: R20ZP1D760	Method of Shipment: Hand Delivered	
Shipped To: Severn Trent Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Samples Originated from a non RAD Controlled area. No TA Required.

Special Handling and/or Storage

Preservation	None										
Type of Container	Summa Canister										
No. of Container(s)	1										
Volume	6L										
SAMPLE ANALYSIS	See item (1) in Special Instructions.										

Recd Temp Ambient
Custody seals intact
D.F.O 4-25-02
~~B~~FEDEX# 7920 2238 7071
DF 4-25-02

Sample No.	Matrix *	Sample Date	Sample Time										
B14JB3	GASEOUS	4/24/02	0746	X									AS-2
B14JB4	GASEOUS	4/24/02	0740	X									AS-3

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From: [signature] RC	Date/Time: 4/24/02 1250	Received By/Stored In: STL [signature]	Date/Time: 4-24-02 1250
Relinquished By/Removed From: [signature]	Date/Time: 4-24-02 1600	Received By/Stored In: David D. Flores	Date/Time: 4-25-02 0845
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

** Quanterra is to close the SDG upon receipt of samples.

(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylenechloride, Tetrachloroethene, Trichloroethene}

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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 (03/01/2002)