

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.



ANALYTICAL REPORT

Form ARF-AL  
 Page 1 of 3  
 Part 1 of 1  
 05140322400528RX

Date MAY 15 2003  
 Laboratory Group Name 03I-1146-06  
 Account No. 07003

Booz Allen Hamilton  
 Attention: Steve Coffee  
 5299 DTC Blvd.  
 Suite 840  
 Greenwood Village, CO 80111

FAX (303) 694-7367  
 Telephone (303) 221-7559  
 E-mail coffee\_stephen@bah.com

Sampling Collection and Shipment

Sampling Site AERC Melbourne Date of Collection April 29, 2003  
 Date Samples Received at Laboratory May 05, 2003

Analysis

Method of Analysis NMAM 6009MOD  
 Date(s) of Analysis May 12, 2003

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury $\mu\text{g/sample}$	Mercury $\text{mg/m}^3$	Air Volume L					
3705B429-01	03I16295	HYDRAR	1.0	0.016	61.2					
3705B429-03	03I16296	HYDRAR	0.77	0.012	64.8					
3705DA429-05	03I16297	HYDRAR	3.7	0.14	25.8					
3705DA429-07	03I16298	HYDRAR	3.0	0.12	24.2					
3705DA429-09	03I16299	HYDRAR	3.3	0.13	24.9					
3705DA429-11	03I16300	HYDRAR	6.7	0.27	25.1					
3705DA429-13	03I16301	HYDRAR	0.044	0.015	3.0					
3705DA429-15	03I16302	HYDRAR	0.21	0.041	5.1					
3705DA429-17	03I16303	HYDRAR	3.7	0.035	104.9					
3705DA429-19	03I16304	HYDRAR	3.8	0.036	106.4					
3705DA429-21	03I16305	HYDRAR	2.3	0.021	109.2					
3705DA429-23	03I16306	HYDRAR	0.23	0.23	1.01					
3705DA429-25	03I16307	HYDRAR	0.65	0.64	1.01					

† 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.

*Jason D. Kim*  
 Analyst: Jason D. Kim  
*Neil A. Edwards*  
 Reviewer: Neil A. Edwards



ANALYTICAL REPORT

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Date MAY 15 2003  
Laboratory Group Name 03I-1146-06

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury $\mu\text{g}/\text{sample}$	Mercury $\text{mg}/\text{m}^3$	Air Volume L				
FLD BLK 4/29	03I16308	HYDRAR	0.046	**	0.0				
FLD BLK 4/29	03I16309	HYDRAR	0.044	**	0.0				
3705AA430-27	03I16310	HYDRAR	1.4	0.063	22.3				
3705AA430-29	03I16311	HYDRAR	0.059	0.0047	12.5				
3705AA430-31	03I16312	HYDRAR	0.87	0.070	12.4				
3705AA430-33	03I16313	HYDRAR	1.1	0.048	22.8				
3705AA430-35	03I16314	HYDRAR	1.1	0.048	22.8				
3705AA430-37	03I16315	HYDRAR	0.19	0.064	2.98				
3705AA430-39	03I16316	HYDRAR	0.45	0.11	4.22				
3705AA430-41	03I16317	HYDRAR	0.18	0.060	2.98				
3705AA430-43	03I16318	HYDRAR	0.24	0.081	2.98				
3705AA430-45	03I16319	HYDRAR	0.12	0.12	0.99				
3705AA430-47	03I16320	HYDRAR	0.26	0.26	0.99				
3705AA430-49	03I16321	HYDRAR	2.9	0.019	150.6				
3705AA430-51	03I16322	HYDRAR	3.1	0.021	149.1				
3705AA430-53	03I16323	HYDRAR	2.5	0.016	154.1				
3705AA430-55	03I16324	HYDRAR	0.35	0.034	10.4				
3705AA430-57	03I16325	HYDRAR	0.53	0.052	10.1				
3705AA431-59	03I16326	HYDRAR	0.11	0.036	3.07				
FLD BLK 4/30	03I16327	HYDRAR	0.045	**	0.0				
FLD BLK 4/30	03I16328	HYDRAR	0.048	**	0.0				
Reporting Limit			0.01						

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



ANALYTICAL REPORT

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Date \_\_\_\_\_  
Laboratory Group Name MAY 15 2003 03I-1146-06

**General Set Comments**

Method Reference: NIOSH Manual of Analytical Methods(NMAM), 4th ed., 08/15/94.  
Results are not blank-corrected.  
Results cannot be reported in mg/m<sup>3</sup> 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.



