

November 7, 1994 SCI 727.001

Mr. Dante Sambajon Plant Engineer Coulter Steel and Forge Company 1494 - 67th Street Emeryville, California 94662-0901

Groundwater Monitoring September 1994 Event Former Diesel Fuel Tank Area 722 Folger Avenue Emeryville, California

Dear Mr. Sambajon:

This letter records the results of the fifth sampling event conducted by Subsurface Consultants, Inc. (SCI) for the groundwater monitoring program at the referenced site. Five monitoring wells have been periodically sampled in the vicinity of the former diesel fuel tank since May 1992. The previous tank area and well locations are shown on the attached Site Plan, Plate 1.

Groundwater Monitoring

The groundwater monitoring program for this site was modified by the ACHCSA in June 1994. As modified, the program requires the following:

- 1. Wells MW-4, MW-5 and MW-8 will be monitored for Total Extractable Hydrocarbons (TEH) and BTEX every quarter.
- 2. If well MW-4 shows detectable levels of contaminants, then, samples from well MW-6 must be analyzed.
- MW-3 is to be monitored for TEH and BTEX biannually.



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■ Subsurface Consultants, Inc.

Groundwater monitoring was conducted on September 7, 1994. For this sampling event wells MW-3, MW-4, MW-5, MW-6 and MW-8 were monitored. Initially, the depth to groundwater and the presence of free product were checked in all five wells with a steel tape, and water and petroleum product sensitive pastes. Groundwater level measurements are presented on Table 1.

Prior to sampling, the wells were purged of at least three well volumes of water. Measurements of water temperature, pH and conductivity were recorded at various intervals during the purge process. Well sampling forms are attached.

The depth to water in each well was checked, following purging and before sampling, to assure that the wells had recharged to at least 80 percent of their initial volume. The wells were then sampled using new disposable bailers. The samples were retained in containers pre-cleaned by the supplier in accordance with EPA protocol. The samples were placed in an ice filled cooler and transmitted to Curtis & Tompkins, Ltd. The testing program for this event included the following analyses:

- 1. Total Extractable Hydrocarbons as diesel (TEH) (EPA 5030/8015), and
- 2. Benzene, toluene, ethylbenzene and xylene (BTEX) (EPA 5030/602).

The results of all analytical testing events are presented on Table 2. Analytical test reports and Chain-of-Custody documents for the current event are attached.

Conclusions

Groundwater Gradient

Based on the data presented on Table 1, it appears that the groundwater flow direction is towards the west. The gradient is relatively flat in the former tank area, and gradually steepens toward the west. This data is consistent with previous findings. The groundwater flow contours and direction for this event are shown on Plate 1.

Diesel Contamination

In general, the data indicates that groundwater in a limited area around the previous tank site has been impacted by TEH within the diesel range. The upgradient and downgradient extent of the plume have been well defined.

In accordance with the monitoring program, the next sampling event will be performed during the month of December 1994. During that event, wells MW-4, MW-5 and MW-8 will be sampled and analyzed for TEH and BTEX.

■ Subsurface Consultants, Inc.

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If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Jeriann N. Alexander

Civil Engineer 40469 (expires 3/31/95)

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JTW:JNA:RWR:sld

2 copies submitted

Attachments: Site Plan - Plate 1

Table 1 - Groundwater Elevations

Table 2 - Summary of Contaminants in Groundwater

Analytical Test Reports

Chain-of-Custody Documents Groundwater Sampling Forms

cc: Ms. Susan Hugo

Hazardous Materials Specialist Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Rich Hiett Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, California 94612

