

August 21, 1996

Mr. Barney Chan Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Subject:

Groundwater Monitoring at Former Seabreeze Yacht Center, Inc. Site

280 6th Avenue, Oakland

Dear Mr. Chan:

Enclosed please find the results of the first quarterly monitoring of five wells at the former Seabreeze Yacht Center. The next round of sampling is scheduled for October 1996.

If you have any questions, please contact me at 272-1467.

Sincerely,

Diane Heinze, P.E.

Diane Henz

Associate Environmental Scientist

enclosure

cc: Sum Arigala, RWQCB 2101 Webster Street, Suite 500, Oakland, CA 94612

cc: w/out enclosure:

Neil Werner Mark O'Brien Michele Heffes

86 AUG 22 PM 2: 18

ENVIRONMENTAL PROTECTION

BASELINE

ENVIRONMENTAL CONSULTING

19 August 1996 S9171-CO

COPY.

Ms. Diane Heinze Port of Oakland Environmental Department 530 Water Street Oakland, California 94608

Subject: Quarterly Groundwater Monitoring Report, June-July 1996, Former Seabreeze Yacht Center, Inc. Site, 280 6th Avenue, Oakland, California

Dear Ms. Heinze:

This report documents the groundwater sampling activities performed on 1 July 1996 at the former Seabreeze Yacht Center, Inc. Site (Site), located in Oakland (Figure 1). The groundwater monitoring was conducted in accordance with the 7 June 1996 Port of Oakland (Port) letter to the Alameda County Health Care Services Agency, Department of Environmental Health (County). The groundwater monitoring network includes wells PW-2, MW-SB2, MW-SB3, MW-SB4, and MW-SB5 (Figure 2).

FIELD ACTIVITIES, JUNE-JULY 1996

On 28 June 1996, the presence of free product was checked and water levels were measured in the monitoring network wells using a dual-interface probe. Water levels were measured and recorded to the nearest one-hundredth of a foot. The dual-interface probe was decontaminated after each use by washing in a trisodium phosphate (TSP) solution and rinsing with deionized water. A slight sheen was identified in monitoring well MW-SB4; all other wells did not have any observable sheen or free product. An odor (petroleum?) was noticed in all wells except monitoring wells MW-SB2 which had a sulfur odor.

On June 28, each monitoring well was purged of approximately two to three well volumes using a double diaphragm pump with new, disposable PVC tubing after water level measurements. Electrical conductivity, pH, and temperature of the purge water were monitored during purging. The recharge rate in all wells was too slow to allow the removal of a full three well volumes in each well. The wells did not recover to 80 percent of original water levels on 28 June. Therefore, well sampling occurred on 1 July 1996; at that time the groundwater levels had recovered to at least 80 percent of the original water levels, except for MW-SB2.

Sample bottles were labeled and stored in a cooler containing blue ice. The groundwater samples were submitted under chain-of-custody protocol to Curtis & Tompkins, Ltd. of Berkeley for analysis on the day of sampling. The groundwater samples were analyzed for total lead, total

PROTECTION PROTECTION



Ms. Diane Heinze 19 August 1996 Page 2

copper, and total extractable hydrocarbons (TEH) as diesel and Bunker C. The samples collected for metals analyses were placed in plastic containers; the samples were not filtered. Prior to the TEH analysis, the samples were subjected to a silica gel cleanup (EPA Method 3630). The groundwater sampling forms, which document sampling activities, are included in Attachment A and the chain-of-custody form is included in Attachment B.

One drum containing purge and decontamination water was generated from the June-July 1996 sampling activities. The drum was labeled and stored on-site.

ANALYTICAL RESULTS

The metals and TEH analytical results are summarized in Table 1 and the laboratory reports are presented in Attachment B.

GROUNDWATER FLOW DIRECTION

Recently collected and historic groundwater elevation data are summarized in Table 2. The groundwater elevation data were used to calculate groundwater flow direction and gradient magnitude using the three point method for the June-July 1996 monitoring event. The groundwater flow direction was calculated as east-southeast at S76E, with a gradient magnitude of 0.005.

