



**OHM Remediation
Services Corp.**
A Member of The IT Group

605/SW6443
M60050.003197
MCAS EL TORO
SSIC NO. 5090.3

February 23 , 1999

Ms. Bozier H. Demaree, Code 02R.BD
Contracting Officer
Naval Facilities Engineering Command
Southwest Division
1220 Pacific Highway
San Diego, CA 92132-5187

Attention: Ms. Lynn Hornecker, 5BME.LMH

**Subject: Transmittal of SVE Data For SVE5 and SVE12 Pilot Tests
Contract N68711-93-D-1459, Delivery Order 065,
Removal and Remedial Actions at IRP Sites, MCAS El Toro, California**

Dear Ms. Hornecker:

Attached is a copy of the data from the March 1998 pilot test at 24SVE5 and December 1997 data from the pilot test at 24SVE12. This data is the material which was requested by Pat Brooks to complete his work on the subject. Because I was not certain if you received this material previously (since Pat was not able to find his copy) I am sending this package to you as well.

A copy has been sent directly to Pat Brooks to complete his data set on the pilot tests.

If you have any questions or need additional copies of the data, please let me know.

Sincerely,

William Sedlak
Sr. Project Manager

cc: Lucreatria Holloway, SWDIV, COTR (1C/1E)
Pat Brooks, Bechtel National, Inc. (1C/1E)
OHM PMO File (1C/1E)
Project File, Correspondence B.01



**OHM Remediation
Services Corp.**

MEMO

a member of



2031 Main Street, Irvine, Ca 92714

TO: Bill Sedlak

FROM: Fran Torres

DATE: 22 February 1999

CC:

RE: Data requested for SVE-5 and SVE-12

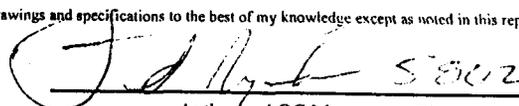
Bill

Attached is the field data, CQC Reports, and analytical data you requested for wells SVE-5 and SVE-12 which were tested during 1997 and 1998.

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/10/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals I have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			<p>Project No. 18708 Sequence No.: #202</p> <p>The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues</p>
I N I T I A L	Preliminary Work Was Done Correctly	Y	
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	
	Work Complies With Contracts As Approved In Initial Phase	Y	
F O L L O W U P	<p>Site 24 SVE Pilot Test:</p> <p>The SVE system and carbon cannister (6) were relocated to Bldg 315. The SVE system electrical was hard wired to Bldg 315 junction box. The system startup commenced at approximately 0900. The system vacuum was tuned and startup sampling began at approximately 1000. Additional vapor samples were collected at 1400 and relinquished to Quanterra on a COC.</p> <p>The removal of DRMO equipment is in process.</p>		
	0		
	<p>24SVE- 5 Morning Test Data: Time : 1015</p> <p>Well vacuum = 90" w.c. Flowrate = 32 scfm Influent PID Reading = nr ppm Influent FID Reading = nr ppm Time : 1030</p> <p>Well vacuum = 60" w.c. Flowrate = 28 scfm Influent PID Reading = nr ppm Influent FID Reading = nr ppm</p>	<p>24SVE- 5 Afternoon Test Data: Time : 1430</p> <p>Well vacuum = 25" w.c. Flowrate = 30 scfm Influent PID Reading = nr ppm Influent FID Reading = nr ppm</p>	
	<p>Rework Items Identified Today (Not Corrected by Close of Business)</p>		<p>Rework Items Corrected Today (From Rework Items List)</p> <p style="text-align: center;">N/A</p>
	<p>Remarks: Carbon cannister #1 & #2 are stored at Site 24 in preparation for sampling and profiling (PureEffect).</p>		
	<p>On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report</p>		
	 _____ Authorized QC Manager At Site		3/11/98 _____ Date
	<h2 style="margin: 0;">GOVERNMENT QUALITY ASSURANCE REPORT</h2>		
	<p>Quality Assurance Representative's Remarks and/or Exception to the Report</p>		
	_____ Government Quality Assurance Representative		_____ Date



Proj. No.	Client	Location		Subject		
Preparer's Initials	Date	Reviewer's Initials	Date	Approver's Initials	Date	

90" VAC
32 SCFM } AT Well 1015

60"
28 } AT well 1030

25" we 1430

30 SCFM

5" Hg. SVE suction VAC

9" Hg. Blower VAC

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/11/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A
	The Submittals Have Been Approved	Y
	Materials Comply With Approved Submittals	Y
	Materials Are Stored Properly	Y
	Preliminary Work Was Done Correctly	Y
	Testing Plan Has Been Reviewed	Y
	Work Method and Schedule Discussed	Y

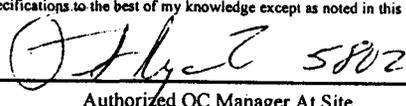
I N I T I A L	Y N/A Y N/A Y	Test Performed and Who Performed Test
Preliminary Work Was Done Correctly	Y	N/A
Sample Has Been Prepared (Approved)	N/A	
Workmanship is Satisfactory	Y	
Test Results are Acceptable	N/A	
Work is in Compliance With the Contract	Y	
Work Complies With Contracts As Approved In Initial Phase	Y	

F O L L O W - U P	Y	0										
<p>Site 24 SVE Pilot Test:</p> <p>Conducted testing at SVE-5 for vacuum and flowrate. Ambient temperature recorded at 88F PID readings were recorded at the effluent of carbon vessels</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">CAN I.D.</td> <td style="width: 50%;">PID Reading</td> </tr> <tr> <td>DO75-203</td> <td>PID= 0 ppm</td> </tr> <tr> <td>DO75-204</td> <td>PID= 0 ppm</td> </tr> <tr> <td>DO75-205</td> <td>PID= 0 ppm</td> </tr> <tr> <td>DO75-206</td> <td>PID= 0 ppm</td> </tr> </table>	CAN I.D.	PID Reading	DO75-203	PID= 0 ppm	DO75-204	PID= 0 ppm	DO75-205	PID= 0 ppm	DO75-206	PID= 0 ppm	Y	<p>24SVE-5 Morning Test Data: Time = 0920 Wellhead Vacuum = 5 in. Hg Line Temperature = 73.7 F</p> <p>Flow Rate = 34 scfm Blower Exit Temp. = F Influent PID Reading = 3.6 ppm Influent FID Reading = nr ppm</p> <p>24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F</p> <p>Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm</p>
CAN I.D.	PID Reading											
DO75-203	PID= 0 ppm											
DO75-204	PID= 0 ppm											
DO75-205	PID= 0 ppm											
DO75-206	PID= 0 ppm											

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report



 Authorized QC Manager At Site

3/12/98

 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Government Quality Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative

 Date

CONTRACTOR QUALITY CONTROL REPORT

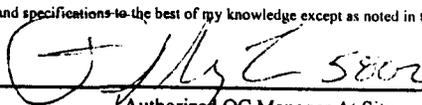
Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/12/98

PHASE	Y - YES, N - NO (SEE REMARKS) N/A - NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT		
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	Project No. 18708 Sequence No.: #204 The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues	
	The Submittals Have Been Approved	Y		
	Materials Comply With Approved Submittals	Y		
	Materials Are Stored Properly	Y		
	Preliminary Work Was Done Correctly	Y		
	Testing Plan Has Been Reviewed	Y		
	Work Method and Schedule Discussed	Y		
	I N I T I A L	Preliminary Work Was Done Correctly		Y
Sample Has Been Prepared (Approved)		N/A		
Workmanship is Satisfactory		Y		
Test Results are Acceptable		N/A		
Work is in Compliance With the Contract		Y		
F O L L O W - U P	Work Complies With Contracts As Approved In Initial Phase	Y	0 24SVE-5 Morning Test Data: Time = 0815 Wellhead Vacuum = 5 in. Hg Line Temperature = 61.7 F Flow Rate = 35 scfm Blower Exit Temp. = F Influent PID Reading = 296 ppm Influent FID Reading = 0 ppm Influent LEL Reading = 4 %	
	Site 24 SVE Pilot Test: Conducted testing at SVE-5 for vacuum and flowrate. Ambient temperature recorded at 62.4F The removal of spent carbon for cannister DO65-201/202 was coordinated and scheduled for 3/13/98. Virgin carbon will be installed in vessels DO65-201/202 on 3/13/98. The site was cleared of trash and debris.			24SVE- 5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm
Rework Items Identified Today (Not Corrected by Close of Business)		Rework Items Corrected Today (From Rework Items List)		
		N/A		

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report



 Authorized QC Manager At Site

3/12/98

 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Quality Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative

 Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/13/98

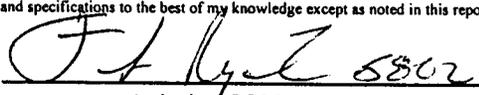
PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A
	The Submittals Have Been Approved	Y
	Materials Comply With Approved Submittals	Y
	Materials Are Stored Properly	Y
	Preliminary Work Was Done Correctly	Y
	Testing Plan Has Been Reviewed	Y
	Work Method and Schedule Discussed	Y

I N I T I A L	Preliminary Work Was Done Correctly	Y	Test Performed and Who Performed Test N/A
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	
	Work Complies With Contracts As Approved In Initial Phase	Y	

F O L L O W - U P	Site 24 SVE Pilot Test: No data was collected for SVE-5 today. The spent carbon was removed from cannister DO65/111-202 and was placed in bags. The bags of carbon were stored temporarily at Site 24. PureEffect replaced the spent carbon with virgin carbon in vessel DO65/111-202. Three carbon samples were collected by OHM to represent the top, middle and bottom of the carbon cannister. The lab was instructed to composite the samples and provide a 5 day turnaround for analytical results. The site was cleared of trash/ debris and secured.	24SVE-5 Morning Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = ppm Influent FID Reading = 0 ppm Influent LEL Reading = %	24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm
	Rework Items Identified Today (Not Corrected by Close of Business)		Rework Items Corrected Today (From Rework Items List) N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/16/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Government Quality Assurance Representative's Remarks and/or Exception to the Report

Government Quality Assurance Representative

Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/16/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			Project No. 18708 Sequence No.: #206
			The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues

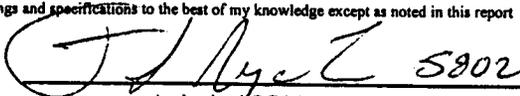
I N I T I A L	Y N/A Y N/A Y	Test Performed and Who Performed Test
Preliminary Work Was Done Correctly	Y	N/A
Sample Has Been Prepared (Approved)	N/A	
Workmanship is Satisfactory	Y	
Test Results are Acceptable	N/A	
Work is in Compliance With the Contract	Y	
Work Complies With Contracts As Approved In Initial Phase	Y	

F O L L O W - U P	Y	0		
Work Complies With Contracts As Approved In Initial Phase	Y	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> 24SVE-5 Morning Test Data: Time = 10:00 Wellhead Vacuum = 15 in. w.c. Line Temperature = 59.6 F Flow Rate = 36 scfm Blower Exit Temp. = F Influent PID Reading = 6.2 ppm Influent FID Reading = 52.60 pp </td> <td style="width: 50%; border: none;"> 24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm </td> </tr> </table>	24SVE-5 Morning Test Data: Time = 10:00 Wellhead Vacuum = 15 in. w.c. Line Temperature = 59.6 F Flow Rate = 36 scfm Blower Exit Temp. = F Influent PID Reading = 6.2 ppm Influent FID Reading = 52.60 pp	24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm
24SVE-5 Morning Test Data: Time = 10:00 Wellhead Vacuum = 15 in. w.c. Line Temperature = 59.6 F Flow Rate = 36 scfm Blower Exit Temp. = F Influent PID Reading = 6.2 ppm Influent FID Reading = 52.60 pp	24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm			
Site 24 SVE Pilot Test: Test continued for vacuum and flowrate at SVE-5. The system has remained operational for 1 week at this well. The effluent and influent vapors will be sampled tomorrow 3/17/98. Ambient temperature was recorded at 55.2 F One full bag and one partial bag of carbon is stored temporarily at Site 24. PureEffect will utilize existing profiles with Carbon Sales & Service for non-hazardous carbon and Envirotrol for any carbon characterized as hazardous. The system was operational upon departure. The site was cleared of trash/ debris and secured.				

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/17/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Government Quality Assurance Representative's Remarks and/or Exception to the Report

Government Quality Assurance Representative Date

OHM
SYSTEM MONITORING LOG

Date: 03-16-98

Job # _____ D.O. # _____ W.B.S. _____ Site: 24
 Name: _____ Arrival Time: _____ Departure Time: _____

System Operational Upon Arrival: Yes No

If no explain failure:

Propane: _____ Electrical Meter: _____

vacuum?
Leaks No Yes

SVE hrs: NA

If Yes Describe Leak:

Was leak repaired?