ANALYTICAL REPORT

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 05140323403496RX

MAY 15 2003

Date \_\_\_\_\_  
 Laboratory Group Name 03I-1146-07  
 Account No. 07003

Booz Allen Hamilton  
 Attention: Steve Coffee  
 5299 DTC Blvd.  
 Suite 840  
 Greenwood Village, CO 80111

FAX (303) 694-7367  
 Telephone (303) 221-7559  
 E-mail coffee\_stephen@bah.com

Sampling Collection and Shipment

Sampling Site AERC Melbourne Date of Collection May 01, 2003  
 Date Samples Received at Laboratory May 05, 2003

Analysis

Method of Analysis NMAM 6009MOD  
 Date(s) of Analysis May 12, 2003

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury $\mu\text{g}/\text{sample}$	Mercury $\text{mg}/\text{m}^3$	Air Volume L					
3705RA501-61	03I16329	HYDRAR	0.40	0.018	21.9					
3705RA501-63	03I16330	HYDRAR	0.28	0.024	11.8					
3705RA501-65	03I16331	HYDRAR	0.31	0.026	12.0					
3705RA501-67	03I16332	HYDRAR	0.39	0.018	22.2					
3705RA501-69	03I16333	HYDRAR	0.14	0.0063	22.1					
3705RA501-71	03I16334	HYDRAR	0.23	0.075	3.07					
3705RA501-73	03I16335	HYDRAR	TBA	TBA	TBA					
3705RA501-75	03I16336	HYDRAR	0.17	0.17	1.01					
3705RA501-77	03I16337	HYDRAR	0.11	0.11	1.01					
3705RA501-79	03I16338	HYDRAR	0.16	0.017	9.32					
3705RA501-81	03I16339	HYDRAR	0.15	0.016	9.45					
3705RA501-83	03I16340	HYDRAR	1.7	0.013	134.6					
3705RA501-85	03I16341	HYDRAR	1.7	0.013	134.6					

† 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.  
 TBA Parameter to be analyzed.

*Jason D. Kim*  
 Analyst: Jason D. Kim  
*Neil A. Edwards*  
 Reviewer: Neil A. Edwards







ANALYTICAL REPORT

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MAY 15 2003

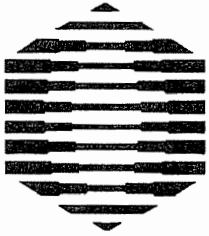
Date \_\_\_\_\_  
Laboratory Group Name 03I-1146-07

**General Set Comments**

Method Reference: NIOSH Manual of Analytical Methods(NMAM), 4th ed., 08/15/94.  
Results are not blank-corrected.  
Results cannot be reported in mg/m<sup>3</sup> or ppm for samples with no air volume.  
Field sample 03I16335 was not submitted by the client.

**General Lab Comments**

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



# DATA CHEM

LABORATORIES, INC.

## ANALYTICAL REQUEST FORM

1.  REGULAR Status 03I-1146-06

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_ DATE \_\_\_\_\_

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 5/2/03 Purchase Order No. \_\_\_\_\_