The next quarterly groundwater monitoring event will be performed in October 1996. The data collected during this sampling event will be used to develop additional analytical needs for source identification and determination of chemicals of concern. If you have any questions, or need further information, please contact us at your convenience.

Sincerely,

Yane Nordhay

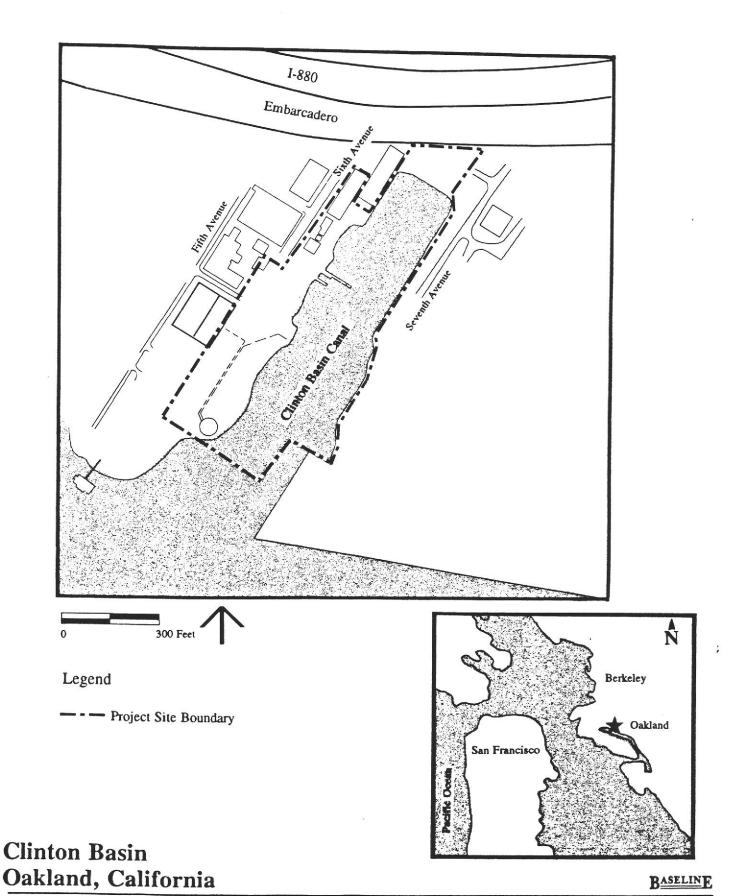
Principal

Reg. Geologist No. 4009

Rhodora Del Rosario

Juddhoper

Civil Engineer



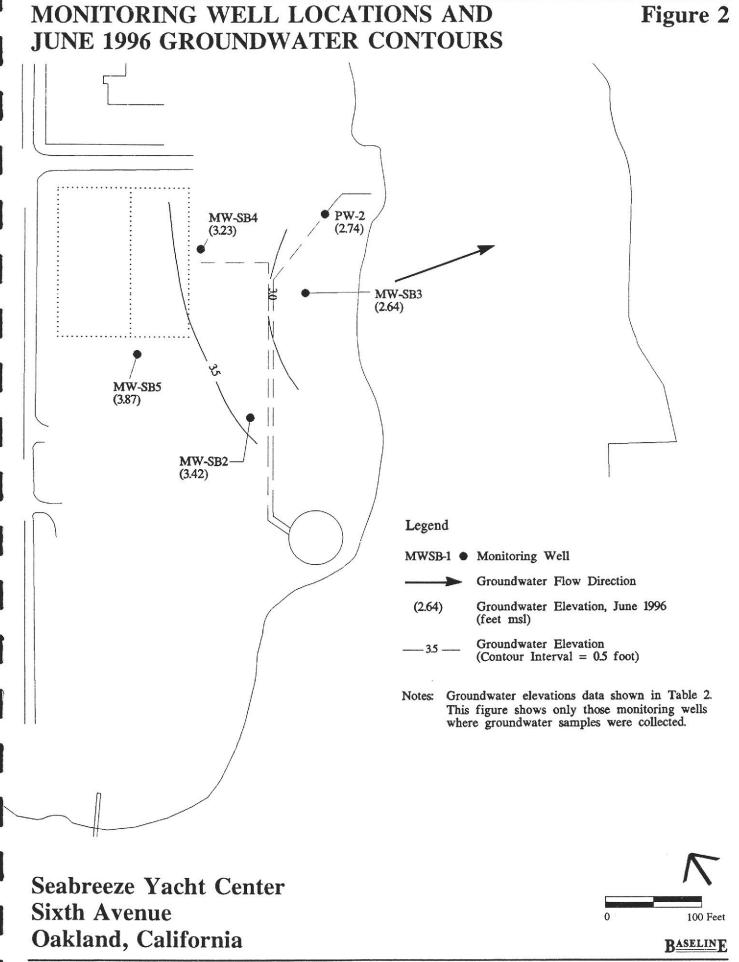


TABLE 1 ANALYTICAL RESULTS Seabreeze Yacht Center, Oakland, California (mg/L)

		Met	als¹	Total Extractable Hydrocarbons ²			
Sample ID	Sample Date	Lead	Copper	Diesel	Bunker C	Motor Oil	
PW-2	2/2/95 3/6/95 7/1/96	0.0043 <0.003	 <0.01	1.7 ³ <0.049 ⁴	 4.4³ <0.3⁴	1.1 ³	
MW-SB2	4/9/91 4/19/91 1/10/94 12/26/94 3/6/95 7/1/96	<0.06 ⁷ <0.07 <0.10 ⁷ <0.0048 ⁸ <0.003/ <0.003	<0.02 ⁸ 0.0481 <0.02 ⁸ 0.014 ⁸ 0.055/ 0.065	 16.0 ³ / 18.0 ^{3,5} <0.050 ⁴ / 0.170 ^{4,6}	28.0 ³ / 33.0 ^{3.5} <0.3 ⁴ / <0.3 ⁴	 4.9 ³ / <25.0 ^{3.5}	
MW-SB3	3/6/95 7/1/96	0.0036	 <0.01	4.5³ <0.049⁴	5.8 ³ <0.3 ⁴	1.53	
MW-SB4	3/3/95 7/1/96	 0.014	0.013	4.5³ <0.049⁴	3.0 ³ <0.3 ⁴	0.66 ³	
MW-SB5	3/6/95 7/1/96	0.0031	0.012	15.0 ³ / 15.0 ^{3.5} <0.049 ⁴	34.0 ³ / 31.0 ^{3.5} <0.3 ⁴	8.1 ³ / 6.9 ^{3,5}	

Notes: $\langle x.x \rangle$ = analyte not identified above laboratory reporting limit of x.x.

x.x/x.x = duplicate sample.