Control Temp: 55.2°F ambient Operating Temp: 59.6°F in/out L.E.L. Display:

System Well #	FID		PID		L.E.L.		VAC	FLOW
	Infl. ppm	Eff. ppm	Infl. ppm	Eff. ppm	L.E.L.%	O2 %	" H ₂ O Hg	SCFM
24SVE5	52.6 ppm	0.0 ppm	6.2 ppm	0.0 ppm			4.8" Hg	36 scfm
	"H ₂ O							
24SVE5A	0.9 "wL							
24SVE11A	0.06 "wL							
24SVE11	*0.06 "wL							
24SVE10	3.7 "wL							
24SVE09	0.09 "wL							
24SVE7A	0.04 "wL							
* Positive pressure								

Dilution Air Open: 5% or less Any System Maintenance? Yes No

Explain Maintenance:

Refer below.

Any System Changes? Yes No

Explain System Changes:

*Δ Capsule out for 0-50 magnetic.
15" of H₂O at time of replacement*

Comments:

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/17/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			<p>Project No. 18708 Sequence No.: #207</p> <p>The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues</p>

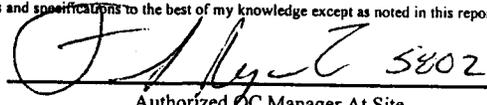
I N I T I A L	Preliminary Work Was Done Correctly	Y	<p>Test Performed and Who Performed Test</p> <p>3 vapor samples were collected by M. Banuelos.</p>
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	

F O L L O W -	Work Complies With Contracts As Approved In Initial Phase	Y	0	
	<p>Site 24 SVE Pilot Test: Test continued for vacuum and flowrate at SVE-5. The system has remained operational for 1 week at this well. Vapor samples were collected. Ambient temperature was recorded at 69.5 F The vacuum gage was changed to verify operability. The rotometer was also changed from 0-100 scfm to 10-250 scfm. One full bag and one partial bag of carbon is stored temporarily at Site 24. Analytical results are anticipated on Friday, 3/20/98. The system was operational upon departure. The site was secured prior to departure.</p>		<p>24SVE-5 Morning Test Data: Time = 0900 Wellhead Vacuum = 80 in. w.c. Line Temperature = 64.2 F Flow Rate = 110 scfm Blower Exit Temp. = F Influent PID Reading = 0 ppm Influent FID Reading = 65.9 ppm</p>	<p>24SVE-5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = ppm</p>

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


3/18/98

Authorized QC Manager At Site Date

GOVERNMENT QUALITY ASSURANCE REPORT

Government Quality Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative Date

OHRM
SYSTEM MONITORING LOG

Date: 03/17/98

Job # _____ D.O. # 65 W.B.S. _____ Site: 24
Name: _____ Arrival Time: 0900 Departure Time: _____

System Operational Upon Arrival: Yes No

If no explain failure:

Propane: NA Electrical Meter: NA Leaks: No Yes

SUE HS: NA

If Yes Describe Leak:

Was leak repaired?

Control Temp: 69.5°F
ambient

Operating Temp 64.2°F ⁱⁿ _{out}

LEL Display: LEL Not functioning proper
open air 3% LEL 19.5% O₂

System	FID		PID		LEL		VAC	FLOW
	Infl. ppm	Eff. ppm	Infl. ppm	Eff. ppm	LEL %	O ₂ %	" H ₂ O Hg	SCFM
Well #					<u>NA</u>	<u>NA</u>		
<u>24SVE5</u>	<u>65.9 ppm</u>	<u>0.0 ppm</u>	<u>0.0 ppm</u>	<u>0.0 ppm</u>			<u>4.8" Hg</u>	<u>38 scfm</u>
<u>Flow meter and magnetelic changed @ 0910</u>					<u>Vacuum "H₂O</u>			
<u>Results @ 0915</u>					<u>80" H₂O</u>		<u>9.2" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
					<u>80" H₂O</u>		<u>9.1" Hg</u>	<u>110 scfm</u>
<u>Radius of influence</u>								
<u>24SVE5A 1.75" w.c.</u>								
<u>24SVE11</u>								
<u>24SVE11A</u>								
<u>24SVE1D</u>								
<u>24SVE9</u>								
<u>24SVE9A</u>								

Dilution Air Open: 25% Any System Maintenance? Yes No

Explain Maintenance:

Any System Changes? Yes No

Explain System Changes:

D flowmeter and magnetelic to 0-200scfm and 0-100" w.c.

Comments:

T.D. = 56

SVE RETEST		Well 24SVE5A	56.5 41.5/56.5	Remote Wells			24SVE5	24SVE10	24SVE9	24SVE8A	24SVE11	24SVE11A	Denotes positive Reading		
		Casing dia. 2"	Applied Vacuum	VAC Pump	Casing Info.			105 68/68	109 77/110	111 81/111	85 55/85	109 79/109	73 43/73		
Date	Time	Well No.	n. W.C.	n. Hg.	Flowrate	PID In/Eff	Temp.	n. W.C.	n. W.C.	n. W.C.	n. W.C.	n. W.C.	n. W.C.	Comments	
		SVE5A												Initial remote well reading	
3-17-98	1800	"	80 ²⁰	8.2	3.8			.45"	NA	.20"	.10"	.10"	.20"		
	1810	"	80 ²⁰	8.2	3.4			.45"	NA	.20"	.10"	.20"	.10"		
	1820	"	80 ²⁰	8.2	3.4			.45"	NA	.21"	.10"	.20"	.10"		
	1830	"	80 ²⁰	8.2	3.8			.45"	NA	.23"	.10"	.20"	.10"		
	1840	"	80 ²⁰	8.2	3.5			.45"	NA	.24"	.10"	.20"	.10"		
	1850	"	80 ²⁰	8.2	3.7			.45"	NA	.25"	.10"	.20"	.10"		
	1900	"	90 ²⁰	9	5.7			.45"	NA	.25"	.10"	.20"	.10"		
	1910	"	90 ²⁰	9	3.3			.45"	NA	.25"	.10"	.18"	.10"		
	1920	"	90 ²⁰	9	3.2			.43"	NA	.25"	.10"	.18"	.12"		
	1930	"	90 ²⁰	9	3.1			.41"	NA	.25"	.10"	.15"	.15"		
	1940	"	90 ²⁰	9	2.8			.40"	NA	.25"	.10"	.16"	.16"		
	1950	"	90 ²⁰	9	2.8			.40"	NA	.20"	.10"	.15"	.20"		
	2000	"	100 ²⁰	9.8	2.5			.45"	NA	.15"	.10"	.18"	.22"		
	2010	"	100 ²⁰	9.6	2.6			.45"	NA	.10"	.10"	.20"	.25"		
	2020	"	100 ²⁰	9.8	2.6			.45"	NA	.05"	.10"	.23"	.25"		
	2030	"	100 ²⁰	9.8	2.5			.45"	NA	.05"	.10"	.25"	.25"		
	2040	"	100 ²⁰	9.8	2.5			.45"	NA	.10"	.10"	.25"	.27"		
	2050	"	100 ²⁰	9.8	2.7			.47"	NA	.15"	.10"	.25"	.25"		
	2060	Max	100 ²⁰	9.8	2.9			.50"	NA	.22"	.10"	.25"	.28"		
	2070	Max	100 ²⁰	9.8	2.8			.53"	NA	.25"	.10"	.25"	.30"		
	2080	Max	100 ²⁰	9.8	2.9			.55"	NA	.25"	.10"	.25"	.31"		
	2130	Max	100 ²⁰	9.8	2.9			.60"	NA	.25"	.10"	.25"	.30"		
	2140	Max	100 ²⁰	9.8	2.9			.62"	NA	.25"	.10"	.25"	.35"		
	2150	Max	100 ²⁰	9.8	3.0			.60"	NA	.25"	.10"	.25"	.30"		
	2200	Max	100 ²⁰	9.8	2.9			.60"	NA	.24"	.10"	.25"	.30"		

TD = 88.10

SV	TEST	Well 24SVE5	68 60/88		Remote Wells				VE5A					Denotes positive Reading
			Applied Vacuum	VAC Pump	Casing Info	PID In/Err	Temp	56.5 41.5/56.5	109 77/110	111 81/111	65 55/85	109 79/109	73 43/73	
Date	Time	Well No.	In. W.C.	In. Hg.	Flowrate			In. W.C.	In. W.C.	In. W.C.	In. W.C.	In. W.C.	In. W.C.	Comments
		SVE5												Initial remote well reading
3-17-98	1300	"	20	5.8	33	0	65	.95"	NA	6"	36"	0	0	
	1310	"	20	5.8	33	0	65	.95"	NA	6"	36"	0	0	
	1320	"	20	5.8	33	0	65	.90"	NA	6"	36"	0	0	
	1330	"	20	5.8	33	0	65	.85"	NA	6"	36"	0	0	
	1340	"	20	5.8	33	0	65	.85"	NA	6"	36"	0	0	
	1350	"	20	5.8	33	0	65	.85"	NA	6"	36"	0	0	
	1400	"	40	6.8	65	0	63	1.10	NA	6"	36"	0	0	
	1410	"	40	6.8	65	0	65	1.15	NA	6"	36"	0	0	
	1420	"	40	6.8	65	0	65	1.20	NA	6"	36"	0	0	
	1430	"	40	6.8	65	0	65	1.20	NA	6"	36"	0	0.25	
	1440	"	40	6.8	65	0	65	1.20	NA	6"	36"	0	0.25	
	1450	"	40	6.8	65	0	65	1.20	NA	6"	36"	0	0.25	
	1500	"	60	8	100	0	67	1.45	NA	6"	36"	0	0.20	
	1510	"	60	8	100	0	67	1.50	NA	6"	36"	0	0.20	
	1520	"	60	8	100	0	67	1.55	NA	6"	36"	0	0.20	
	1530	"	60	8	100	0	67	1.60	NA	6"	36"	0	0.20	
	1540	"	60	8	100	0	67	1.60	NA	6"	36"	0	0.20	
	1550	"	60	8	100	0	67	1.60	NA	6"	36"	0	0.20	
	1600	Max.	138	9.8	145	0	64	1.75	NA	6"	36"	.10	0.20	
	1610	Max.	138	9.8	148	0	64	1.80	NA	6"	36"	.10	0.20	
	1620	Max.	138	9.8	150	0	64	1.90	NA	6"	36"	.10	0.20	
	1630	Max.	138	9.8	150	0	64	1.95	NA	6"	36"	.10	0.20	
	1640	Max.	138	9.8	150	0	64	2.0	NA	6"	36"	.10	0.20	
	1650	Max.	138	9.8	152	0	64	2.0	NA	8"	4"	.10	0.20	
	1700	Max.	138	9.5	155	0	64	2.0	NA	10"	5"	.10	0.20	

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/18/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A
	The Submittals Have Been Approved	Y
	Materials Comply With Approved Submittals	Y
	Materials Are Stored Properly	Y
	Preliminary Work Was Done Correctly	Y
	Testing Plan Has Been Reviewed	Y
	Work Method and Schedule Discussed	Y

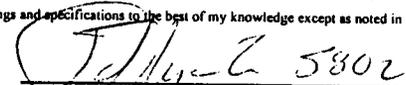
I N I T I A L	Preliminary Work Was Done Correctly	Y	<p>Test Performed and Who Performed Test</p> <p>3 vapor samples were collected by M. Banuelos.</p>
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	

F O L L O W - U P	Work Complies With Contracts As Approved In Initial Phase	Y	0
	<p>Site 24 SVE Pilot Test: Test continued for vacuum and flowrate at SVE-5/5A.</p> <p>Ambient temperature was recorded at 69.5 F One full bag and one partial bag of carbon were transported from Site 24 to the storage area at the ERP.</p> <p>The system was operational upon departure.</p>		<p>24SVE-5 Morning Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = F Flow Rate = scfm Blower Exit Temp. = nr F Influent PID Reading = ppm Influent FID Reading = ppm</p> <p>24SVE- 5A Afternoon Test Data: Time = 1700 Wellhead Vacuum = 80 in. w.c. Line Temperature = F System Vacuum = 9.2 in. Hg Flow Rate = 165 scfm Blower Exit Temp. = 150 F Influent PID Reading = nr ppm Influent FID Reading = nr ppm</p>

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/19/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Government Quality Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative

 Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/19/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DELINEABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			Project No. 18708 Sequence No.: #214 The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues

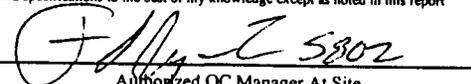
I N I T I A L	Preliminary Work Was Done Correctly	Y	Test Performed and Who Performed Test
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	

