OHM Remediation Services Corp.
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M60050.002458
MCAS EL TORO
SSIC #5090.3

February 25, 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

Subject: Radius of Influence Data From SVE Pilot Tests at IRP Site 24
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 radius of influence data from the SVE Pilot Tests at IRP Site 24. The data has been collated by well, and includes a summary table as well as the field notes. A copy of the well construction details is also included as part of the package for reference.

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)
Dave DeMars, SWDIV (1C/1E)
OHM PMO File (1C/1E)
Project File, Correspondence B.01

3347 Michelson Drive, Suite 200 ● Irvine, California 92612-1692 ● 949.261.6441 ● Fax: 949.474.8309

OHM Remediation Services Corp.

PMO LETTER OF TRANSMITTAL

To: Teresa Estudillo
San Diego PMO Office

Date: 2/25/99

Submitted by: Bill Sedlak

Phone/Extension Number 660-5446

Office Location: ☒ Irvine ☐ San Diego ☐ Pleasanton ☐ Other

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REMARKS: _____

OHM Remediation Services Corp.

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MEMO

2031 Main Street, Irvine, Ca 92714

TO: **Bill Sedlak**

FROM: **Fran Ryan-Torres**
DATE: **24 February 1999**
CC: **C. McGinnis w/o Attachments**
RE: **Radius of Influence Data for Site 24 SVE Pilot Tests**

Bill
Attached is the Radius of Influence Data package you requested for data recorded for the Site 24 SVE pilot tests. The package includes a copy of the raw data as well as the OHM well logs.

The SVE wells recorded for radius of influence include:SVE-1
SVE-2
SVE-3/3A
SVE-4
SVE-6
SVE-7/7A
SVE-8/8A
SVE-10
SVE-11/11A
SVE-14
SVE-54
SVE-104B
SVE-107
SVE-116

If you have comments or need additional included in the summary, please contact me.

OHM Remediation Services Corp.
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OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW6446**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Bozier H. Demaree, Code 02R.BD
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 26-Feb-99

D.O.: 65

Location: MCAS EL TORO

FROM: James Franklin FOR
Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: ***Radious of Influence Data from SVE Pilot Tests at IRP Site 24, Removal and Remedial Actions at IRP Sites, dated February 25, 1999***

TYPE: Contract Deliverable ( ) ($) D. O. Deliverable (X) (Tech) Request for Change ( ) Other ( )

VERSION: N/A **REVISION:** 0

ADMIN RECORD: Yes ( ) No (X) Category ( ) Confidential ( )

SCHEDULED DELIVERY DATE: 26-Feb-99 **ACTUAL DELIVERY DATE:** 26-Feb-98

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WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO. 24SVE 1	SHEET NO. 1 OF 1
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE 8" / 12"	BEGUN 9-8-95
DRILLER: Water Development Corp.	COORDINATES: N 2,189,064.5 E 6,110,005.3	LOGGED BY: P. Stoppelmann	TD OF WELL 109.0 / COMPLETED 9-9-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): 285.5 / 285.8	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ None	CHECKED BY: P. Brooks	TD OF HOLE 110.5 / UPDATE 2-6-96

(Template: WELL1, scale: 115)

Well Construction Details

Borehole 24B23 converted to one 4-inch diameter soil vapor extraction well.

For complete geologic description, see borehole log of 24B23.

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.5 ft.
Type: Reddi-Mix Concrete

GROUT SEAL

From = 3.5 ft. To = 84.0 ft.
Type: Cement/Bentonite Grout

RISER CASING

Dia. & Type: 4" diameter, Sch 40 PVC

BENTONITE SEAL

From = 84.0 ft. To = 89.0 ft.
Type: Baroid 1/4" bentonite pellets

FILTER PACK

From= 89.0 ft. To= 110.5 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

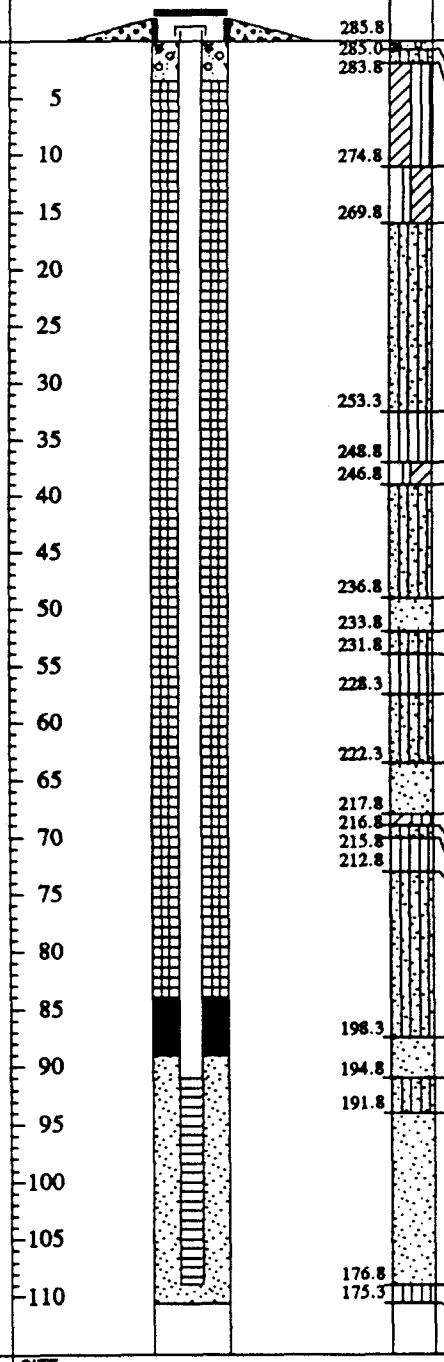
From = 91.0 ft To = 109.0 ft.
Dia. & Type : 4" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

TD OF WELL = 109.0 ft.

BOTTOM SEAL

Type: None

Well Graphics



Geologic Description and Classification

0.0-0.8 ft: CONCRETE
0.8-2.0 ft: SILTY SAND (SM)
2.0-11.0 ft: SILTY CLAY (CL/ML)
11.0-16.0 ft: CLAYEY SILT (ML/CL)
16.0-32.5 ft: SILTY SAND (SM)
32.5-37.0 ft: SANDY SILT (ML)
37.0-39.0 ft: CLAYEY SILT (ML/CL)
39.0-49.0 ft: SILTY SAND (SM)
49.0-52.0 ft: SAND (SP)
52.0-54.0 ft: SILTY SAND (SM)
54.0-57.5 ft: SANDY SILT (ML)
57.5-63.5 ft: SILTY SAND (SM)
63.5-68.0 ft: SAND (SP)
68.0-69.0 ft: SILTY CLAY (CL/ML)
69.0-70.0 ft: SILTY SAND (SM)
70.0-73.0 ft: SANDY SILT (ML)
73.0-87.5 ft: SILTY SAND (SM)
87.5-91.0 ft: SAND (SP)
91.0-94.0 ft: SILTY SAND (SM)
94.0-109.0 ft: SAND (SP)
109.0-110.5 ft: SANDY SILT (ML)

TOTAL DEPTH = 110.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B23

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO. 24SVE 2	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE 8" / 12"	BEGUN 9-13-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,779.5 E 6,109,570.2	LOGGED BY: P. Stoppelmann	TD OF WELL 105.0 / COMPLETED 9-13-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 285.1	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ None	CHECKED BY: P. Brooks	TD OF HOLE 106.0 / UPDATE 2-6-96

(Template: WELL1, scale: 110)

Well Construction Details

Borehole 24B18 converted to two 2-inch diameter soil vapor extraction well and one 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B18.

Top of riser casing elevation (ft, MSL)

24SVP 2 = 284.68 ft.
24SVE 2A = 284.56 ft.
24SVE 2 = 284.70 ft.

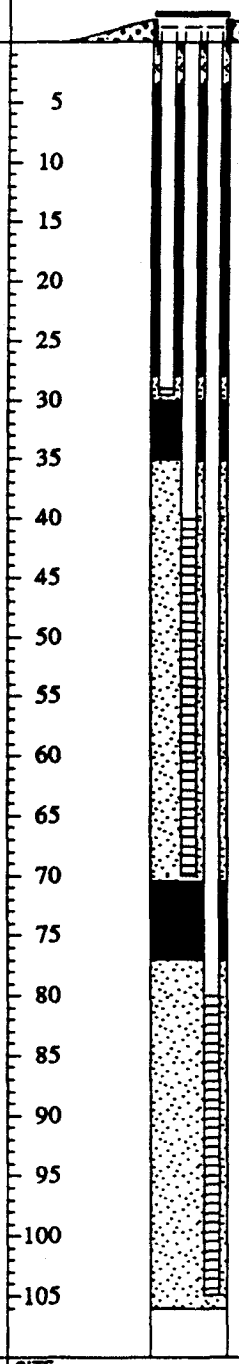
24SVP 2 - Soil Vapor Piezometer

24SVE 2A - Soil Vapor Extraction Well

24SVE 2 - Soil Vapor Extraction Well

Borehole was enlarged to 12" diameter from 0.0 to 106.0 ft depth.

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
285.1	
284.3	0.0-0.8 ft: CONCRETE
283.7	0.8-1.4 ft: FILL
280.9	1.4-4.2 ft: CLAYEY SAND (SC)
	4.2-22.0 ft: SILTY SAND (SM)
263.1	
261.1	22.0-24.0 ft: SANDY CLAY (CL)
	24.0-33.5 ft: SAND (SP)
251.6	
	33.5-38.0 ft: SILTY SAND (SM)
247.1	
246.1	38.0-39.0 ft: CLAYEY SAND (SC)
	39.0-47.0 ft: SILTY SAND (SM)
238.1	
	47.0-61.0 ft: SILT (ML)
224.1	
222.1	61.0-63.0 ft: SILTY SAND (SM)
219.6	63.0-65.5 ft: CLAY (CL)
218.6	65.5-66.5 ft: SILT (ML)
217.1	66.5-68.0 ft: SAND (SW)
	68.0-73.5 ft: SAND (SP) interbedded with SILTY SAND (SM)
211.6	
209.1	73.5-76.0 ft: SILT (ML)
	76.0-80.0 ft: SANDY CLAY (SC)
205.1	
203.6	80.0-81.5 ft: SAND (SP)
202.1	81.5-83.0 ft: SILT (ML)
201.6	83.0-83.5 ft: SILTY SAND (SM)
199.6	83.5-85.5 ft: CLAY (CL)
	85.5-89.5 ft: SILTY SAND (SM)
195.6	
	89.5-101.0 ft: SILTY SAND (SM) interbedded with SAND (SP)
184.1	
183.1	101.0-102.0 ft: SAND (SW)
180.1	102.0-105.0 ft: SILTY SAND (SM)
179.1	105.0-106.0 ft: SANDY SILT (ML)

TOTAL DEPTH = 106.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B18

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 2 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 To = 3.5 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.5 ft. To = 27.8 ft
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 30.0 ft. To = 35.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 70.5 ft. To = 77.0 ft.
Type: 3/8" Holeplug Bentonite chips

24SVE 2A

RISER CASING

Dia. & Type: 2.0" diameter, Sch 40 PVC

FILTER PACK

From = 35.0 ft. To = 70.5 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 40.0 ft. To = 70.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 70.0 ft.

24SVP 2

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 27.8 ft. To = 30.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 29.0 ft. To = 29.5 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: 1/16" wide slots, hand slotted, 2 rows, 10 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 29.5 ft.

24SVE 2

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 77.0 ft. To = 106.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 80.0 ft. To = 105.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 105.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B18

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO.: 24SVE 3	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE: 8" / 12"	BEGUN: 9-18-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,846.8 E 6,109,778.9	LOGGED BY: P. Stoppelmann	TD OF WELL: 105.0 / COMPLETED: 9-18-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 286.8	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ None	CHECKED BY: P. Brooks	TD OF HOLE: 106.0 / UPDATE: 2-6-96

(Template: WELL1, scale: 110)

Well Construction Details

Borehole 24B17 converted to two 2-inch diameter soil vapor extraction wells.

For complete geologic description, see borehole log of 24B17.

Top of riser casing elevation (ft, MSL)

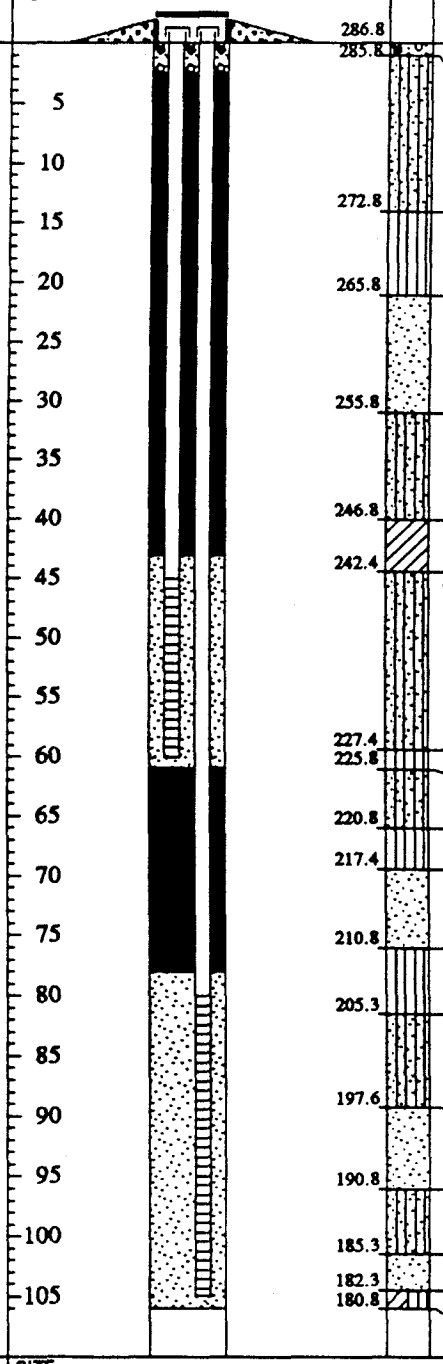
24SVE 3A = 286.47 ft.
24SVE 3 = 286.49 ft.

24SVE 3A - Soil Vapor Extraction Well

24SVE 3 - Soil Vapor Extraction Well

Borehole was enlarged to 12" diameter from 0.0 to 106.0 ft.

Well Graphics



Geologic Description and Classification

0.0-1.0 ft: CONCRETE and FILL
1.0-14.0 ft: SILTY SAND (SM)
14.0-21.0 ft: SANDY SILT (ML)
21.0-31.0 ft: SAND (SP)
31.0-40.0 ft: SILTY SAND (SM)
40.0-44.4 ft: SILTY CLAY (CL)
44.4-59.4 ft: SILTY SAND (SM)
59.4-61.0 ft: SANDY SILT (ML)
61.0-66.0 ft: SILTY SAND (SM)
66.0-69.4 ft: SANDY SILT (ML)
69.4-76.0 ft: SAND (SP)
76.0-81.5 ft: SANDY SILT (ML)
81.5-89.2 ft: SILTY SAND (SM)
89.2-96.0 ft: SAND (SP)
96.0-101.5 ft: SILTY SAND (SM)
101.5-104.5 ft: SAND (SP)
104.5-106.0 ft: CLAYEY SILT (ML/CL)

TOTAL DEPTH = 106.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B17

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 3 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 2.5 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 2.5 ft. To = 43.0 ft.
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 61.0 ft. To = 78.0 ft.
Type: Enviroplug Medium Bentonite chips

24SVE 3A

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 43.0 ft. To = 61.0 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

From = 45.0 ft. To = 60.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 60.0 ft.

24SVE 3

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 78.0 ft. To = 106.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 80.0 ft. To = 105.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 105.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B17

Template: WEL ...e: 110

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO. 24SVE 4	SHEET NO. 1 OF 1
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE: 8-inches	BEGUN: 9-21-95
DRILLER: Water Development Corp.	COORDINATES: N 2,189,108.3 E 6,109,689.2	LOGGED BY: R. Cadiz/P. Stoppelmann	TD OF WELL: 105.0 / COMPLETED: 9-21-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): 284.1 / 284.4	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ None	CHECKED BY: P. Brooks	TD OF HOLE: 106.0 / UPDATE: 2-6-96

(Template: WELL1, scale: 110)

Well Construction Details

Borehole 24B21 converted to one 2-inch diameter soil vapor extraction well.

For complete geologic description, see borehole log of 24B21.

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 5.0 ft.
Type: Reddi-Mix Concrete

GROUT SEAL

From = 5.0 ft. To = 80.0 ft.
Type: Cement/Bentonite Grout

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

BENTONITE SEAL

From = 80.0 ft. To = 83.0 ft.
Type: Holeplug 3/8" bentonite chips

FILTER PACK

From= 83.0 ft. To= 106.0 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

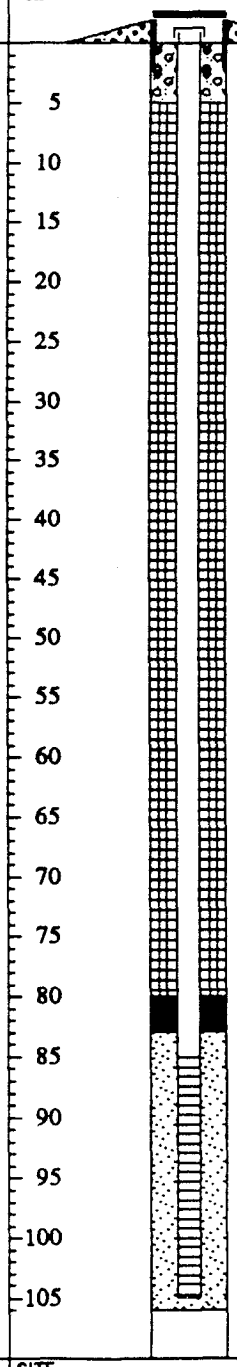
From = 85.0 ft To = 105.0 ft.
Dia. & Type : 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

TD OF WELL = 106.0 ft.

BOTTOM SEAL

Type: None

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
284.4	
283.6	0.0-0.8 ft: CONCRETE
	0.8-9.0 ft: SILTY SAND (SM)
275.4	
272.4	9.0-12.0 ft: SAND (SP)
	12.0-22.0 ft: SILTY SAND (SM)
262.4	
260.4	22.0-24.0 ft: CLAY (CL)
	24.0-28.2 ft: SAND (SP)
256.2	
	28.2-38.0 ft: SILTY SAND (SM)
246.4	
243.4	38.0-41.0 ft: CLAY (CL)
240.4	41.0-44.0 ft: SILTY SAND (SM)
	44.0-53.0 ft: CLAY (CL)
231.4	
229.4	53.0-55.0 ft: SILTY SAND (SM)
	55.0-64.0 ft: CLAY (CL)
220.4	
	64.0-71.5 ft: SAND (SP)
212.9	
	71.5-84.0 ft: SILTY SAND (SM)
200.4	
	84.0-95.0 ft: SAND (SP)
189.4	
188.4	95.0-96.0 ft: CLAY (CL)
	96.0-106.0 ft: SAND (SP)
178.4	

TOTAL DEPTH = 106.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B21

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*			WELL NO.: 24SVE 5
			SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA			HOLE SIZE: 8" / 12" — BEGUN: 9-22-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,174.7 E 6,110,423.8	LOGGED BY: R. Cadiz	TD OF WELL: 90.0 — COMPLETED: 9-25-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 291.0	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE: 115.5 — UPDATE: 2-6-96

(Template: WELL1, scale: 120)

Well Construction Details

Borehole 24B 6 converted to two 2-inch diameter soil vapor extraction wells.

For complete geologic description, see borehole log of 24B 6.

Top of riser casing elevation (ft, MSL)

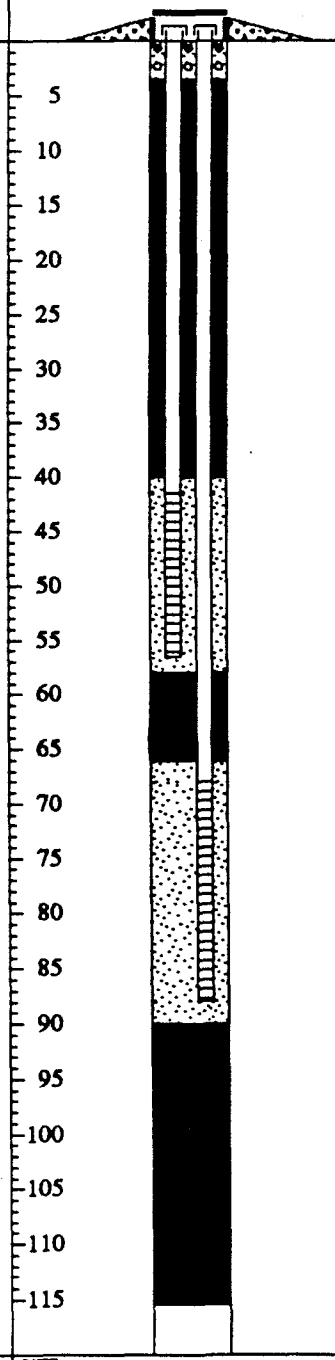
24SVE 5A = 290.77 ft.
24SVE 5 = 290.76 ft.

24SVE 5A - Soil Vapor Extraction Well

24SVE 5 - Soil Vapor Extraction Well

Backfill with bentonite chips from 90.0-115.5 ft. Borehole was enlarged to 12-inch diameter from 0.0 to 90.0 ft.

Well Graphics



Geologic Description and Classification

- 0.0-0.8 ft: CONCRETE
- 0.8-1.5 ft: FILL
- 1.5-11.0 ft: SILTY SAND (SM)
- 11.0-14.7 ft: CLAY (CL)
- 14.7-20.0 ft: CLAYEY SAND (SC)
- 20.0-31.5 ft: SANDY CLAY and CLAY (CL)
- 31.5-42.3 ft: CLAYEY SAND (SC)
- 42.3-52.0 ft: SAND with gravel (SP)
- 52.0-57.0 ft: GRAVEL with cobbles and silt (GW)
- 57.0-67.0 ft: CLAY (CL)
- 67.0-88.5 ft: SILTY SAND (SM)
- 88.5-90.0 ft: CLAY (CL)
- 90.0-99.2 ft: CLAYEY SAND (SC)
- 99.2-110.0 ft: SAND (SP)
- 110.0-113.0 ft: SANDY CLAY (CL)
- 113.0-115.5 ft: SAND (SP)

TOTAL DEPTH = 115.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B 6

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 5 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.5 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.5 ft. To = 40.0 ft.
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 58.0 ft. To = 66.0 ft.
Type: 3/8" Holeplug Bentonite chips

BOTTOM SEAL

From = 90.0 ft. To = 115.5 ft.
Type: 3/8" Holeplug Bentonite chips

24SVE 5A

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 40.0 ft. To = 58.0 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

From = 41.5 ft. To = 56.5 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 56.5 ft.

24SVE 5

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 66.0 ft. To = 90.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 68.0 ft. To = 88.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 105.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B 6

Template: WEL e: 120

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*			WELL NO.: 24SVE 6
			SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA			HOLE SIZE: 8" / 12" — BEGUN: 9-26-95
DRILLER: Water Development Corp.	COORDINATES: N 2,189,100.6 E 6,109,901.3	LOGGED BY: R. Cadiz/C. Lind	TD OF WELL: 109.5 — COMPLETED: 9-27-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 285.6	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE: 129.0 — UPDATE: 2-6-96

(Template: WELL1, scale: 135)

Well Construction Details

Borehole 24B22 converted to 4-inch diameter soil vapor extraction well and two 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B22.

Top of riser casing elevation (ft, MSL)

24SVP 6 = 285.21 ft.
24SVP 6A = 285.28 ft.
24SVE 6 = 285.02 ft.

