US EPA ARCHIVE DOCUMENT

Appendix C

Data Chem Laboratory Reports

Sample Shipping Information

Samples were placed in an oversized, sturdy box with packing material to fill voids and protect the samples during shipping. The sampling personnel then signed the chain-of-custody forms, and placed them in the box with the samples. Samples were shipped via Federal Express to the laboratory.

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 1
04070311110402RX

Date APR 0 7 2003
Laboratory Group Name 03I-0821-01
Account No. 07003

Booz Allen & Hamilton
Attention: Jordan Murphy
5299 DTC Blvd.
Suite 840
Greenwood Village, CO 80111

FAX (303) 684-7367
Telephone (303) 221-4446
E-mail murphy_jordan@bah.com

Sampling Collection and Shipment

Sampling Site _____ Date of Collection March 24, 2003

Date Samples Received at Laboratory March 31, 2003

Analysis

Method of Analysis NMAM 6009MOD

Date(s) of Analysis April 03, 2003

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury µg/sample	Mercury mg/m³	Air Volume L					
3705B324-01	03I09961	HYDRAR	0.43	0.014	31.78					
3705B024-03	03I09962	HYDRAR	0.16	0.0059	27.98					
3705RA324-05	03I09963	HYDRAR	2.0	0.074	26.49					
3705RA324-07	03I09964	HYDRAR	1.1	0.043	24.38					
3705RA324-09	03I09965	HYDRAR	1.1	0.045	25.27					
3705RA324-11	03I09966	HYDRAR	3.1	0.11	28.59					
3705RA324-13	03I09967	HYDRAR	0.43	0.075	5.65					
3705RA324-15	03I09968	HYDRAR	5.8	0.086	68.13					
3705RA324-17	03I09969	HYDRAR	1.4	0.021	66.36					
BLANK 3/24	03I09970	HYDRAR	0.078	**	0.00					
BLANK 3/24	03I09971	HYDRAR	0.086	**	0.00					
3705DA325-19	03I09972	HYDRAR	2.4	0.084	28.75					
3705DA325-21	03I09973	HYDRAR	0.27	0.016	16.94					

† See comment on last page.
ND Parameter not detected above LOD.
NR Parameter not requested.
NA Parameter not applicable.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Jason D. Kim for T.C.
Analyst: Tanya Cheklin

Kristie Betrien for JDK
Reviewer: Jason D. Kim

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

US EPA ARCHIVE DOCUMENT

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-BL
Page 2 of 3
Part 1 of 1
04070311110402RX

Date APR 07 2003
Laboratory Group Name 03I-0821-01

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury µg/sample	Mercury mg/m³	Air Volume L					
3705DA325-23	03I09974	HYDRAR	0.60	0.035	17.00					
3705DA325-25	03I09975	HYDRAR	1.8	0.070	24.94					
3705DA325-27	03I09976	HYDRAR	0.32	0.13	2.54					
3705DA325-29	03I09977	HYDRAR	1.7	0.027	62.85					
3705DA325-31	03I09978	HYDRAR	1.8	0.026	69.40					
3705DA325-33	03I09979	HYDRAR	0.23	0.078	2.96					
BLANK 3/25	03I09980	HYDRAR	0.075	**	0.00					
BLANK 3/25	03I09981	HYDRAR	0.071	**	0.00					
3705AA327-43	03I09982	HYDRAR	0.89	0.030	29.69					
3705AA327-45	03I09983	HYDRAR	2.4	0.074	31.75					
3705AA327-47	03I09984	HYDRAR	0.40	0.014	29.20					
3705AA327-49	03I09985	HYDRAR	1.9	0.071	27.34					
3705AA327-51	03I09986	HYDRAR	0.41	0.0084	48.12					
3705AA327-53	03I09987	HYDRAR	0.53	0.16	3.40					
3705AA327-55	03I09988	HYDRAR	0.73	0.0095	77.60					
3705AA327-57	03I09989	HYDRAR	1.1	0.014	78.53					
3705AA327-59	03I09990	HYDRAR	0.065	0.021	3.05					
BLANK 3/27	03I09991	HYDRAR	0.073	**	0.00					
BLANK 3/27	03I09992	HYDRAR	0.071	**	0.00					
3705HA326-35	03I09993	HYDRAR	0.50	0.13	3.97					
3705HA326-37	03I09994	HYDRAR	0.33	0.11	3.12					
3705HA326-39	03I09995	HYDRAR	1.9	0.065	28.92					
3705HA326-41	03I09996	HYDRAR	0.66	0.022	29.85					
BLANK 3/26	03I10003	HYDRAR	0.28	**	0.00					
BLANK 3/26	03I10004	HYDRAR	0.21	**	0.00					
LAB BLK 3/24	03I10668	HYDRAR	0.056	**	0.00					
LAB BLK 3/24	03I10669	HYDRAR	0.060	**	0.00					
LAB BLK 3/24	03I10670	HYDRAR	0.065	**	0.00					
Reporting Limit			0.01							

† See comment on last page.
ND Parameter not detected above LOD.
NR Parameter not requested.
NA Parameter not applicable.
** See comment on last page.
( ) Parameter between LOD and LOQ.