F O L L O W - U P	Work Complies With Contracts As Approved In Initial Phase	Y		
	Site 24 SVE Pilot Test: The SVE system was operational on SVE-5A upon arrival; Ambient temperature was recorded at 68.7 F The SVE system was shutdown from 0945 until 1020 to retape/silicon the pipe and instrument fittings. The SVE system and associated piping from well SVE-5 were checked for leaks. The system was restarted on SVE-5 at 1045 and data was collected for SVE-5. Vacuum response data was collected for monitoring wells (SVE-5A, SVE-10, SVE-9/9A, SVE-11/11A) for approximately 4 hours. (See attached data sheet) The system was operational at SVE-5 upon departure.		24SVE-5A Morning Test Data: Time = 0845 Wellhead Vacuum = 77 in. w.c. Line Temperature = 63.5 F Flow Rate = 170 scfm Blower Exit Temp. = nr F Influent PID Reading = 6.5 ppm Influent FID Reading = ppm	24SVE-5 Afternoon Test Data: See attached

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/20/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT	
y Assurance Representative's Remarks and/or Exception to the Report	
Government Quality Assurance Representative	Date

SVE	EST	Well 24SVE5	88 68/88	Casing dia. 2"	Applied Vacuum	VAC Pump	Remote Wells	VE5A	24SVE10	24SVE9	24SVE8A	24SVE11	24SV11A	* Denotes positive Reading
Total depth	88.30	Water depth	88.10				Casing info.	56.5 41.5/56.5	109 77/110	111 81/111	85 55/85	109 79/109	73 43/73	
Date	Time	Well No.	In. W.C.	In. Hg.	Flowrate	PID In/Out	Temp.	In. W.C.	In. W.C.	In. W.C.	In. W.C.	In. W.C.	In. W.C.	Comments
03-19-98	10:00 Hours	SVE5	-	-	-	-	-	0.25"	3.6"	0.15"	0.07"	*0.07"	0.07"	Initial remote well reading
	10:30 Hours		20	4.6"	0.5cfm		78.8°							
	11:00 Hours		20	5.2"	0.5cfm		79.2	0.25"	3.6"	0.12"	0.06"	*0.06"	0.06"	
	11:20 Hours		20	5.1"	0.5cfm		79.7							
	11:30 Hours		20	5.0"	0.5cfm		80.6							
	11:40 Hours		20	5.0"	0.5cfm		80.3	0.225"	3.6"	0.09"	0.04"	*0.04"	0.00"	
	11:50 Hours		20	5.0"	0.5cfm	C	77.6							Pid in/out oppm/oppm
	12:00 Hours		40	6.2"	3.5cfm		77.1							
	12:10 Hours		40	6.2"	3.5cfm		77.7	0.22"	3.55"	0.03"	0.01"	*0.04"	*0.04"	
	12:20 Hours		40	6.2"	3.5cfm		77.6							
	12:30 Hours		40	6.2"	3.5cfm		76.4							
	12:40 Hours		40	6.2"	3.5cfm		76.5	0.215"	3.55"	*0.025"	*0.02"	*0.11"	*0.04"	double checked to verify Δ
	12:50 Hours		40	6.2"	3.5cfm	C	77.4					*0.14"	*0.05"	Pid in/out oppm/oppm
	13:00 Hours		60	7.2"	6.5cfm		76.6	0.19"	3.6"	*0.09"	*0.04"	*0.14"	*0.05"	readings taken at 13:10 hours.
	13:10 Hours		60	7.2"	6.5cfm		76.4							
	13:20 Hours		60	7.2"	6.5cfm		76.4							
	13:30 Hours		60	7.3"	6.5cfm		76.7							
	13:40 Hours		60	7.3"	6.5cfm		77.1	0.19"	OP 3.6"	*0.07"	*0.04"	*0.05"	*0.05"	double checked to verify Δ
	13:50 Hours		60	7.3"	6.5cfm	C	76.6							Pid in/out oppm/oppm
	14:00 Hours	Max.	110" WC	10"	12.5cfm		75.9	OP 0.25"						
	14:10 Hours	Max.	108" WC	10"	12.5cfm		75.8	0.23	3.6"	*0.06"	*0.03"	*0.03"	*0.15"	
	14:20 Hours	Max.	105" WC	9.9"	12.5cfm		77.0							
	14:30 Hours	Max.	106" WC	9.9"	12.5cfm		76.8							
	14:40 Hours	Max.	106" WC	10.0"	12.5cfm		76.8							
	14:50 Hours	Max.	103" WC	9.9"	14.5cfm		76.8	0.4"	3.7"	0.01"	*0.01"	*0.04"	*0.08"	Double checked to verify Δ
	15:00 Hours	Max.	100" WC	9.9"	14.5cfm	C	76.8							Gino, do you have a mag. page 0-150 4207 ✓ End of Test Pid in/out oppm/oppm

* Denotes positive pressure C- see comments

Wind may affect magnetic

Double checked to verify Δ



By _____ Date 3/9/98 Subject DO 65 / 18708 Sheet No. _____ of _____

Chkd. By _____ Date _____ Proj. No. _____

0800 Δ magnetic 0100 to 0-150 cathodic reposed fittings ✓ for leaks

0845 Temp. ambient - 68.7°F Temp. well - 63.5°F

0850 Flow scfm - 170 9.2" Hg applied

0850 Well vacuum - 77" W.C.

_____ Pid influent Pid effluent

SVE
SA

0855 1st reading - 2000 ppm? 0.0 ppm

0915 2nd reading - 1681 ppm? < used new PID

0935 3rd reading - 6.5 ppm

0945 shutdown to silicon fittings, switch to well 5 and take base radius of influence measurements

1020 start up to v for leaks

1035 no leaks tested

			WELL	
3/17	TUES	1800	SVE SA.	13 HRS
		SVE ON ALL NITE		
3/18	WED	00730	SVE SA	26 HRS
		0830	SOUNDING WELLS	
		ON ALL NITE		
3/19	THURS	035045	SVE SA	
		1045	SVES	
		0945		
3/20	FRI		SVE S	

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/20/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			Project No. 18708
			Sequence No.: #215
		The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues	

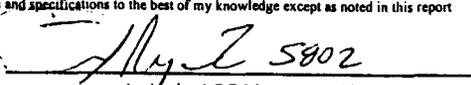
I N I T I A L	Y N/A Y N/A Y	Test Performed and Who Performed Test
Preliminary Work Was Done Correctly	Y	
Sample Has Been Prepared (Approved)	N/A	
Workmanship is Satisfactory	Y	
Test Results are Acceptable	N/A	
Work is in Compliance With the Contract	Y	

F O L L O W - U P	Y	24SVE-5 Morning Test Data: 24SVE-5 Afternoon Test Data:
Work Complies With Contracts As Approved In Initial Phase	Y	Time = 1400 Wellhead Vacuum = 100 in. w.c. Line Temperature = nr F
Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival; The site was secured and reviewed for possible FOD/debris. The system was operational at SVE-5 upon departure. Russel Crane arrived on site at 1300 to review the DRMO equipment scheduled for 3/26/98. Analytical results of the carbon samples collected from carbon vessels DO65/111-201 and DO65/111-202 on 3/13/98 were received. Results indicated TCE concentration of 3700ppm for DO65/111-201. (2040 ppm = State Total limit)		Flow Rate = 11 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = ppm

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/23/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT

Quality Assurance Representative's Remarks and/or Exception to the Report

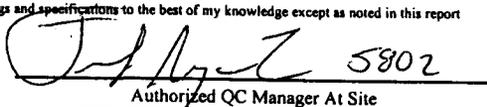
 Government Quality Assurance Representative

 Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/23/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT																			
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	Project No. 18708 Sequence No.: #216 The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues																		
	The Submittals Have Been Approved	Y																			
	Materials Comply With Approved Submittals	Y																			
	Materials Are Stored Properly	Y																			
	Preliminary Work Was Done Correctly	Y																			
	Testing Plan Has Been Reviewed	Y																			
	Work Method and Schedule Discussed	Y																			
	I N I T I A L	Preliminary Work Was Done Correctly		Y	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 40%; text-align: center;">Test Performed and Who Performed Test</th> </tr> </thead> <tbody> <tr> <td>Sample Has Been Prepared (Approved)</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Workmanship is Satisfactory</td> <td style="text-align: center;">Y</td> </tr> <tr> <td>Test Results are Acceptable</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Work is in Compliance With the Contract</td> <td style="text-align: center;">Y</td> </tr> </tbody> </table>		Test Performed and Who Performed Test	Sample Has Been Prepared (Approved)	N/A	Workmanship is Satisfactory	Y	Test Results are Acceptable	N/A	Work is in Compliance With the Contract	Y						
				Test Performed and Who Performed Test																	
Sample Has Been Prepared (Approved)		N/A																			
Workmanship is Satisfactory		Y																			
Test Results are Acceptable		N/A																			
Work is in Compliance With the Contract	Y																				
Work Complies With Contracts As Approved In Initial Phase	Y																				
F O L L O W - U P	Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival; The system was checked throughout the day and data was collected at the beginning and end of the day. Carbon samples of vessel DO65/111-201 were submitted for TCLP analysis on 3/20/98. The system was operational at SVE-5 upon departure at 1555.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left;">24SVE-5 Morning Test Data:</th> <th style="width: 50%; text-align: left;">24SVE-5 Afternoon Test Data:</th> </tr> </thead> <tbody> <tr> <td>Time = 0715</td> <td>Time = 1545</td> </tr> <tr> <td>Wellhead Vacuum = 100 in. w.c.</td> <td>Wellhead Vacuum = 100 in. w.c.</td> </tr> <tr> <td>Line Temperature = nr F</td> <td>Line Temperature = nr F</td> </tr> <tr> <td>Flow Rate = 10 scfm</td> <td>Flow Rate = 8 scfm</td> </tr> <tr> <td>Blower Exit Temp. = nr F</td> <td>Blower Exit Temp. = 150 F</td> </tr> <tr> <td>Influent PID Reading = nr ppm</td> <td>Influent PID Reading = nr ppm</td> </tr> <tr> <td>Influent FID Reading = ppm</td> <td>Influent FID Reading = 3.2 ppm</td> </tr> <tr> <td>System Vacuum = 10 in. Hg</td> <td>System Vacuum = 9.5 in. Hg</td> </tr> </tbody> </table>	24SVE-5 Morning Test Data:	24SVE-5 Afternoon Test Data:	Time = 0715	Time = 1545	Wellhead Vacuum = 100 in. w.c.	Wellhead Vacuum = 100 in. w.c.	Line Temperature = nr F	Line Temperature = nr F	Flow Rate = 10 scfm	Flow Rate = 8 scfm	Blower Exit Temp. = nr F	Blower Exit Temp. = 150 F	Influent PID Reading = nr ppm	Influent PID Reading = nr ppm	Influent FID Reading = ppm	Influent FID Reading = 3.2 ppm	System Vacuum = 10 in. Hg	System Vacuum = 9.5 in. Hg
	24SVE-5 Morning Test Data:	24SVE-5 Afternoon Test Data:																			
	Time = 0715	Time = 1545																			
Wellhead Vacuum = 100 in. w.c.	Wellhead Vacuum = 100 in. w.c.																				
Line Temperature = nr F	Line Temperature = nr F																				
Flow Rate = 10 scfm	Flow Rate = 8 scfm																				
Blower Exit Temp. = nr F	Blower Exit Temp. = 150 F																				
Influent PID Reading = nr ppm	Influent PID Reading = nr ppm																				
Influent FID Reading = ppm	Influent FID Reading = 3.2 ppm																				
System Vacuum = 10 in. Hg	System Vacuum = 9.5 in. Hg																				
Rework Items Identified Today (Not Corrected by Close of Business)		Rework Items Corrected Today (From Rework Items List) N/A																			
Remarks:																					
On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report																					
 Authorized QC Manager At Site			3/24/98 Date																		
GOVERNMENT QUALITY ASSURANCE REPORT																					
Quality Assurance Representative's Remarks and/or Exception to the Report																					
_____ Government Quality Assurance Representative			_____ Date																		

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/24/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			Project No. 18708
			Sequence No.: #217
			The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues

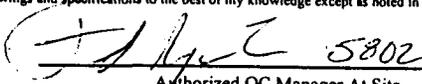
I N I T I A L	Preliminary Work Was Done Correctly	Y	Test Performed and Who Performed Test
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	
	Work Complies With Contracts As Approved In Initial Phase	Y	
			M Banuelos collected vapor samples from the SVE system.