24SVP 6 - Soil Vapor Piezometer

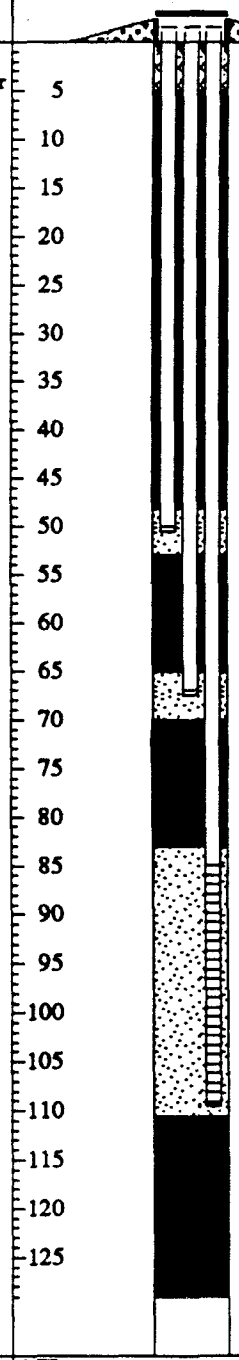
24SVP 6A - Soil Vapor Piezometer

24SVE 6 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 110.5 ft depth.

Borehole diameter:
1-110.5 ft depth = 12"
110.5-129.0 ft depth = 8"

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
285.6	
284.6	0.0-1.0 ft: CONCRETE
	1.0-42.5 ft: SILTY SAND (SM)
243.1	
	42.5-48.0 ft: CLAYEY SAND (SC)
237.6	
	48.0-53.0 ft: SAND (SP)
232.6	
	53.0-65.0 ft: SILTY SAND (SM)
220.6	
	65.0-70.0 ft: SAND (SP)
215.6	
	70.0-76.0 ft: SILT (ML)
209.6	
	76.0-85.0 ft: CLAY (CL)
200.6	
	85.0-110.5 ft: SAND (SP)
175.1	
	110.5-118.5 ft: CLAYEY SAND (SC)
167.1	
	118.5-129.0 ft: SILTY SAND (SM)
156.6	

TOTAL DEPTH = 129.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B22

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 6 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 5.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 5.0 ft. To = 48.0 ft
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 53.0 ft. To = 65.0 ft.
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 70.0 ft. To = 83.0 ft.
Type: Enviroplug Medium Bentonite Chips

BOTTOM SEAL

From = 110.5 ft. To = 129.0 ft.
Type: Enviroplug Medium Bentonite Chips

24SVP 6

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 48.0 ft. To = 53.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 50.0 ft. To = 50.5 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 13 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 50.5 ft.

24SVP 6A

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 65.0 ft. To = 70.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 67.0 ft. To = 67.5 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand-slotted, 2 rows, 13 slots/row.

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 67.5 ft.

24SVE 6

RISER CASING

Dia. & Type: 4" diameter, Sch 40 PVC

FILTER PACK

From = 83.0 ft. To = 110.5 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 85.0 ft. To = 109.5 ft.
Dia. & Type: 4" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 4.0" diameter PVC end cap

TD OF WELL = 119.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B22

Template: WELL ... e: 135

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO. 24SVE 7	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE 8" / 12"	BEGUN 9-29-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,872.4 E 6,109,955.7	LOGGED BY: R. Cadiz/P. Stoppelmann	TD OF WELL 110.5 / COMPLETED 9-29-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 286.5	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE 115.5 / UPDATE 2-6-96

(Template: WELL1, scale: 125)

Well Construction Details

Borehole 24B15 converted to two 2-inch diameter soil vapor extraction wells and one 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B15.

Top of riser casing elevation (ft, MSL)

24SVP 7 = 286.09 ft.
24SVE 7A = 286.02 ft.
24SVE 7 = 286.11 ft.

24SVP 7 - Soil Vapor Piezometer

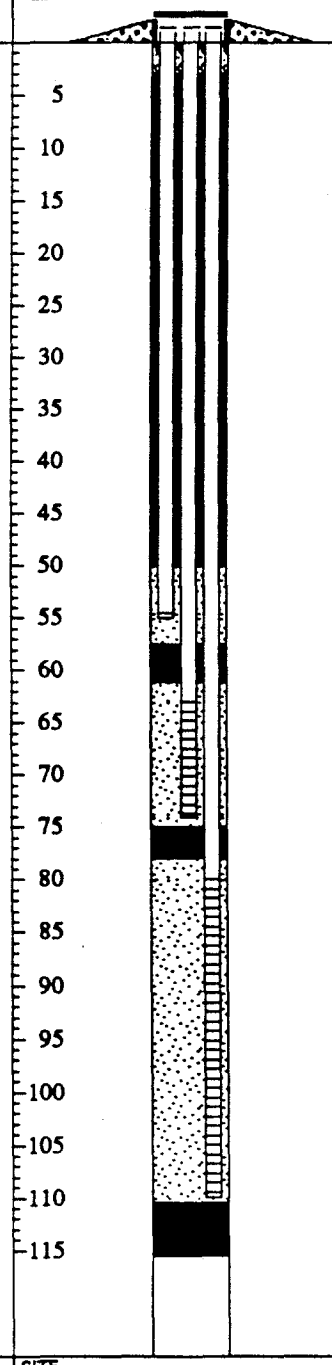
24SVP 7A - Soil Vapor Extraction Well

24SVE 7 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 110.5 ft depth.

Borehole diameter:
0-110.5 ft depth = 12"
110.5-115.5 ft depth = 8"

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
286.5	
285.5	0.0-1.0 ft: CONCRETE
280.2	1.0-6.3 ft: SILTY SAND (SM)
277.5	6.3-9.0 ft: SAND (SP)
268.0	9.0-18.5 ft: SILTY SAND (SM)
258.5	18.5-28.0 SAND (SP)
255.5	28.0-31.0 ft: SILTY SAND (SM)
246.5	31.0-40.0 ft: SILT (ML)
240.0	40.0-46.5 ft: CLAY (CL)
236.5	46.5-50.0 ft: SILT with SAND (ML)
229.0	50.0-57.5 ft: SAND (SP)
224.0	57.5-62.5 ft: CLAYEY SAND (SC)
208.5	62.5-78.0 ft: SILTY SAND (SM)
193.8	78.0-92.7 ft: SAND (SP)
188.0	92.7-98.5 ft: CLAYEY SAND (SC)
185.5	98.5-101.0 ft: SAND (SP)
183.0	101.0-103.5 ft: SILT (ML)
173.5	103.5-113.0 ft: SILTY SAND (SM)
171.5	113.5-115.0 ft: SAND (SP)
171.0	115.0-115.5 ft: CLAY (CL)

TOTAL DEPTH = 115.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B15

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 7 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.0 ft. To = 36.0 ft
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 57.5 ft. To = 61.0 ft.
Type: Enviroplug Medium Bentonite chips

BENTONITE SEAL

From = 75.0 ft. To = 78.0 ft.
Type: Enviroplug Medium Bentonite chips

BOTTOM SEAL

From = 110.5 ft. To = 115.5 ft.
Type: Enviroplug Medium Bentonite Chips

24SVP 7

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 50.0 ft. To = 57.5 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 54.5 ft. To = 55.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 11 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 55.0 ft.

24SVE 7A

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 61.0 ft. To = 75.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 63.0 ft. To = 74.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 74.0 ft.

24SVE 7

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 78.0 ft. To = 110.5 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 80.0 ft. To = 110.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 110.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B15

Template: WELL

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*			WELL NO.: 24SVE 8
			SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA			HOLE SIZE: 8" / 12" — BEGUN: 10-2-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,891.6 E 6,110,166.0	LOGGED BY: R. Cadiz	TD OF WELL: 113.0 — COMPLETED: 10-3-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 290.5	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE: 119.0 — UPDATE: 2-6-96

(Template: WELL1, scale: 125)

Well Construction Details

Borehole 24B14 converted to two 2-inch diameter soil vapor extraction wells and one 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B14.

Top of riser casing elevation (ft, MSL)

24SVP 8 = 290.21 ft.
24SVE 8A = 290.27 ft.
24SVE 8 = 290.19 ft.

24SVP 8 - Soil Vapor Piezometer

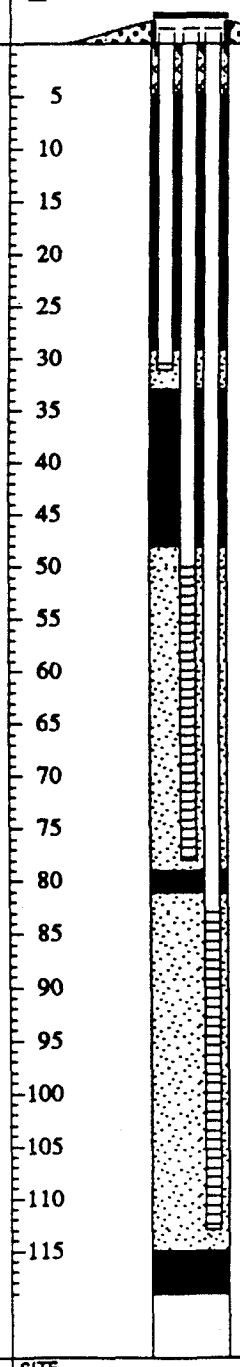
24SVE 8A - Soil Vapor Extraction Well

24SVE 8 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 115.0 ft depth.

Borehole diameter:
0-115.0 ft depth = 12"
115.0-119.0 ft depth = 8"

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
290.5	
289.5	0.0-1.0 ft: CONCRETE
	1.0-11.3 ft: SILTY SAND (SM)
279.2	
	11.3-16.0 ft: CLAY (CL)
274.5	
	16.0-29.0 ft: SILTY SAND (SM)
261.5	
	29.0-33.0 ft: SAND (SP)
257.5	
	33.0-37.0 ft: CLAY with SAND (CL)
253.5	
	37.0-57.8 ft: SILTY SAND (SM)
232.7	
	57.8-65.8 ft: SAND (SP)
224.7	
	65.8-72.5 ft: CLAYEY SAND (SC)
218.0	
	72.5-76.5 ft: SANDY CLAY (CL)
214.0	
	76.5-91.4 ft: SAND (SP)
199.1	
	91.4-97.0 ft: SANDY SILT (ML)
193.5	
	97.0-101.0 ft: SILTY SAND (SM)
189.5	
	101.0-104.5 ft: SANDY SILT (ML)
186.0	
	104.5-113.4 ft: SILTY SAND (SM)
177.1	
	113.4-116.0 ft: CLAYEY SAND (SC)
174.5	
	116.0-119.0 ft: SAND (SP)
171.5	
	TOTAL DEPTH = 119.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B14

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 8 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 5.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 5.0 ft. To = 29.0 ft
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 33.0 ft. To = 48.0 ft.
Type: Enviroplug Medium Bentonite chips

BENTONITE SEAL

From = 79.0 ft. To = 81.0 ft.
Type: Enviroplug Medium Bentonite chips

BOTTOM SEAL

From = 115.0 ft. To = 119.0 ft.
Type: Enviroplug Medium Bentonite Chips

24SVP 8

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 29.0 ft. To = 33.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 30.5 ft. To = 31.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 11 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 31.0 ft.

24SVE 8A

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 48.0 ft. To = 79.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 50.0 ft. To = 78.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 78.0 ft.

24SVE 8

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 81.0 ft. To = 115.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 83.0 ft. To = 113.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 113.0 ft.

z: 125

Template: WEL

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B14

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO. 24SVE 9	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE 8" / 12"	BEGUN 10-5-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,434.0 E 6,110,129.2	LOGGED BY: R. Cadiz	TD OF WELL 111.0 / COMPLETED 10-5-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 292.8	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE 115.5 / UPDATE 2-6-96

(Template: WELL1, scale: 125)

Well Construction Details

Borehole 24B 9 converted to two 2-inch diameter soil vapor extraction wells and one 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B 9.

Top of riser casing elevation (ft, MSL)

24SVP 9 = 292.39 ft.
24SVE 9A = 292.19 ft.
24SVE 9 = 292.30 ft.

24SVP 9 - Soil Vapor Piezometer

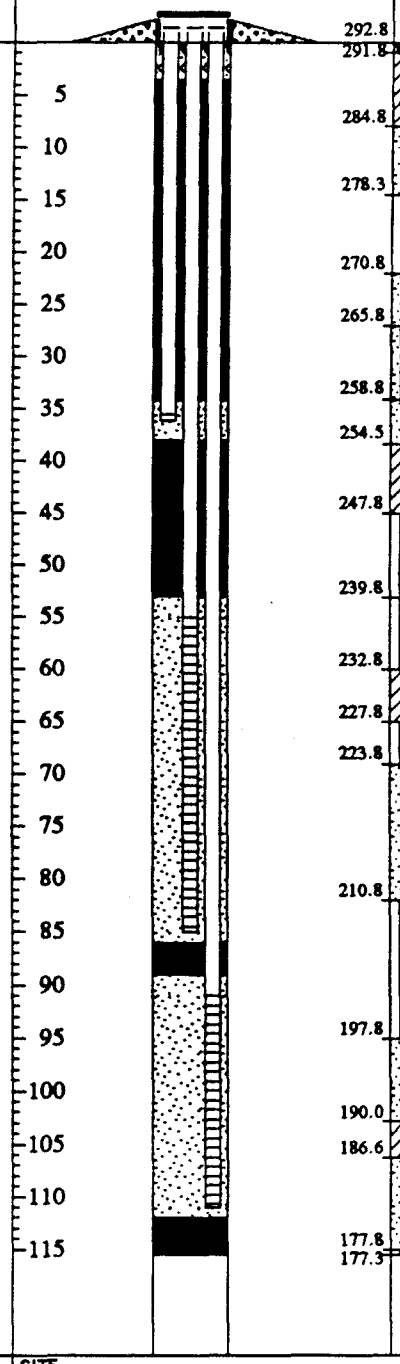
24SVE 9A - Soil Vapor Extraction Well

24SVE 9 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 112.0 ft depth.

Borehole diameter:
0-112.0 ft depth = 12"
112.0-115.5 ft depth = 8"

Well Graphics



Geologic Description and Classification

0.0-1.0 ft: CONCRETE
1.0-8.0 ft: SANDY CLAY (CL)
8.0-14.5 ft: SILTY SAND (SM)
14.5-22.0 ft: SANDY SILT (ML)
22.0-27.0 ft: SAND (SP)
27.0-34.0 ft: SILTY SAND (SM)
34.0-38.3 ft: SAND (SP)
38.3-45.0 ft: SANDY CLAY (CL)
45.0-53.0 ft: SANDY SILT (ML)
53.0-60.0 ft: SILT (ML)
60.0-65.0 ft: SANDY CLAY (CL)
65.0-69.0 ft: SANDY SILT (ML)
69.0-82.0 ft: SAND (SP)
82.0-95.0 ft: SANDY SILT (ML)
95.0-102.8 ft: SAND (SP)
102.8-106.2 ft: CLAY (CL)
106.2-115.0 ft: SAND (SP)
115.0-115.5 ft: CLAY (CL)

TOTAL DEPTH = 115.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B 9

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE 9 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.5 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.5 ft. To = 34.0 ft
Type: Enviroplug Medium Bentonite Chips

BENTONITE SEAL

From = 38.0 ft. To = 53.0 ft.
Type: Enviroplug Medium Bentonite chips

BENTONITE SEAL

From = 86.0 ft. To = 89.0 ft.
Type: Enviroplug Medium Bentonite chips

BOTTOM SEAL

From = 112.0 ft. To = 115.5 ft.
Type: Enviroplug Medium Bentonite Chips

24SVP 9

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 34.0 ft. To = 38.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 35.5 ft. To = 36.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 13 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 36.0 ft.

24SVE 9A

RISER CASING

Dia. & Type: 2" diameter, Sch 80 PVC

FILTER PACK

From = 53.0 ft. To = 86.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 55.0 ft. To = 85.0 ft.
Dia. & Type: 2" diameter, Sch 80 PVC
Slot Size & Type: 0.020-inch, machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 85.0 ft.

24SVE 9

RISER CASING

Dia. & Type: 2" diameter, Sch 80 PVC

FILTER PACK

From = 89.0 ft. To = 112.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 81.0 ft. To = 111.0 ft.
Dia. & Type: 2" diameter, Sch 80 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 111.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B 9

Template: WELL e: 125

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*			WELL NO. 24SVE10
			SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA			HOLE SIZE 8" / 12" / BEGUN 10-9-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,254.8 E 6,110,273.2	LOGGED BY: R. Cadiz	TD OF WELL 109.0 / COMPLETED 10-9-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 292.2	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE 124.0 / UPDATE 2-6-96

(Template: WELL1, scale: 130)

Well Construction Details

Borehole 24B7A converted to 4-inch diameter soil vapor extraction well and two 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B 7A.

Top of riser casing elevation (ft, MSL)

24SVP10A = 291.95 ft.
24SVP10 = 292.01 ft.
24SVE10 = 291.98 ft.

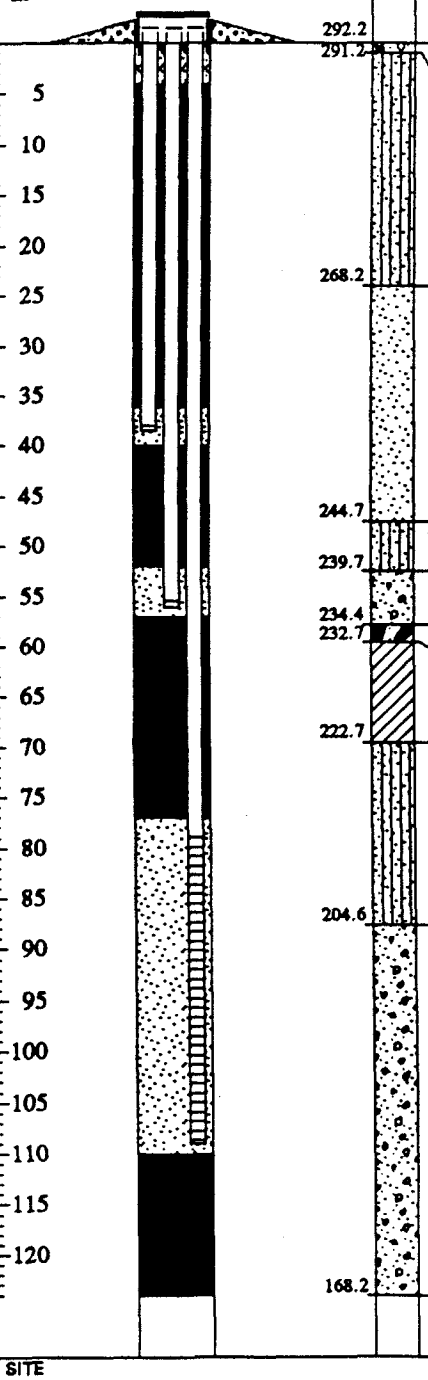
24SVP10A - Soil Vapor Piezometer

24SVP10 - Soil Vapor Piezometer

24SVE10 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 110.0 ft depth.

Well Graphics



Geologic Description and Classification

0.0-1.0 ft: CONCRETE
1.0-24.0 ft: SILTY SAND (SM)
24.0-47.5 ft: SAND (SP)
47.5-52.5 ft: SILTY SAND (SM)
52.5-57.8 ft: SAND (SW)
57.8-59.5 ft: GRAVEL (GW) with cobbles
59.5-69.5 ft: CLAY (CL)
69.5-87.6 ft: SILTY SAND (SM)
87.6-124.0 ft: SAND (SW)

TOTAL DEPTH = 124.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B 7A

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE10 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 4.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 4.0 ft. To = 36 ft
Type: Holeplug 3/8" Bentonite Chips

BENTONITE SEAL

From = 40 ft. To = 52 ft.
Type: Holeplug 3/8" Bentonite chips

BENTONITE SEAL

From = 57 ft. To = 77 ft.
Type: Enviroplug Medium Bentonite chips

BOTTOM SEAL

From = 110.0 ft. To = 124.0 ft.
Type: Enviroplug Medium Bentonite chips

24SVP10A

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 36.0 ft. To = 40.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 38.0 ft. To = 38.5 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide, hand slotted, 2 rows, 13 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 38.5 ft.

24SVP10

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 52.0 ft. To = 57.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 55.5 ft. To = 56.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: Hand slotted, ~ 2mm wide slots, 2 rows, 13 slots/row.

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 56.0 ft.

24SVE10

RISER CASING

Dia. & Type: 4" diameter, Sch 40 PVC

FILTER PACK

From = 77.0 ft. To = 110.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 79.0 ft. To = 109.0 ft.
Dia. & Type: 4" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 4" diameter PVC endcap.

TD OF WELL = 109.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B 7A

Template: WELL Scale: 130

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO.: **24SVE11**	SHEET NO. 1 OF 2
PROJECT SITE: **MCAS El Toro, CA**		HOLE SIZE: **8" / 12"**	BEGUN: **10-11-95**
DRILLER: **Water Development Corp.**	COORDINATES: **N 2,188,505.0 E 6,110,443.5**	LOGGED BY: **R. Cadiz**	TD OF WELL: **109.0** / COMPLETED: **10-11-95**
TOP of RISER CASING/GROUND ELEV. (ft, MSL): **See below / 291.3**	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ **Below TD of well**	CHECKED BY: **P. Brooks**	TD OF HOLE: **119.5** / UPDATE: **2-6-96**

(Template: WELL1, scale: 125)

Well Construction Details

Borehole 24B10 converted to two 2-inch diameter soil vapor extraction wells and one 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B10.

Top of riser casing elevation (ft, MSL)

24SVP11 = 291.07 ft.
24SVE11A = 291.20 ft.
24SVE11 = 291.22 ft.

24SVP11 - Soil Vapor Piezometer

24SVE11A - Soil Vapor Extraction Well

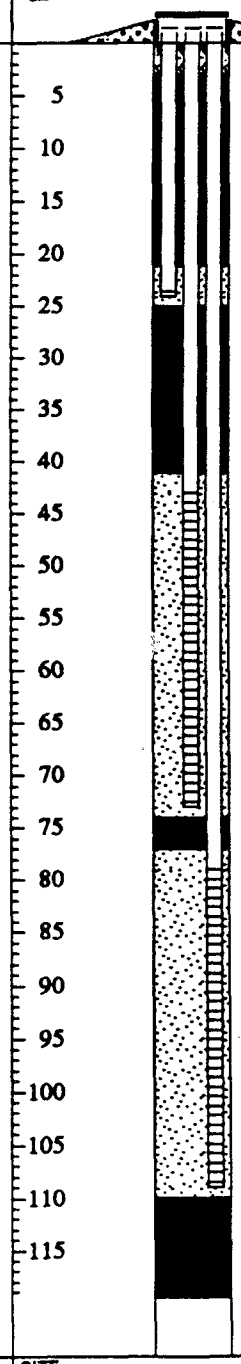
24SVE11 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 1.0 to 110.0 ft depth.

Borehole diameter:
1-110.0 ft depth = 12"
110.0-118.0 ft depth = 8"
118.0-119.5 ft depth = 2.5"

See Figure C-1 for explanation of sampler symbols and material graphics.

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
291.3	
290.3	0.0-1.0 ft: CONCRETE
286.3	SILTY SAND (SM)
	CLAYEY SAND (SC)
280.3	SILTY SAND (SM)
270.3	
267.5	SAND (SP)
265.3	CLAYEY SAND (SC)
	SAND (SP)
260.3	SILT (ML)
252.5	
250.3	CLAYEY SAND (SC)
	CLAY (CL)
242.0	
239.3	CLAYEY SAND (SC)
	GRAVEL (GW) with COBBLES
234.3	CLAY (CL)
225.3	
222.8	SILTY SAND (SM)
220.3	SAND (SW)
217.6	SILTY SAND (SM)
215.3	CLAYEY SAND (SC)
	SILT (ML)
210.3	SILTY SAND (SM)
205.3	
202.3	SAND (SW)
	CLAY (CL)
195.3	SANDY CLAY (CL)
190.3	CLAYEY SAND (SC)
172.3	
171.8	119.0-119.5 ft: CLAY (CL)

TOTAL DEPTH = 119.5 ft.

SITE: **Site 24, VOC Source Area**

REFERENCE HOLE NO.: **24B10**

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE11 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.0 ft. To = 21.0 ft
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 25.0 ft. To = 41.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 74.0 ft. To = 77.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BOTTOM SEAL

From = 110.0 ft. To = 119.5 ft.
Type: 3/8" Holeplug Bentonite Chips

24SVP11A

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 21.0 ft. To = 25.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 23.5 ft. To = 24.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 13 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 24.0 ft.