Table 1.
Groundwater Elevation Data

	TOC Elevation		Groundwater Depth	Groundwater Elevation
<u>Well</u>	(feet)	<u>Date</u>	(feet)	(feet)
MW-3	24.70	5/15/92	11.15	13.55
		7/1/92	11.60	13.10
		8/18/92	12.00	12.70
		3/4/93	9.97	14.91
		6/8/93	10.47	14.23
		11/4/93	12.05	12.65
		12/6/93	11.62	13.08
		2/23/94	10.12	14.58
		6/9/94	10.98	13.72
		9/7/94	11.83	12.87
MW-4	23.92	5/15/92	10.00	13.92
		7/1/92	11.26	12.66
		8/18/92	11.58	12.34
		3/4/93	9.39	14.53
		6/8/93	10.01	13.91
		11/4/93	11.53	12.39
		12/6/93	11.11	12.81
		2/23/94	9.63	14.29
		6/9/94	10.47	13.45
		9/7/94	11.31	12.61
MW-5	23.85	5/15/92	10.52	13.33
		7/1/92	9.93	13.92
		8/18/92	9.24	14.61
		3/5/93	7.72	16.15
		6/8/93	8.31	15.54
		11/4/93	10.33	13.52
		12/6/93	9.91	13.94
		2/23/94	8.23	15.62
		6/9/94	9.09	14.76
		9/7/94	9.95	13.90
MW-6	22.98	5/15/92	12.46	10.52
		7/1/92	12.96	10.02
		8/18/92	13.42	9.56
		3/4/93	11.60	11.38
		6/8/93	12.34	10.64
		11/4/93	13.62	9.36
		12/6/93	13.08	9.90
		2/23/94	11.78	11.20
		6/9/94	12.73	10.25
		9/7/94	13.52	9.46

Table 1. **Groundwater Elevation Data**

<u>Well</u>	TOC Elevation (feet)	<u>Date</u>	Groundwater Depth (feet)	Groundwater Elevation (feet)
8-WM	23.85	12/6/93	9.07	14.15
		2/23/94	7.93	15.92
		6/9/94	8.60	15.25
		9/7/94	9.39	14.46

TOC = Top of casing
Elevation reference = City of Berkeley Survey Monument of Folger Avenue at the Location Shown on the Site Plan

Table 2.
TEH and BTEX Concentrations in Groundwater

		TEH	В	T	Έ	X
<u>Sample</u>	<u>Date</u>	<u>ug/l</u>	<u>uq/i</u>	<u>ug/l</u>	<u>uq/l</u>	<u>uq/i</u>
MW-3	5/15/92	100	<0.5	<0.5	<0.5	2.5
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5	<0.5
	6/8/93	<50	<0.5	<0.5	<0.5	<0.5
	11/4/93	60	<0.5	0.6	<0.5	0.21
	2/23/94	1600	<0.5	<0.5	<0.5	<0.5
	9/7/94	900	<0.5	<2	<0.5	<0.5
MW-4	5/15/92	10,000	<0.5	<0.5	<0.5	5
	8/18/92	300	<0.5	<1.0	<0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5	<0.5
	6/8/93	190	<0.5	<0.5	<0.5	<0.5
	11/4/93	<50	0.5	0.5	<0.5	0.9
MW-5	5/15/92	510	<0.5	<1.0	<0.5	<0.5
	2/23/94	<50	<0.5	<0.5	<0.5	<0.5
	6/9/94	530	<0.5	<0.5	<0.5	<0.5
	3/5/93	1,400	<0.5	<0.5	<0.5	<0.5
	6/8/93	1,300	<0.5	<0.5	<0.5	<0.5
	11/4/94	930	<0.5	0.5	<0.5	0.9
	2/23/94	3,100	<0.5	<0.5	<0.5	<0.5
	6/9/94	310	<0.5	<0.5	<0.5	<0.5
	9/7/94	1100	<0.5	<2	<0.5	<0.5
MW-6	5/15/92	<50	<0.5	<0.5	<0.5	2
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5	<0.5
	6/8/93	<50	<0.5	<0.5	<0.5	<0.5
	11/4/93	<50	<0.5	<0.5	<0.5	0.7
	2/23/94	<50	<0.5	<0.5	<0.5	<0.5
	6/9/94	<50	<0.5	<0.5	<0.5	<0.5
	9/7/94	<50	<0.5	<2	<0.5	<0.5
MW-8	12/6/93	<50	<0.5	<0.5	<0.5	<0.5
	2/23/94	<50	<0.5	<0.5	<0.5	<0.5
	6/9/94	<50	<0.5	<0.5	<0.5	<0.5
	9/7/94	<50	<0.5	<2	<0.5	<0.5