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Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

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DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Date APR 0 7 2003

Laboratory Group Name 03I-0821-01

General Set Comments

Method Reference: NIOSH Manual of Analytical Methods(NMAM), 4th ed., 08/15/94.
Results are not blank-corrected.
Results obtained for media blanks prepared from SKC Carulite tubes are typically found to have concentrations approximately the 0.035-0.045 µg/sample above the reporting limit.
Recoveries of the Laboratory Control Samples (LCS) and the Laboratory Control Sample Duplicates (LCSD) are not within the historical quality control limits.
Nonconformance/Corrective Action Report (NC/CAR) # 624 is initiated.
Results cannot be reported in mg/m^3 or ppm for samples with no air volume.

General Lab Comments

The results provided in this report relate only to the items tested.
This page is the concluding page of the report.

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US EPA ARCHIVE DOCUMENT

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES, INC.

1. ☑ **REGULAR Status** 03I-0821-01

☐ **RUSH Status Requested - ADDITIONAL CHARGE**
RESULTS REQUIRED BY _____
DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 3/28/03 Purchase Order No. _____
3. Company Name Booz Allen Hamilton
Address 5299 DTC Blvd., Suite 840
Greenwood Village CO 80111
Person to Contact ~~Steve~~ Jordan Murphy
Telephone (303) 221-4446
Fax Telephone (303) 694-7367
E-mail Address murphy_jordan@bah.com
Billing Address (if different) see contract

4. Quote No. _____
DCL Project Manager Rand Potter
5. **Sample Collection**
Sampling Site _____
Industrial Process _____
Date of Collection 3/24/03
Time Collected _____
Date of Shipment 3/28/03
Chain of Custody No. 1

6. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I09961	3705-R-A-3/24-01	Hydrar	31.78L	M 6009	2
09962	" -03	"	27.98L	"	2
09963	" -05	"	26.49L	"	2
09964	" -07	"	24.38L	"	2
09965	" -09	"	25.27L	"	2
09966	" -11	"	28.59L	"	2
09967	" -13	"	5.65L	"	2
09968	" -15	"	68.13L	"	2
09969	" -17	"	66.36L	"	2
09970	Blank 3/24	"	0	"	2
09971	Blank 3/24	"	0	"	2
03I10668	Lab Blank 3/24				
69	Lab Blank 3/24				
70	Lab Blank 3/24				

* Specify: Solid sorbent tube, e g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other
** 1. mg/sample (2. mg/m³) 3. ppm 4. % 5. _____ (other) Please indicate one or more units in the column entitled Units**
Comments RTI Dewar

Possible Contamination and/or Chemical Hazards _____

7. **Chain of Custody (Optional)**

Relinquished by	Jordan Murphy	Date/Time	3/28/03 11.35
Received by	Rand Potter	Date/Time	3/31/03
Relinquished by	Rand Potter	Date/Time	3/31/03
Received by		Date/Time	

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-268-9992
DATACHEM LABORATORIES, INC.

US EPA ARCHIVE DOCUMENT

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES, INC.

03I-0821-01

1. ☑ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 3/28/03 Purchase Order No. _____

3. Company Name Booz Allen Hamilton
Address 5299 DTC Blvd. Suite 840
Greenwood Village, Co 80111
Person to Contact Jordan Murphy
Telephone (303) 221-4446
Fax Telephone (303) 694-7367
E-mail Address murphy_jordan@bah.com
Billing Address (if different) see contract

4. Quote No. _____
DCL Project Manager Ramd Potter

5. **Sample Collection**
Sampling Site _____
Industrial Process _____
Date of Collection 3/25/03
Time Collected _____
Date of Shipment 3/28/03
Chain of Custody No. 3

6. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I09972	3705-DA3/25-19	Hydrow	28.75L	N 6009	2
09973	" - 21	"	16.94L	"	2
09974	" - 23	"	17.0L	"	2
09975	" - 25	"	24.94L	"	2
09976	" - 27	"	2.54L	"	2
09977	" - 29	"	~~34.41~~ 62.85L	"	2
09978	" - 31	"	69.40L	"	2
09979	" - 33	"	2.96L	"	2
09980	Blank 3/25	"	0	"	2
09981	Blank 3/25	"	0	"	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution, Bulk sample; Blood; Urine; Tissue; Soil, Water; Other

** 1. mg/sample (2. mg/m³) 3. ppm 4. % 5 _____ (other) Please indicate one or more units in the column entitled Units**

Comments Dexfrite Devize

Possible Contamination and/or Chemical Hazards _____

7. **Chain of Custody (Optional)**

Relinquished by Jordan Murphy Date/Time 3/28/03 11:35
Received by Ramd Potter Date/Time 3/31
Relinquished by Ramd Potter Date/Time 3/31/03
Received by _____ Date/Time _____

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DATACHEM LABORATORIES, INC.

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ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES, INC.

1. [✓] REGULAR Status 03I-0821-07

[ ] RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 3/28/03 Purchase Order No. _____

3. Company Name Booz Allen Hamilton
Address 5299 DTC Blvd. Suite 840
Greenwood Village, CO 80111
Person to Contact Jordan Murphy
Telephone (303) 221-4446
Fax Telephone (303) 694-7367
E-mail Address murphy_jordan@bah.com
Billing Address (if different) see contract

4. Quote No. _____
DCL Project Manager Rand Potter

5. Sample Collection
Sampling Site _____
Industrial Process _____
Date of Collection ~~3/29/03~~ 3/27/03
Time Collected _____
Date of Shipment 3/28/03
Chain of Custody No. 6

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I09982	3705-A-A-3/27-43	Hydrar	29.69L	N6009	2
09983	11-45	"	31.75L	"	2
09984	11-47	"	29.20L	"	2
09985	11-49	"	27.34L	"	2
09986	11-51	"	48.12L	"	2
09987	11-53	"	3.40L	"	2
09988	11-55	"	77.6L	"	2
09989	11-57	"	78.53L	"	2
09990	11-59	"	3.05L	"	2
09991	Blank 3/27	"		N6009	2
09992	Blank 3/27	"		N6009	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type, Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other
** 1. mg/sample 2. mg/m³ 3. ppm 4. % 5. ____ (other) Please indicate one or more units in the column entitled Units**

Comments Air cycle Device

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by Jordan Murphy Date/Time 3/28/03 11:35
Received by Rand Potter Date/Time 3/31
Relinquished by Rand Potter Date/Time 3/31/03
Received by _____ Date/Time _____

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DATACHEM LABORATORIES, INC.

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ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES, INC.

1. ☑ REGULAR Status 03I-0821-01

☐ RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY _____ DATE
CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 3/28/03 Purchase Order No. _____

3. Company Name Booz Allen Hamilton
Address 5299 DTC Blvd, Suite 840
Greenwood Village, CO 80111
Person to Contact Jordan Murphy
Telephone (303) 221-4446
Fax Telephone (303) 694-7367
E-mail Address murphy_jordan@bah.com
Billing Address (if different) see contract

4. Quote No. _____
DCL Project Manager Rand Potter

5. Sample Collection
Sampling Site _____
Industrial Process _____
Date of Collection 3/26/03
Time Collected _____
Date of Shipment 3/28/03
Chain of Custody No. 5

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I-09993	3705-H-A-3/26-35	Hydrar	3.97L	N 6009	2
09994	" - 37	"	3.12L	"	2
09995	" - 39	"	28.92L	"	2
09996	" - 41	"	29.85L	"	2
09997	3705-H-A-3/26-36	MCEF	3.97L	N 9103	2
09998	" - 38	"	3.12L	"	2
09999	" - 40	"	28.92L	"	2
10000	" - 42	"	29.85L	"	2
10001	Blank 3/26	"	0	"	2
10002	Blank 3/26	"	0	"	2
10003	Blank 3/26	Hydrar	0	N 6009	2
10004	Blank 3/26	Hydrar	0	N 6009	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type, Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil, Water; Other
** 1. mg/sample 2. mg/m^3 3. ppm 4. % 5. _____ (other) Please indicate one or more units in the column entitled Units**

Comments HMS Device

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by Jordan Murphy Date/Time 3/28/03 11:35
Received by Rand Potter Date/Time 3/31
Relinquished by Rand Potter Date/Time 3/31
Received by _____ Date/Time _____

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