24SVE11A

RISER CASING

Dia. & Type: 2" diameter, Sch 80 PVC

FILTER PACK

From = 41.0 ft. To = 74.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 43.0 ft. To = 73.0 ft.
Dia. & Type: 2" diameter, Sch 80 PVC
Slot Size & Type: 0.020-inch, machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 73.0 ft.

24SVE11

RISER CASING

Dia. & Type: 2" diameter, Sch 80 PVC

FILTER PACK

From = 77.0 ft. To = 110.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 79.0 ft. To = 109.0 ft.
Dia. & Type: 2" diameter, Sch 80 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 109.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B10

Template: WEL -le: 125

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*			WELL NO. 24SVE12
			SHEET NO. 1 OF 1
PROJECT SITE: MCAS El Toro, CA			HOLE SIZE 8" / 12" / BEGUN 10-16-95
DRILLER: Water Development Corp.	COORDINATES: N 2,187,358.2 E 6,109,867.0	LOGGED BY: C. Kramer	TD OF WELL 74.0 / COMPLETED 10-16-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): 269.8 / 268.3	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE 85.0 / UPDATE 2-6-96

(Template: WELL1, scale: 90)

Well Construction Details

Borehole 24B 2 converted to one 2-inch diameter soil vapor extraction well.

For complete geologic description, see borehole log of 24B 2.

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 5.0 ft.
Type: Reddi-Mix Concrete

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

BENTONITE SEAL

From = 5.0 ft. To = 32.0 ft.
Type: 3/8" Holeplug Bentonite Chips

FILTER PACK

From= 32.0 ft. To= 75.0 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

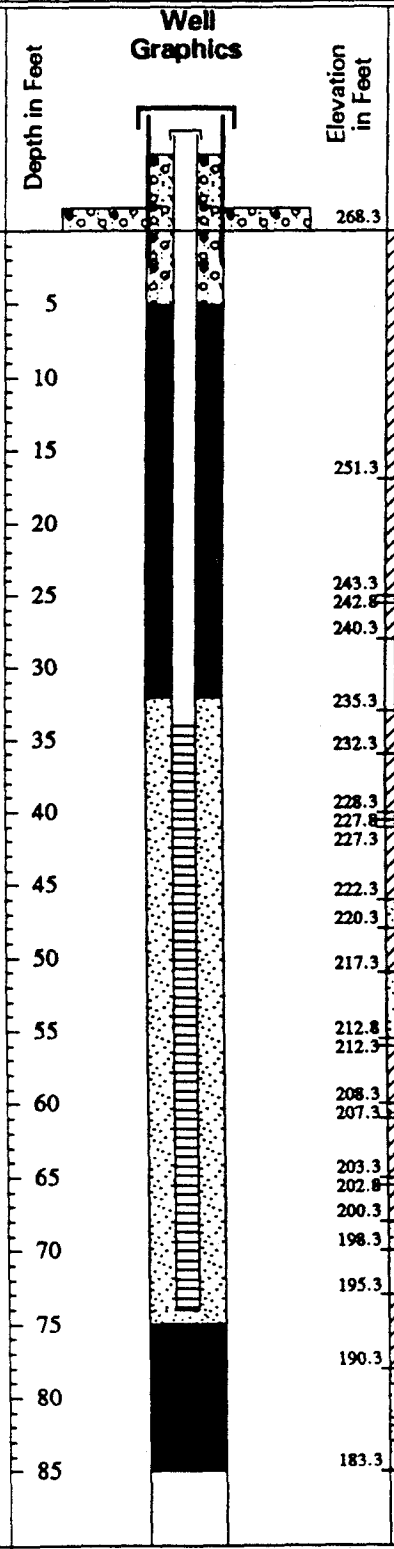
From = 34.0 ft To = 74.0 ft.
Dia. & Type : 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

TD OF WELL = 74.0 ft.

BOTTOM SEAL

From = 75.0 ft. To = 85.0 ft.
Type: 3/8" Holeplug Bentonite Chips

Well Graphics



Geologic Description and Classification

CLAY AND SANDY CLAY (CL)

CLAY AND SILTY CLAY (CL)

CLAYEY SAND (SC)

CLAY (CL)

SANDY SILT (ML)

SANDY CLAY (CL)

CLAY (CL)

SAND (SW)

SAND (SP)

SILTY CLAY (CL)

SAND (SP)

CLAY (CL)

SILTY SAND (SM)

SILT (ML)

CLAY (CL)

SAND (SP)

CLAY (CL)

SILTY SAND (SM)

SANDY CLAY (CL)

SILTY SAND (SM)

SANDY SILT (ML)

SILTY TO SANDY CLAY (CL)

SILTY SAND (SM)

TOTAL DEPTH = 85.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO. 24B 2

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO.: 24SVE13	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE: 8" / 12"	BEGUN: 10-16-95
DRILLER: Water Development Corp.	COORDINATES: N 2,189,132.5 E 6,108,959.7	LOGGED BY: P. Stoppelmann/A. Matulac	TD OF WELL: 109.0 / COMPLETED: 10-16-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 277.0	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE: 119.5 / UPDATE: 2-6-96

(Template: WELL1, scale: 125

Well Construction Details

Borehole 24B26 converted to one 2-inch diameter soil vapor extraction well and one 0.5-inch piezometer.

For complete geologic description, see borehole log of 24B26.

Top of riser casing elevation (ft, MSL)

24SVP13 = 276.68 ft.
24SVE13 = 276.51 ft.

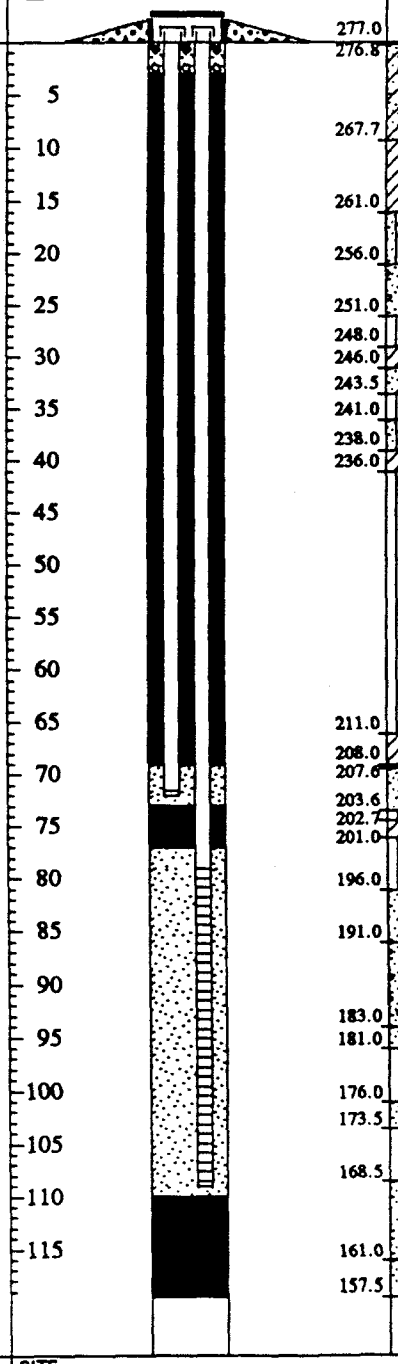
24SVP13 - Soil Vapor Piezometer

24SVE13 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips and then the borehole was enlarged to 12" diameter from 0.0 to 110.0 ft depth.

Borehole diameter:
0-110.0 ft depth = 12"
110.0-118.0 ft depth = 8"
118.0-119.5 ft depth = 2.5"

Well Graphics



Geologic Description and Classification

Elevation in Feet	Description
276.8	0.0-0.2 ft: ASPHALT
	0.2-9.3 ft: CLAYEY SAND (SC)
267.7	9.3-16.0 ft: CLAY (CL)
261.0	16.0-21.0 ft: SILTY SAND (SM)
256.0	21.0-26.0 ft: SAND (SW)
251.0	26.0-29.0 ft: SANDY SILT (ML)
248.0	29.0-31.0 ft: CLAY (CL)
246.0	31.0-33.5 ft: SAND (SP)
243.5	33.5-36.0 ft: SILT (ML)
241.0	36.0-39.0 ft: SILTY SAND (SM)
238.0	39.0-41.0 ft: CLAY (CL)
236.0	41.0-66.0 ft: SILT (ML)
211.0	66.0-69.0 ft: CLAY (CL)
208.0	69.0-69.4 ft: SILTY SAND (SM)
207.6	69.4-73.4 ft: SAND (SP)
203.6	73.4-74.3 ft: SANDY SILT (ML)
202.7	74.3-76.0 ft: CLAY (CL)
201.0	76.0-81.0 ft: SILT with SAND and GRAVEL (ML)
196.0	81.0-86.0 ft: SAND (SP)
191.0	86.0-94.0 ft: SAND (SW)
183.0	94.0-96.0 ft: SAND (SP)
181.0	96.0-101.0 ft: SILT (ML)
176.0	101.0-103.5 ft: SILTY SAND (SM)
173.5	103.5-108.5 ft: SILT (ML)
168.5	108.5-116.0 ft: SILTY SAND (SM)
161.0	116.0-119.5 ft: SAND (SP)
157.5	TOTAL DEPTH = 119.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B26

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE13 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 3.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 3.0 ft. To = 69.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 73.0 ft. To = 77.0 ft.
Type: 3/8" Holeplug Bentonite chips

BOTTOM SEAL

From = 109.0 ft. To = 119.5 ft.
Type: 3/8" Holeplug Bentonite Chips

24SVP13

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 69.0 ft. To = 73.0 ft.
Type: RMC Lonestar Monterey #3 Sand

SCREEN INFORMATION

From = 71.5 ft. To = 72.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: 1/8" wide hand slotted

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 72.0 ft.

24SVE13

RISER CASING

Dia. & Type: 2" diameter, Sch 40 PVC

FILTER PACK

From = 77.0 ft. To = 110.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 79.0 ft. To = 109.0 ft.
Dia. & Type: 2" diameter, Sch 40 PVC
Slot Size & Type: 0.020-inch, machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC end cap

TD OF WELL = 109.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B26

Template: WB

WELL CONSTRUCTION DETAILS

PROJECT and JOB NUMBER: *Clean II Program* *22214-073*		WELL NO.: 24SVE14	SHEET NO. 1 OF 2
PROJECT SITE: MCAS El Toro, CA		HOLE SIZE: 8-inches	BEGUN: 10-30-95
DRILLER: Water Development Corp.	COORDINATES: N 2,188,642.6 E 6,109,792.4	LOGGED BY: R. Cadiz	TD OF WELL: 108.0 / COMPLETED: 10-30-95
TOP of RISER CASING/GROUND ELEV. (ft, MSL): See below / 286.8	GROUND WATER DEPTH/ELEV. (Below TOC): ∇ Below TD of well	CHECKED BY: P. Brooks	TD OF HOLE: 115.5 / UPDATE: 2-6-96

(Template: WELL1, scale: 125)

Well Construction Details

Borehole 24B16 converted to one 2-inch diameter soil vapor extraction well and two 0.5-inch piezometers.

For complete geologic description, see borehole log of 24B16.

Top of riser casing elevation (ft, MSL)

24SVP14A = 286.51 ft.
24SVP14 = 286.37 ft.
24SVE14 = 286.48 ft.

24SVP14A - Soil Vapor Piezometer

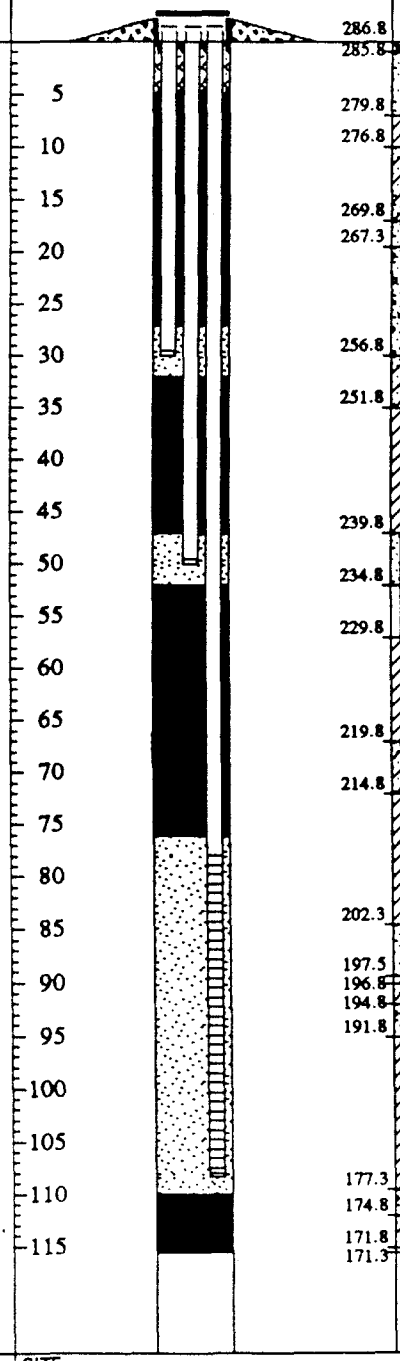
24SVP14 - Soil Vapor Piezometer

24SVE14 - Soil Vapor Extraction Well

Bottom of the borehole was backfilled with bentonite chips from 110.0 to 115.0 ft depth.

Borehole diameter:
0-110.0 ft depth = 8"
110.0-115.5 ft depth = 2.5"

Well Graphics



Geologic Description and Classification

0.0-1.0 ft: CONCRETE
1.0-7.0 ft: SILTY SAND (SM)
7.0-10.0 ft: CLAY (CL)
10.0-17.0 ft: CLAYEY SAND (SC)
17.0-19.5 ft: SILTY SAND (SM)
19.5-30.0 ft: SAND (SW)
30.0-35.0 ft: CLAYEY SAND (SC)
35.0-47.0 ft: CLAY (CL)
47.0-52.0 ft: SILTY SAND (SM)
52.0-57.0 ft: SILT (ML)
57.0-67.0 ft: CLAY (CL)
67.0-72.0 ft: CLAYEY SAND (SC)
72.0-84.5 ft: CLAY (CL)
84.5-89.3 ft: SILTY SAND (SM)
89.3-90.0 ft: SANDY CLAY (CL)
90.0-92.0 ft: CLAYEY SAND (SC)
92.0-95.0 ft: SAND (SW)
95.0-109.5 ft: CLAY (CL)
109.5-112.0 ft: SAND (SW)
112.0-115.0 ft: CLAYEY SAND (SC)
115.0-115.5 ft: CLAY (CL)

TOTAL DEPTH = 115.5 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.

SITE: Site 24, VOC Source Area

REFERENCE HOLE NO.: 24B16

WELL CONSTRUCTION DETAILS	PROJECT and JOB NUMBER *Clean II Program* *22214-073*	WELL NO. 24SVE14 SHEET NO. 2 OF 2

SURFACE COMPLETION

SURFACE COMPLETION

Dia. & Type: 12" Emco Wheaton Flush mounted Christy Box

CONCRETE

From = 0.0 ft. To = 5.0 ft.
Type: Reddi-Mix Concrete

SEALS

GROUT SEAL

From = 5.0 ft. To = 27.0 ft
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 32.0 ft. To = 47.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BENTONITE SEAL

From = 52.0 ft. To = 76.0 ft.
Type: 3/8" Holeplug Bentonite Chips

BOTTOM SEAL

From = 110.0 ft. To = 115.5 ft.
Type: 3/8" Holeplug Bentonite Chips

24SVP14A

RISER CASING

Dia. & Type: 0.5" diameter, Sch 40 PVC

FILTER PACK

From = 27.0 ft. To = 32.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 29.5 ft. To = 30.0 ft.
Dia. & Type: 0.5" diameter, Sch 40 PVC
Slot Size & Type: ~2mm wide slots, hand slotted, 2 rows, 12 slots/row

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 30.0 ft.

24SVP14

RISER CASING

Dia. & Type: 0.5" diameter, Sch 80 PVC

FILTER PACK

From = 47.0 ft. To = 52.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 49.5 ft. To = 50.0 ft.
Dia. & Type: 0.5" diameter, Sch 80 PVC
Slot Size & Type: ~2.2mm wide, hand slotted, 3 rows, 12 slots/row.

SUMP

Dia. & Type: 0.5" diameter PVC end cap

TD OF PIEZOMETER = 50.0 ft.

24SVE14

RISER CASING

Dia. & Type: 2" diameter, Sch 80 PVC

FILTER PACK

From = 76.0 ft. To = 110.0 ft.
Type: RMC Lonestar #3 Monterey Sand

SCREEN INFORMATION

From = 78.0 ft. To = 108.0 ft.
Dia. & Type: 2" diameter, Sch 80 PVC
Slot Size & Type: 0.020-inch machine slotted

SUMP

Dia. & Type: 2.0" diameter PVC endcap

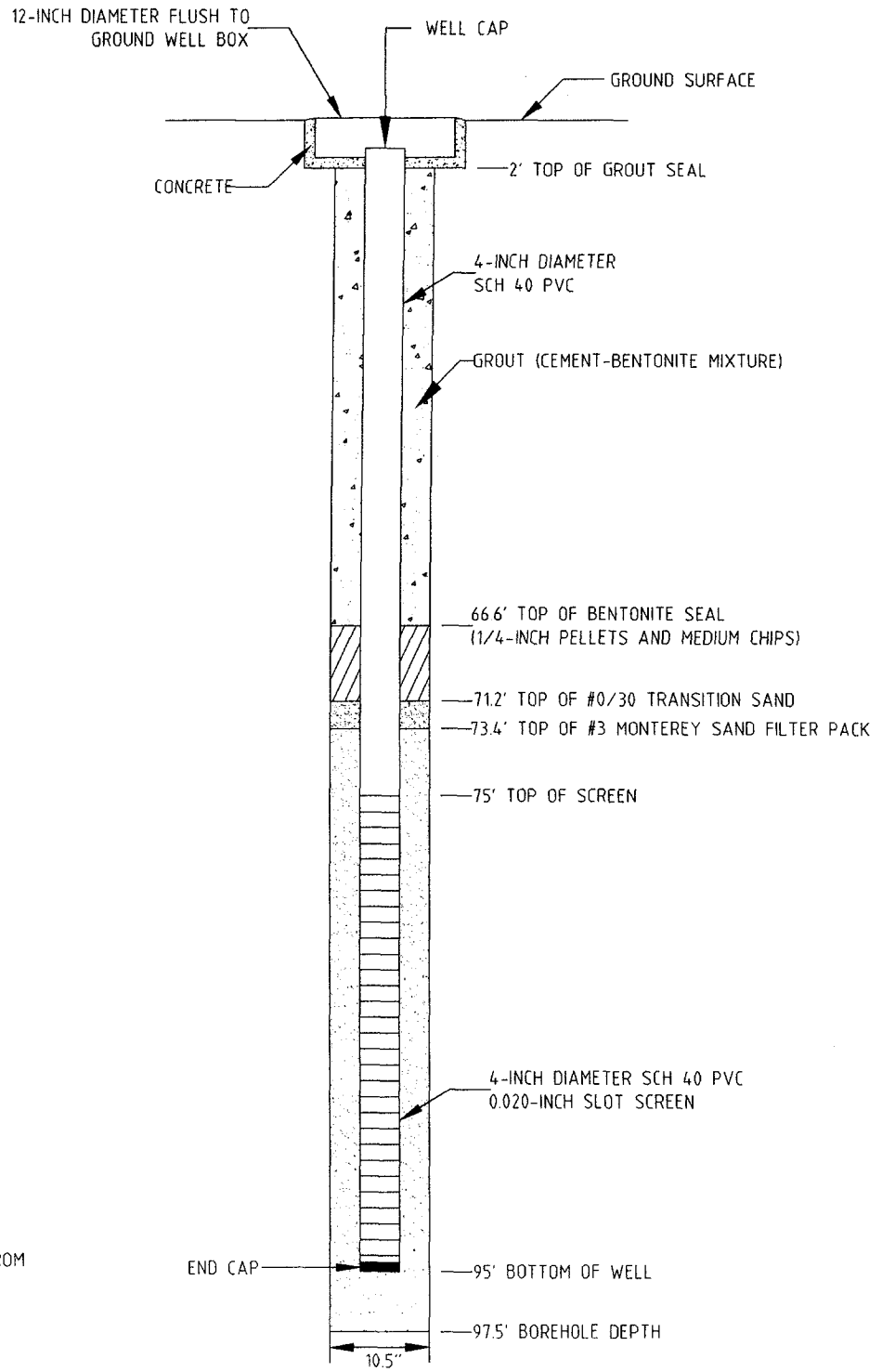
TD OF WELL = 108.0 ft.

See Figure C-1 for explanation of sampler symbols and material graphics.	SITE and LOCATION Site 24, VOC Source Area, MCAS El Toro, CA	REFERENCE HOLE NO. 24B16

Template: WB ...le: 125

Well Construction 24SVE-54

Project	MCAS/EL TORO	Northing	2188707.5952	Drilling Company	BC² ENVIRONMENTAL CORP
Project Number	918708	Easting	6109896.0173	Drill Rig	CME 85	Begin Drilling	12/17/98
Client	SWDIV	TOC Elevation	284.5	Driller	STEVE M.	End Drilling	12/17/98
Location	SITE 24	GS Elevation	284.92	Drill Method	HOLLOW STEM AUGER	Well Completion Date	12/17/98
Geologist	A. SIDDIQUI	DIAGRAM NOT TO SCALE			



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE
TOC=TOP OF CASING
GS=GROUND SURFACE
S.S.=STAINLESS STEEL

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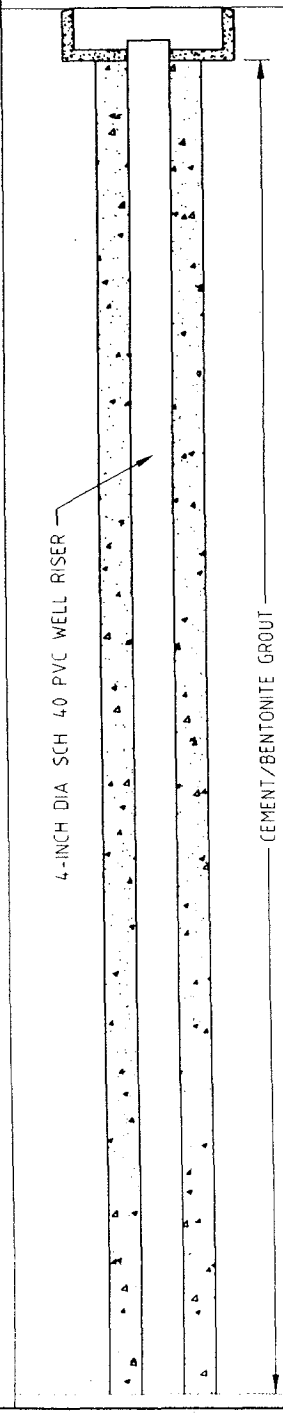
Geologic Log of Boring 24SVE-54

Project: **MCAS/EL TORO**	Northing: 2188707.5952	Drilling Company: BC² ENVIRONMENTAL CORP	
Project Number: **918708**	Easting: 6109896.0173	Drill Rig: CME-85	Begin Drilling: 12/17/98
Client: SWDIV	TOC Elevation: 284.50	Driller: STEVE M.	End Drilling: 12/17/98
Location: **SITE 24**	TOR Elevation: 284.92	Drill Method: HOLLOW STEM AUGER	Well Completion Date: 12/17/98
Geologist: A. SIDDIQUI	DIAGRAM NOT TO SCALE		
Borehole Diameter: 8 TO 10.5 INCHES	Total Depth of Borehole: 97.5 FEET	Depth to Water: NOT ENCOUNTERED	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
12" thick concrete at surface Top 16' hand augured. Soil in the top 16 feet consists predominantly of Silty Sand with lenses of poorly graded sand and silt at places	0 2 4 6 8 10 12 14 16 18	SM					
Poorly Graded Sand (SP). Light yellowish brown (10YR 6/4). 95% fine sand, 5% fines, slightly moist, medium dense	20 22 24 26 28	SP			0.0	9 12 12	6 6 6
Silty Sand (SM). Dark yellowish brown (10YR 3/6). 70% fine sand, 30% non plastic fines, slightly moist, medium dense	30 32 34 36	SM			0.0	10 12 14	6 6 6
Sandy Silt (ML). Brown (7.5 YR 5/4). 80% non to low plastic fine, 20% very fine sand, slightly moist, very stiff	38 40	ML			0.0	11 14	6 6