-- = no analysis performed.

Refer to Figure 2 for well locations.

Laboratory reports for the July 1996 sampling event are included in Attachment B.

- Analytical Method EPA 6010A, unless otherwise noted.
- Analytical Method California DOHS, LUFT Manual (EPA 8015M).
- Sample chromatogram does not resemble hydrocarbon standard.
- Samples were subjected to silica gel cleanup (EPA 3630) prior to analysis.
- Duplicate sample centrifuged prior to TEH analyses.
- Sample exhibited fuel pattern which did not resemble standard.
- ⁷ EPA Method 7420.
- 8 EPA Method 7210.

TABLE 2

GROUNDWATER ELEVATION DATA Seabreeze Yacht Center, Oakland, California

Well	Date	Time	Surface Elevation (msl)	TOC Elevation (msl)	Depth to Groundwater (feet)	Groundwater Elevation (msl)
PW-2 ¹	2/15/95 ² 3/3/95 6/28/96	9:10 7:37	5.56	6.57	4.60 3.90 3.83	1.97 2.67 2.74
MW-SB2 ³	4/19/91 7/9/91 1/10/94 1/26/94 11/14/94 11/28/94 3/3/95 6/28/96	11:09 11:04 12:31 13:40 7:30 11:05 14:14 9:00 8:50 7:40	6.2	7.18	5.38 3.7 3.08 1.63 4.8 4.76 4.73 2.85 2.84 3.76	1.8 3.48 4.1 5.5 2.38 2.42 2.45 4.33 4.34 3.42
MW-SB3 ³	11/14/94 11/28/94 12/06/94 3/3/95 6/28/96	7:25 11:00 14:12 8:53 8:37 8:40 7:35	6.0	8.10	8.23 8.14 8.07 6.32 6.15 6.78 5.46	-0.13 -0.04 0.03 1.78 1.95 1.32 2.64
MW-SB4 ⁴	11/28/94 3/3/95 6/28/96	9:02 8:35 8:28	6.6	6.39	1.05 0.90 3.16	5.34 5.49 3.23
MW-SB5 ⁴	11/28/94 3/3/95 6/28/96	8:40 9:00 8:45	6.9	6.30	6.32 2.54 2.43	-0.02 3.76 3.87