F O L L O W - U P	Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival;	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">24SVE-5 Morning Test Data: Time = 0745 Wellhead Vacuum = 103 in. w.c. Line Temperature = 57.7 F</td> <td style="width: 50%;">24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 105 in. w.c. Line Temperature = nr F</td> </tr> <tr> <td>Flow Rate = 8 scfm Blower Exit Temp. = nr F Influent PID Reading = 11.4 ppm Influent FID Reading = 11.7ppm</td> <td>Flow Rate = 8 scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = nr ppm</td> </tr> <tr> <td>System Vacuum = 9.6 in. Hg</td> <td>System Vacuum = 9.5 in. Hg</td> </tr> </table>	24SVE-5 Morning Test Data: Time = 0745 Wellhead Vacuum = 103 in. w.c. Line Temperature = 57.7 F	24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 105 in. w.c. Line Temperature = nr F	Flow Rate = 8 scfm Blower Exit Temp. = nr F Influent PID Reading = 11.4 ppm Influent FID Reading = 11.7ppm	Flow Rate = 8 scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = nr ppm	System Vacuum = 9.6 in. Hg	System Vacuum = 9.5 in. Hg
	24SVE-5 Morning Test Data: Time = 0745 Wellhead Vacuum = 103 in. w.c. Line Temperature = 57.7 F	24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 105 in. w.c. Line Temperature = nr F						
Flow Rate = 8 scfm Blower Exit Temp. = nr F Influent PID Reading = 11.4 ppm Influent FID Reading = 11.7ppm	Flow Rate = 8 scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = nr ppm							
System Vacuum = 9.6 in. Hg	System Vacuum = 9.5 in. Hg							
The weekly vapor samples were collected from the SVE system. Samples were collected from the influent, effluent and ambient. The system was checked throughout the day and data was collected at the end of the day. The system was operational at SVE-5 upon departure at 1330. The crane and trucking contractors were called to confirm the time/date for removal of equipment within the ERP to DRMO Yard #3.								

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report


 Authorized QC Manager At Site

3/25/98
 Date

GOVERNMENT QUALITY ASSURANCE REPORT

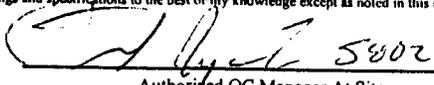
Government Quality Assurance Representative's Remarks and/or Exception to the Report

Government Quality Assurance Representative
Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/25/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	Project No. 18708 The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
	INITIAL		
Preliminary Work Was Done Correctly	Y		
Sample Has Been Prepared (Approved)	N/A		
Workmanship is Satisfactory	Y		
Test Results are Acceptable	N/A		
Work is in Compliance With the Contract	Y		
Work Complies With Contracts As Approved In Initial Phase	Y		
F O L L O W - U P			24SVE-5 Morning Test Data: Time = 0800 Wellhead Vacuum = 105 in. w.c. Line Temperature = nr F Flow Rate = 7 scfm Blower Exit Temp. = nr F Influent PID Reading = 10.1 ppm Influent FID Reading = 10.6 ppm System Vacuum = 9.7 in. Hg
Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival; The system was checked and data was collected. Property transfer of GOP from ERP to DRMO was confirmed for 3/26/98. The SVE system was operational at SVE-5 upon departure at 1100.			24SVE- 5 Afternoon Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = nr F Flow Rate = scfm Blower Exit Temp. = F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = in. Hg
Rework Items Identified Today (Not Corrected by Close of Business)		Rework Items Corrected Today (From Rework Items List) N/A	
Remarks:			
On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report			
 Authorized QC Manager At Site			3/26/98 Date
GOVERNMENT QUALITY ASSURANCE REPORT			
Quality Assurance Representative's Remarks and/or Exception to the Report			
Government Quality Assurance Representative			Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/26/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT	
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A	
	The Submittals Have Been Approved	Y	
	Materials Comply With Approved Submittals	Y	
	Materials Are Stored Properly	Y	
	Preliminary Work Was Done Correctly	Y	
	Testing Plan Has Been Reviewed	Y	
	Work Method and Schedule Discussed	Y	
			<p>Project No. 18708 Sequence No.: #219</p> <p>The Work plan, QAPP (Bechtel) & HSP (OHM) have been reviewed Bechtel is responsible for all technical issues</p>

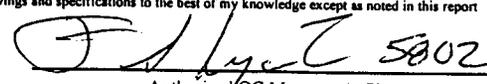
I N I T I A L	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	Test Performed and Who Performed Test
Preliminary Work Was Done Correctly	Y	
Sample Has Been Prepared (Approved)	N/A	
Workmanship is Satisfactory	Y	
Test Results are Acceptable	N/A	
Work is in Compliance With the Contract	Y	

F O L L O W - U P	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	Test Performed and Who Performed Test		
Work Complies With Contracts As Approved In Initial Phase	Y			
<p>ERP Property Transfer: Property (see attached list) transfer from ERP to DRMO started at 0700 after the safety meeting. 2 trucks were mobilized to Bldg 319 at 0815 to expedite the transfer of property. Property was inspected at Bldg 319 and allocated to DRMO Yard #2. Trucks and crane were demobilized at approximately 1200 and property transfer was completed at approximately 1345.</p> <p>Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival; The system was checked and data was collected. The vacuum was reduced to 60" w.c. by Bechtel (at 1315) based upon water level readings measured at well SVE-5. The system was operational at SVE-5 upon departure at 1500.</p>		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>24SVE-5 Morning Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = nr F Flow Rate = scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = in. Hg</p> </td> <td style="width: 50%; border: none;"> <p>24SVE-5 Afternoon Test Data: Time = 1500 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg</p> </td> </tr> </table>	<p>24SVE-5 Morning Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = nr F Flow Rate = scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = in. Hg</p>	<p>24SVE-5 Afternoon Test Data: Time = 1500 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg</p>
<p>24SVE-5 Morning Test Data: Time = Wellhead Vacuum = in. w.c. Line Temperature = nr F Flow Rate = scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = in. Hg</p>	<p>24SVE-5 Afternoon Test Data: Time = 1500 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg</p>			

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report

 5802 3/26/98
 Authorized QC Manager At Site Date

GOVERNMENT QUALITY ASSURANCE REPORT	
Assurance Representative's Remarks and/or Exception to the Report	
Government Quality Assurance Representative	Date

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 03/27/98

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
P R E P A R A T I O N S	The Plans and Specs Have Been Reviewed	N/A
	The Submittals Have Been Approved	Y
	Materials Comply With Approved Submittals	Y
	Materials Are Stored Properly	Y
	Preliminary Work Was Done Correctly	Y
	Testing Plan Has Been Reviewed	Y
	Work Method and Schedule Discussed	Y

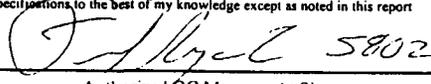
PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
I N I T I A L	Preliminary Work Was Done Correctly	Y
	Sample Has Been Prepared (Approved)	N/A
	Workmanship is Satisfactory	Y
	Test Results are Acceptable	N/A
	Work is in Compliance With the Contract	Y

PHASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT				
F O L L O W - U P	Work Complies With Contracts As Approved In Initial Phase	Y				
	<p>Site 24 SVE Pilot Test: The SVE system was operational on SVE-5 upon arrival at 0700; The system was checked and secured for the forecasted storm. The system data was collected later in the day to reflect system changes in vacuum.</p> <p>The SVE system was operational on SVE-5 upon arrival at 1300; The SVE system was operational at SVE-5 upon departure at 1330. The SVE system is scheduled to shutdown on 3/31/98.</p>					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Test Performed and Who Performed Test</th> </tr> </thead> <tbody> <tr> <td style="width: 50%; vertical-align: top;"> 24SVE-5 Morning Test Data: Time = _____ Wellhead Vacuum = _____ in. w.c. Line Temperature = nr F Flow Rate = _____ scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = _____ in. Hg </td> <td style="width: 50%; vertical-align: top;"> 24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg </td> </tr> </tbody> </table>	Test Performed and Who Performed Test		24SVE-5 Morning Test Data: Time = _____ Wellhead Vacuum = _____ in. w.c. Line Temperature = nr F Flow Rate = _____ scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = _____ in. Hg	24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg
Test Performed and Who Performed Test						
24SVE-5 Morning Test Data: Time = _____ Wellhead Vacuum = _____ in. w.c. Line Temperature = nr F Flow Rate = _____ scfm Blower Exit Temp. = nr F Influent PID Reading = NR ppm Influent FID Reading = NR ppm System Vacuum = _____ in. Hg	24SVE-5 Afternoon Test Data: Time = 1300 Wellhead Vacuum = 60 in. w.c. Line Temperature = nr F Flow Rate = 2 scfm Blower Exit Temp. = nr F Influent PID Reading = nr ppm Influent FID Reading = nr ppm System Vacuum = 7.0 in. Hg					

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report

 5802 3/27/98
 Authorized QC Manager At Site Date

GOVERNMENT QUALITY ASSURANCE REPORT

Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative Date



OHM Remediation Services Corp
 Subsidiary of OHM Corporation
 U.S. Route 224 East • Findlay, Ohio 45840 • (419) 421-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

213519

FORM 0019 REV. 2-97

OHM LAB COORDINATOR Dwayne Ishida	LAB COORDINATOR'S PHONE (714) 263-1146	LAB COORDINATOR'S FAX (714) 263-1147	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME) OHM Remediation
PROJECT NAME El Toro 245ves	PROJECT LOCATION El Toro MCAS	FACILITY NUMBER 18708	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME Mary Schindler
PROJECT CONTACT D. Ishida	PROJECT PHONE NUMBER 263-1146	PROJECT FAX 263-1147	LABORATORY ADDRESS		ADDRESS 2031 Main St.
PROJECT ADDRESS El Toro MCAS	CITY, STATE AND ZIP CODE El Toro, CA.	CLIENT SWDiv	CITY, STATE AND ZIP CODE City of Industry, CA.		CITY, STATE AND ZIP CODE Jelina, CA. 92714
PROJECT MANAGER Bill Sedlak	PROJECT MANAGER'S PHONE 263-1146	PROJECT MANAGER'S FAX 263-1147	Analysis TO-14 Comments Quantarra		

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analysis	Comments
1	18708-168	Air	10/27/98		-	1	C	Scky	X	Analyze "A" Bag first
2	18708-169		0800		-	2				
3	18708-170		0805		-	1				
4	18708-171	Air	10/28/98	0810	-	1	C	Scky	X	
5										
6										
7										
8										
9										
10										

SAMPLES COLLECTED BY (Signature)	COLLECTOR AND AIR FILL NUMBER	DATE 10/30/98	TIME 1430	COOLER TEMPERATURE (PCV READ BY)
RECEIVED BY (Signature)	RECEIVED BY (Signature)	SAMPLE'S CONTAINER LOCK RECEIPT		

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

**Project Information Section
 For Project Personnel Only
 Do Not Submit to Laboratory**

Sample Point Location	Sample Type			
	G	C	F	QC
1. 245VES @ Ambient	X			X
2. @ Effluent	X			
3. @ MID	X			
4. 245VES @ Effluent	X			

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

entered

D065 1035239
 0200900 \$800

04/03/98 FRI 15:54 FAX 714 475 5433 OHM FAS 004

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-169
 LAB ID: 131420-0002-SA
 Matrix: AIR
 Authorized: 30 MAR 98
 Instrument: GC/MS-A

Sampled: 30 MAR 98
 Prepared: N/A
 Dilution: 6.7

Received: 30 MAR 98
 Analyzed: 31 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		13	ppb (v/v)
Chloromethane	ND		27	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		13	ppb (v/v)
Vinyl chloride	ND		13	ppb (v/v)
Bromomethane	ND		13	ppb (v/v)
Chloroethane	ND		27	ppb (v/v)
Trichlorofluoromethane	ND		13	ppb (v/v)
1,1-Dichloroethane	40		13	ppb (v/v)
Carbon disulfide	ND		67	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	150		13	ppb (v/v)
Acetone	ND		67	ppb (v/v)
Methylene chloride	ND		13	ppb (v/v)
trans-1,2-Dichloroethane	ND		13	ppb (v/v)
Methyl t-butyl ether	ND		67	ppb (v/v)
1,1-Dichloroethane	ND		13	ppb (v/v)
Vinyl acetate	ND		67	ppb (v/v)
cis-1,2-Dichloroethane	ND		13	ppb (v/v)
2-Butanone	ND		67	ppb (v/v)
Chloroform	22		13	ppb (v/v)
1,1,1-Trichloroethane	ND		13	ppb (v/v)
Carbon tetrachloride	ND		13	ppb (v/v)
Benzene	ND		13	ppb (v/v)
1,2-Dichloroethane	ND		13	ppb (v/v)
Trichloroethene	1400		13	ppb (v/v)
1,2-Dichloropropane	ND		13	ppb (v/v)
Bromodichloromethane	ND		13	ppb (v/v)
cis-1,3-Dichloropropane	ND		13	ppb (v/v)
4-Methyl-2-pentanone	ND		67	ppb (v/v)
Toluene	ND		13	ppb (v/v)
trans-1,3-Dichloropropane	ND		13	ppb (v/v)
1,1,2-Trichloroethane	ND		13	ppb (v/v)
Tetrachloroethane	71		13	ppb (v/v)
2-Hexanone	ND		200	ppb (v/v)
Dibromochloromethane	ND		13	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		13	ppb (v/v)
Chlorobenzene	ND		13	ppb (v/v)
Ethylbenzene	ND		13	ppb (v/v)
Xylenes (total)	ND		13	ppb (v/v)
Styrene	ND		13	ppb (v/v)
Bromoform	ND		13	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		13	ppb (v/v)
Benzyl chloride	ND		67	ppb (v/v)
4-Ethyltoluene	ND		13	ppb (v/v)
1,3,5-Trimethylbenzene	ND		13	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
Client ID: 18708-169
LAB ID: 131420-0002-SA
Matrix: AIR
Authorized: 30 MAR 98
Instrument: GC/MS-A
Sampled: 30 MAR 98
Prepared: N/A
Dilution: 6.7
Received: 30 MAR 98
Analyzed: 31 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		13	ppb (v/v)
1,3-Dichlorobenzene	ND		13	ppb (v/v)
1,4-Dichlorobenzene	ND		13	ppb (v/v)
1,2-Dichlorobenzene	ND		13	ppb (v/v)
1,2,4-Trichlorobenzene	ND		130	ppb (v/v)
Hexachlorobutadiene	ND		27	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-164 *A*
 LAB ID: 131342-0001-SA
 Matrix: AIR
 Authorized: 25 MAR 98
 Instrument: GC/MS-A