BORING DETAIL



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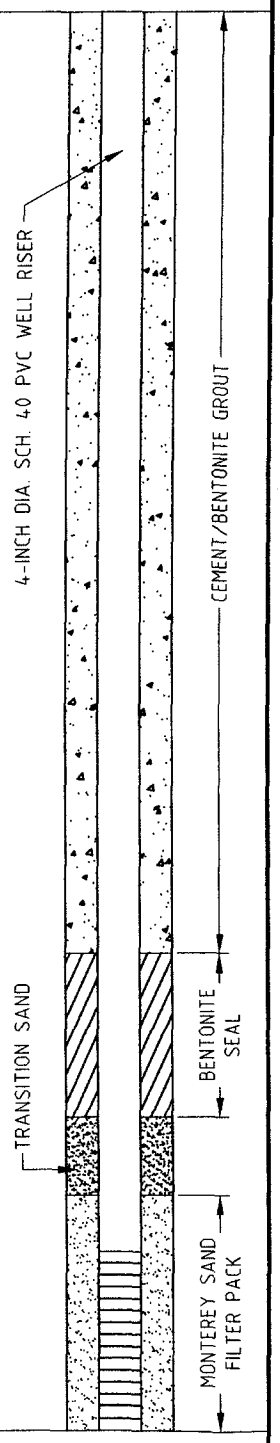
Geologic Log of Well 24SVE-54

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Brown (7.5 YR 4/4), 80% non to low plastic fine, 20% very fine sand, slightly moist, very stiff.	40	ML	0.0	17	6
	42				
	44				
	46	SP/SM			
	48				
Poorly Graded Sand with Silt (SP-SM): Dark yellowish brown (10YR 4/6), 92% fine sand, 8% fines, slightly moist, dense.	50		0.0	17 25 30	6 6 6
	52	SM			
	54				
	56				
	58				
Silty Sand (SM): Yellowish brown (10YR 5/4), 70% fine sand, 30% non plastic fines, slightly moist, dense.	60		0.0	18 25 32	6 6 6
	62				
Silty Sand (SM): Yellowish brown (10YR 5/4), 85% fine Sand, 15% non plastic fines, slightly moist, dense.	64		0.0	25 34 40	6 6 6
	66				
	68				
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand, 25% non plastic fines, slightly moist, dense to very dense.	70		0.0	29 40 50	6 6 6
	72				
Silty Sand (SM): Same as above, dense.	74		0.0	25 33 37	6 6 6
Silt (ML): Dark brown (10YR 3/3), 90% low plastic fines, 10% fine sand, slightly moist, hard.	76	ML			
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand, 25% low plastic fine, slightly moist, dense. interbedded with sandy silt at places.	78	SM	0.0	23 29 35	6 6 6
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand,25% non to low plastic fine, dense.	80		0.0	23 30	6 6

WELL DETAIL



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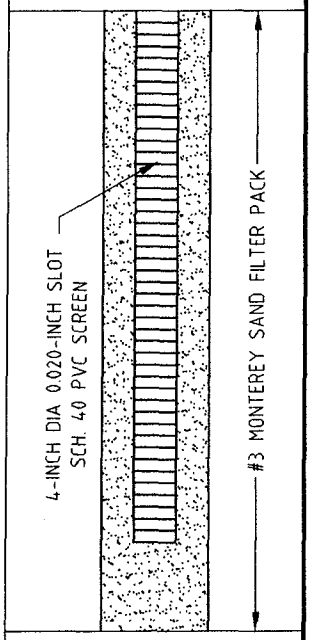
Geologic Log of Well 24SVE-54

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand, 25% non to low plastic fine, dense.	80	SM				35	6
Poorly Graded Sand with Silts (SP-SM): Yellowish brown (10YR 5/4), 85% fine to medium to coarse sand (mostly fine), 10% fine to coarse (mostly fine) sub angular to sub rounded gravel, 5% fines, slightly moist, dense, (max 15" gravel)	82	SP/ SM			0.0	22 33 37	6 6 6
Poorly Graded Sand (SP): Light yellowish brown (2.5Y 6/4), 100% fine sand, slightly moist, dense, very well sorted.	84	SP			0.0	19 26 34	6 6 6
Poorly Graded Sand (SP): Same as above, Very well sorted.	86				0.0	24 31 37	6 6 6
Attempted sampling b/w 89'-90.5', but no recovery.	88						
	90						
Silty Sand (SM). Dark yellowish brown (10YR 5/4), 70% vert fine sand, 30% low plastic fines, slightly moist to moist, dense.	92	SM			0.0	19 24 29	6 6 6
	94						
Silt (ML): Brown (10YR 4/3), 90% medium plastic fine, 10% very fine sand, slightly moist to moist, dense. TD=97.5 ft.	96	ML			0.0	17 26 32	6 6 6
	98						
	100						
	102						
	104						
	106						
	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



OHM Remediation Services Corp.

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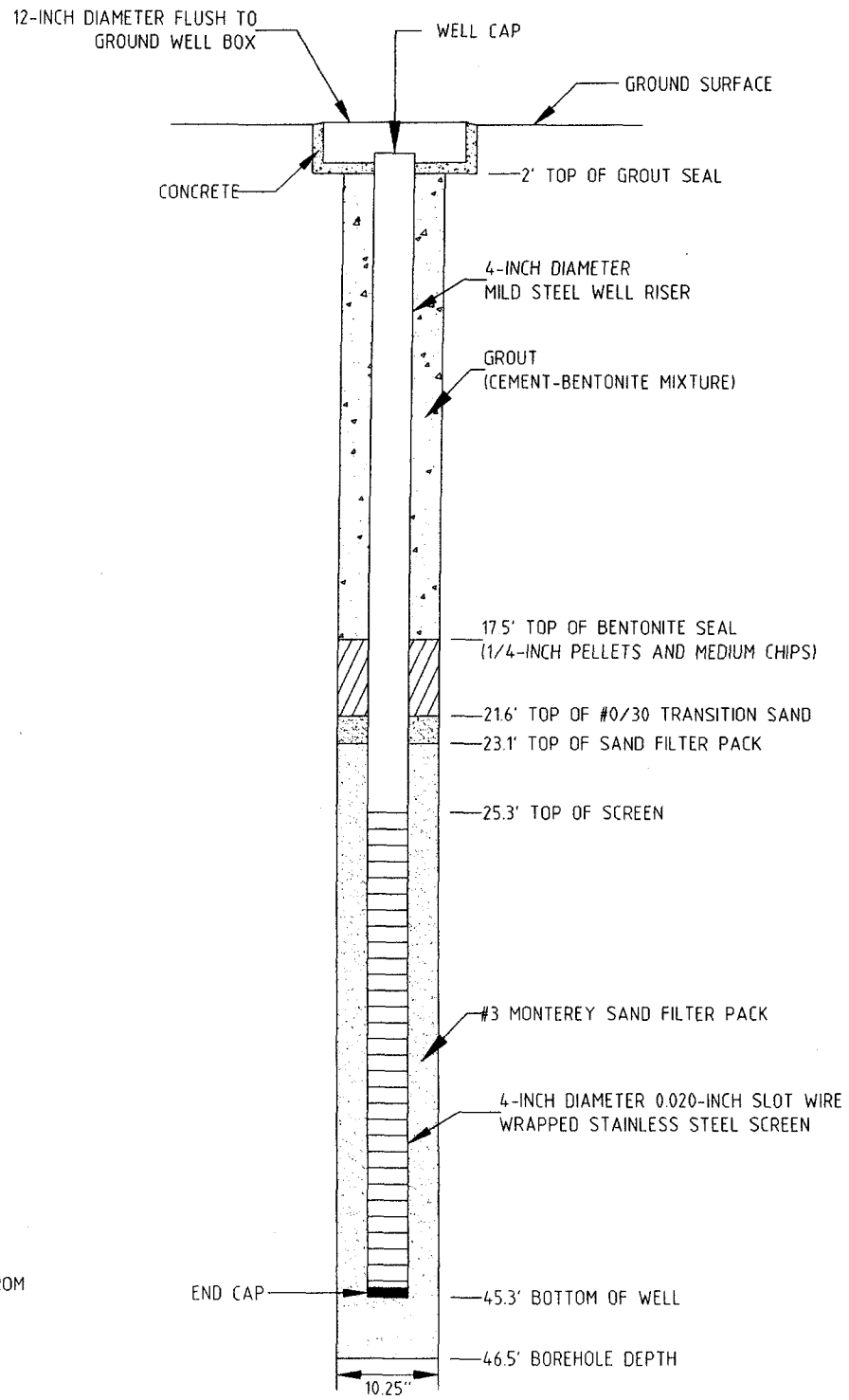
Well Construction 24SVE-104B

Project	MCAS/EL TORO	Northing	2188294.7032	Drilling Company	BC² ENVIRONMENTAL CORP
Project Number	918708	Easting	6110309.4236	Drill Rig	CME 85	Begin Drilling	11/16/98
Client	SWDIV	TOC Elevation	289.56	Driller	STEVE M.	End Drilling	11/16/98
Location	SITE 24	TOR Elevation	289.92	Drill Method	HOLLOW STEM AUGER	Well Completion Date	11/16/98
Geologist	A. SIDDIQUI	DIAGRAM NOT TO SCALE			



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE
TOC=TOP OF CASING
GS=GROUND SURFACE
S.S.=STAINLESS STEEL

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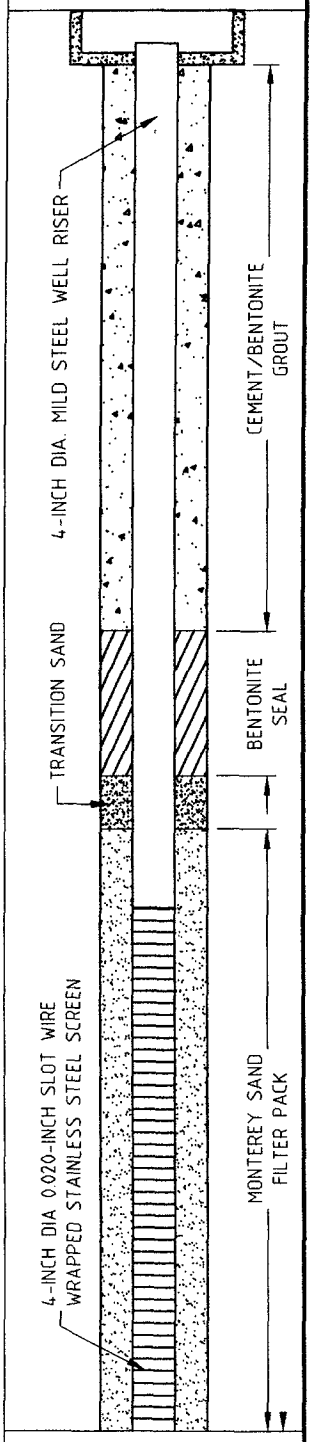
Geologic Log of Boring 24SVE-104B

Project **MCAS/EL TORO**	Northing 2188294.7032	Drilling Company BC² ENVIRONMENTAL CORP	
Project Number **918708**	Easting 6110309.4236	Drill Rig CME-85	Begin Drilling 11/16/98
Client SWDIV	TOC Elevation 289.56	Driller STEVE M.	End Drilling 11/16/98
Location **SITE 24**	GS Elevation 289.92	Drill Method HOLLOW STEM AUGER	Well Completion Date 11/16/98
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE		
Borehole Diameter 8 TO 10.25 INCHES	Total Depth of Borehole 46.5 FEET	Depth to Water -	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
12" concrete at surface. Top 16' hand augured, soil in the top 16 ft consists generally of Silty Sand, with lenses of poorly graded Sand and Sandy Silt.	0–18	SM					
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 70% fine sand, 30% low plastic fines, medium dense, slightly moist, no odor.	18–22				0.0	11 13 14	6 6 6
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand, little coarse sand, <5% fines, trace fine to coarse subrounded gravel (max 1-inch), medium dense, slightly moist.	22–28	SP			0.0	11 13 21	6 6 6
Poorly Graded Sand (SP): Light yellowish brown (10YR 6/4), 95% fine to medium sand, 5% fines, medium dense, slightly moist.	28–32				0.0	12 17 20	6 6 6
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand, trace fines, trace fine subrounded gravel, (1/4-inch max), dense, slightly moist. Auger chatter at 37 ft. possible 1 to 2 ft thick gravel layer.	32–36				0.0	15 25 30	6 6 6
Gravelly Sand (SP): Yellowish brown (10YR 5/4), 80% fine to medium to coarse sand, 20% fine to coarse subrounded gravel, occasional cobble, dense, slightly moist.	36–40					16 24	

BORING DETAIL



OHM Remediation Services Corp.

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Geologic Log of Well 24SVE-104B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (6 inches)	WELL DETAIL
Gravelly Sand (SP): Yellowish brown (10YR 5/4), 80% fine to medium to coarse sand, 20% fine to coarse subrounded gravel, occasional cobble, dense, slightly moist.	40	SP				29		4-INCH DIA 0.020-INCH SLOT WIRE WRAPPED STAINLESS STEEL SCREEN; MONTEREY SAND FILTER PACK
	42							
Gravelly Sand (SP): Yellowish brown (10YR 5/4), 75% fine to medium to coarse sand, 20% fine to coarse subrounded to subangular gravel, 5% fines, very dense, slightly moist.	44					25		
	46					50		
Total Depth=45 ft. Borehole reamed with 10.25-inch augers to 46.5 bgs for well installation.	48							
	50							
	52							
	54							
	56							
	58							
	60							
	62							
	64							
	66							
	68							
	70							
	72							
	74							
	76							
	78							
	80							

OHM Remediation Services Corp.

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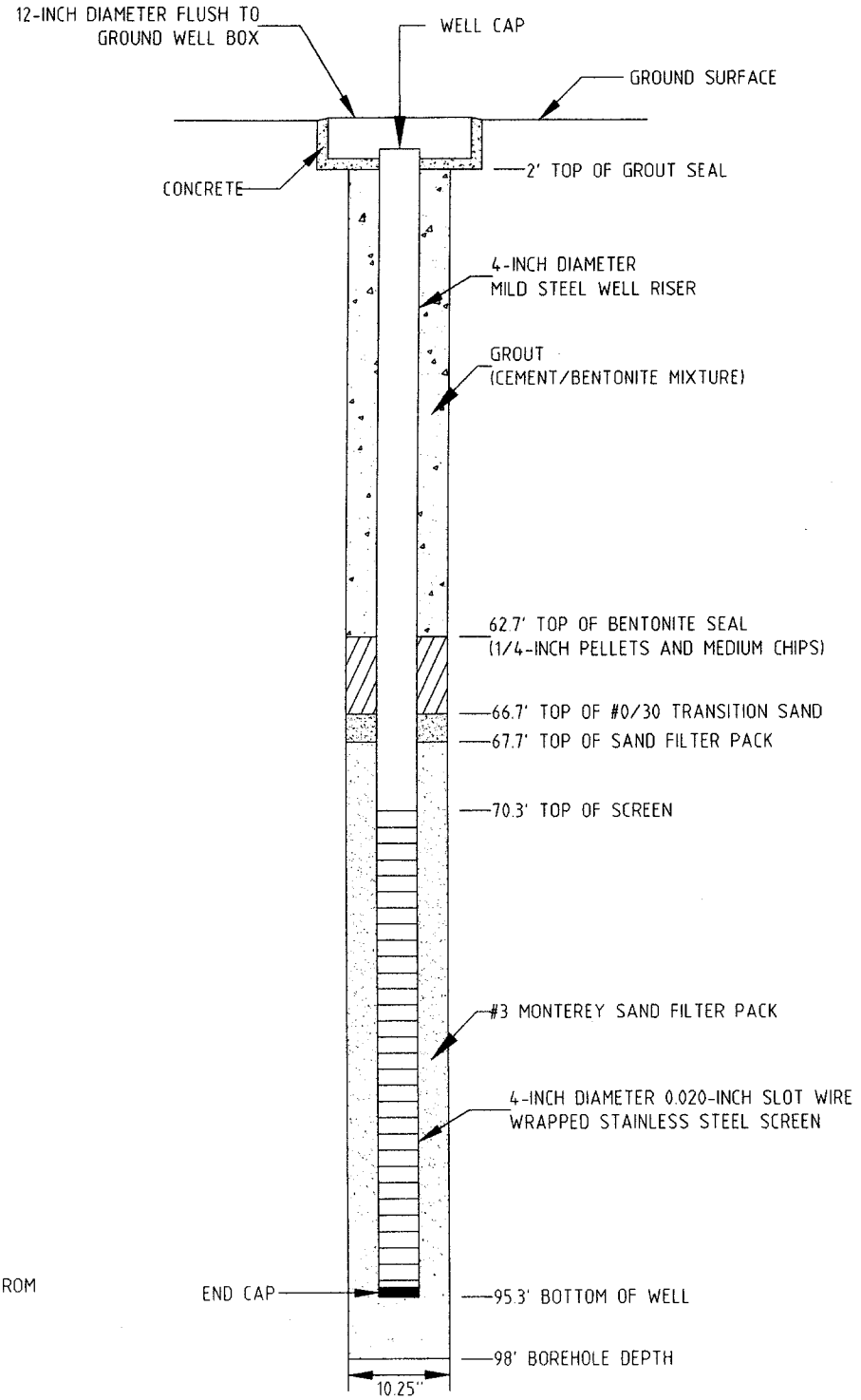
Well Construction 24SVE-107

Project MCAS/EL TORO	Northing 2188323.8935	Drilling Company BC² ENVIRONMENTAL CORP			
Project Number 918708	Easting 6110123.4814	Drill Rig CME 85		Begin Drilling 11/17/98	
Client SWDIV	TOC Elevation 289.95	Driller STEVE M.		End Drilling 11/17/98	
Location SITE 24	TOR Elevation 290.07	Drill Method HOLLOW STEM AUGER		Well Completion Date 11/17/98	
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE				



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE
TOC=TOP OF CASING
GS=GROUND SURFACE
S.S.=STAINLESS STEEL

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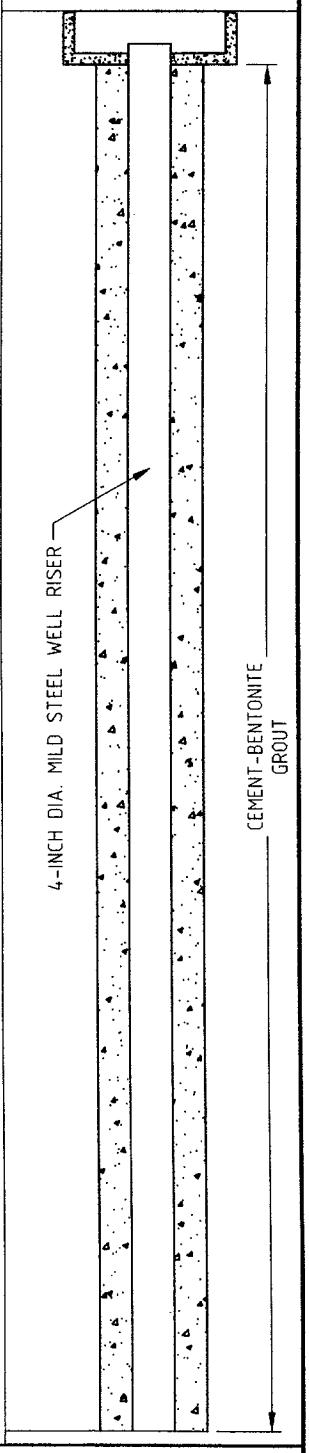
OHM Remediation Services Corp.

Geologic Log of Boring 24SVE-107

Project **MCAS/EL TORO**	Northing 2188323.8935	Drilling Company BC² ENVIRONMENTAL CORP	
Project Number **918708**	Easting 6110123.4814	Drill Rig CME-85	Begin Drilling 11/17/98
Client SWDIV	TOC Elevation 289.95	Driller STEVE M.	End Drilling 11/17/98
Location **SITE 24**	TOR Elevation 290.07	Drill Method HOLLOW STEM AUGER	Well Completion Date 11/17/98
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE		
Borehole Diameter 10.25 INCHES	Total Depth of Borehole 100.5 FEET	Depth to Water NOT ENCOUNTERED	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
12" concrete at surface. Top 16' hand augured. Soil within top 16 feet predominantly consists of silty sand with minor amount of poorly graded sand and sandy silt.	0–18	SM					
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 70% fine sand, 30% low plastic fines, medium dense, slightly moist.							
Sandy Silt (ML): Dark yellowish brown (10YR 3/3), 80% medium plastic fines, 20% fine sand, very stiff, slightly moist.	18–28	ML		20	0.0	7, 10, 11	6, 6, 6
Sandy Silt (ML): Strong brown (7.5YR 4/6), 80% medium plastic fines, 20% fine sand, very stiff, sightly moist. Interbeded with thin lenses of sand.	28–36			30	0.0	10, 15, 30, 5	6, 6, 6, 6
Sandy silt (ML): Dark yellowish brown (10YR 4/6), 85% medium plastic fines, 15% fine sand, very stiff, slightly moist.	36–40			40	0.0	14, 17	6, 6

BORING DETAIL



OHM Remediation Services Corp.

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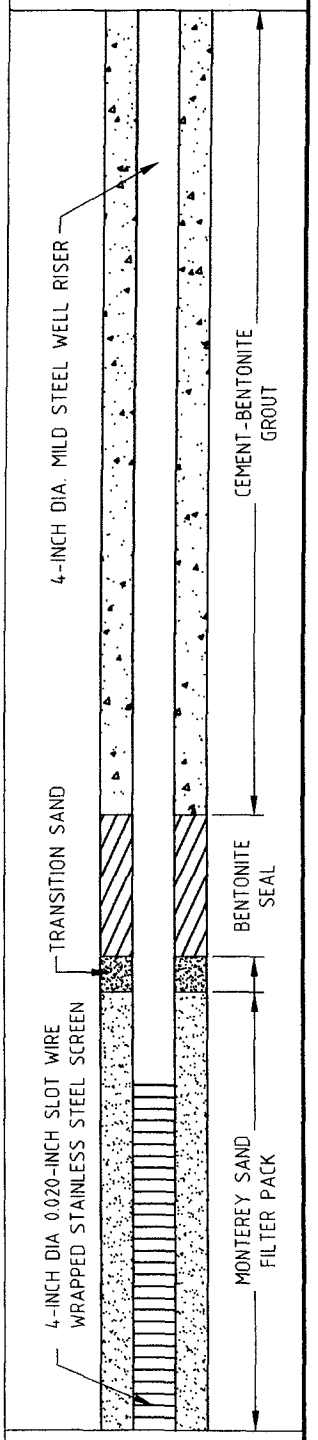
Geologic Log of Well 24SVE-107

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand, 25% low plastic fines, medium dense, slightly moist, well sorted, at places grades into poorly graded sand (SP).	40	SP			0.0	21	6
	42						
	44						
	46						
	48						
Poorly graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand <5% fines, medium dense, slightly moist.	50				0.0	19 20 23	6 6 6
	52						
	54						
At 56 feet auger grind and chatter, gravel up to 2-inch diameter, came out of soil cuttings.	56						
	58						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 80% low plastic fines, 20% very fine sand, slightly moist, hard.	60	ML			0.0	16 24 31	6 6 6
Silty Sand (SM). Yellowish brown (10YR 5/4), 70% fine to medium sand, 20% fines, 10% fine to coarse subrounded gravel, dense, slightly moist. Interfingering silts and sands.	62	SM					
Silty Sand (SM): Yellowish brown (10YR 5/6), 70% fine sand, 30% low plastic fines, dense, slightly moist.	64				0.0	19 23 32	6 6 6
Silt (ML): Dark yellowish brown (10YR 4/4), 90% medium plastic fines, 10% fine sand, hard, slighty moist. Interfingering silts and sands.	66	ML					
	68						
Sandy Silt (ML): Dark yellowish brown (10YR 4/4), 80% low to medium plastic fines, 20% fine sand, hard, slightly moist.	70				0.0	20 27 35	6 6 6
Silty Sand (SM): Yellowish brown (10YR 4/4), 85% fine snad, 15% fines, dense, slightly moist. Interfingering silts and sands.	72	SM					
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 70% fine to medium sand, 30% low plastic fines, dense, slightly moist.	74					21 29 37	6 6 6
Sandy Silt (ML): Dark yellowish brown (10YR 4/4), 80% low plastic fines, 20% fine sand, hard, slightly moist. Very slow drilling from 76 ft. to 78 ft.	76	ML					
	78						
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand, <5% fines, trace fine subrounded gravel (1/2-inch max), dense to very dense, slightly moist.	80	SP			0.0	28 39	6 6

WELL DETAIL

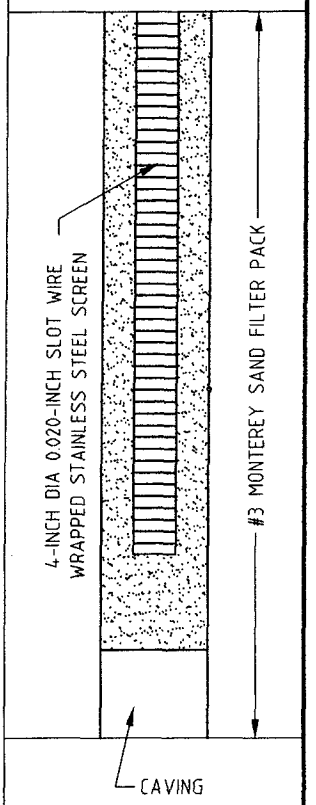


Geologic Log of Well 24SVE-107

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand <5% fines, trace fine subrounded gravel (1/2-inch max), dense to very dense, slightly moist.	80	SP			0.0	50	6
	82						
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% very fine sand, 25% low plastic fines, dense, slightly moist. Interbeded with silt at places.	84	SM			0.0	25 31 44	6 6 6
	86						
	88						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine to medium sand, 20% non to low plastic fines, medium dense, slightly moist.	90				0.0	17 22 24	6 6 6
	92						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine sand, 20% low plastic fine, dense, slightly moist to moist, very well sorted.	94				0.0	14 22 28	6 6 6
	96						
Sandy Silt (ML): Yellowish brown (10YR 3/4), 75% low to medium plastic fines, 25% fines, very stiff, moist. *Totall depth=100 5 feet*	98	ML			0.0	10 15 21	6 6 6
	100						
	102						
	104						
	106						
	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



OHM Remediation Services Corp.