ug/l = micrograms per liter, parts per billion

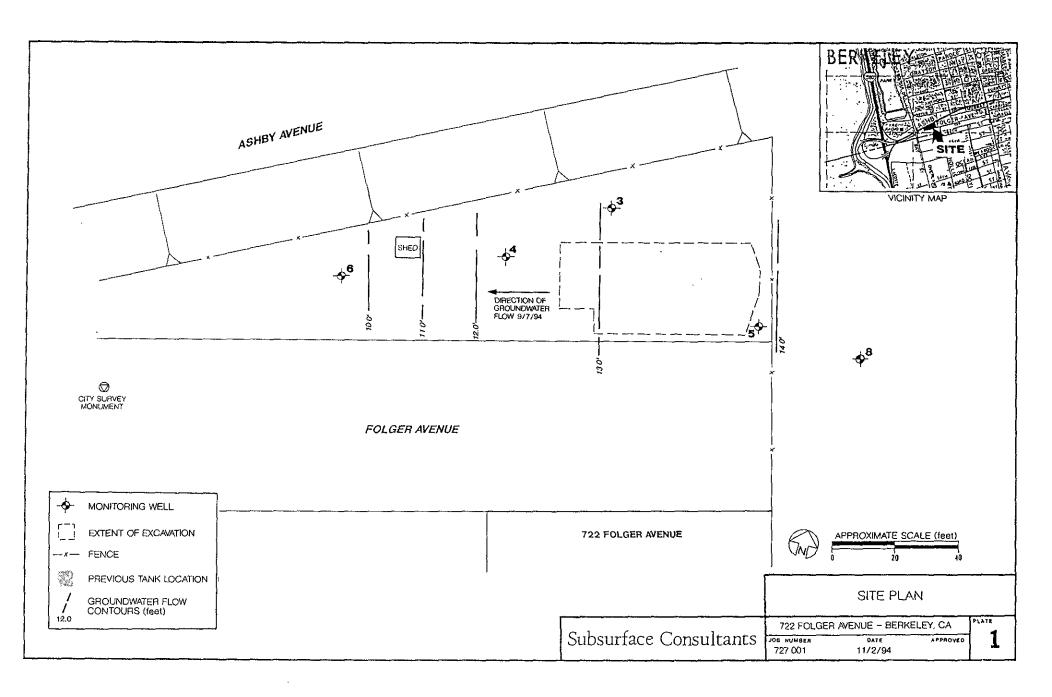
TEH = Total extractable hydrocarbons

B = benzene

T = toluene

E = ethylbenzene

X = xylenes





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants 171 12th Street Suite 201 Oakland, CA 94608

Date: 27-SEP-94

Lab Job Number: 117321

Project ID: 727.001

Location: Coulter Steel

Reviewed by: han klass

Reviewed by:

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Berkeley Irvine



LABORATORY NUMBER: 117321

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: Coulter Steel

DATE SAMPLED: 09/07/94
DATE RECEIVED: 09/08/94
DATE EXTRACTED: 09/09/94
DATE ANALYZED: 09/11,12/94

DATE REPORTED: 09/27/94

Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
117321-1	MW-3	**	900*	50
117321-3	MW-5	**	1,100	50
117321-4	MW-6	ND	ND	50
117321-5	MW-8	ND	ND	50
117321-METH	OD BLANK	ND	ND	50

QA/QC SUMMARY:

RPD, %	19
RECOVERY, %	92

^{*} Sample chromatogram does not match the diesel standard pattern. ** Kerosene range not reported due to overlap of hydrocarbon ranges.