Notes: 11/14/94: High tide 9:21; Low tide 15:50.

11/28/94: High tide 7:46.

2/15/95: High tide 5:14 and 18:03; Low tide 23:34.

3/3/95: High tide 13:14; Low tide 7:03. 6/28/96: High tide 11:41; Low tide 4:35.

-- = Unknown.

msl = Feet above mean sea level

TOC = Top of casing

Refer to Figure 2 for well locations.

Well survey conducted by Bates & Bailey 2/8/95.

Groundwater elevation measured by SOMA; all other elevations measured by BASELINE.

Well survey conducted by Bates & Bailey 11/18/94.

Well survey conducted by Bates & Bailey 11/28/94.

ATTACHMENT A GROUNDWATER SAMPLING FORMS

		1 SAIVIPLING					
Project no.:		S9171-C0	Well no.:	PW-2		Date: <u>6/28/96</u>	
Project name:		Seabreeze Yacht Center	Depth of well	from TOC (feet):	15		
Location:		260 6th Avenue	Well diamete	r (inch):	4		
		Oakland, CA	Screened inte	rval from TOC (feet): 6.5-15.0		
Recorded by:		WKS/RPD/TT	TOC elevation	n (feet):	6.57		
Weather:		Sunny	Water level fi	rom TOC (feet):	3.83	Time: 7:37	
Precip in past			Product level	from TOC (feet):	None	Time: 7:37	
5 days (inch):		None	- Water level n	neasurement:	Dual interface	e probe	
	[(15	TO BE REMOVED BEFO ft) - (3.83 ft)] × (0.166 Water level Well radi	6 ft) ² × 3.14 ×	7.48 = <u>7</u>	.2 gallons in one .1 gallons in 5 w 12 total gallons i	vell volumes	
CALIBRATIO	ON:						
Calibratio Befo	on Standard: ore Purging: ter Purging:		Temp (° C) 20.5 21.7	<u>pH</u> 7.00 7.00 7.05	EC (<u>µmho/cm)</u> 10,000 8,000 8,000		
FIELD MEAS	SUREMENT	ΓS:					
				Cumulative			
80.002	Temp	99	EC	Gallons			
<u>Time</u>	(° C)	<u>H</u> q	(µmho/cm)	Removed	į	<u>Appearance</u>	
8:06	20.3	6.84	20,000	1	Clear with bla	ack particulate matter	
8:30	19.8	6.83	25,000	2.5	Clear with bla	ack particulate matter	
8:45	20.0	6.84	23,500	5	Clear with bla	ack particulate matter	
		UMP RATE			C1 14 14	- 1	
9:00	19.5	6.80	23,500 23,500	7.5 12		ack particulate matter ack particulate matter	
9:06 WE	19.1 LL PUMPE	6.81 D DRY	23,300	12	Cical with bit	ack particulate matter	
Note: Recharg	ge rate too s	low to allow 80% recharge	before sampling	on 6/28/96. Sample	e collected on 7/	1/96.	
Water level aft	ter purging p	orior to sampling (feet):		6.55		Time: 7/1/96 10:38	
Appearance of		Clear to very slightly turbic	d with petroleun	n odor		Time: 7/1/96 10:38	
Duplicate/blan		None				Time:	
Purge method:		Double diaphragm pump					
Sampling equi	•	Disposable PVC bailer		VOC attachment:	None		
Sample contain		One-liter amber glass, one-	-liter plastic	T also and to re-	Curtia & Tan	ankine I td	
Sample analys		TEPH, copper, lead	nce	Laboratory: Rinsate disposal:	Curtis & Ton MW-SB2 to 5		
Decontaminati	ion method:	TSP and water, DI water ri	1120	Tamsare disposar.	141 44 -2DZ 10 .	J 04 1 11 - 2	