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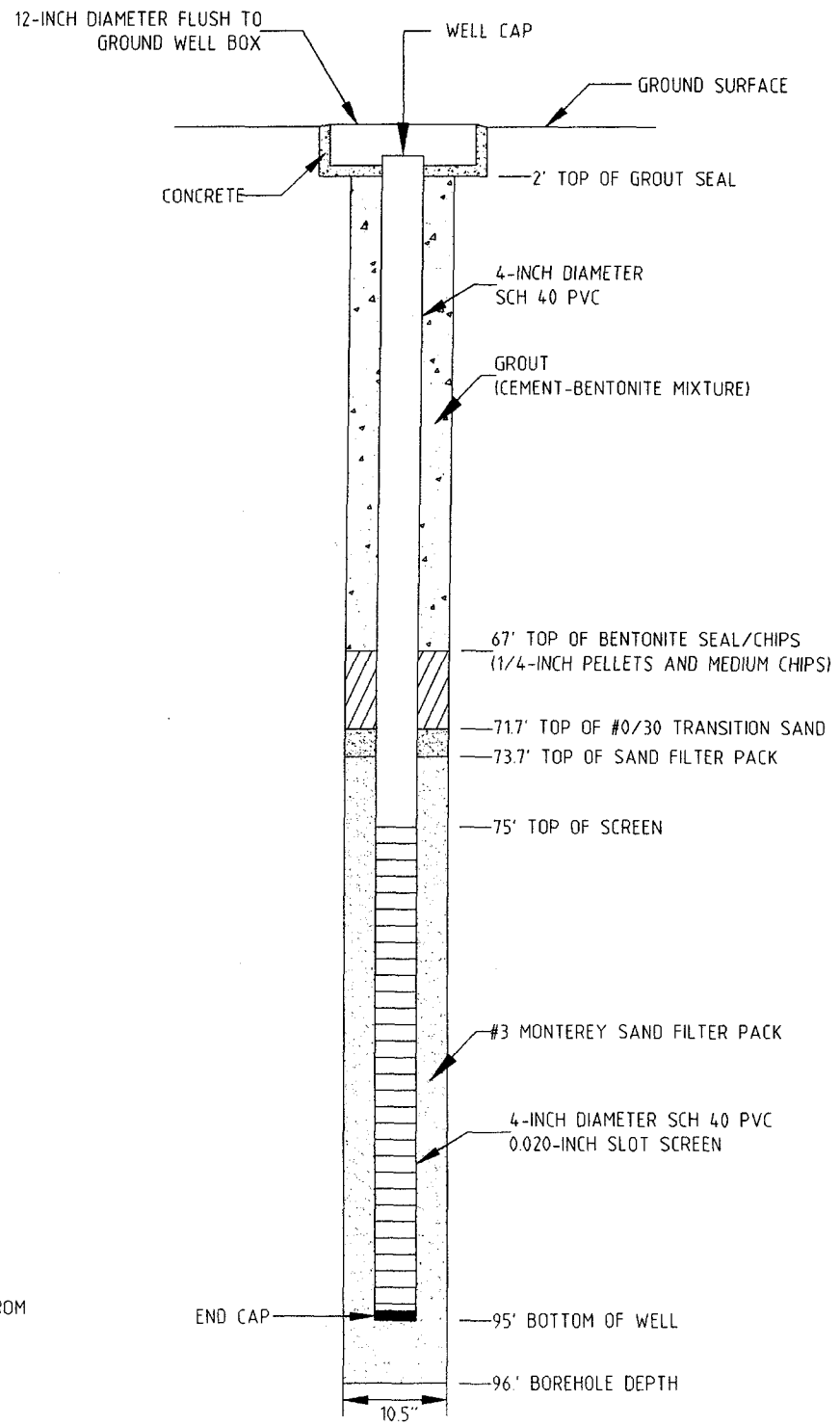
Well Construction 24SVE-116

Project MCAS/EL TORO	Northing 2188008.2047	Drilling Company BC² ENVIRONMENTAL CORP	
Project Number 918708	Easting 6110203.5634	Drill Rig CME 85	Begin Drilling 12/16/98
Client SWDIV	TOC Elevation 286.37	Driller STEVE M.	End Drilling 12/16/98
Location SITE 24	TOR Elevation 286.91	Drill Method HOLLOW STEM AUGER	Well Completion Date 12/16/98
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE		



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE
TOC=TOP OF CASING
GS=GROUND SURFACE
S.S.=STAINLESS STEEL

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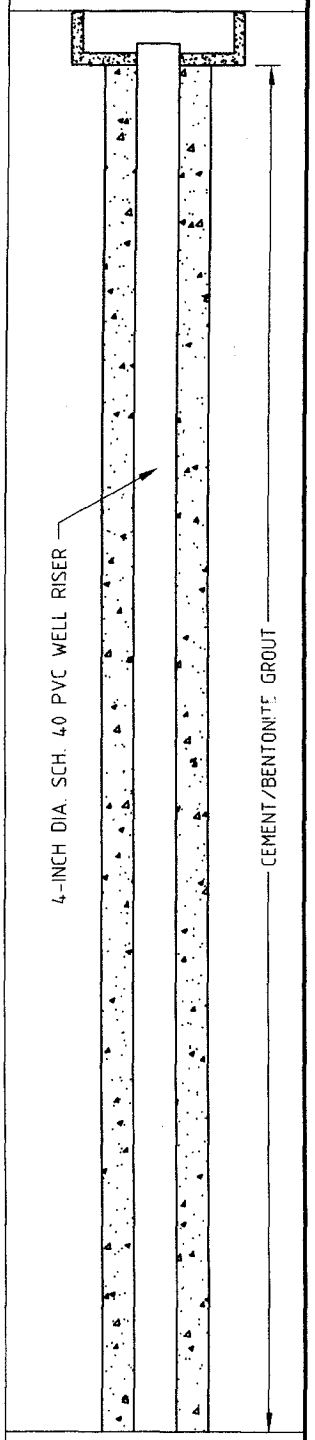
Geologic Log of Boring 24SVE-116

Project **MCAS/EL TORO**	Northing 2188008.2047	Drilling Company BC² ENVIRONMENTAL CORP	
Project Number **918708**	Easting 6110203.5634	Drill Rig CME-85	Begin Drilling 12/16/98
Client SWDIV	TOC Elevation 286.37	Driller STEVE M.	End Drilling 12/16/98
Location **SITE 24**	TOR Elevation 286.91	Drill Method HOLLOW STEM AUGER	Well Completion Date 12/16/98
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE		
Borehole Diameter 8 TO 10.5 INCHES	Total Depth of Borehole 99 FEET	Depth to Water NOT ENCOUNTERED	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
12" thick concrete at surface. Top 16' hand augured. Soil in top 16 feet consists predominantly of Silty Sands with minor amount of poorly graded sand and silt.	0–16	SM					
Poorly graded sand with silt (SP-SM): Yellowish brown (10YR 5/4), 90% fine sand, 10% fines, medium dense, slightly moist.	16–28	SP/SM		18–20	0.0	11 6 3	6 6 6
Sandy Silt (ML): Brown (7.5YR 4/4), 85% low plastic fines, 15% very fine sand (interbeded), slightly moist, very stiff.	28–38	ML		28–30	0.0	9 7 3	6 6 6
Sandy Silt (ML): Dark yellowish brown (10YR 4/4), 80% low plastic fines, 20% fine sand, slightly moist, very stiff. Interbeded with silty sand and sand.	38–40			38–40	0.0	5 5 3	6 6 6

BORING DETAIL



OHM Remediation Services Corp.

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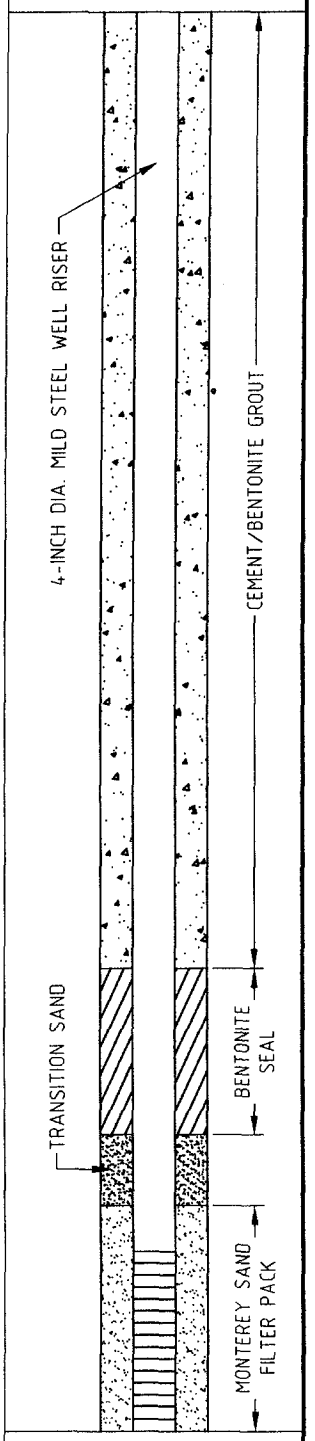
Geologic Log of Well 24SVE-116

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Dark yellowish brown (10YR 4/4), 80% low plastic fines, 20% fine sand, slightly moist, very stiff. Interbeded with silty sand and sand.	40	ML			0.0	22	6
	42						
	44						
	46						
	48						
Sandy Silt Same as above						15	0
	50				0.0	22	6
						27	6
Gravelly Sand (SP): Light yellowish brown (10YR 6/4), 75% fine to medium sand, 25% fine to coarse subangular to subrounded gravel (1.5-inch max), dry, dense. Auger chattered at ~50 to 52 ft. Gravel ends at 52 ft.	52	SP					
	54						
	56						
	58						
					0.0	17	6
Silt (ML): Dark yellowish brown (10YR 4/4), 90% low plastic fines, 10% very fine sand, slightly moist, hard.	60	ML				26	6
						35	6
	62						
Silt (ML): Brown (10YR 4/3), 95% low to medium plastic fines, 5% very fine sand, slightly moist, hard.	64					21	6
					0.0	29	6
						40	6
	66						
	68						
Sandy Silt (ML): Dark yellowish brown (10YR 4/4), 85% low plastic fines, 15% very fine sand, slightly moist, hard.					0.0	18	6
	70					27	6
						34	6
	72						
Silty Sand (SM): Light yellowish brown (10YR 6/4), 80% very fine sand, 20% low plastic fines, slightly moist, dense, well sorted.	74				0.0	20	6
						29	6
						38	6
	76	SM					
	78						
Silty Sand (SM): light yellowish brown (10YR 6/4), 75% very fine sand, 25% low plastic fines, slightly moist, dense.					0.0	19	6
	80					28	6

WELL DETAIL

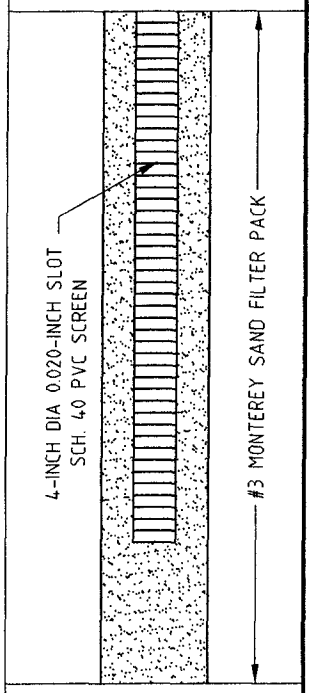


Geologic Log of Well 24SVE-116

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): light yellowish brown (10YR 6/4), 75% very fine sand, 25% low plastic fines, slightly moist, dense.	80	SM				38	6
	82						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine sand, 20% low plastic fines, slightly moist, dense.	84				0.0	21 29 37	6 6 6
Poorly Graded Sand (SP): Very pale brown (10YR 7/3), 100% fine sand, trace fines, slightly moist, dense, well sorted.	86				0.0	23 33 38	6 6 6
	88	SP					
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 65% fine sand, 35% low plastic fines, slightly moist, dense.	90	SM			0.0	25 34 40	6 6 6
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 70% fine sand, 30% low plastic fines, slightly moist, dense.	92				0.0	18 26 36	6 6 6
Silty Sand (SM): Yellowish brown (10YR 5/6), 75% fine sand, 25% low plastic fines, slightly moist, dense.	94				0.0	17 28 35	6 6 6
	96	SP					
Poorly Graded Sand (SP): Light yellowish brown (10YR 6/4), 100% fine (mostly) to medium sand, trace fines, slightly moist, dense.	98				0.0	25 34 40	6 6 6
Total Depth=99 feet	100						
	102						
	104						
	106						
	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



OHM Remediation Services Corp.

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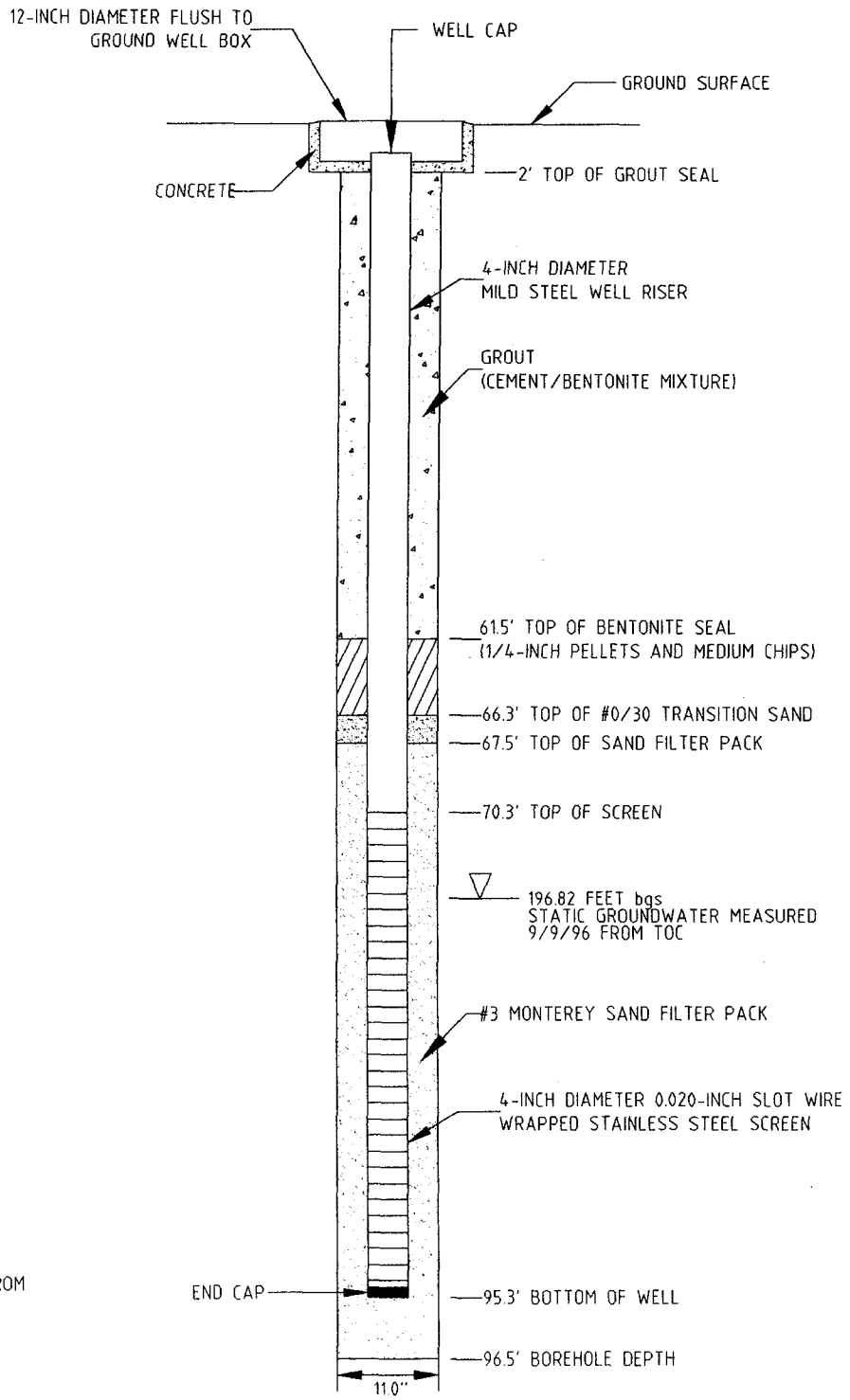
Well Construction 24SVE-161

Project	MCAS/EL TORO	Northing	2188608.9354	Drilling Company	BC² ENVIRONMENTAL CORP
Project Number	918708	Easting	6110147.4834	Drill Rig	CME 85	Begin Drilling	11/19/98
Client	SWDIV	TOC Elevation	289.91	Driller	STEVE M.	End Drilling	11/19/98
Location	SITE 24	TOR Elevation	290.19	Drill Method	HOLLOW STEM AUGER	Well Completion Date	11/19/98
Geologist	A. SIDDIQUI	DIAGRAM NOT TO SCALE			



NOTES:

DEPTHS ARE REFERENCED FROM 0 FEET GROUND SURFACE.
TOC=TOP OF CASING
GS=GROUND SURFACE
S.S.=STAINLESS STEEL

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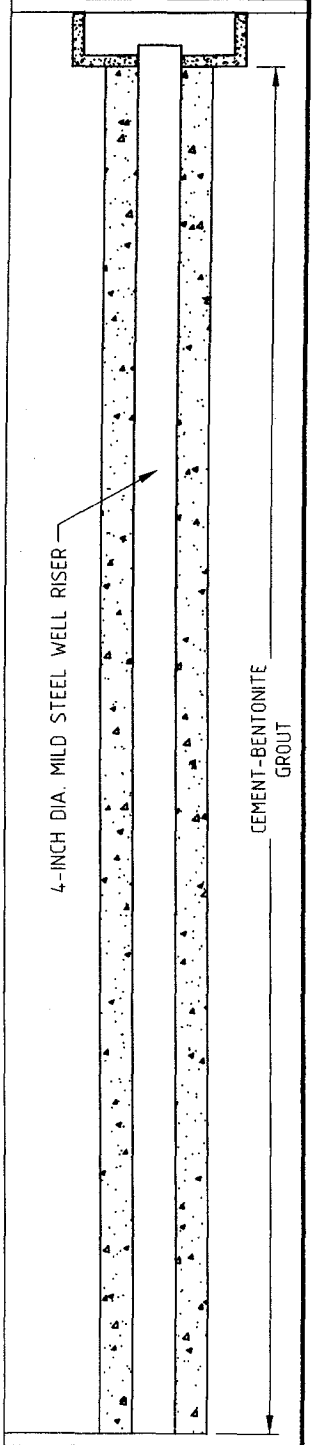
OHM Remediation Services Corp.

Geologic Log of Boring 24SVE-161

Project **MCAS/EL TORO**	Northing 2188608.9354	Drilling Company BC² ENVIRONMENTAL CORP	
Project Number **918708**	Easting 6110147.4834	Drill Rig CME-85	Begin Drilling 11/18/98
Client SWDIV	TOC Elevation 289.91	Driller STEVE M.	End Drilling 11/18/98
Location **SITE 24**	TOR Elevation 290.19	Drill Method HOLLOW STEM AUGER	Well Completion Date 11/19/98
Geologist A. SIDDIQUI	DIAGRAM NOT TO SCALE		
Borehole Diameter 8 /10.25 INCHES	Total Depth of Borehole 100.5 FEET	Depth to Water NOT ENCOUNTERED	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
12" concrete at surface. Top 16' hand augured. Soil within top 16 feet predominantly consists of poorly graded sand with silt and minor amounts of silty sand.	0–18	SP/SM					
Poorly graded sand with silt (SP-SM): Yellowish brown (10YR 5/4), 90% fine to medium sand, 10% fines, medium dense, slightly moist.	18–28				0.0	6 8 12	6 6 6
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand, <5% fines, trace fine subrounded gravel, medium dense, slightly moist.	28–38	SP			0.0	9 16 22	6 6 6
Poorly Graded Sand (SP): Same as above but no gravel.	38–40				0.0	9 11	6 6



OHM Remediation Services Corp.