3. Company Name 3007 ALLEN HAMILTON DCL Project Manager Rand Potter

Address 5299 DTC BLVD., STE 840

GREENWOOD VILLAGE, CO 80111

5. Sample Collection

Person to Contact STEVE COFFE Sampling Site AERC, MELBOURNE

Industrial Process DIC DEVICE

Telephone (303) 221-7559 Date of Collection 4/29/03

Fax Telephone (303) 694-7367 Time Collected \_\_\_\_\_

E-mail Address COFFE STEPHEN @ BAH.COM Date of Shipment 5/2/03

Billing Address (if different) REFER TO CONTRACT 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**
<u>03I16295</u>	<u>3705-B-A/29-01</u>	<u>HYDRAR</u>	<u>61.2 l</u>	<u>NIOSH 6009</u>	<u>2</u>
<u>296</u>	<u>3705-B-7/29-031</u>		<u>64.8 l</u>		
<u>297</u>	<u>3705-D-A-7/29 050</u>		<u>25.8 l</u>		
<u>298</u>	<u>-070</u>		<u>24.2 l</u>		
<u>299</u>	<u>-090</u>		<u>24.9 l</u>		
<u>300</u>	<u>-110</u>		<u>25.1 l</u>		
<u>01</u>	<u>-130</u>		<u>3.0 l</u>		
<u>02</u>	<u>-150</u>		<u>5.1 l</u>		
<u>03</u>	<u>-170</u>		<u>104.9 l</u>		
<u>04</u>	<u>-190</u>		<u>106.4 l</u>		
<u>05</u>	<u>-210</u>		<u>109.2 l</u>		
<u>06</u>	<u>-230</u>		<u>1.01 l</u>		
<u>07</u>	<u>-250</u>		<u>1.01 l</u>		
<u>08</u>	<u>FIELD BLANK 4/290</u>				
<u>09</u>	<u>FIELD BLANK 4/290</u>				

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

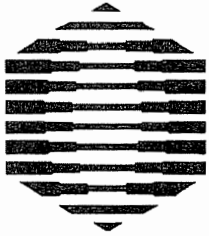
\*\* 1. mg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. \_\_\_\_\_ (other) Please indicate one or more units in the column entitled Units\*\*

Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

### 7. Chain of Custody (Optional)

Relinquished by <u>Steve Coffe</u>	Date/Time <u>5/2/03 1310</u>
Received by <u>Rand Potter</u>	Date/Time <u>5/5/03</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>5/15/03 (RA)</u>
Received by _____	Date/Time _____



# DATA CHEM

LABORATORIES, INC.

## ANALYTICAL REQUEST FORM

1.  REGULAR Status

03I-1146-00

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_ DATE \_\_\_\_\_

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 5/2/03 Purchase Order No. \_\_\_\_\_  
 3. Company Name BOBZ ALLEN HAMILTON  
 Address 5299 DTC BLVD, STE 840  
GREENWOOD VILLAGE, CO 80111  
 Person to Contact STEVE COFFEE  
 Telephone (303) 221-7559  
 Fax Telephone (303) 694-7367  
 E-mail Address COFFEE-STEPHEN@BAM.COM  
 Billing Address (if different) REFER TO CONTRACT

4. Quote No. \_\_\_\_\_  
 DCL Project Manager Rand Potter  
 5. Sample Collection  
 Sampling Site AERC MELBOURNE  
 Industrial Process DTC DEVICE  
 Date of Collection 4/30/03  
 Time Collected \_\_\_\_\_  
 Date of Shipment 5/2/03  
 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**
03I16310	3705-A-A-4/30 ZP	HYDRAL	22.3 l	NAM 6009	2
11	-29		12.5 l		
12	-31		12.4 l		
13	33		22.8 l		
14	35		22.8 l		
15	37		2.98 l		
16	39		4.22 l		
17	41		2.98 l		
18	43		2.98 l		
19	45		0.99 l		
20	47		0.99 l		
21	49		150.6 l		
22	51		149.1 l		
23	53		154.1 l		
24	55		18.4 l		
25	57		18.1 l		
26	59		3.07 l		

\* 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<sup>3</sup> 3. ppm 4. % 5. \_\_\_\_\_ (other) Please indicate one or more units in the column entitled Units\*\*

Comments 2 FIELD BLANKS 27 1 28 4/30 HYRAL NAM 6009 2

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

7. Chain of Custody (Optional)

Relinquished by <u>Step D. Coffe</u>	Date/Time <u>5/2/03 1310</u>
Received by <u>Rand Potter</u>	Date/Time <u>5/5</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>5/5</u>
Received by _____	Date/Time _____