Sampled: 24 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 25 MAR 98
 Analyzed: 25 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	ND		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-164
 LAB ID: 131342-0001-SA
 Matrix: AIR
 Authorized: 25 MAR 98
 Instrument: GC/MS-A

Sampled: 24 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 25 MAR 98
 Analyzed: 25 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-165A
 LAB ID: 131342-0002-SA
 Matrix: AIR
 Authorized: 25 MAR 98
 Instrument: GC/MS-A

Sampled: 24 MAR 98
 Prepared: N/A
 Dilution: 15

Received: 25 MAR 98
 Analyzed: 25 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		30	ppb (v/v)
Chloromethane	ND		60	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		30	ppb (v/v)
Vinyl chloride	ND		30	ppb (v/v)
Bromomethane	ND		30	ppb (v/v)
Chloroethane	ND		60	ppb (v/v)
Trichlorofluoromethane	ND		30	ppb (v/v)
1,1-Dichloroethene	160		30	ppb (v/v)
Carbon disulfide	ND		150	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	850		30	ppb (v/v)
Acetone	ND		150	ppb (v/v)
Methylene chloride	ND		30	ppb (v/v)
trans-1,2-Dichloroethene	ND		30	ppb (v/v)
Methyl t-butyl ether	ND		150	ppb (v/v)
1,1-Dichloroethane	ND		30	ppb (v/v)
Vinyl acetate	ND		150	ppb (v/v)
cis-1,2-Dichloroethene	ND		30	ppb (v/v)
2-Butanone	ND		150	ppb (v/v)
Chloroform	57		30	ppb (v/v)
1,1,1-Trichloroethane	ND		30	ppb (v/v)
Carbon tetrachloride	53		30	ppb (v/v)
Benzene	ND		30	ppb (v/v)
1,2-Dichloroethane	ND		30	ppb (v/v)
Trichloroethene	3700		30	ppb (v/v)
1,2-Dichloropropane	ND		30	ppb (v/v)
Bromodichloromethane	ND		30	ppb (v/v)
cis-1,3-Dichloropropene	ND		30	ppb (v/v)
4-Methyl-2-pentanone	ND		150	ppb (v/v)
Toluene	ND		30	ppb (v/v)
trans-1,3-Dichloropropene	ND		30	ppb (v/v)
1,1,2-Trichloroethane	ND		30	ppb (v/v)
Tetrachloroethene	190		30	ppb (v/v)
2-Hexanone	ND		450	ppb (v/v)
Dibromochloromethane	ND		30	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		30	ppb (v/v)
Chlorobenzene	ND		30	ppb (v/v)
Ethylbenzene	ND		30	ppb (v/v)
Xylenes (total)	ND		30	ppb (v/v)
Styrene	ND		30	ppb (v/v)
Bromoform	ND		30	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		30	ppb (v/v)
Benzyl chloride	ND		150	ppb (v/v)
4-Ethyltoluene	ND		30	ppb (v/v)
1,3,5-Trimethylbenzene	ND		30	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-165A
 LAB ID: 131342-0002-SA
 Matrix: AIR
 Authorized: 25 MAR 98
 Instrument: GC/MS-A

Sampled: 24 MAR 98
 Prepared: N/A
 Dilution: 15

Received: 25 MAR 98
 Analyzed: 25 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		30	ppb (v/v)
1,3-Dichlorobenzene	ND		30	ppb (v/v)
1,4-Dichlorobenzene	ND		30	ppb (v/v)
1,2-Dichlorobenzene	ND		30	ppb (v/v)
1,2,4-Trichlorobenzene	ND		300	ppb (v/v)
Hexachlorobutadiene	ND		60	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-164
 LAB ID: 131215-0001-SA
 Matrix: AIR
 Authorized: 18 MAR 98
 Instrument: GC/MS-A

Sampled: 17 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 18 MAR 98
 Analyzed: 18 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	ND		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-164
 LAB ID: 131215-0001-SA
 Matrix: AIR
 Authorized: 18 MAR 98
 Instrument: GC/MS-A

Sampled: 17 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 18 MAR 98
 Analyzed: 18 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-165
 LAB ID: 131215-0002-SA
 Matrix: AIR
 Authorized: 18 MAR 98
 Instrument: GC/MS-A

Sampled: 17 MAR 98
 Prepared: N/A
 Dilution: 2.5

Received: 18 MAR 98
 Analyzed: 18 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		5.0	ppb (v/v)
Chloromethane	ND		10	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		5.0	ppb (v/v)
Vinyl chloride	ND		5.0	ppb (v/v)
Bromomethane	ND		5.0	ppb (v/v)
Chloroethane	ND		10	ppb (v/v)
Trichlorofluoromethane	ND		5.0	ppb (v/v)
1,1-Dichloroethane	7.9		5.0	ppb (v/v)
Carbon disulfide	ND		25	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	98		5.0	ppb (v/v)
Acetone	ND		25	ppb (v/v)
Methylene chloride	ND		5.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		5.0	ppb (v/v)
Methyl t-butyl ether	ND		25	ppb (v/v)
1,1-Dichloroethane	ND		5.0	ppb (v/v)
Vinyl acetate	ND		25	ppb (v/v)
cis-1,2-Dichloroethene	ND		5.0	ppb (v/v)
2-Butanone	ND		25	ppb (v/v)
Chloroform	10		5.0	ppb (v/v)
1,1,1-Trichloroethane	ND		5.0	ppb (v/v)
Carbon tetrachloride	ND		5.0	ppb (v/v)
Benzene	ND		5.0	ppb (v/v)
1,2-Dichloroethane	ND		5.0	ppb (v/v)
Trichloroethene	470		5.0	ppb (v/v)
1,2-Dichloropropane	ND		5.0	ppb (v/v)
Bromodichloromethane	ND		5.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		5.0	ppb (v/v)
4-Methyl-2-pentanone	ND		25	ppb (v/v)
Toluene	ND		5.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		5.0	ppb (v/v)
1,1,2-Trichloroethane	ND		5.0	ppb (v/v)
Tetrachloroethene	17		5.0	ppb (v/v)
2-Hexanone	ND		75	ppb (v/v)
Dibromochloromethane	ND		5.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		5.0	ppb (v/v)
Chlorobenzene	ND		5.0	ppb (v/v)
Ethylbenzene	ND		5.0	ppb (v/v)
Xylenes (total)	ND		5.0	ppb (v/v)
Styrene	ND		5.0	ppb (v/v)
Bromoform	ND		5.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		5.0	ppb (v/v)
Benzyl chloride	ND		25	ppb (v/v)
4-Ethyltoluene	ND		5.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		5.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-165
 LAB ID: 131215-0002-SA
 Matrix: AIR
 Authorized: 18 MAR 98
 Instrument: GC/MS-A

Sampled: 17 MAR 98
 Prepared: N/A
 Dilution: 2.5

Received: 18 MAR 98
 Analyzed: 18 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		5.0	ppb (v/v)
1,3-Dichlorobenzene	ND		5.0	ppb (v/v)
1,4-Dichlorobenzene	ND		5.0	ppb (v/v)
1,2-Dichlorobenzene	ND		5.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		50	ppb (v/v)
Hexachlorobutadiene	ND		10	ppb (v/v)

ND = Not Detected

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Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-149
 LAB ID: 131108-0001-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		4.0	ppb (v/v)
Chloroethane	ND		2.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		10	ppb (v/v)
Carbon disulfide	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethane	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	5.3		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-149
 LAB ID: 131108-0001-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	HL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OEM Remediation Services Corporation
 Client ID: 18708-150
 LAB ID: 131108-0002-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	2.3		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	11		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	8.9		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	99		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	5.5		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	13		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	2.5		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	5.7		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	4.6		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-150
 LAB ID: 131108-0002-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	9.1		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND - Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-151
 LAB ID: 131108-0003-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	6.7		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	5.2		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	S3		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	ND		2.0	ppb (v/v)
trans-1,3-Dichloropropane	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	6.9		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	6.6		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	13		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	11		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TOL4

(cont.)

Client Name: OHM Remediation Services Corporation
Client ID: 18708-151
LAB ID: 131108-0003-SA
Matrix: AIR
Authorized: 10 MAR 98
Instrument: GC/MS-B

Sampled: 10 MAR 98
Prepared: N/A
Dilution: 1.0

Received: 10 MAR 98
Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	19		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-152
 LAB ID: 131108-0004-SA
 Matrix: AIR
 Authorized: 10 MAR 98
 Instrument: GC/MS-B

Sampled: 10 MAR 98
 Prepared: N/A
 Dilution: 1.0

Received: 10 MAR 98
 Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	3.5		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	14		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	11		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	2.0		2.0	ppb (v/v)
Benzene	2.2		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	110		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	4.5		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	17		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

(cont.)

Client Name: OEH Remediation Services Corporation
Client ID: 18708-152
LAB ID: 131108-0004-SA
Matrix: AIR
Authorized: 10 MAR 98
Instrument: GC/MS-B
Sampled: 10 MAR 98
Prepared: N/A
Dilution: 1.0
Received: 10 MAR 98
Analyzed: 11 MAR 98

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	4.4		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

CONTRACTOR QUALITY CONTROL REPORT

Contract No. N68711-93-D-1459 D.O. No. 0065

Date: 12/30/97

CASE	Y = YES, N = NO (SEE REMARKS) N/A = NOT APPLICABLE	IDENTIFY DEFINABLE FEATURE OF WORK LOCATION AND LIST PERSONNEL PRESENT
P R E P A R A T I O N	The Plans and Specs Have Been Reviewed	N/A
	The Submittals Have Been Approved	Y
	Materials Comply With Approved Submittals	Y
	Materials Are Stored Properly	Y
	Preliminary Work Was Done Correctly	Y
	Testing Plan Has Been Reviewed	Y
	Work Method and Schedule Discussed	Y

I N I T I A L	Preliminary Work Was Done Correctly	Y	Test Performed and Who Performed Test N/A
	Sample Has Been Prepared (Approved)	N/A	
	Workmanship is Satisfactory	Y	
	Test Results are Acceptable	N/A	
	Work is in Compliance With the Contract	Y	

F O L L O W U P	Work Complies With Contracts As Approved In Initial Phase	Y	0	
	<p>Site 24 SVE Pilot Test:</p> <p>The SVE system was set-up at well number 24SVE 12 and 7 vapor samples were collected. PID and FID data was recorded. The system/carbon was removed from the site upon completion of 4 hours of testing.</p>		<table style="width: 100%; border: none;"> <tr> <td style="border: none; vertical-align: top;"> 24SVE-12 Morning Test Data: Time = 0800 Wellhead Vacuum = 95 in. w.c. Line Temperature = nr F Flow Velocity = NR fpm Flow Rate = 65 cfm Blower Exit Temp. = nr F Influent PID Reading = 95 ppm Influent FID Reading = 121 ppm Influent FID w/ C. F. = </td> <td style="border: none; vertical-align: top;"> 24SVE-12 Afternoon Test Data: Time = 1200 Wellhead Vacuum = 87 in. w.c. Line Temperature = nr F Flow Velocity = NR fpm Flow Rate = 60 scfm Blower Exit Temp. = nr F Influent PID Reading = 78 ppm Influent FID Reading = 86 ppm Influent FID w/ C.F. = </td> </tr> </table>	24SVE-12 Morning Test Data: Time = 0800 Wellhead Vacuum = 95 in. w.c. Line Temperature = nr F Flow Velocity = NR fpm Flow Rate = 65 cfm Blower Exit Temp. = nr F Influent PID Reading = 95 ppm Influent FID Reading = 121 ppm Influent FID w/ C. F. =
24SVE-12 Morning Test Data: Time = 0800 Wellhead Vacuum = 95 in. w.c. Line Temperature = nr F Flow Velocity = NR fpm Flow Rate = 65 cfm Blower Exit Temp. = nr F Influent PID Reading = 95 ppm Influent FID Reading = 121 ppm Influent FID w/ C. F. =	24SVE-12 Afternoon Test Data: Time = 1200 Wellhead Vacuum = 87 in. w.c. Line Temperature = nr F Flow Velocity = NR fpm Flow Rate = 60 scfm Blower Exit Temp. = nr F Influent PID Reading = 78 ppm Influent FID Reading = 86 ppm Influent FID w/ C.F. =			