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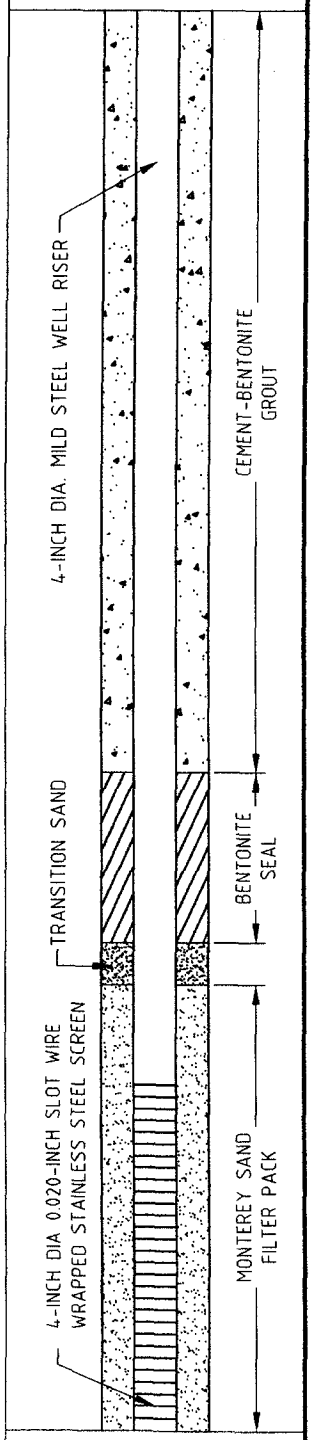
Geologic Log of Well 24SVE-161

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium sand, <5% fines, trace fine subrounded gravel, medium dense, slightly moist.	40	SP			0.0	15	6
	42						
	44	ML					
	46						
	48						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 70% low plastic fines, 30% fine sand, very stiff, slightly moist.	50				0.0	13 17 25	6 6 6
	52						
	54						
Poorly Graded Sand with Silt (SP-SM): Yellowish brown (10YR 5/4), 90% fine sand, 10% fine medium dense, slightly moist Interbedded with silty sand.	56	SP/ SM					
	58						
Silty Sand (SM): Dark Yellowish brown (10YR 4/4), 70% fine sand, 30% low plastic fine, medium dense, slightly moist. Interbedded with silt.	60	SM			0.0	13 15 18	6 6 6
	62						
Silty Sand (SM): Yellowish brown (10YR 5/6), 70% fine sand, 30% low plastic fines, medium dense, slightly moist.	64				0.0	13 12 16	6 6 6
Sandy Silt (ML): Dark yellowish brown (10YR 3/4), 85% low to medium plastic fines, 15% fine sand, very stiff, slightyl moist.	66	ML					
	68						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 70% low plastic fines, 30% fine sand, very stiff, slightly moist.	70				0.0	10 15 23	6 6 6
	72						
Sandy Silt (ML). Dark yellowish brown (10YR 4/6), 75% low plastic fines, 25% fine sand, very stiff, slightly moist. Interbedded with silty sand.	74					11 15 20	6 6 6
	76						
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 80% fine sand, 20% low plastic fines, medium dense, slightly moist.	78	SM				10 12	6 6
	80						

WELL DETAIL



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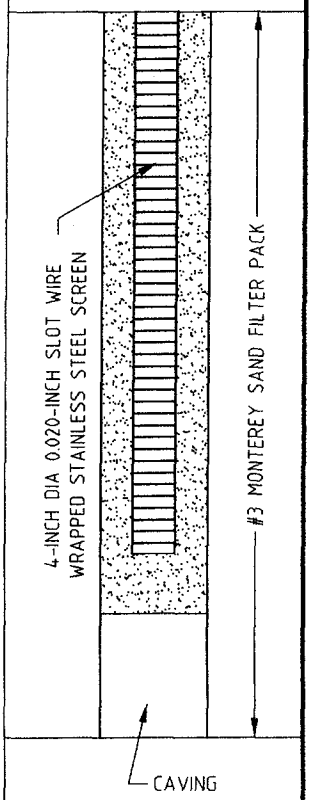
Geologic Log of Well 24SVE-161

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silt (ML): Dark yellowish brown (10YR 4/6), 90% medium plastic fines, 10% fine sand, very stiff, slightly moist.	80	ML				15	6
	82						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 60% low plastic fine, 40% fine sand, slightly moist, very stiff to hard grade into Silty Sand.	84					15 20 23	6 6 6
	86						
	88	SP					
Poorly Graded Sand (SP): Light yellowish brown (10YR 6/4), 95% fine to medium sand, <5% fine, medium dense, slightly moist.	90				0.0	9 16 22	6 6 6
Silt (ML): Yellowish brown (10YR 5/4), 90% low plastic fines, 10% fine sand, very stiff, slightly moist.		ML					
	92						
Silty Sand (SM): Yellow brown (10YR 5/4), 85% very fine sand, 15% fines, medium dense, slightly moist.		SM					
	94				0.0	8 11 12	6 6 6
Silt (ML): Dark Yellowish brown (10YR 3/4), 90% medium plastic fines, 10% fine sand, very stiff, slightly moist.	96	ML					
	98	SM					
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine to medium sand, low plastic fines, medium dense, slightly moist. Totall depth=100.5 feet.	100				0.0	9 14 19	6 6 6
	102						
NOTE: Prior to reaming bottom of borehole tagged at 97 feet bgs indicating ~3 feet of caving.	104						
	106						
	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



OHM Remediation Services Corp.

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SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE1	Total Depth/ Water Depth:				Remote Wells			SVE-8	SVE-8A	SVE-7	SVE-7A	SVE-6	SVE-4
					Casing Info.								
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp						
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
11/20/98	1300		30	5	200	8.8	125	0.05	0.15	0	0.1	0.6	0.1
11/23/98	1300		30	5	200	6.4	125	0.05	0.15	0.2	0	0.8	0.1
11/25/98	715		32	6	210	6.7	115	0	0.05	0.05	0	1.2	0.05

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE2	Total Depth/ Water Depth:				Remote Wells			SVE-54	SVE-14	SVP-14(Pz	SVP-14A(Pz	SVE-7	SVE-7A	SVP-7(Pz	SVE-6	SVP-6(Pz)	SVP-6A(Pz)	SVE-3	SVE-3A	SVE-2A	SVP-2	SVE-1
					Casing Info.				TD =108	TD=	TD=											
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp		78/108													
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc			in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/7/99	1630		60	8	13	102	145	0	0	0	0	0	0	0	0.46	0.32	0.4	0.14	0.1	0.4	0.08	0.1
1/8/99	1320		15		36	74.3	146		0.06	0	0.03	0	0	0						0.6	0.2	
1/11/99	750		34	8.5	17	79.9	130	Shutdown/NR														

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE2A	Total Depth/ Water Depth:				Remote Wells				SVE-14	SVP-14(Pz	SVP-14A(Pz)				SVE-6	SVP-6(Pz)	SVP-6A(Pz)	SVE-3	SVE-3A	SVE-2	SVP-2	SVE-1
					Casing Info.				TD =108	TD=	TD=											
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp		78/108	deep	shallow											
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc			in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/11/99	1130		74	6.5	70	24.1	110		0	0	0				0.44	0.15	0.13	0	0	2.6	1.2	
1/12/99	920		70	6.5	80	0	115		NR	NR	NR				1.0	0.8	0.6	0.3	0.2	3.5	1.5	0.54

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE3	Total Depth/ Water Depth:				Remote Wells			SVE-3A		SVE-7	SVE-7A	SVE-2A	SVE-2
					Casing Info.								
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp						
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/22/98	1720		80	NR	65	56.8	140	1.7		0.16	0.13	1.0	1.0
12/24/98	815		54		73	42.7	140	1.4		0.50	0.56	0.46	0.46
12/28/98	900		49		70	46.7	140	1.18		0.23	0.20	0.16	0.16

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE3A	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-54	SVE-7	SVE-7A	SVP-7	SVE-2A	SVE-2	SVE-14	SVP-14A	SVP-14	SVP-6	SVP-6A	SVE-4	SVE-1
					Casing Info.											shallow	deep				
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp														
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/28/98	1245		100	NR	16	1.5	155	0.08	0	0.76	0.66	0.68	0.2	0.2	1.12	0.02	0				
12/29/98	800		96		18	3.9	150	0	0.11	0.82	0.7	0.7	0.22	0.24	0.12	0.03	0				
12/30/98	1630		88		25	4.5	152	0.58	0	0.14	0.12	0.14	0	0	0	0	0	4.3	4.9	0.96	2.8
12/31/98	1050		82		27	0.7	150	0.92	0.02	0.6	0.51	0.52	0	0	0	0	0	4.6	3.2	1.4	3.4
1/4/99	745		72		33	3.2	150	1.55	0.23	1.0	0.88	0.88	0.46	0.46	0.25	0	0	5.0	3.6	2.0	4.3

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-4	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-54	SVE-7	SVE-7A	SVP-7	SVE-2A	SVP-2A	SVE-2	SVE-14	SVP-14A	SVP-14	SVP-6	SVP-6A	SVE-6	SVE-1
					Casing Info.													shallow	deep				
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp																
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/7/99	1600		105	NR	230	20.1	200	0.14	0.1	0	0	0	0	0.40	0.08		0	0	0	0.32	0.4	0.46	0.1
1/8/99	920		52		120	21.8	148	0.46	0.34		0.36	0.3	0.34							1		1.5	
1/11/99	1330		50		120	13.8	150	0	0						1.2	2.6	0	0	0	0.15	0.13	0.44	
1/12/99	840		58		110	0	150	0.3	0.2						1.5	3.5				0.8	0.6	1.0	0.54

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-6	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-54	SVE-7	SVE-7A	SVP-7	SVE-2A	SVP-2	SVE-2	SVE-14	SVP-14A	SVP-14	SVE-4	SVP-6	SVP-6A	SVE-1
					Casing Info													shallow	deep				
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp																
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/29/98	800		36	6	208	12.2	110	0		0.11	0.82	0.7	0.7	0.22	0.21	0.24	0.12	0.03	0				
12/30/98	1300		36	6	208	14.8	120	0.58		0	0.14	0.12	0.14	0	0	0	0	0	0		4.3	4.9	2.8
12/31/98	1130		38	6	208	3.1	115	0.72		0.02	0.6	0.51	0.52	0	0	0	3.4	0	0	1.4	4.6	3.2	3.4
1/4/99	930		40	7	208	7.3	115	1.55		0.23	1.0	0.88	0.88	0.46	0.36	0.46	0.25	0.12	0	2.0	5.0	3.6	4.3

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-7	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-7A	SVP-7	SVE-8	SVE-8A	SVP-8	SVP-6	SVP-6A	SVE-6	SVE-1
					Casing Info.													
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp											
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/13/99	1410		100		5	34.6	160	0	0	11.5	0.13	0	0	0				
1/14/99	820		100		5	46.7	155	0.12	0.09	11	0.27	0	0.17	0	0.16	0	0.21	0.24
1/15/99	820		100		7	59.9	NR	0	0	0.01	0.01	NR	NR	NR	0	0	0	0

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-7A	Total Depth/ Water Depth.				Remote Wells			SVE-3	SVE-3A	SVE-7	SVP-7	SVE-8	SVE-8A	SVP-8	SVP-6	SVP-6A	SVE-6	SVE-1
					Casing Info.													
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp											
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/15/99	1020		100		7	0.9	NR	0.16	0.1	0.1	0.3				0.1	0	0	0
1/15/99	1255		100		7	0		0.52	0.4	0.25	0.01				0.74	0.72	0.8	0.86

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-8	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-7	SVE-7A	SVP-7	SVE-8A	SVP-8	SVE-161	SVE-1	SVE-14	SVP-14A	SVP-14
					Casing Info.													shallow	deep
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp												
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/5/99	1020		92		32	10.1	NR	0	0	0	0	0	1.7	61	0	0			
1/6/99	1400		94		32	9.1		0.01	0	0.08	0.07	0.06	0	0.1	0	0.01	0.03	0	0

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-8A	Total Depth/ Water Depth:				Remote Wells			SVE-7	SVE-7A	SVP-7	SVE-8	SVP-8	SVE-1	SVE-54	SVE-161
					Casing Info.										
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp								
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/19/99	1400		100		90	0.8	140	0.01	0.02	0.02	15	11	0		
1/20/99	1330		100		110	6.3	165	0.02	0	0.06	12	12	0	0	0
1/21/99	930		94		115	5.8	170				12	12	0.27		0
1/22/99	800		88		100	20.6	160	0.25	0.48	0.58	12	12.0	0.78		0

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-10	Total Depth/ Water Depth:				Remote Wells			SVE-104B	SVE-107	SVP-10	SVP-10?			
					Casing Info.									
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp							
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/11/98	930		21	3.5	135	54.6	105	0.24	0	0.04	0			
12/11/98	1255		21	3.5	135	54.6	105	0.23	0	0.04	0			

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-11	Total Depth/ Water Depth:				Remote Wells			SVE-104B	SVE-11A	SVP-11	SVP-10A	SVP-10B	SVE-10	SVE-5	SVE-5A
					Casing Info.										
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp								
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/13/99	1340		94		40	32.7	135	0	0	4.2	0	0	0	0	0
1/14/99	745		94		40	34.1		0	0.6	9	0.03	0	0.06	0	0
1/15/99	730		92		40	17.4		0.00	0.70	10.00	0.00	0	0	0	0

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-11A	Total Depth/ Water Depth:				Remote Wells			SVE-104B	SVE-11	SVP-11	SVP-10A	SVP-10B	SVE-10	SVE-5	SVE-5A
					Casing Info.										
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp								
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/15/99	930		96		40	3.5		0	0.05	0.1	0	0	0	0	0
1/15/99	1330		92		40	0		0.01	0	0	0.2	0	0.4	0.4	0.3

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-14	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-7	SVE-7A	SVP-7	SVE-2	SVE-2A	SVP-14A	SVP-14	SVE-54
					Casing Info.										shallow	deep	
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp										
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/29/98	900		42		11	234	130		1.18	0.23	0.2		0.16	0.16			
1/19/99	1400		17		48	259	155	0	0						0	0	0
1/20/99	1000		85		27	247	155	0.22	0.15	0.22	0.29				0.08	0.02	0
1/21/99	900		80		28	310	155	0.44	0.36	0.28	0.27				0.8	0	0.46
1/22/99	900		78		32	194	155	0.26	0.22	0.25	0.48				0.32	0.20	0.32
1/25/99	1315		72		33	184	155	0	0	0	0				0.16	0	0
1/26/99	1230		72		30	187	155	0	0	0	0				0.14	0	0
1/27/99	1420		73		33	158	155	0	0	0	0				0.16	0	0
1/28/99	830		74		33	218	150	0.21	0.23	0.25	0	0.25			0.48	0	0.29
1/29/99	930		74		33	28.8	155	0.09	0.07	0.08	0	0.8			0.24	0.02	0.18
2/1/99	810		74		33	220	155	0.24	0.17	0.24	0.18	0.22			0	0	0.3
2/2/99	1300		72		34	174	155	0	0	0	0	0			0.04	0	0
2/3/99	830		72		32	128	155	0.3	0.25	0.35	0.27	0.27			0.28	0	
2/4/99	900		70		34	458	155	0.05	0.06	0.04	0	0.03			0.24	0	
2/5/99	1405		68		37	681	160	0.14	0.115	0.105	0.01	0.11			0.29	0.04	
2/8/99	1000		70		34	127	155	0.25	0.23	0.27	0.23	0.27			0.36	0	
2/9/99	1100		67		34	187	155	0.22	0.15	0.22	0.13	0.19			0.18	0	
2/10/99	1215		68		35	131	155	0.34	0.28	0.44	0.32	0.4			0.42	0	
2/11/99	1230		68		34	91.9	155	0.24	0.16	0.23	0.15	0.18			0.34	0	
2/12/99	1230		68		35	162	155	0.32	0.25	0.44	0.34	0.28			0.28	0	
2/15/99	825		68		38	82.6	158	0.36	0.3	0.44	0.38	0.41			0.35	0	
2/16/99	1320		68		38	76.5	165	0	0	0	0	0			0.14	0	
2/17/99	1430		69		39	39.4	168	0	0	0	0	0			0.06	0	
2/18/99	945		68		33	35.6	160	0.34	0.26	0.28	0.23	0.28			0.4	0	
2/19/99	1300		68		34	88.2	155	0	0.14	0	0	0			0.16	0	
2/22/99	1030		68		34	177	155	0.26	0.2	0.26	0.17	0.24			0.36	0	
2/23/99																	
2/24/99																	
2/25/99																	

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-54	Total Depth/ Water Depth:				Remote Wells			SVE-3	SVE-3A	SVE-7	SVE-7A	SVP-7	SVE-8A	SVP-8	SVE-161	SVE-1	SVE-14	SVP-14A	SVP-14	SVP-6	SVP-6A	SVE-6	SVE-2A	SVP-2
					Casing Info.													shallow	deep					
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp																	
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
1/5/99	1330		66		13	6.1	140	0	0	0	0	0	1.7	61	0	0								
1/6/99	715		66		13	5.2	140	0.01	0	0.08	0.07	0.06	0	0.1	0	0.01	0.03	0	0					
1/7/99	1600		100		30	104	140	0.1	0.14	0.00	0.00	0.00				0.1	0	0	0	0.32	0.4	0.46	0.4	0.08
2/2/99	1300		97		33	46.5	196	0	0	0	0	0						0	0					
2/4/99	900		100		30	37.5	165	0.05	0.06	0.04	0	0.03						0.24	0					
2/3/99	830		95		32	88.6	200	0.3	0.25	0.35	0.27	0.27						0.28	0					
2/8/99	900		98		32	95.2	175	0.25	0.23	0.27	0.23	0.27						0.36	0					
2/9/99	1300		100		28	102	170	0.22	0.15	0.22	0.13	0.19						0.18	0					
2/10/99	930		104		25	82.3	170	0.34	0.28	0.44	0.32	0.4						0.42	0					
2/11/99	920		96		20	54.5	175	0.24	0.16	0.23	0.15	0.18						0.34	0					
2/12/99	1330		92		22	79	200	0.32	0.25	0.44	0.34	0.28						0.28	0					
2/18/99	945		96		20	18.2	180	0.34	0.26	0.28	0.23	0.28						0.4	0					
2/19/99	1310		96		20	30.5	195	0	0.14	0	0	0						0.16	0					
2/22/99	1030		97		15	81.8	195	0.26	0.2	0.26	0.17	0.24						0.36	0					
2/23/99																								
2/24/99																								
2/25/99																								

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-104B	Total Depth/ Water Depth:				Remote Wells			SVE-10	SVP-10A	SVP-10B	SVE-9A	SVE-9B	SVP-9	SVE-5A	SVE-5B	SVE-11A	SVE-11B	SVP-11
					Casing Info.													
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp											
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/2/98	1015		15		208	0	115	0			0	0		0		0	0	
12/15/98	900		15	4	204	9.8	95	0.42	0.7	0.04	0	0	0	0.06	0	0.02	0.02	0.04

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-107	Total Depth/ Water Depth:				Remote Wells			SVE-10	SVP-10A	SVP-10B	SVE-9A	SVE-9B	SVP-9	SVP-104B
					Casing Info.									
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp							
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/16/98	1330		75		98	NR	95	0	0	0	0.14	0.07	0.03	0
12/17/98	750		100	7.5	55	NR	135	0.22	0.15	0.00	0.26	0.13	0.10	0.09

SVE Pilot Test
Radius of Influence Data

MCAS El Toro
El Toro, CA

SVE-116	Total Depth/ Water Depth:				Remote Wells			SVE-10	SVP-10A	SVP-10B	SVE-5A	SVE-5B	SVE-104B	SVE-107
					Casing Info.									
		Casing dia. 2"	Applied Vac		Flowrate	PID	Temp							
Date	Time	Well No.	in. wc	in. Hg	scfm	ppm	F	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc	in. wc
12/18/98	830		92	7.5	90	46.2	130	0.19	0.11	0	0.17	0	0	0

OHM
SYSTEM MONITORING LOG

Job # 18793 D.O. # 65 W.B.S. 06003011 Site 24 SVE 1
Name: Kellogg Arrival Time: 1300 Departure Time: 1500
Date: 11-20-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 125

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	13.7	11.2	8.8	0	5.1	2.3	30	200
Well #								
SVE 1					FID Filter			
					2.4			
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	5	
	7.7	7.3			12.4	2.1		
					FID filtered			
					5.9			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : 3" Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments :
Radius of influence

8	8A	7	7A	6	4
.05	.15	0.0	.10	.60	.10
.05	.15				

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OHM
SYSTEM MONITORING LOG

Job # 18793 D.O. # 65 W.B.S. 06003011 Site 24 SVE ~~3~~ 1
Name: Kellogg Arrival Time: 1300 Departure Time: 1450
Date: 11-23-98

System Operational Upon Arrival : (Yes) ~~No~~ System Hours : N/A
If no explain failure: ~~[illegible]~~, ~~[illegible]~~

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 125

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	14.2	10.1	6.4	1.2	6.8	2.5	30	200
Well #								
SVE 1					FID filter			
					2.1			
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	5	
	8.2	6.8			12.8	4.6		
					FID filtered			
					4.2			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : 3 % Full
Dilution Air : ~~0~~ % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments :
RADIUS of influence

Well #	4	6	7	7A	8	8A
	.10	.80	.20	0	.05	.15

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OHM
SYSTEM MONITORING LOG

Job # 18708 [redacted]
Name: Kellogg
Date: 11-25-98

D.O. # 65
Arrival Time: 0715

W.B.S. 06003011
Departure Time: 0810

Site 24 SVE 1

System Operational Upon Arrival : (Yes) No
System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 115°F

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	4.8	2.4	6.7	4.2	2.6	5.1	32	210
Well #								
SVE 1								
					FILTER 2.1			
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	6	
	2.6	2.2			2.4	6.8		
					FID filtered			
					1.5			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : 4.5" Full
Dilution Air : Ø % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments :
RADIUS of Influence

#	4	6	7	7A	8	8A
0715	+.05	+1.2	+.05	Ø	Ø	+.05
300	Ø	Ø	Ø	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: McKnew
Date: 1/7/99

D.O. # ~~75~~ 65
Arrival Time: 1630

W.B.S. ~~13002050~~ 0600 3011
Departure Time: 1710

Site 24 SVE # 2

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 145° F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	32.6	0	102	0	0	0	60	13
FIDw/filter	~~0~~			0	0			
Well # 2								
						46		
						8		

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

RADIUS of influence

Any System Changes ? Yes No
Explain System Changes: 1 hr sample TAKEN.

Comments : 1 .10, 2A .40, 2Piez .08, Piez 14A ~~0~~ (S), Piez 14 ~~0~~ (D), SVE14 ~~0~~, 54B ~~0~~, 7 ~~0~~, 7A ~~0~~, 7Piez ~~0~~, 3A .10, 3 .14, 6 .46
1600

Piez 6A .40, Piez 6 .32

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~75~~ 65 W.B.S. 13002050 06003011 Site 24 SVE ~~3~~ 2

Name: Scott McKnew Arrival Time: 1320 Departure Time:

Date: 1/8/99

System Operational Upon Arrival : (Yes) No System Hours : N/A

If no explain failure:

Leaks : (No) Yes

If Yes Describe Leak :

Was leak repaired ?

Effluent Temp. 146°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	49.1		74.3	0.4		3.0	15	36
FIDw/filter	5.1							
Well # 2								

Water K.O. POT Level : 0 % Full

Dilution Air : 0 % Open Any System Maintenance ? Yes (No)

Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)

Explain System Changes:

Comments :

Radius of Influence

24SVE14	Piez 14	Piez 14A	SVE 2 Piez	SVE 2A
0	0	0	.20	.60
1500 – .06	0	.03	7	7A	Piez 7
			0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18703~~ 18708 D.O. # ~~15~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE # 2
Name: Kellogg Arrival Time: 0750 Departure Time: 0830
Date: 12/11/99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 130°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	30.1	Ø	19.9	Ø	Ø	Ø	34"	17
FIDw/filter	Ø	Ø			Ø			
Well # 2								
							HG	
							8.5"	

Water K.O. POT Level : Ø % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Shut Down Samples Taken

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments :

NOT TAken. SVE Moved To 2A immed.

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~75~~ 85 W.B.S. ~~13002050~~ 06003011 Site 24 SVE~~5~~ 2A
Name: Kellogg Arrival Time: 1130 Departure Time: 1230
Date: 1/11/99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

System start up 0930

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 110 °F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	5.6	0	24.1	0	0	0	74"	70
FIDw/filter	0	0			0			
Well # 2A								
							HG 0.5"	

Water K.O. POT Level : Ø % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments :

	6A Piez	SVE6 Piez	Well #6	2	2 Piez	3	3A	14 (14)	14D (14A)	14S
1330	.13	.15	.44	2.6	1.2	Ø	Ø	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~[illegible]~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE 2A
Name: Kellogg Arrival Time: 0920 Departure Time: 1000
Date: 1-12-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 115°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	8.3	0	0	0	0	0	70"	80
FIDw/filter	0	0			0			
Well # 2A								
						#6		
						6.5		

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

0840 1 .54 well #6 1.0 Piez 6 .80 Piez 6A .60 3A .20 3 .3 Piez 2 1.5 2 3.5

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18705~~ 18708
D.O. # ~~[illegible]~~ 65
W.B.S. ~~[illegible]~~ 06003011
Site 24 SVE 3
Name:
Arrival Time: ~~[illegible]~~ 1500
Departure Time: ~~[illegible]~~ 1730
Date: 12-22-98

System Operational Upon Arrival : (Yes) No
System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	11.9	0	56.8	2.8	0	4.7	80"	65
FIDw/filter	4.4	0			0			
Well # 3								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments :

Radius of Influence

well #	3A	3	2A	7	7A
1720	1.7	1.0	1.0	.16	.13

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~10798~~ D.O. # ~~56~~ 65 W.B.S. ~~13000050~~ 06003011 Site 24 SVE 3
Name: Ke Hogg Arrival Time: 0915 Departure Time: 0915
Date: 12-24-98

System Operational Upon Arrival : (Yes) No System Hours ~~N/A~~ 11209.0
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	42.7	.6	0	2.6	54	73
FIDw/filter	0	0			0			
Well # 3								

Water K.O. POT Level : 0 % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments : *
* still no fittings for piez. Readings.