GROUNDWATE	N SAMPLING					
Project no.:	S9171-C0	Well no.:	MW-SI	32	Date: 6/28/96	
Project name:	Seabreeze Yacht Center	Depth of well	l from TOC (feet):	11.0		
Location:	260 6th Avenue	Well diamete	er (inch):	2	2	
	Oakland, CA		erval from TOC (feet)			
Recorded by:	WKS/RPD/TT	TOC elevation	50755 WH	7.18		
Weather:	Sunny		rom TOC (feet):	3.76	Time: 7:40	
Precip in past	buinty		from TOC (feet):	None	Time: 7:40	
	None	Water level n		Dual interface		
5 days (inch):	None	water rever in	neasurement.	Dual Interface	prooc	
VOLUME OF WATER	TO BE REMOVED BEFOR	RE SAMPLING	G:			
[(11.0 ft	$(1) - (3.76 \text{ ft}) \times (0.083)$	$ft)^2 \times 3.14 \times 7$	7.48 = 1.3	2 gallons in one	e well volume	
Well depth	Water level Well radiu	is	5.9	gallons in 5 w	vell volumes	
			2.5	total gallons r	emoved	
CALIBRATION:						
CALIBRATION:		Temp		EC		
	Time	(° C)	<u>pH</u>	(umho/cm)		
Calibration Standard:	· · · · · · · · · · · · · · · · · · ·		7.00	10,000		
Before Purging:	7:30	20.5	7.00	8,000		
After Purging:	11:20	21.7	7.05	8,000		
CICL D MEACUDEMEN	TC.					
FIELD MEASUREMEN	15.		Cumulative			
Temp		EC	Gallons			
Time (° C)	<u>pH</u>	(umho/cm)	Removed		Appearance	
Time (C)	<u>pri</u>	(parmo/em)	TOHO TO	-	<u> </u>	
9:21 19.8	6.86	13,000	0.5	Clear, sulfur o	odor	
9:25 19.7	6.98	13,000	2	Clear, sulfur o	odor	
9:27 19.5	7.02	12,000	2.5	Clear, sulfur of	odor	
WELL PUMPE	D DRY					
Note: Recharge rate too s	slow to allow 80% recharge b	efore sampling	g on 6/28/96. Sample	collected on 7/	1/96.	
Water level after purging	prior to sampling (feet):	7.33			Time: 7/1/96 10:51	
Appearance of sample:	Clear, sulfur odor	7.55			Time: 7/1/96 10:51	
Duplicate/blank number:	MW-SB2-duplicate				Time: 7/1/96 10:51	
Purge method:	Double diaphragm pump					
Sampling equipment:	Disposable PVC bailer		VOC attachment:	None		
Sample containers:	One-liter amber glass, one-l	iter plastic		White the same of		
Sample analyses:	TEPH, copper, lead		Laboratory:	Curtis & Tom	pkins, Ltd.	
	TSP and water, DI water rin	ise	Rinsate disposal:	MW-SB2 to 5		