Rework Items Identified Today (Not Corrected by Close of Business)	Rework Items Corrected Today (From Rework Items List)
	N/A

Remarks:

On behalf of the Contractor, I certify that this report is complete and correct, and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report

 Authorized QC Manager At Site

1/13/98

 Date

GOVERNMENT QUALITY ASSURANCE REPORT

City Assurance Representative's Remarks and/or Exception to the Report

 Government Quality Assurance Representative

 Date



OHM Remediation Services Corp

Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

DOGS

COMPLETED CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

212145

FORM 0019 REV. 2-97

OHM LAB COORDINATOR Dwayne Ishida	LAB COORDINATOR'S PHONE (714) 263-1146 x525	LAB COORDINATOR'S FAX (714) 263-475-5433	LABORATORY SERVICE ID 130053	LABORATORY CONTACT OHM	MAIL REPORT (COMPANY NAME) OHM
PROJECT NAME Site 799 SVE12	PROJECT LOCATION MCAS El Toro	PROJECT NUMBER 18708	LABORATORY PHONE 626/965-1006	LABORATORY FAX	RECIPIENT NAME Mary Schneider
PROJECT COORDINATOR Dwayne Ishida	PROJECT PHONE NUMBER 263-1146	PROJECT FAX 475-5433	LABORATORY ADDRESS	ADDRESS 2031 Main St.	
PROJECT ADDRESS MCAS El Toro	CITY, STATE AND ZIPCODE El Toro, CA	CLIENT SWDIV	CITY, STATE AND ZIPCODE Santa Ana, CA	CITY, STATE AND ZIPCODE Irvine, CA 92614	
PROJECT MANAGER Bill Sedlak	PROJECT MANAGER'S PHONE 263-1146	PROJECT MANAGER'S FAX 263-1147	Analyses TO-14		

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyzes	Comments	Sample Type			
											G	C	F	QC
1	18708-142 A	air	8/30/97	0800	na	2	C	5	x	B: 0802				x
2	18708-143 A			0826					x	B: 0828 PID: 80 FID: 121			x	
3	18708-144 A			0900					x	B: 0903 PID: 94 FID: 137			x	
4	18708-145 A			1217			D		x	B: 1218 PID: 78 FID: 86				
5	18708-146 A			1210			C		x	B: 1212 PID: 0.4 FID: 2.8				
6	18708-147 A	↓	↓	1205	↓	↓	D	↓	x	B: 1207 PID: 0.3 FID: 2.0				
7	18708-148 A	air	8/30/97	1219	na	2	C	5	x	B: 1220 PID: 78 FID: 86				
8	18708-149 A													
9	18708-150 A													
10	18708-151 A													

Sample Point Location	Sample Type			
	G	C	F	QC
① SVE12-ambient				x
② SVE12-influent-30min			x	
③ SVE12-influent-60min			x	
④ SVE12-influent-240min			x	
⑤ SVE12-mid-240min			x	
⑥ SVE12-effluent-240min			x	
⑦ SVE12-influent-240min duplicate			x	x

SAMPLES COLLECTED BY: D. Ishida	COURIER AND AIR BILL NUMBER:	COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY: [Signature]	RECEIVED BY: [Signature]	SAMPLE'S CONDITION UPON RECEIPT:
	DATE: 8/30/97	TIME: 1210

Comments

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-142A
 LAB ID: 130053-0001-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 1.0

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		0.0099	ug/L
Chloromethane	ND		0.0082	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.014	ug/L
Vinyl chloride	ND		0.0051	ug/L
Bromomethane	ND		0.0078	ug/L
Chloroethane	ND		0.011	ug/L
Trichlorofluoromethane	ND		0.011	ug/L
1,1-Dichloroethene	ND		0.0079	ug/L
Carbon disulfide	ND		0.031	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.015	ug/L
Acetone	ND		0.024	ug/L
Methylene chloride	ND		0.0069	ug/L
trans-1,2-Dichloroethene	ND		0.0079	ug/L
Methyl t-butyl ether	ND		0.036	ug/L
1,1-Dichloroethane	ND		0.0081	ug/L
Vinyl acetate	ND		0.035	ug/L
cis-1,2-Dichloroethene	ND		0.0079	ug/L
2-Butanone	ND		0.029	ug/L
Chloroform	ND		0.0097	ug/L
1,1,1-Trichloroethane	ND		0.011	ug/L
Carbon tetrachloride	ND		0.013	ug/L
Benzene	ND		0.0064	ug/L
1,2-Dichloroethane	ND		0.0081	ug/L
Trichloroethene	ND		0.011	ug/L
1,2-Dichloropropane	ND		0.0092	ug/L
Bromodichloromethane	ND		0.013	ug/L
cis-1,3-Dichloropropene	ND		0.0091	ug/L
4-Methyl-2-pentanone	ND		0.041	ug/L
Toluene	0.0086		0.0075	ug/L
trans-1,3-Dichloropropene	ND		0.0091	ug/L
1,1,2-Trichloroethane	ND		0.011	ug/L
Tetrachloroethene	ND		0.014	ug/L
2-Hexanone	ND		0.12	ug/L
Dibromochloromethane	ND		0.017	ug/L
1,2-Dibromoethane (EDB)	ND		0.015	ug/L
Chlorobenzene	ND		0.0092	ug/L
Ethylbenzene	ND		0.0087	ug/L
Xylenes (total)	ND		0.0087	ug/L
Styrene	ND		0.0085	ug/L
Bromoform	ND		0.021	ug/L
1,1,2,2-Tetrachloroethane	ND		0.014	ug/L
Benzyl chloride	ND		0.052	ug/L
4-Ethyltoluene	ND		0.0099	ug/L
1,3,5-Trimethylbenzene	ND		0.0098	ug/L

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-142A
LAB ID: 130053-0001-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 1.0

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		0.0098	ug/L
1,3-Dichlorobenzene	ND		0.012	ug/L
1,4-Dichlorobenzene	ND		0.012	ug/L
1,2-Dichlorobenzene	ND		0.012	ug/L
1,2,4-Trichlorobenzene	ND		0.15	ug/L
Hexachlorobutadiene	ND		0.042	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-143A
 LAB ID: 130053-0002-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		3.3	ug/L
Chloromethane	ND		2.7	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.7	ug/L
Vinyl chloride	ND		1.7	ug/L
Bromomethane	ND		2.6	ug/L
Chloroethane	ND		3.7	ug/L
Trichlorofluoromethane	ND		3.7	ug/L
1,1-Dichloroethene	5.0		2.6	ug/L
Carbon disulfide	ND		10	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	190		5.0	ug/L
Acetone	ND		8.0	ug/L
Methylene chloride	ND		2.3	ug/L
trans-1,2-Dichloroethene	ND		2.6	ug/L
Methyl t-butyl ether	ND		12	ug/L
1,1-Dichloroethane	ND		2.7	ug/L
Vinyl acetate	ND		12	ug/L
cis-1,2-Dichloroethene	ND		2.6	ug/L
2-Butanone	ND		9.7	ug/L
Chloroform	ND		3.2	ug/L
1,1,1-Trichloroethane	ND		3.7	ug/L
Carbon tetrachloride	12		4.3	ug/L
Benzene	ND		2.1	ug/L
1,2-Dichloroethane	ND		2.7	ug/L
Trichloroethene	340		3.7	ug/L
1,2-Dichloropropane	ND		3.1	ug/L
Bromodichloromethane	ND		4.3	ug/L
cis-1,3-Dichloropropene	ND		3.0	ug/L
4-Methyl-2-pentanone	ND		14	ug/L
Toluene	ND		2.5	ug/L
trans-1,3-Dichloropropene	ND		3.0	ug/L
1,1,2-Trichloroethane	ND		3.7	ug/L
Tetrachloroethene	8.7		4.7	ug/L
2-Hexanone	ND		40	ug/L
Dibromochloromethane	ND		5.7	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
Chlorobenzene	ND		3.1	ug/L
Ethylbenzene	ND		2.9	ug/L
Xylenes (total)	ND		2.9	ug/L
Styrene	ND		2.8	ug/L
Bromoform	ND		7.0	ug/L
1,1,2,2-Tetrachloroethane	ND		4.7	ug/L
Benzyl chloride	ND		17	ug/L
4-Ethyltoluene	ND		3.3	ug/L
1,3,5-Trimethylbenzene	ND		3.3	ug/L

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-143A
LAB ID: 130053-0002-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		3.3	ug/L
1,3-Dichlorobenzene	ND		4.0	ug/L
1,4-Dichlorobenzene	ND		4.0	ug/L
1,2-Dichlorobenzene	ND		4.0	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		14	ug/L

ND = Not Detected

Volatile Organics, by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-144A
 LAB ID: 130053-0003-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A
 Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330
 Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		3.3	ug/L
Chloromethane	ND		2.7	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.7	ug/L
Vinyl chloride	ND		1.7	ug/L
Bromomethane	ND		2.6	ug/L
Chloroethane	ND		3.7	ug/L
Trichlorofluoromethane	ND		3.7	ug/L
1,1-Dichloroethene	4.6		2.6	ug/L
Carbon disulfide	ND		10	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	190		5.0	ug/L
Acetone	ND		8.0	ug/L
Methylene chloride	ND		2.3	ug/L
trans-1,2-Dichloroethene	ND		2.6	ug/L
Methyl t-butyl ether	ND		12	ug/L
1,1-Dichloroethane	ND		2.7	ug/L
Vinyl acetate	ND		12	ug/L
cis-1,2-Dichloroethene	ND		2.6	ug/L
2-Butanone	ND		9.7	ug/L
Chloroform	ND		3.2	ug/L
1,1,1-Trichloroethane	ND		3.7	ug/L
Carbon tetrachloride	11		4.3	ug/L
Benzene	ND		2.1	ug/L
1,2-Dichloroethane	ND		2.7	ug/L
Trichloroethene	330		3.7	ug/L
1,2-Dichloropropane	ND		3.1	ug/L
Bromodichloromethane	ND		4.3	ug/L
cis-1,3-Dichloropropene	ND		3.0	ug/L
4-Methyl-2-pentanone	ND		14	ug/L
Toluene	ND		2.5	ug/L
trans-1,3-Dichloropropene	ND		3.0	ug/L
1,1,2-Trichloroethane	ND		3.7	ug/L
Tetrachloroethene	8.6		4.7	ug/L
2-Hexanone	ND		40	ug/L
Dibromochloromethane	ND		5.7	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
Chlorobenzene	ND		3.1	ug/L
Ethylbenzene	ND		2.9	ug/L
Xylenes (total)	ND		2.9	ug/L
Styrene	ND		2.8	ug/L
Bromoform	ND		7.0	ug/L
1,1,2,2-Tetrachloroethane	ND		4.7	ug/L
Benzyl chloride	ND		17	ug/L
4-Ethyltoluene	ND		3.3	ug/L
1,3,5-Trimethylbenzene	ND		3.3	ug/L