Radius of influence

3A	1	7A	2	2A
1.4	.56	.50	.46	.46

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 12-28-98

D.O. # ~~5~~ 65
Arrival Time: 0800

W.B.S. ~~13002050~~ 06003011
Departure Time: 0900

Site 24 SVE 3

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	17.1	0	46.7	4.6	.04	6.3	49	70
FIDw/filter	9.4	0			0			
Well # 3								

Water K.O. POT Level : 0 % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments :

	3A	1	7A	2	21A
0900	1.18	.23	.20	.16	.16

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellner
Date: 12-28-98

D.O. # ~~09~~ 65
Arrival Time: 1230

W.B.S. ~~13002050~~ 06003011
Departure Time: 1330

Site 24 SVE 3A

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 155°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	1.5	.4	0	1.1	100"	16
FIDw/filter	0	0			0			
Well # 3A								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments : 1 m. start-up

Radius of influence

	7 Piez	3	7	7A	2	2A	4	54	14	14D	14S
1245	.68	.08	.76	.66	.18	.15	1.12	0	.08	0	.02

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~85~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE 3A
Name: Kellogg
Arrival Time: 0745
Departure Time: 0845
Date: 12-29-98

System Operational Upon Arrival : (Yes) No
System Hours ~~N/A~~ 11249.6
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 150°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	~~0~~	~~0~~	3.9	2.3	~~0~~	3.~~0~~	96	18
FIDw/filter	~~0~~	~~0~~			~~0~~			
Well # 3A								

Water K.O. POT Level : ~~0~~ % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments :

Radius of Influence

0800

3	7	7A	7 Piez	54	14	14D	14S	2	4	2A	2 Piez
~~0~~	.82	.70	.70	.11	.12	~~0~~	.03	1.24	1.24	.22	.21

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 12/30/98

D.O. # ~~[illegible]~~ 65
Arrival Time: ~~1320~~ 1630

W.B.S. ~~19002050~~ 06003011
Departure Time: 1730

Site 24 SVE 3A

System Operational Upon Arrival : (Yes) No
If no explain failure:

System Hours : ~~N/A~~ 11249

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 152°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	4.5	3.1	0	4.4	88	25
FIDw/filter	0	0			0			
Well #3A								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments :

1300	14	14D	14S	3	5A	7	7A	7 Piez	1	Piez 6	Piez 6A	4	2	2A	2 Piez
	0	0	0	.58	0	.14	.12	.14	2.80	4.3	4.90	.96	0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~65~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE 3A
Name: Kalb66
Arrival Time: 1030
Departure Time: 1130
Date: 12/31/98

System Operational Upon Arrival : (Yes) No
System Hours : ~~N/A~~ 11249
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 150°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	1.6	~~0~~	.7	~~0~~	~~0~~	.2	82	27
FIDw/filter	.2	~~0~~			~~0~~			
Well # 3A								

Water K.O. POT Level : ~~0~~ % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

	1	3	7	7A	7 Piez	54	14	14d	14s	4	2	2A	2Piez	6APiez	6Piez
1050	3.4	.92	.60	.51	.52	.02	~~0~~	~~0~~	~~0~~	1.40	~~0~~	~~0~~	~~0~~	3.20	4.60

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1/4/98

D.O. # ~~[illegible]~~ 65
Arrival Time: 0745

W.B.S. ~~13002050~~ 06003011
Departure Time: 0830

Site 24 SVE 3A

System Operational Upon Arrival : (Yes) No
If no explain failure:

System Hours : ~~N/A~~ 11249

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 150°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	3.7	Ø	3.2	Ø	Ø	Ø	72	33
FIDw/filter	1.6	Ø			Ø	Ø		
Well #3A								

Water K.O. POT Level : Ø % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No) System Shut Down 10:00AM
Explain System Changes:

Comments : Shut Down Sampled taken. RADIUS of influence

3	Piez6	Piez6A	1	4	1	7A	7Piez	~~6Piez~~	~~6Piez A~~	2	2A	2 Piez	5YB	14	14d
1.55	5	3.6	4.3	2.Ø	1.Ø	.88	.88	Ø	3.6	.46	.46	.36	.23	.25	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~75~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE 14
Name: Scott McKeel Arrival Time: 0830 Departure Time: 0930
Date: 1-7-99

System Operational Upon Arrival : Yes No System Hours : N/A
If no explain failure:

Leaks No Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 200° F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	12.6	0	20.1	0.6	0	0.2	105	230
FIDw/filter	.4	0			0			
Well # 4								

Water K.O. POT Level : 0 % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes No
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes No
Explain System Changes:

Comments

Radius of Influence

1600 1/.10 2A/.40 2Piez/.08 Piez14A/0 Piez14/0 SVE14/0 54B/0 7/0 7A/0 7Piez/0 3A/.10 3/.14 6/.46

Piez6A/.40 Piez6/.32

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~75~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~3~~ 4
Name: Scott McKnew Arrival Time: 0715 Departure Time: 0830
Date: 1-8-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 148°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	21.8	0.1	0	0.8	52	120
FIDw/filter	0	0			0			
Well # 4								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments

Radius of Influence

0920 – 7/.36 7 Piez/.34 7A/.30 3A/.34 3/.46 SVE 24-1/.80 6/1.5 Piez 6/1.0 Piez 6A

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~10793~~ 18708 D.O. # ~~75~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE# 4
Name: Kellogg Arrival Time: ~~0930~~ 1045 Departure Time: 1136
Date: 1/11/99

System Operational Upon Arrival : Yes No System Hours : ~~N/A~~ 11280.5
If no explain failure:

System shut down over weekend due to excess H_2O.
Restart 0915

Leaks : No Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 150°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	11.0	0	13.8	0	0	0	50"	120
FIDw/filter	7.0	0		0	0	0		
Well #4								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes No
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes No
Explain System Changes:

Comments

Radius of Influence

	6A Piez	SVE 6 Piez	well #6	2	2 Piez	3	3A	14	14D	14S
1330	.13	.15	.44	2.6	1.2	0	0	0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~25~~ 65 W.B.S. ~~13002050~~ 06003d1 Site 24 SVE ~~5~~ 4
Name: Kellogg Arrival Time: 1030 Departure Time: 1130
Date: 1/12/92

System Operational Upon Arrival : (Yes) No System Hours : ~~N/A~~ 11280.6
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 150°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	2.0	0	0	0	0	0	58"	110
FIDw/filter	.3	0			0			
Well # 4								

Water K.O. POT Level : 3" ~~%~~ Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? (Yes) No
Explain System Changes

Comments Vacuum increased to 68" H_2O at 0900. Started taking on H_2O in K-out so I backed it back down to 58" H_2O at 1040.

Radius of Influence

		Well #6	Piez 6	Piez 6A	3A	3	Piez 2	2
0840	.54	1.0	.8	.6	.2	.3	1.5	3.5

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~25~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE ~~0~~ 4
Name: Kellogg
Arrival Time: 0820
Departure Time: 0845
Date: 1-13-99

System Operational Upon Arrival : * (Yes) No
System Hours : N/A
If no explain failure:
11280.3

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	3.0	0	7.8	0	0	0	50"	135
FIDw/filter	0	0						
Well # 4								

Water K.O. POT Level : * 2" Full
Dilution Air : 100 % Open
Any System Maintenance ? * Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? * (Yes) No
Explain System Changes:

Comments * 0830 System was Down upon Arrival due to Knock-out Pot being full of WATER
* 0805 system restarted to obtain shut down samples, manually shut down system at 0835; Test complete.

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18799~~ 18708
Name: Kellsco
Date: 12-29-98

D.O. # ~~68~~ 65
Arrival Time: 0845

W.B.S. ~~13002050~~ 06003011
Departure Time: 0945

Site 24 SVE ~~5~~ 6

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks ? (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 110°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	~~0~~	~~0~~	12.2	9.4	~~0~~	11.1	36	208
FIDw/filter	~~0~~	~~0~~			~~0~~			
Well # 6								
							H6 6"	

Water K.O. POT Level : ~~0~~ % Full
Dilution Air : ~~0~~ % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of influence

Comments :

	3	7	7A	7 Piez	54	14	14D	14S	34	2	2A	2Piez
0800	~~0~~	.82	.70	.70	.11	.12	~~0~~	.03 (4)	1.24	.24	.22	.21

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~[illegible]~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE ~~2~~ 6
Name: Kellogg
Arrival Time: 1730
Departure Time: 1830
Date: 12-30-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 120°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	14.8	11.2	0	11.6	36	208
FIDw/filter	0	0			0			
Well # 6								

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments :

14	14D	14S	3	5Y	7	7A	7 Piez	1	Piez6	Piez6A	4	2	2A	2A
0	0	0	.58	0	.14	.12	.14	2.80	4.3	4.90	.96	0	0	0

1300

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~65~~ 65 W.B.S. ~~13002050~~ 06002011 Site 24 SVE~~5~~ 6
Name: Ke Hooks Arrival Time: 1130 Departure Time: 1230
Date: 12/31/98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 115°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	0	3.1	2.0	0	2.4	38	208
FIDw/filter	0	0			0			
Well # 6								
							HG	
							6"	

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of influence

Comments

1	3	2	2A	2 Piez	5	14	14d	14s	4	2	2A	2 Piez	6A Piez	6 Piez
10.50	3.4	.32	.60	.51	.52	.02	0	0	0	1.40	0	0	0	3.20	4.60

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1-4-99

D.O. # ~~08~~ 65
Arrival Time: 0830

W.B.S. ~~13002050~~ 06003011
Departure Time: 0930

Site 24 SVE 36

System Operational Upon Arrival : (Yes) No
System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 115°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0	1.1	7.3	0	0	1.3	40"	208
FIDw/filter	0	0			0			
Well # 6					mid 2			
					0	0		
					0			
							HG	
							7"	

Water K.O. POT Level : 3" ~~%~~ Full
Dilution Air : 0 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed: system shut down 10:00 A.M.

Any System Changes ? Yes (No)
Explain System Changes

Radius of influence

0930

Comments

I	7A	7 Piez	3	Piez 6	Piez 6A	1	4	2	2A	2 Piez	5-4B	14	~~[illegible]~~	14D	14S
1.0	.88	.88	1.55	5	3.6	4.3	2.0	.46	.46	36	.23	.25		0	.12

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~75~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~3~~ 7
Name: KELLOGG Arrival Time: 1200 Departure Time: 1300
Date: 1-13-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure: 11280.2

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 160°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM (Low)
System	11.2	Ø	34.6	0	Ø	0	100+	Doesn't Register
FIDw/filter	2.2	Ø			Ø			
Well # 7								

Water K.O. POT Level : 3 % % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes

Comments 1 HR Samples TAKEN

Radius of Influence

110	7 Piez	7A	3	3A	8	8A	8 Piez
	.13	11.5	Ø	Ø	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1-14-99

D.O. # ~~66~~ 65
Arrival Time:

W.B.S. ~~13002050~~ 06003011
Departure Time:

Site 24 SVE # 7

System Operational Upon Arrival : (Yes) No
If no explain failure:

System Hours : N/A
11280.4

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 155°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	33.7	.3	46.7	.3	2.1	.5	100+	Low > 5
FIDw/filter	22.2	0			0			
Well # 7								

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed

Any System Changes ? Yes (No)
Explain System Changes

Comments

RADIUS of influence

7A	7Piez	3	3A	1	SVE well #6	SVE Piez6	Piez 6A
11.0	.27	.12	.09	.24	.21	.16	0

0820

8	8A	8 Piez
0	.17	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: MoMAkes
Date: 1-15-99

D.O. # ~~75~~ 65
Arrival Time: 8:20

W.B.S. ~~13002050~~ 06003011
Departure Time: 9:15

Site 24 SVE # 7

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	~~43.3~~	7.2	59.9	0.0	2.2	0.0	100	7 ~~5~~ low
FIDw/filter	~~60.2~~	~~30.1~~						
	8.2	0						
Well.# 7								
	18.1	0						
FID w/Alka	8.2	0						

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments 7A 0.01 | 7 Piez ~~0.04~~ 0 | 3 0 | 3A 0 | 1 0 | well #6 0 | Piez 6 0 | Piez 6A 0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18795~~ 18708 D.O. # ~~[illegible]~~ 65 W.B.S. ~~[illegible]~~ 06003011 Site 24 SVE ~~[illegible]~~ 7A

Name: Monales Arrival Time: 1020. 2: 1255 Departure Time: 1055 1320

Date: 1-15-99

System Operational Upon Arrival : (Yes) No System Hours : N/A

If no explain failure:

Leaks: (No) Yes

If Yes Describe Leak :

Was leak repaired ?

Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	0.0	0.0	0.9	0.0	0.0	0.0	100+	~~[illegible]~~ 7
FIDw/filter								
Well.# 7A								
			4 Hour Samples					
	1.8	0.0	0.0	0.0	0.0	0.0	100 +	7

Water K.O. POT Level : Ø % Full

Dilution Air : 100 % Open Any System Maintenance ? Yes (No)

Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)

Explain System Changes:

Radius of Influence

Comments:

Time	7	7 Piez	3	3A	1	Well #6	Piez 6	Piez 6A
1020	0.10	.30	.16	.10	0	0	0.10	0
	HIGH	PRESSURE	HIGH PRESSURE				HIGH PRESSURE	
1255	.25	0.01	.52	.40	.36	.80	~~.40~~ .74	.72

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~48~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~3~~ 8
Name: Kellogg Arrival Time: 1400 Departure Time: 1445
Date: ~~[illegible]~~ 1-5-99
System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	3.7	1.0	10.1	3.6	1.7	3.6	92"	32
FIDw/filter	.9	1.0			1.2			
Well # 8								

Water K.O. POT Level : 0 % Full
Dilution Air : 80 % Open Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes.

Comments

Radius of influence

	3	3A	1	7A	7Piez	1	2	8Piez	161
1330	0	0	0	0	0	0	1.7	61.0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~45~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE ~~6~~ 8
Name: Kellogg
Arrival Time: 1400
Departure Time: 1500
Date: 1/6/99

System Operational Upon Arrival : (Yes) No
System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 190°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	6.2	.9	9.1	1.1	3.3	1.5	94	32
FIDw/filter	2.0	0			0			
Well # 8								

Water K.O. POT Level . 0 % Full
Dilution Air : 20 % Open
Any System Maintenance ? Yes (No)
Explain Maintenance

Service or repairs performed

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

8 Piez	8A	1	7	7A	7 Piez	3	3A	14	14S	14D	16I
.10	0	.01	.08	.07	.06	.01	0	.03	0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18799~~ 18708 D.O. # ~~79~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~9~~ 8A
Name: KeHoe Arrival Time: 1330 Departure Time: 1400
Date: 1-19-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	Ø	Ø	.8	Ø	Ø	Ø	100	90
FIDw/filter	Ø	Ø			Ø			
Well # 8A								

Water K.O. POT Level : NO SIGHTGLASS % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

1400 8/15 8 Piez/11 1/Ø 7/.01 7A/.02 7Piez/.02

gabsve

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE 24 SVE #8A

NAME Kellogg ARRIVAL TIME 1230 DEPARTURE TIME

DATE 1-20-99

System operational upon arrival : (Yes) No System Hours

Effluent Temp: 165°F Blower VAC. In. Hg :

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	Ø	Ø	6.3	.6	Ø	.7	100	110
FIDw/filter	Ø	Ø			Ø			
well #8A								
Radius of Influence								
Well #8A	8	8 Piez	1	7	7A	7 Piez	54b	161
Gauge #	0-100	0-100	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	12.0	12.0	Ø	.02	Ø	.06	Ø	Ø

1330

Water K.O. pot level : NO SIGHT GLASS %
Dilution Air : Ø %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE 8A

NAME Kellogg ARRIVAL TIME 1400 DEPARTURE TIME 1500

DATE 1-21-99

System operational upon arrival : Yes No System Hours

Effluent Temp: 170°F Blower VAC. In. Hg :

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	2.0	0	5.8	.3	0	.2	94	115
FIDw/filter	0	0			0			
well #								
Time								

Radius of Influence

Well #	1	8	8 Piez	161				
Gauge #	0-1	0-100	0-100	0-.25				
Reading	.27	12	12	0				

0930

Water K.O. pot level : %
Dilution Air : %
System Adjustments Performed :

Notes : * OIL LEAK Noted on SVE-8A Blower. Foreman notified.

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE SVE 8A

NAME Kellogg ARRIVAL TIME 0730 DEPARTURE TIME 0815

DATE 1-22-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 160°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	3.0	0	20.6	3.5	0	3.7	88	100
FIDw/filter	0	0			0			
well # 8A								
Time								

Radius of Influence

Well #	8	8 Piez	161	1	7	7A	7 Piez	
Gauge #	0-100	0-100	0-.25	0-1	0-.25	0-1	0-1	
Reading	12	12	0	.78	.25	.48	.58	

0800

Water K.O. pot level : NO SIGHT GLASS %
Dilution Air : 0 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

Job # 18793 D.O. # 65 W.B.S. 06003011 Site 24 SVE 10
Name: Kellogg Arrival Time: 0845 Departure Time: 0925
Date: 12-11-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 105°F

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	52.1	35.2	54.6	7.8	41.9	5.6	21	135
Well #					FID 25.6			
SVE 1								
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	3.5	
	36.7	32.7			34.6	16.4		
					FID filtered			
					27.7			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : 12" ~~%~~ Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments :

0930	104 B / .24	107 / Ø	10 Piez / .04	10 Piez / Ø
1255	23	Ø	.04	Ø

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~25~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE# 11
Name: KE Hogg, McKnew Arrival Time: 1100 Departure Time: 1200
Date: 1-13-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 135°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	10.0	0	32.7	0	3.1	16.3	94"	40
FIDw/filter	1.4	0			0			
Well # 11								

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes Radius of influence

Comments

	11A	11Piez	11C	10A	10b	5	5A	104b
1340	0	4.2	0	0	0	0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1-14-99

D.O. # ~~75~~ 65
Arrival Time: 0945

W.B.S. ~~13002050~~ 06003011
Departure Time: 1830

Site 24 SVE # 11

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	14.5	0	34.1	.1	0	.6	94	40
FIDw/filter	8.9	0			0			
Well # 11								

Water K.O. POT Level : * % Full NO SIGHT GLASS
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes.

Comments

RADIUS of Influence

	11A	11 Piez	104b	5	5A	10	10A Piez	10b Piez
0745	.60	9.0	0	0	0	.06	.03	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~13793~~ 18708 D.O. # ~~[illegible]~~ 65 W.B.S. ~~13002090~~ 06003011 Site 24 SVE ~~3~~ 11

Name: MONAIS Arrival Time: 730 Departure Time: 8 15

Date: 1-15-99

System Operational Upon Arrival : Yes No System Hours : N/A

If no explain failure:

Leaks: No Yes

If Yes Describe Leak :

Was leak repaired ?

Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	8.5	0.3	17.4	0.0	1.9	0	92+	40
FIDw/filter								
Well.# 11								

Water K.O. POT Level : % Full

Dilution Air : % Open Any System Maintenance ? Yes No

Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes No

Explain System Changes:

Comments

Radius of Influence

11A	11 Piez	10Ab	5	5A	10	10A Piez	10Ab Piez
.70	10	0	0	0	0	0	

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~[illegible]~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~[illegible]~~ 11A
Name: MORALES Arrival Time: 0917 2-1230 Departure Time: 09:50 1250
Date: 1-15-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp.

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	1.8	0.0	3.5	0.0	0.4	0.0	96	40
FIDw/filter								
Well.# 11A								
			4	Hour	~~[illegible]~~	SAMPLE		
	0.0	0.5	0.0	0.0	0.3	0.0	92	40

Water K.O. POT Level : 0 % Full
Dilution Air : 100 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

11	11 Piez	10Ab	5	5A	10	10A Piez	10b Piez
0.03	0.1	0	0	0	0	0	0
			0.06	0.06	0.04	0	0.04
			HIGH PRESSURE			HIGH PRESSURE	
0	0	0.01	.40	.30	.40	.20	0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kullogg
Date: 12-29-99

D.O. # ~~29~~ 65
Arrival Time: 0915

W.B.S. ~~13002050~~ 06003011
Departure Time: 1015

Site 24 SVE ~~3~~ 14

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 130°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	216.4	5.6	~~[illegible]~~	~~[illegible]~~	4.3	2.9	42"	11
~~PID w/filter~~			234	1.8				
FID w/filter	121	1.9						
Well # 14					MW-2			
					4.2	2.5		
					0			
						HG		
						7"		

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments : RADIUS of influence

0900

3A	7	7A	2	2A
1.18	.23	.20	.16	.16

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18795~~ 18708
D.O. # ~~[illegible]~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE ~~3~~ 14
Name: Kellogg
Arrival Time: 1040
Departure Time: 1120
Date: 1-19-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 155°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	424	0	259	.3	0	.6	17	98
FIDw/filter	182.7	0			0			
Well.# 14								

Water K.O. POT Level : 0 % Full
Dilution Air : 0 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments

1 hr. Samples taken
RADIUS of influence

1400	SVB	3	3A	14 Piez	14 PiezA
	0	0	0	0	0

gabsve

OHM
SYSTEM MONITORING LOG

JOB# 18708 D.O. # 65 WBS # 06003011 SITE SVE 14

NAME Kellogg ARRIVAL TIME 0915 DEPARTURE TIME 1000

DATE 1-20-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	331.2	10.7	24.7	1.6	11.1	2.6	85	27
FIDw/filter	162.1	13.2			9.8			
well # 14								

Radius of Influence

Well #	14A Piez	14 Piez	54b	3	3A	7	7A	7 Piez
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-1	0-1
Reading	.08	.02	Ø	.22	.15	.22	.29	.29

1000

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed : NONE

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE SVE 14

NAME Kellogg ARRIVAL TIME 0810 DEPARTURE TIME 0845

DATE 1-21-99

System operational upon arrival : Yes No System Hours

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	195.5	0	310	0	0	8.1	80"	28
FIDw/filter	163.3	0			0			
well # 14								
Time								

Radius of Influence

0900 Well #	14 Piez	14A Piez	54b	3	3A	7	7A	7 Piez
Gauge #	0-.25	0-5	0-1	0-1	0-1	0-1	0-1	0-.25
Reading	0	.80	.46	.44	.36	.28	.27	0

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE SVE 14

NAME Kellogg ARRIVAL TIME 0830 DEPARTURE TIME 0930

DATE 1-22-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 155 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	154.7	5.4	194	3.3	6.7	3.2	78"	32
FIDw/filter	113.9	4.1			6.6			
well # 14								
Time								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	54b	14 Piez	14A Piez
Gauge #	0-.25	0-1	0-1	0-1	0-.25	0-1	0-.25	0-1
Reading	.25	.48	.58	.26	.22	.32	.20	.32

0900

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 06003011 SITE SVE-14

NAME Kelloff ARRIVAL TIME 1230 DEPARTURE TIME 1345

DATE 1-25-99

System operational upon arrival : (Yes) No System Hours N/A 11369.8

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	124.9	.1	184	Ø	3.1	1.2	72	33
FIDw/filter	111.4	Ø			1.3			
well # 14								
Time								

Radius of Influence

Well #	14	14A Pia	54b	3	3A	7	7A	7Pier
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	Ø	.16	Ø	Ø	Ø	Ø	Ø	Ø

1315

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 18708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellcoo ARRIVAL TIME 1245 DEPARTURE TIME 1320

DATE 1-26-99

System operational upon arrival : (Yes) No System Hours

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	269.8	8.4	187	2.1	11.8	1.9	72	30
FIDw/filter	206.3	8.1			7.1			
well #								
Time								

Radius of Influence

Well #	14A Prez	14 Prez	54b	3	3A	7	7A	7 Prez.
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	.14	0	0	0	0	0	0	0