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.



LABORATORY NUMBER: 117321

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: Coulter Steel

DATE SAMPLED: 09/07/94

DATE RECEIVED: 09/08/94

DATE ANALYZED: 09/22/94 DATE REPORTED: 09/27/94

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE	TOLUENE	ETHYL	TOTAL
		(ug/L)	(ug/L)	BENZENE (ug/L)	(ug/L)
117321-1	MW-3	ND(0.5)	ND(2)	ND(0.5)	ND(0.5)
117321-3	MW-5	ND(0.5)	ND(2)	ND(0.5)	ND(0.5)
117321-4	MW-6	ND(0.5)	ND(2)	ND(0.5)	ND(0.5)
117321 - 5	MW-8	ND(0.5)	ND(2)	ND(0.5)	ND(0.5)
117321-MET	HOD BLANK	ND(0.5)	ND(2)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit. Detection limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	4
RECOVERY, %	116

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Depth to Casing Bo	ottom (below 1	FOC)	30.00			feet
Depth to Groundwa	ater (below TC)C)	11.83			feet
Feet of Water in We	ell		12.17			feet
Depth to Groundwa	iter When 80%	6 Recovered	15.03			feet
Casing Volume (fee	et of water x C	asing DIA ² x :	0.0408) 2.97	, 		galions
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Free Product						
Purge Method			د صا			
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Subsurface	Cons	ultants	JOS NUMBER	DATE	APPROVE	a
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Job No.: 727. CC1 Sampled By: DUA TOC Elevation: Depth to Casing Bottom (below TOC) Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.040) Depth Measurement Method Tabe & Paste	Date Police 70.0	ather:	foags		feet feet
Sampled By:	Date Police 70.0	ather:	Foags		feet feet
Depth to Casing Bottom (below TOC) Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.040)	70.0 11.3 12.13 15.0	1 7 0			feet
Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.040)	11.3. 12.15 15.0	; 7 0			feet
Depth to Groundwater (below TOC) Feet of Water in Well Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.040)	11.3. 12.15 15.0	; 7 0			feet
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Depth to Groundwater When 80% Recovered Casing Volume (feet of water x Casing DIA 2 x 0.040)	15.0	<u>ර</u>		<u></u> ,	fnat
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	1025				livozasina
9 6.17 12.0	1075	-			Sedime
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Sampling Method					
Containers Used					
40 ml liter	·	pint			
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Ibsurface Consultants Loga MU		DATI		/ORPGA	

Project Name: Coulter Steel	Well Number: Mi (-5
Job No.: 707-001	Well Casing Diameter: inch
Sampled By: TOUA	Date:
TOC Elevation:	Weather: <u>Chaay</u>
,	
Depth to Casing Bottom (below TOC)	20.00 feet
Depth to Groundwater (below TOC)	
Feet of Water in Well	
Depth to Groundwater When 80% Recovere	d
Casing Volume (feet of water x Casing DIA a	$^{2} \times 0.0408$) gallons
Depth Measurement Method Tabe	e & Paste / Electronic Sounder / Other
Free Product	
Purge Method	pailer
Gallons Removed pH Temp (°0 6.63 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	
Total Gallons Purged 5 Depth to Groundwater Before Sampling (below Sampling Method 100 bailed)	·
Containers Used 3 40 ml	liter pint
ubsurface Consultant	S JOS NUMBER DATE APPROVED