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-144A
LAB ID: 130053-0003-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		3.3	ug/L
1,3-Dichlorobenzene	ND		4.0	ug/L
1,4-Dichlorobenzene	ND		4.0	ug/L
1,2-Dichlorobenzene	ND		4.0	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		14	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation		
Client ID:	18708-145A		
LAB ID:	130053-0004-SA		
Matrix:	AIR	Sampled: 30 DEC 97	Received: 30 DEC 97
Authorized:	30 DEC 97	Prepared: N/A	Analyzed: 31 DEC 97
Instrument:	GC/MS-A	Dilution: 330	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		3.3	ug/L
Chloromethane	ND		2.7	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.7	ug/L
Vinyl chloride	ND		1.7	ug/L
Bromomethane	ND		2.6	ug/L
Chloroethane	ND		3.7	ug/L
Trichlorofluoromethane	ND		3.7	ug/L
1,1-Dichloroethene	4.5		2.6	ug/L
Carbon disulfide	ND		10	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	170		5.0	ug/L
Acetone	ND		8.0	ug/L
Methylene chloride	ND		2.3	ug/L
trans-1,2-Dichloroethene	ND		2.6	ug/L
Methyl t-butyl ether	ND		12	ug/L
1,1-Dichloroethane	ND		2.7	ug/L
Vinyl acetate	ND		12	ug/L
cis-1,2-Dichloroethene	ND		2.6	ug/L
2-Butanone	ND		9.7	ug/L
Chloroform	ND		3.2	ug/L
1,1,1-Trichloroethane	ND		3.7	ug/L
Carbon tetrachloride	11		4.3	ug/L
Benzene	ND		2.1	ug/L
1,2-Dichloroethane	ND		2.7	ug/L
Trichloroethene	330		3.7	ug/L
1,2-Dichloropropane	ND		3.1	ug/L
Bromodichloromethane	ND		4.3	ug/L
cis-1,3-Dichloropropene	ND		3.0	ug/L
4-Methyl-2-pentanone	ND		14	ug/L
Toluene	ND		2.5	ug/L
trans-1,3-Dichloropropene	ND		3.0	ug/L
1,1,2-Trichloroethane	ND		3.7	ug/L
Tetrachloroethene	8.3		4.7	ug/L
2-Hexanone	ND		40	ug/L
Dibromochloromethane	ND		5.7	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
Chlorobenzene	ND		3.1	ug/L
Ethylbenzene	ND		2.9	ug/L
Xylenes (total)	ND		2.9	ug/L
Styrene	ND		2.8	ug/L
Bromoform	ND		7.0	ug/L
1,1,2,2-Tetrachloroethane	ND		4.7	ug/L
Benzyl chloride	ND		17	ug/L
4-Ethyltoluene	ND		3.3	ug/L
1,3,5-Trimethylbenzene	ND		3.3	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-145A
 LAB ID: 130053-0004-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		3.3	ug/L
1,3-Dichlorobenzene	ND		4.0	ug/L
1,4-Dichlorobenzene	ND		4.0	ug/L
1,2-Dichlorobenzene	ND		4.0	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		14	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation		
Client ID:	18708-146A		
LAB ID:	130053-0005-SA		
Matrix:	AIR	Sampled: 30 DEC 97	Received: 30 DEC 97
Authorized:	30 DEC 97	Prepared: N/A	Analyzed: 31 DEC 97
Instrument:	GC/MS-A	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		0.0099	ug/L
Chloromethane	ND		0.0082	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.014	ug/L
Vinyl chloride	ND		0.0051	ug/L
Bromomethane	ND		0.0078	ug/L
Chloroethane	ND		0.011	ug/L
Trichlorofluoromethane	ND		0.011	ug/L
1,1-Dichloroethene	ND		0.0079	ug/L
Carbon disulfide	ND		0.031	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.015	ug/L
Acetone	ND		0.024	ug/L
Methylene chloride	ND		0.0069	ug/L
trans-1,2-Dichloroethene	ND		0.0079	ug/L
Methyl t-butyl ether	ND		0.036	ug/L
1,1-Dichloroethane	ND		0.0081	ug/L
Vinyl acetate	ND		0.035	ug/L
cis-1,2-Dichloroethene	ND		0.0079	ug/L
2-Butanone	0.036		0.029	ug/L
Chloroform	ND		0.0097	ug/L
1,1,1-Trichloroethane	ND		0.011	ug/L
Carbon tetrachloride	ND		0.013	ug/L
Benzene	ND		0.0064	ug/L
1,2-Dichloroethane	ND		0.0081	ug/L
Trichloroethene	ND		0.011	ug/L
1,2-Dichloropropane	ND		0.0092	ug/L
Bromodichloromethane	ND		0.013	ug/L
cis-1,3-Dichloropropene	ND		0.0091	ug/L
4-Methyl-2-pentanone	ND		0.041	ug/L
Toluene	0.0077		0.0075	ug/L
trans-1,3-Dichloropropene	ND		0.0091	ug/L
1,1,2-Trichloroethane	ND		0.011	ug/L
Tetrachloroethene	ND		0.014	ug/L
2-Hexanone	ND		0.12	ug/L
Dibromochloromethane	ND		0.017	ug/L
1,2-Dibromoethane (EDB)	ND		0.015	ug/L
Chlorobenzene	ND		0.0092	ug/L
Ethylbenzene	ND		0.0087	ug/L
Xylenes (total)	ND		0.0087	ug/L
Styrene	ND		0.0085	ug/L
Bromoform	ND		0.021	ug/L
1,1,2,2-Tetrachloroethane	ND		0.014	ug/L
Benzyl chloride	ND		0.052	ug/L
4-Ethyltoluene	ND		0.0099	ug/L
1,3,5-Trimethylbenzene	ND		0.0098	ug/L

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-146A
LAB ID: 130053-0005-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 1.0

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		0.0098	ug/L
1,3-Dichlorobenzene	ND		0.012	ug/L
1,4-Dichlorobenzene	ND		0.012	ug/L
1,2-Dichlorobenzene	ND		0.012	ug/L
1,2,4-Trichlorobenzene	ND		0.15	ug/L
Hexachlorobutadiene	ND		0.042	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation		
Client ID:	18708-147A		
LAB ID:	130053-0006-SA		
Matrix:	AIR	Sampled: 30 DEC 97	Received: 30 DEC 97
Authorized:	30 DEC 97	Prepared: N/A	Analyzed: 31 DEC 97
Instrument:	GC/MS-A	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		0.0099	ug/L
Chloromethane	ND		0.0082	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.014	ug/L
Vinyl chloride	ND		0.0051	ug/L
Bromomethane	ND		0.0078	ug/L
Chloroethane	ND		0.011	ug/L
Trichlorofluoromethane	ND		0.011	ug/L
1,1-Dichloroethene	ND		0.0079	ug/L
Carbon disulfide	ND		0.031	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.015	ug/L
Acetone	ND		0.024	ug/L
Methylene chloride	ND		0.0069	ug/L
trans-1,2-Dichloroethene	ND		0.0079	ug/L
Methyl t-butyl ether	ND		0.036	ug/L
1,1-Dichloroethane	ND		0.0081	ug/L
Vinyl acetate	ND		0.035	ug/L
cis-1,2-Dichloroethene	ND		0.0079	ug/L
2-Butanone	0.036		0.029	ug/L
Chloroform	ND		0.0097	ug/L
1,1,1-Trichloroethane	ND		0.011	ug/L
Carbon tetrachloride	ND		0.013	ug/L
Benzene	ND		0.0064	ug/L
1,2-Dichloroethane	ND		0.0081	ug/L
Trichloroethene	ND		0.011	ug/L
1,2-Dichloropropane	ND		0.0092	ug/L
Bromodichloromethane	ND		0.013	ug/L
cis-1,3-Dichloropropene	ND		0.0091	ug/L
4-Methyl-2-pentanone	ND		0.041	ug/L
Toluene	ND		0.0075	ug/L
trans-1,3-Dichloropropene	ND		0.0091	ug/L
1,1,2-Trichloroethane	ND		0.011	ug/L
Tetrachloroethene	ND		0.014	ug/L
2-Hexanone	ND		0.12	ug/L
Dibromochloromethane	ND		0.017	ug/L
1,2-Dibromoethane (EDB)	ND		0.015	ug/L
Chlorobenzene	ND		0.0092	ug/L
Ethylbenzene	ND		0.0087	ug/L
Xylenes (total)	ND		0.0087	ug/L
Styrene	ND		0.0085	ug/L
Bromoform	ND		0.021	ug/L
1,1,2,2-Tetrachloroethane	ND		0.014	ug/L
Benzyl chloride	ND		0.052	ug/L
4-Ethyltoluene	ND		0.0099	ug/L
1,3,5-Trimethylbenzene	ND		0.0098	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-147A
 LAB ID: 130053-0006-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 1.0

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		0.0098	ug/L
1,3-Dichlorobenzene	ND		0.012	ug/L
1,4-Dichlorobenzene	ND		0.012	ug/L
1,2-Dichlorobenzene	ND		0.012	ug/L
1,2,4-Trichlorobenzene	ND		0.15	ug/L
Hexachlorobutadiene	ND		0.042	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation		
Client ID:	18708-142A		
LAB ID:	130053-0001-SA		
Matrix:	AIR	Sampled: 30 DEC 97	Received: 30 DEC 97
Authorized:	30 DEC 97	Prepared: N/A	Analyzed: 31 DEC 97
Instrument:	GC/MS-A	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	ND		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	2.3		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected



Environmental
Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-142A
LAB ID: 130053-0001-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A
Sampled: 30 DEC 97
Prepared: N/A
Dilution: 1.0
Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation	Sampled:	30 DEC 97	Received:	30 DEC 97
Client ID:	18708-143A	Prepared:	N/A	Analyzed:	31 DEC 97
LAB ID:	130053-0002-SA				
Matrix:	AIR	Dilution:	330		
Authorized:	30 DEC 97				
Instrument:	GC/MS-A				

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		670	ppb (v/v)
Chloromethane	ND		1300	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		670	ppb (v/v)
Vinyl chloride	ND		670	ppb (v/v)
Bromomethane	ND		670	ppb (v/v)
Chloroethane	ND		1300	ppb (v/v)
Trichlorofluoromethane	ND		670	ppb (v/v)
1,1-Dichloroethene	1300		670	ppb (v/v)
Carbon disulfide	ND		3300	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	25000		670	ppb (v/v)
Acetone	ND		3300	ppb (v/v)
Methylene chloride	ND		670	ppb (v/v)
trans-1,2-Dichloroethene	ND		670	ppb (v/v)
Methyl t-butyl ether	ND		3300	ppb (v/v)
1,1-Dichloroethane	ND		670	ppb (v/v)
Vinyl acetate	ND		3300	ppb (v/v)
cis-1,2-Dichloroethene	ND		670	ppb (v/v)
2-Butanone	ND		3300	ppb (v/v)
Chloroform	ND		670	ppb (v/v)
1,1,1-Trichloroethane	ND		670	ppb (v/v)
Carbon tetrachloride	1800		670	ppb (v/v)
Benzene	ND		670	ppb (v/v)
1,2-Dichloroethane	ND		670	ppb (v/v)
Trichloroethene	64000		670	ppb (v/v)
1,2-Dichloropropane	ND		670	ppb (v/v)
Bromodichloromethane	ND		670	ppb (v/v)
cis-1,3-Dichloropropene	ND		670	ppb (v/v)
4-Methyl-2-pentanone	ND		3300	ppb (v/v)
Toluene	ND		670	ppb (v/v)
trans-1,3-Dichloropropene	ND		670	ppb (v/v)
1,1,2-Trichloroethane	ND		670	ppb (v/v)
Tetrachloroethene	1300		670	ppb (v/v)
2-Hexanone	ND		10000	ppb (v/v)
Dibromochloromethane	ND		670	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		670	ppb (v/v)
Chlorobenzene	ND		670	ppb (v/v)
Ethylbenzene	ND		670	ppb (v/v)
Xylenes (total)	ND		670	ppb (v/v)
Styrene	ND		670	ppb (v/v)
Bromoform	ND		670	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		670	ppb (v/v)
Benzyl chloride	ND		3300	ppb (v/v)
4-Ethyltoluene	ND		670	ppb (v/v)
1,3,5-Trimethylbenzene	ND		670	ppb (v/v)