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-14

NAME Kellsee ARRIVAL TIME 1340 DEPARTURE TIME 1425

DATE 1-27-99

System operational upon arrival : Yes No System Hours N/A 11369.2

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	198.8	Ø	158	Ø	2.6	.8	73	33
FIDw/filter	137.8	Ø			Ø			
well # 14								

Radius of Influence

Well #	14Pier	14APier	5Ab	3	3A	7	7A	7PRZ
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	Ø	.16	Ø	Ø	Ø	Ø	Ø	Ø

120

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010' SITE SVE-14

NAME Kellogg ARRIVAL TIME 0830 DEPARTURE TIME 0930

DATE 1-28-99

System operational upon arrival : Yes No System Hours N/A 11369.7

Effluent Temp: 150°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	73.7	3.1	218	115	3.2	69.3	74	33
FIDw/filter		Ø			Ø			
well #								
Time								

Radius of Influence

Well #	14 Piez	14A Piez	54b	3	3A	7	7A	7 Piez
Gauge #	0-.25	0-1.0	0-1.0	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	Ø	.48	.29	.21	.23	.25	Ø	.25

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg Nowlin ARRIVAL TIME 0930 DEPARTURE TIME 1030

DATE 1-29-99

System operational upon arrival : Yes No System Hours 11369.6

Effluent Temp: 155 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	155.4	8.7	28.8	9.8	10.4	0	74	33
FIDw/filter	112.6	1.3			1.7			
well # 14								

Radius of Influence

Well #	14Pre2	14APre2	5Pb	3	3A	7	7A	7Pre2
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	.02	.24	.18	.09	.07	.08	0	.08

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 0800 DEPARTURE TIME 0900

DATE 2-1-99

System operational upon arrival : Yes No System Hours 11369.2

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	101.6	~~[illegible]~~ 50	220	.4	5.9	.2	74	33
FIDw/filter	61.2	0			0			
well #								
Time								

Radius of Influence

Well #	14 Piez	14A Piez	54	3	3A	7	7A	7 Piez.
Gauge #	0-.25	0-.25	0-1.0	0-.25	0-.25	0-.25	0-.25	0-.25
Reading	0	0	.30	.24	.17	.24	.18	.22

0810

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-14

NAME Kellogg ARRIVAL TIME 0915 DEPARTURE TIME 0945

DATE 2-2-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	159.1	4.6	174	0	43.3	0	72	34
FIDw/filter	112.4	0			5.5			
well #								

Radius of Influence

Well #	14 Piez.	14A Piez	3	3A	7	7A	7 Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	0	.04	0	0	0	0	0	

1300

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1315 DEPARTURE TIME 1400

DATE 2-3-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	137.2	8.2	128	0	35.0	0	72	32
FIDw/filter	104.9	0			.1			
well #								

Radius of Influence

Well #	14 Piez	14A Piez	3	3A	7	7A	7 Piez.	
Gauge #	0-.25	0-1	0-1	0-.25	0-1	0-1	0-1	
Reading	0	.28	.30	.25	.35	.27	.27	

0830

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 0840 DEPARTURE TIME 0930

DATE 2-4-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	90.0	0.0	458	Instrument	0.0	Instrument	70	34
FIDw/filter	3.5	0.0		FAILURE	0.0	Failure		
well #								

Radius of Influence

Well #	14Piez	14A Piez	3	3A	7	7A	7Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	0	.24	.05	.06	.04	.00	.03	

0900

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Goldshine ARRIVAL TIME 1340 DEPARTURE TIME

DATE 2-5-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 160°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	155.9	4.2	681	0.0	4.7	0.0	68	37
1350 FIDw/filter	76.5	5.6			6.1			
well #								

Radius of Influence

Well #	14 Piez.	14A Piez	3	3A	7	7A	7 Piez	
1405 Gauge #	.04	.29	.14	.115	.105	.01	.11	
Reading								

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :
PID range on Influent 484-1493

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1000 DEPARTURE TIME 1100

DATE 2-8-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	73.2	5.9	127	4.6	4.8	9.4	70	34
FIDw/filter	51.7	2.3			2.8			
well # 14								

Radius of Influence

Well #	7	7A	7Piez	3	3A	14Piez	14APiez	
Gauge #	0-1	0-.25	0-1	0-.25	0-.25	0-.25	0-1	
Reading	.27	.23	.27	.25	.23	0	.36	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes : System power outage over weekend. System restart at 0850.

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME KELLOGG ARRIVAL TIME 1100 DEPARTURE TIME 1145

DATE 2-9-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	114.7	10.1	187	17.2	10.7	22.7	67	34
FIDw/filter	58.9	4.0			4.2			
well #								

Radius of Influence

Well #	7	7A	7Piez	3	3A	14Piez	14APiez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	.22	.13	.19	.22	.15	0	.18	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1230 DEPARTURE TIME 1330

DATE 2-11-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	58.8	0	91.9	.2	0	1.8	68	34
FIDw/filter	47.9	0			0			
well # 14								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez	14A Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-1	
Reading	.23	.15	.18	.24	.16	0	.34	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME KELLOGG ARRIVAL TIME 1215 DEPARTURE TIME 1300

DATE 2-10-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	61.9	0	131	4.9	0	4.5	68	35
FIDw/filter	23.6	0			0			
well #								

Radius of Influence

Well #	7	7A	7Piez	3	3A	14Piez	14APiez	
Gauge #	0-1	0-1	0-1	0-1	0-1	0-.25	0-1	
Reading	.44	.32	.40	.34	.28	0	.42	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1230 DEPARTURE TIME 1330

DATE 2-12-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	65.8	Ø	162	3.8	Ø	6.0	68	35
FIDw/filter	28.2	Ø			Ø			
well # 14								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez.	3	3A	
Gauge #	0-.25	0-1	0-1	0-1	0-1	0-1	0-.25	
Reading	Ø	.28	.44	.34	.28	.32	.25	

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010I SITE SVE-14

NAME W Goldshine ARRIVAL TIME 0815 DEPARTURE TIME 0915

DATE 2-15-99

System operational upon arrival : (Yes) No System Hours 11369

Effluent Temp: 158°F Blower VAC. In. Hg : 68" H_2O

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	69.4	9.6	82.6	0.7	2.8	0.0	68	38
0825 FIDw/filter	49.8	7.9			2.0			
well # 14								

Radius of Influence

Well #	14 Piez	14A Piez.	7	7A	7 Piez	3	3A	
Gauge #	0-.25	0-1.0	0-1.0	0-1.0	0-1.0	0-1.0	0-1.0	
Reading	<0	.35	.44	.38	.41	.36	.30	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :
Note: FID reading 8.5 background prior to ~~during~~ effluent
2.8 " " midpoint
0.0 " " influent

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-14

NAME WGoldshine ARRIVAL TIME 1300 DEPARTURE TIME 1345

DATE 2-16-99

System operational upon arrival : (Yes) No System Hours 11369

Effluent Temp: 165°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	56.4	0.0	76.5	0.0	0.0	0.0	68	38
1310 FIDw/filter	31.9	0.0			0.0			
well # 14								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
1320 Reading	<0	.14	<0	<0	<0	<0	<0	

Water K.O. pot level : 0 %
Dilution Air : 100%
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME W Goldshine ARRIVAL TIME 1410 DEPARTURE TIME

DATE 2-17-99

System operational upon arrival : (Yes) No System Hours 11369

Effluent Temp: 168°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	45.4	6.7	39.4	0.3	5.9	0.2	69	39
1415 FIDw/filter	25.6	6.4			5.7			
well # 14								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
1432 Reading	<0	0.06	<0	<0	<0	<0	<0	

Water K.O. pot level : %
Dilution Air : %
System Adjustments Performed :

Notes : FID reading 5.8 ppm in ambient air prior to effluent
" " 4.8 " " " " " " effluent w/filter
" " 3.5 " " " " " " midpoint
" " 3.3 " " " " " " influent

OHM
SYSTEM MONITORING LOG

JOB# 18708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1210 DEPARTURE TIME 1315

DATE 2-18-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 160 Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	51.6	5.1	35.6	.2	6.2	.1	68	33
FIDw/filter	29.2	2.7			2.0			
well # 14								

Radius of Influence

Well #	7	7A	7 Piez	14 Piez	3	3A	14A Piez	
Gauge #	0-1	0-.25	0-1	0-.25	0-1	0-1	0-1	
Reading	.28	.23	.28	0	.34	.26	.40	

0945

Water K.O. pot level : 0 %
Dilution Air 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1200 DEPARTURE TIME 1300

DATE 2-19-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 155°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	93.5	4.5	88.2	2.8	8.8	4.0	68	34
FIDw/filter	46.8	1.9			6.5			
well # 14								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez	14A Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	Ø	Ø	Ø	Ø	.14	Ø	.16	

1300

Water K.O. pot level : Ø %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-14

NAME Kellogg ARRIVAL TIME 1000 DEPARTURE TIME 1100

DATE 2-22-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 155 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	108.8	8.3	177	28.5	17.7	80.1	68	34
FIDw/filter	22.5	7.2			9.8			
well # 14								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
1030 Gauge #	0-.25	0-1	0-1	0-.25	0-.25	0-1	0-.25	
Reading	0	.36	.26	.17	.24	.26	.20	

Water K.O. pot level : 0 %
Dilution Air : 100 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
D.O. # ~~86~~ 65
W.B.S. ~~13002050~~ 06003011
Site 24 SVE~~8~~ 54B
Name: Kellcc66
Arrival Time:
Departure Time:
Date: 1-5-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	.8	Ø	6.1	1.9	Ø	2.3	66	13
FIDw/filter	Ø				Ø			
Well # 54B								
					MIDPoint 2			
					Ø	2.1		
					Ø			
						HG		
						7.5"		

Water K.O. POT Level : Ø % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

1330	3	3A	7	7A	7 Piez	1	8	8 Piez	161
	Ø	Ø	Ø	Ø	Ø	Ø	1.7	61.0	Ø

Comments

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1/6/99

D.O. # ~~48~~ 65
Arrival Time: 0815

W.B.S. ~~13002050~~ 06003011
Departure Time: 0915

Site 24 SVE ~~5~~ 54B

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	.7	Ø	5.2	1.7	Ø	2.1	66	15
FIDw/filter	.1				Ø			
Well # 54B								
						mOPT 2		
						Ø	7.9	
						Ø		
							HG 8"	

Water K.O. POT Level : Ø % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Radius of Influence

Comments

	8 Pkz	8A	1	7	7A	7 Pkz	3	3A	14	14S	14D	16I
0715	.10	Ø	.01	.08	.01	.06	.01	Ø	.03	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708
Name: Kellogg
Date: 1/7/99

D.O. # ~~25~~ 65
Arrival Time: 1130

W.B.S. ~~13002050~~ 0600301
Departure Time: 1230

Site 24 SVE ~~5~~ 54B

System Operational Upon Arrival : Yes No System Hours : N/A
If no explain failure:

Leaks : No Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	88.2	4.0	104	0	6.7	1.4	100"	30
FIDw/filter	49.7	2.8			5.8			
Well #54B								
					mid	2		
					4.8	.2		
					1.9			
							~~HG~~ 8"	

Water K.O. POT Level : 0 % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes No
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes ~~No~~ Switch over to 2" flowmeter from 1"
Explain System Changes:

Radius of Influence

Comments :

1600 1 .10 | 2A .40 | 2 Piez .08 | Piez 14A 0 | Piez 14 0 | SVE14 0 | 54B 0 | 7 0 | 7A 0 | 7 Piez 0 | 3A .10 | 3 .14 | 6 .46

Piez 6A .40 | Piez 6 .32

gabsve

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1015 DEPARTURE TIME 1055

DATE 2-2-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 196°F Blower VAC. In. Hg : N/A

	FID 4.3		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	47.3	[illegible]	46.5	2.1	5.6	14	97	33
FIDw/filter	26.5	0			.2			
well #								

Radius of Influence

Well #	14Piez	14APiez	3	3A	7	7A	7Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	0	.04	0	0	0	0	0	

1300

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 0800 DEPARTURE TIME 0835

DATE 2-4-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 165°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	43.1	0.0	37.5	6.6	0.0	11.5	100	30
FIDw/filter	24.1	0.0			0.0			
well #								

Radius of Influence

Well #	14 Piez	14A Piez	3	3A	7	7A	7 Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	0	.24	.05	.06	.04	0	.03	

0900

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1240 DEPARTURE TIME 1315

DATE 2-3-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 200°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	53.4	3.2	88.6	2.7	5.5	37.9	9.5	32
FIDw/filter	30.2	0			0			
well #								

Radius of Influence

Well #	14 Piez	14A Piez	3	3A	7	7A	7 Piez	
Gauge #	0-.25	0-1	0-1	0-.25	0-1	0-1	0-1	
Reading	0	.28	.30	.25	.35	.27	.27	

0830

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Goldshine ARRIVAL TIME 1310 DEPARTURE TIME

DATE 2-5-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 178°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	53.9	~~4.9~~ 1.7	179.0	0.0	1.9	0.0	100+	30
FIDw/filter	30.9	2.9 ~~0.2~~			3.6			
well #								

1320

Radius of Influence

Well #								
Gauge #								
Reading								

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 1 SITE SVE-54

NAME Kellogg ARRIVAL TIME 0910 DEPARTURE TIME 0940

DATE 2-8-99

System operational upon arrival : ~~Yes~~ No System Hours N/A

Effluent Temp: 175 Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	62.6	1.2	95.2	7.6	1.6	8.3	98	32
FIDw/filter	31.0	0			0			
well #								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez	14A Piez	
Gauge #	0-1	0-.25	0-1	0-.25	0-.25	0-.25	0-1	
Reading	.27	.23	.27	.25	.23	0	.36	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes : System down over weekend due to power outage. Restarted at 0850.

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1230 DEPARTURE TIME 1315

DATE 2-9-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 170°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	37.9	Θ	102	9.2	Θ	9.2	100	28
FIDw/filter	21.8	Θ			Θ			
well #54								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez	14A Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	.22	.13	.19	.22	.15	Θ	.18	

Water K.O. pot level : Θ %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-54

NAME Kellogg ARRIVAL TIME 0945 DEPARTURE TIME 1030

DATE 2-10-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 170°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	24.1	0	82.3	4.9	0	7.9	104	25
FIDw/filter	19.4	0			0			
well # 54								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez.	14A Piez	
Gauge #	0-1	0-1	0-1	0-1	0-1	0-.25	0-1	
Reading	.44	.32	.40	.34	.28	0	.42	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 0920 DEPARTURE TIME 1030

DATE 2-11-99

System operational upon arrival : Yes No System Hours N/A

Effluent Temp: 175 °F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	24.6	0	54.5	0	0	1.7	20	96
FIDw/filter	19.2	0			0			
well # 54								

Radius of Influence

Well #	7	7A	7 Pkg	3	3A	14 Pkg	14A Pkg	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-1	
Reading	.23	.15	.18	.24	.16	0	.34	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1340 DEPARTURE TIME 1425

DATE 2-12-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 200°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	29.2	0	79	0	0	2.5	92	22
FIDw/filter	22.3	0			0			
well # 54								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
Gauge #	0-.25	0-1	0-1	0-1	0-1	0-1	0-.25	
Reading	0	0.28	.44	.34	.28	.32	.25	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes : Pure effect came out to SVE-54 to correct conduit problem. Unit was shut down during this time.

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME W Goldshine ARRIVAL TIME 0920 DEPARTURE TIME 0955

DATE 2-15-99

System operational upon arrival : (Yes) No System Hours

Effluent Temp: 174°F Blower VAC. In. Hg : 132" H_2O

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	24.2	0.0	48.7	3.3	0.0	4.8	97	20
0925 FIDw/filter	0.0	0.0	1.8		0.0			
well # 54								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
Gauge #								
Reading								

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes : Background reading of FID of 0.0 ~~during~~ prior to effluent, MP, & Inf
PID readings for background erratic prior to ~~measuring~~ measuring mid-point (1.7-56)
PID appears to have settled down prior to influent reading @ background of 0.8

Measured : (1) Effluent (2) Midpoint (3) Influent

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # WBS # 13230101 SITE SVE-54

NAME W Goldshine ARRIVAL TIME 1040 DEPARTURE TIME 1140

DATE 2-16-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 188°F Blower VAC. In. Hg : 135" H_2O

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	34.2	1.2	40.7	2.2	0.1	0.1	96	20
FIDw/filter	11.1	0.9			0.2			
well # 54								

1123

Radius of Influence

Well #								
Gauge #								
Reading								

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME W Goldshine ARRIVAL TIME 1340 DEPARTURE TIME

DATE 2-17-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 189 °F Blower VAC. In. Hg : 138 " H_2O

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	20.8	10.9	24.4	0.0	9.9	0.2	96	20
FIDw/filter	7.6	10.3			8.8			
well # 54								
1345								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez	3	3A	
Gauge #								
Reading								

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes : FID reading 10.1 ppm in ambient air prior to effluent
9.2 midpoint
8.3 midpoint w/filter
7.5 influent

OHM
SYSTEM MONITORING LOG

JOB# 18708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1400 DEPARTURE TIME 1445

DATE 2-18-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 180°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	24.6	8.2	18.2	.4	13.1	.1	96	20
FIDw/filter	11.9	6.1			7.1			
well #54								

Radius of Influence

Well #	7	7A	7 Piez	14 Piez	14A Piez	3	3A	
0945 Gauge #	0-1	0-.25	0-1	0-.25	0-1	0-1	0-1	
Reading	.28	.23	.28	0	.40	.34	.26	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 13230101 SITE SVE-54

NAME Kellogg ARRIVAL TIME 1310 DEPARTURE TIME 1405

DATE 2-19-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 195°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	51.1	4.9	30.5	1.6	8.6	2.3	96	20
FIDw/filter	37.6	2.6			4.1			
well # 54								

Radius of Influence

Well #	7	7A	7 Piez	3	3A	14 Piez	14A Piez	
Gauge #	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	0-.25	
Reading	0	0	0	0	.14	0	.16	

Water K.O. pot level : 0 %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

JOB# 918708 D.O. # 65 WBS # 1323010 1 SITE SVE -54

NAME Kellogg ARRIVAL TIME 1115 DEPARTURE TIME 1200

DATE 2-22-99

System operational upon arrival : (Yes) No System Hours N/A

Effluent Temp: 195°F Blower VAC. In. Hg : N/A

	FID		PID		Midpoint		VAC	Flow
	Inff. Ppm	Eff. Ppm	Inff. Ppm	Eff. Ppm	FID	PID	H20	SCFM
System	27.5	Ø	81.8	17.4	Ø	18.5	97	15
FIDw/filter	Ø	Ø			Ø			
well # 54								

Radius of Influence

Well #	14 Piez	14A Piez	7	7A	7 Piez.	3	3A	
Gauge #	0-.25	0-1	0-1	0-.25	0-.25	0-1	0-.25	
Reading	Ø	.36	.26	.17	.24	.26	.20	

1030

Water K.O. pot level : Ø %
Dilution Air : 50 %
System Adjustments Performed :

Notes :

OHM
SYSTEM MONITORING LOG

Job # 18708 D.O. # 65 W.B.S. 06003011 Site 24 SVE #: 104 B
Name: B. Kellogg Arrival Time: 0800 Departure Time: 0915
Date: 12-2-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 115°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	1.4	.5	0	0	.7	0	15"	208
FIDw/filter	.6	0			.7			
Well # 13								

Water K.O. POT Level : Ø % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
:

Comments :
Radius of Influence

9	9A	10	5	5A	11	~~11A~~	11A
0	0	0	0	0	0		0

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # 65 W.B.S. 06003011 Site 24 SVE 104B
Name: Kellogg Arrival Time: 0730 Departure Time: 0930
Date: 12-15-99

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 95°F

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	1.6	.3	9.8	3.3	1.5	3.4	15"	204
Well #					FID filtered Ø			
SVE 1								
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	4"	
	Ø	Ø			.6	3.1		
					FID filtered			
					Ø			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : Ø % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments : Radius of Influence

	11A	11B	11 Piez	10	10PA	10PB	9A	9B	9A	9B	9P
0900	Ø	Ø	Ø	.42	.68	Ø	.24	Ø	.06	.12	Ø
1300	+.02	+.02	+.04	.32	.70	+.04	.06	Ø	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 19708 D.O. # ~~45~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~3~~ 104B
Name: Kellogg Arrival Time: 0830 Departure Time: 0930
Date: 12-16-98

System Operational Upon Arrival : Yes No System Hours : N/A
If no explain failure:

SYSTEM Shut Down 0930

Leaks No Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 95°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System								
FIDw/filter								
Well #								

Water K.O. POT Level : % Full
Dilution Air : % Open Any System Maintenance ? Yes No
Explain Maintenance :

Service or repairs performed: Prior to Shutdown

Any System Changes ? Yes No
Explain System Changes:

Radius of Influence

Comments :

11A	11B	11 Piez	5A	5B	10	10 PiezB	10 PiezA	107
~~0~~	~~0~~	~~0~~	.18	~~0~~	.54	+.04	.78	.04

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18703~~ 18708 D.O. # ~~13~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE ~~3~~ 107
Name: Kellogg Arrival Time: 1230 Departure Time: 1330
Date: 12-16-98

System Operational Upon Arrival : (Yes) No System Hours : ~~N/A~~
If no explain failure: 1045 start-up

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 95 °F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System							75	98
FIDw/filter								
Well #								

Water K.O. POT Level : Ø % Full
Dilution Air : Ø % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes: SVE 107

Comments : Radius of Influence

1330	9	9A	9 Piez	10	10 PiezA	10 Piez B	104 B
	.14	.07	.03	Ø	Ø	Ø	Ø

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # ~~05~~ 65 W.B.S. ~~13002050~~ 06003011 Site 24 SVE~~3~~ 107
Name: Kellogg Arrival Time: Departure Time:
Date: 12-17-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

System Shut Down
0810

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 135°F

	FID		PID		Midpoint		VAC	FLOW
	Inff. ppm	Eff. ppm	Inff. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System							100	~~4~~ 55
FIDw/filter								
Well # 107								
						HG		
						7.5		

Water K.O. POT Level : 0 % Full
Dilution Air ~~4~~ % Open 25% Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

Comments

Radius of Influence

0750 9 .26 | 9A .13 | 9 Piez .10 | 104B .09 | 10 .22 | 10 Piez B 0 | 10 Piez A .15

gabsve

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # 65 W.B.S. 06003011 Site 24 SVE 1/6
Name: Arrival Time: 1715 Departure Time: 1815
Date: 12-17-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 140°F

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	20.1	Ø	41.6	2.6	Ø	4.4	88"	85
Well # 1/6	Ø	Ø			FIT Ø			
SVE 1/6								
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	7.5"	
	1.5	Ø			Ø	1.7		
					FID filtered			
					Ø			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : Ø % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure (Yes) No

Comments :
NO RADIUS of influence taken. will take 1st thing tomorrow.

OHM
SYSTEM MONITORING LOG

Job # ~~18793~~ 18708 D.O. # 65 W.B.S. 06003011 Site 24 SVE 116
Name: Kellogg Arrival Time: 0845 Departure Time: 0930
Date: 12-18-98

System Operational Upon Arrival : (Yes) No System Hours : N/A
If no explain failure:

Leaks : (No) Yes
If Yes Describe Leak :
Was leak repaired ?
Effluent Temp. 130 °F

	FID		PID		Midpoint		VAC	FLOW
	Inf. ppm	Eff. ppm	Inf. ppm.	Eff. ppm	FID	PID	H2O	SCFM
System	24.8	0	46.2	4.5	0	7.2	92"	90
Well #		0			0			
SVE 116								
	FID filtered				Second	Midpoint	Hg	
	Inf. ppm	Eff. ppm			FID	PID	7.5	
	11.3	0			0	.8		
					FID filtered			
					0			
					~~Third~~	~~Midpoint~~		
					~~FID~~	~~PID~~		
					~~FID filtered~~			

Water K.O. POT Level : 0 % Full
Dilution Air : 50 % Open Any System Maintenance ? Yes (No)
Explain Maintenance :

Service or repairs performed:

Any System Changes ? Yes (No)
Explain System Changes:

System operational upon departure: (Yes) No

Comments :

Radius of Influence

	5A	5B	10	10 Piez	10 Piez A	104B	107
0830	.17	0	.19	0	.11	0	0

gabsve