	21 Floe!		ımber:	<u> </u>	
Job No.: 727.	201	Well Ca	sing Diameter:	_2	inch
Sampled By:		Date:	9/1/02		
TOC Elevation:		Weathe	er: <u>Coday</u>		
			,		
Depth to Casing Bottom (belo	w TOC)	30.00			feet
Depth to Groundwater (below	TOC)				
Feet of Water in Well		1643			feet
Depth to Groundwater When	80% Recovered	16.82			feet
Casing Volume (feet of water	x Casing DIA 2 x	0.0408) 2.69			gallons
Depth Measurement Method	Tape &	Paste / Electr	onic Sounder	\/_ Other	
Free Product)				
Purge Method		alei			
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0 6.57 3 6.67 6 0.71 9 6.66	17.5 17.5 17.0 17.0	(micromhos/cm) 1050 1075 1075 1075		Seni-	ಾರ್ಯ ನಿಯಾ gallons
O 6.57 3 6.67 6 .71 9 6.66 Total Gallons Purged 9 Depth to Groundwater Before S	17.5 17.5 17.0 17.0	(micromhos/cm) 1050 1075 1075 1075		Seni-	en sito
O 6.57 3 6.67 6 .71 9 6.66 Total Gallons Purged 9 Depth to Groundwater Before S Sampling Method	17.5 17.5 17.0 17.0	(micromhos/cm) 1050 1075 1075 1075		Seni-	ಾರ್ಯ ನಿಯಾ gallons
O 6.57 3 6.67 6 .71 9 6.66 Total Gallons Purged 9 Depth to Groundwater Before S Sampling Method	17.5 17.5 17.0 17.0	(micromhos/cm) 1050 1075 1075 1075		Seni-	ಾರ್ಯ ನಿಯಾ gallons
0 <u>6.5</u> 7 3 <u>6.61</u> 6 <u>6.71</u>	17.5 17.5 17.0 17.0	(micromhos/cm) 1050 1075 1075 1075 1075		Seni-	ಾರ್ಯ ನಿಯಾ gallons
O 6.57 3 6.67 6 .71 9 6.66 Total Gallons Purged 9 Depth to Groundwater Before S Sampling Method	17.5 17.5 17.0 17.0 Sampling (below The Clan Sampling (below The Clan S	(micromhos/cm) 1050 1075 1075 1075 1075		Seni-	ಾರ್ಯ ನಿಯಾ gallons

	CNICAN	<u> </u>	Well N	lumber: <u>Mw</u>	~/	
Job No.: 7	27. 801_		Well C	asing Diameter:	2	inch
Sampled By:	<u> </u>		Date:	9/7/94		
TOC Elevation:			Weath	er: <u>foagy</u>	<u> </u>	<u> </u>
			21.00			feet
Depth to Groundwater (below TOC)						<u>-</u>
Feet of Water in Well			11.61	· · · · · · · · · · · · · · · · · · ·		feet
Depth to Groundwa	ter When 80%	% Recovered	11:71			feet
Casing Volume (fee	t of water x C	Casing DIA 2 x	0.0408)	0		gallons
Depth Measuremen				ronic Sounder	/ Other	
Free Product	MONE					
Purge Method	disoc	salde ba	i'-e1			
			EASUREMENTS Conductivity			
D	<u>6.61</u>		Conductivity (micromhos/cm)		,	ments Lo Odo Pan
2 4 /2 Fotal Galions Purged	<u>6.61</u> <u>6.53</u> <u>6.53</u> <u>√2</u> r Before Sam	Temp (°c) 1 (2.5) 1 (9.5) 1 (9.5) 1 (9.5) 1 (9.5)	Conductivity (micromnos/cm) 900 950 975 10-00	Salinity S%	deal;	
2 4 /2 Fotal Gallons Purged Depth to Groundwate	6.61 6.53 6.53 r Before Sam	Temp (°c) 12.5 19.5 19.0 18.5	Conductivity (micromnos/cm) 900 950 975 10-00	Salinity S%	deal;	ean gallons
2	<u>6.61</u> <u>6.53</u> <u>6.53</u> <u>√2</u> r Before Sam	Temp (°c) 1 (2.5) 1 (9.5) 1 (9.5) 1 (9.5) 1 (9.5)	Conductivity (micromnos/cm) 900 950 975 10-00	Salinity S%	deal;	ean gallons