ND = Not Detected



Environmental
Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-143A
LAB ID: 130053-0002-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		670	ppb (v/v)
1,3-Dichlorobenzene	ND		670	ppb (v/v)
1,4-Dichlorobenzene	ND		670	ppb (v/v)
1,2-Dichlorobenzene	ND		670	ppb (v/v)
1,2,4-Trichlorobenzene	ND		6700	ppb (v/v)
Hexachlorobutadiene	ND		1300	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-144A
 LAB ID: 130053-0003-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A
 Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330
 Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		670	ppb (v/v)
Chloromethane	ND		1300	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		670	ppb (v/v)
Vinyl chloride	ND		670	ppb (v/v)
Bromomethane	ND		670	ppb (v/v)
Chloroethane	ND		1300	ppb (v/v)
Trichlorofluoromethane	ND		670	ppb (v/v)
1,1-Dichloroethene	1200		670	ppb (v/v)
Carbon disulfide	ND		3300	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	25000		670	ppb (v/v)
Acetone	ND		3300	ppb (v/v)
Methylene chloride	ND		670	ppb (v/v)
trans-1,2-Dichloroethene	ND		670	ppb (v/v)
Methyl t-butyl ether	ND		3300	ppb (v/v)
1,1-Dichloroethane	ND		670	ppb (v/v)
Vinyl acetate	ND		3300	ppb (v/v)
cis-1,2-Dichloroethene	ND		670	ppb (v/v)
2-Butanone	ND		3300	ppb (v/v)
Chloroform	ND		670	ppb (v/v)
1,1,1-Trichloroethane	ND		670	ppb (v/v)
Carbon tetrachloride	1800		670	ppb (v/v)
Benzene	ND		670	ppb (v/v)
1,2-Dichloroethane	ND		670	ppb (v/v)
Trichloroethene	62000		670	ppb (v/v)
1,2-Dichloropropane	ND		670	ppb (v/v)
Bromodichloromethane	ND		670	ppb (v/v)
cis-1,3-Dichloropropene	ND		670	ppb (v/v)
4-Methyl-2-pentanone	ND		3300	ppb (v/v)
Toluene	ND		670	ppb (v/v)
trans-1,3-Dichloropropene	ND		670	ppb (v/v)
1,1,2-Trichloroethane	ND		670	ppb (v/v)
Tetrachloroethene	1300		670	ppb (v/v)
2-Hexanone	ND		10000	ppb (v/v)
Dibromochloromethane	ND		670	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		670	ppb (v/v)
Chlorobenzene	ND		670	ppb (v/v)
Ethylbenzene	ND		670	ppb (v/v)
Xylenes (total)	ND		670	ppb (v/v)
Styrene	ND		670	ppb (v/v)
Bromoform	ND		670	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		670	ppb (v/v)
Benzyl chloride	ND		3300	ppb (v/v)
4-Ethyltoluene	ND		670	ppb (v/v)
1,3,5-Trimethylbenzene	ND		670	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-144A
LAB ID: 130053-0003-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		670	ppb (v/v)
1,3-Dichlorobenzene	ND		670	ppb (v/v)
1,4-Dichlorobenzene	ND		670	ppb (v/v)
1,2-Dichlorobenzene	ND		670	ppb (v/v)
1,2,4-Trichlorobenzene	ND		6700	ppb (v/v)
Hexachlorobutadiene	ND		1300	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-145A
 LAB ID: 130053-0004-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		670	ppb (v/v)
Chloromethane	ND		1300	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		670	ppb (v/v)
Vinyl chloride	ND		670	ppb (v/v)
Bromomethane	ND		670	ppb (v/v)
Chloroethane	ND		1300	ppb (v/v)
Trichlorofluoromethane	ND		670	ppb (v/v)
1,1-Dichloroethene	1100		670	ppb (v/v)
Carbon disulfide	ND		3300	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	23000		670	ppb (v/v)
Acetone	ND		3300	ppb (v/v)
Methylene chloride	ND		670	ppb (v/v)
trans-1,2-Dichloroethene	ND		670	ppb (v/v)
Methyl t-butyl ether	ND		3300	ppb (v/v)
1,1-Dichloroethane	ND		670	ppb (v/v)
Vinyl acetate	ND		3300	ppb (v/v)
cis-1,2-Dichloroethene	ND		670	ppb (v/v)
2-Butanone	ND		3300	ppb (v/v)
Chloroform	ND		670	ppb (v/v)
1,1,1-Trichloroethane	ND		670	ppb (v/v)
Carbon tetrachloride	1700		670	ppb (v/v)
Benzene	ND		670	ppb (v/v)
1,2-Dichloroethane	ND		670	ppb (v/v)
Trichloroethene	61000		670	ppb (v/v)
1,2-Dichloropropane	ND		670	ppb (v/v)
Bromodichloromethane	ND		670	ppb (v/v)
cis-1,3-Dichloropropene	ND		670	ppb (v/v)
4-Methyl-2-pentanone	ND		3300	ppb (v/v)
Toluene	ND		670	ppb (v/v)
trans-1,3-Dichloropropene	ND		670	ppb (v/v)
1,1,2-Trichloroethane	ND		670	ppb (v/v)
Tetrachloroethene	1200		670	ppb (v/v)
2-Hexanone	ND		10000	ppb (v/v)
Dibromochloromethane	ND		670	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		670	ppb (v/v)
Chlorobenzene	ND		670	ppb (v/v)
Ethylbenzene	ND		670	ppb (v/v)
Xylenes (total)	ND		670	ppb (v/v)
Styrene	ND		670	ppb (v/v)
Bromoform	ND		670	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		670	ppb (v/v)
Benzyl chloride	ND		3300	ppb (v/v)
4-Ethyltoluene	ND		670	ppb (v/v)
1,3,5-Trimethylbenzene	ND		670	ppb (v/v)

ND = Not Detected



Environmental
Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-145A
LAB ID: 130053-0004-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		670	ppb (v/v)
1,3-Dichlorobenzene	ND		670	ppb (v/v)
1,4-Dichlorobenzene	ND		670	ppb (v/v)
1,2-Dichlorobenzene	ND		670	ppb (v/v)
1,2,4-Trichlorobenzene	ND		6700	ppb (v/v)
Hexachlorobutadiene	ND		1300	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-146A
 LAB ID: 130053-0005-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A
 Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 1.0
 Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	12		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	2.0		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-146A
LAB ID: 130053-0005-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 1.0

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-147A
 LAB ID: 130053-0006-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A
 Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 1.0
 Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ppb (v/v)
Chloromethane	ND		4.0	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0	ppb (v/v)
Vinyl chloride	ND		2.0	ppb (v/v)
Bromomethane	ND		2.0	ppb (v/v)
Chloroethane	ND		4.0	ppb (v/v)
Trichlorofluoromethane	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Carbon disulfide	ND		10	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	ppb (v/v)
Acetone	ND		10	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND		2.0	ppb (v/v)
Methyl t-butyl ether	ND		10	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Vinyl acetate	ND		10	ppb (v/v)
cis-1,2-Dichloroethene	ND		2.0	ppb (v/v)
2-Butanone	12		10	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
1,2-Dichloropropane	ND		2.0	ppb (v/v)
Bromodichloromethane	ND		2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND		2.0	ppb (v/v)
4-Methyl-2-pentanone	ND		10	ppb (v/v)
Toluene	ND		2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND		2.0	ppb (v/v)
1,1,2-Trichloroethane	ND		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
2-Hexanone	ND		30	ppb (v/v)
Dibromochloromethane	ND		2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Ethylbenzene	ND		2.0	ppb (v/v)
Xylenes (total)	ND		2.0	ppb (v/v)
Styrene	ND		2.0	ppb (v/v)
Bromoform	ND		2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
4-Ethyltoluene	ND		2.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND		2.0	ppb (v/v)

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-147A
LAB ID: 130053-0006-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A

Sampled: 30 DEC 97
Prepared: N/A
Dilution: 1.0

Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2,4-Trichlorobenzene	ND		20	ppb (v/v)
Hexachlorobutadiene	ND		4.0	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-148A
 LAB ID: 130053-0007-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		670	ppb (v/v)
Chloromethane	ND		1300	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		670	ppb (v/v)
Vinyl chloride	ND		670	ppb (v/v)
Bromomethane	ND		670	ppb (v/v)
Chloroethane	ND		1300	ppb (v/v)
Trichlorofluoromethane	1200		670	ppb (v/v)
1,1-Dichloroethene	ND		670	ppb (v/v)
Carbon disulfide	ND		3300	ppb (v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	22000		670	ppb (v/v)
Acetone	ND		3300	ppb (v/v)
Methylene chloride	ND		670	ppb (v/v)
trans-1,2-Dichloroethene	ND		670	ppb (v/v)
Methyl t-butyl ether	ND		3300	ppb (v/v)
1,1-Dichloroethane	ND		670	ppb (v/v)
Vinyl acetate	ND		3300	ppb (v/v)
cis-1,2-Dichloroethene	ND		670	ppb (v/v)
2-Butanone	ND		3300	ppb (v/v)
Chloroform	ND		670	ppb (v/v)
1,1,1-Trichloroethane	ND		670	ppb (v/v)
Carbon tetrachloride	1600		670	ppb (v/v)
Benzene	ND		670	ppb (v/v)
1,2-Dichloroethane	ND		670	ppb (v/v)
Trichloroethene	61000		670	ppb (v/v)
1,2-Dichloropropane	ND		670	ppb (v/v)
Bromodichloromethane	ND		670	ppb (v/v)
cis-1,3-Dichloropropene	ND		670	ppb (v/v)
4-Methyl-2-pentanone	ND		3300	ppb (v/v)
Toluene	ND		670	ppb (v/v)
trans-1,3-Dichloropropene	ND		670	ppb (v/v)
1,1,2-Trichloroethane	ND		670	ppb (v/v)
Tetrachloroethene	1300		670	ppb (v/v)
2-Hexanone	ND		10000	ppb (v/v)
Dibromochloromethane	ND		670	ppb (v/v)
1,2-Dibromoethane (EDB)	ND		670	ppb (v/v)
Chlorobenzene	ND		670	ppb (v/v)
Ethylbenzene	ND		670	ppb (v/v)
Xylenes (total)	ND		670	ppb (v/v)
Styrene	ND		670	ppb (v/v)
Bromoform	ND		670	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND		670	ppb (v/v)
Benzyl chloride	ND		3300	ppb (v/v)
4-Ethyltoluene	ND		670	ppb (v/v)
1,3,5-Trimethylbenzene	ND		670	ppb (v/v)

ND = Not Detected



Environmental Services (cont.)

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
Client ID: 18708-148A
LAB ID: 130053-0007-SA
Matrix: AIR
Authorized: 30 DEC 97
Instrument: GC/MS-A
Sampled: 30 DEC 97
Prepared: N/A
Dilution: 330
Received: 30 DEC 97
Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		670	ppb (v/v)
1,3-Dichlorobenzene	ND		670	ppb (v/v)
1,4-Dichlorobenzene	ND		670	ppb (v/v)
1,2-Dichlorobenzene	ND		670	ppb (v/v)
1,2,4-Trichlorobenzene	ND		6700	ppb (v/v)
Hexachlorobutadiene	ND		1300	ppb (v/v)

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name:	OHM Remediation Services Corporation		
Client ID:	18708-148A		
LAB ID:	130053-0007-SA		
Matrix:	AIR	Sampled: 30 DEC 97	Received: 30 DEC 97
Authorized:	30 DEC 97	Prepared: N/A	Analyzed: 31 DEC 97
Instrument:	GC/MS-A	Dilution: 330	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		3.3	ug/L
Chloromethane	ND		2.7	ug/L
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.7	ug/L
Vinyl chloride	ND		1.7	ug/L
Bromomethane	ND		2.6	ug/L
Chloroethane	ND		3.7	ug/L
Trichlorofluoromethane	ND		3.7	ug/L
1,1-Dichloroethene	4.6		2.6	ug/L
Carbon disulfide	ND		10	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	17		5.0	ug/L
Acetone	ND		8.0	ug/L
Methylene chloride	ND		2.3	ug/L
trans-1,2-Dichloroethene	ND		2.6	ug/L
Methyl t-butyl ether	ND		12	ug/L
1,1-Dichloroethane	ND		2.7	ug/L
Vinyl acetate	ND		12	ug/L
cis-1,2-Dichloroethene	ND		2.6	ug/L
2-Butanone	ND		9.7	ug/L
Chloroform	ND		3.2	ug/L
1,1,1-Trichloroethane	ND		3.7	ug/L
Carbon tetrachloride	10		4.3	ug/L
Benzene	ND		2.1	ug/L
1,2-Dichloroethane	ND		2.7	ug/L
Trichloroethene	330		3.7	ug/L
1,2-Dichloropropane	ND		3.1	ug/L
Bromodichloromethane	ND		4.3	ug/L
cis-1,3-Dichloropropene	ND		3.0	ug/L
4-Methyl-2-pentanone	ND		14	ug/L
Toluene	ND		2.5	ug/L
trans-1,3-Dichloropropene	ND		3.0	ug/L
1,1,2-Trichloroethane	ND		3.7	ug/L
Tetrachloroethene	8.8		4.7	ug/L
2-Hexanone	ND		40	ug/L
Dibromochloromethane	ND		5.7	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
Chlorobenzene	ND		3.1	ug/L
Ethylbenzene	ND		2.9	ug/L
Xylenes (total)	ND		2.9	ug/L
Styrene	ND		2.8	ug/L
Bromoform	ND		7.0	ug/L
1,1,2,2-Tetrachloroethane	ND		4.7	ug/L
Benzyl chloride	ND		17	ug/L
4-Ethyltoluene	ND		3.3	ug/L
1,3,5-Trimethylbenzene	ND		3.3	ug/L

ND = Not Detected

Volatile Organics by GCMS - EPA TO14

Client Name: OHM Remediation Services Corporation
 Client ID: 18708-148A
 LAB ID: 130053-0007-SA
 Matrix: AIR
 Authorized: 30 DEC 97
 Instrument: GC/MS-A

Sampled: 30 DEC 97
 Prepared: N/A
 Dilution: 330

Received: 30 DEC 97
 Analyzed: 31 DEC 97

Parameter	Result	Qualifier	RL	Units
1,2,4-Trimethylbenzene	ND		3.3	ug/L
1,3-Dichlorobenzene	ND		4.0	ug/L
1,4-Dichlorobenzene	ND		4.0	ug/L
1,2-Dichlorobenzene	ND		4.0	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		14	ug/L

ND = Not Detected