GROUNDWATE	A SAIMPLING							
Project no.:	S9171-C0	Well no.:	MW-SB3		Date: 6/28/96			
Project name:	Seabreeze Yacht Center	Depth of wel	1 from TOC (feet):	11.06				
Location:	280 6th Street	Well diamete	2400	2				
Location.	Oakland, CA		erval from TOC (feet):					
Decorded by:	WKS/RPD/TT	TOC elevation		8.10				
Recorded by:					Time: 7:35			
Weather:	Sunny		from TOC (feet):	5.46				
Precip in past			from TOC (feet):	None	Time: 7:35			
5 days (inch):	None	Water level n	neasurement:	Dual interface	probe			
VOLUME OF WATER	VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:							
	ft) - (5.46 ft)] × (0.083			gallons in one	well volume			
Well depth				gallons in 5 w	ell volumes			
Vaste			3.5	total gallons re	emoved			
CALIDDATION.								
CALIBRATION:		Temp		EC				
	<u>Time</u>	(° C)	<u>pH</u>	(umho/cm)				
Calibration Standard:	:		7.00	10,000				
Before Purging:		20.5	7.00	8,000				
After Purging:	: 11:20	21.7	7.05	8,000				
FIELD MEASUREMEN	TS:							
To the straight the straight s			Cumulative					
Temp		EC	Gallons					
Time (°C)	<u>pH</u>	(umho/cm)	Removed	<u> </u>	Appearance			
7:49 20.3	6.73	18,000	1.5	Clear with slig	ght amber color			
7:59 20.4	6.74	18,000	3.5		ght amber color			
WELL PUMPE		Tuto & State of the		3 25	,			
					1 TZ J			
Note: Recharge rate too s	slow to allow 80% recharge b	efore sampling	3 on 6/28/96. Sample	collected on 7/1	./96.			
Water level after purging		6.77			Time: 7/1/96 10:45			
Appearance of sample:	Clear to very slightly turbid	with black she	een and petroleum odc)r	Time: 7/1/96 10:45			
Duplicate/blank number:	None				Time:			
Purge method:	Double diaphragm pump		100000 20 20 20 E					
Sampling equipment:	Disposable PVC bailer		VOC attachment:	None				
Sample containers:	One-liter amber glass, one-li	iter plastic	¥ 1	Curtin & Tom	alsing Itd			
Sample analyses:	TEPH, copper, lead		Laboratory: Rinsate disposal:	Curtis & Tom MW-SB2 to 5				
Decontamination method:	: TSP and water, DI water rin	ise	_Rinsate disposar:	WW-3DZ 10 3	0C T W-2			

anound ware	IT OAIIII EIITG			
Project no.:	S9171-C0	Well no.:	MW-SB4	Date: 6/28/96
Project name:	Seabreeze Yacht Center	Depth of wel	l from TOC (feet):	14.75
Location:	260 6th Avenue	Well diamete	er (inch):	2
	Oakland, CA		erval from TOC (feet)	: 2.55-14.75
Recorded by:	WKS/RPD/TT	TOC elevation		6.39
Weather:	Sunny		from TOC (feet):	3.16 Time: 8:28
Precip in past	Sumiy		from TOC (feet):	Slight sheen Time: 8:28
• •	Nome		neasurement:	Dual interface probe
5 days (inch):	None	water level i	neasurement.	Buai interface proce
VOLUME OF WATER	TO BE REMOVED BEFOR	RE SAMPLIN	G:	
[(14.75	ft) - (3.16 ft)] × (0.083)	$f(t)^2 \times 3.14 \times 10^{-2}$	7.48 = 1.	gallons in one well volume
100000	h Water level Well radiu			gallons in 5 well volumes
				7 total gallons removed
OAL IDDATION				
CALIBRATION:		Temp		EC
	Time	(° C)	pН	(umho/cm)
Calibration Standard		-	7.00	10,000
Before Purging	g: 7:30	20.5	7.00	8,000
After Purging	g: 11:20	21.7	7.05	8,000
 FIELD MEASUREMEN	ITQ.			
FIELD WILASONEWEN	113.		Cumulative	
Temp		EC	Gallons	
Time (°C)	pН	(umho/cm)	Removed	Appearance Appearance
<u>ime</u> <u>te</u> r	<u> </u>		- CALLED CONTROL OF THE CONTROL OF T	-
9:38 20.1	6.96	2,700	1	Clear to very slightly turbid
9;46 18.1	6.94	16,000	5	Slightly turbid
	FLOW RATE	16000	-	Olimbala, analoli d
10:29 18.6	6.98	16,000	7	Slightly turbid
WELL PUMP	ED DRY			
Note: Recharge rate too	slow to allow 80% recharge b	efore sampling	on 6/28/96. Sample	collected on 7/1/96.
Trote. Recharge rate too	olow to unlow out of the leadings of	•10. • o	, 1	
Water level after purging	prior to sampling (feet):		3.19	Time: 7/1/96 10:28
Appearance of sample:	Clear to very slightly turbid	, petroleum od	or	Time: 7/1/96 10:28
Duplicate/blank number:				Time:
Purge method:	Double diaphragm pump			
Sampling equipment:	Disposable PVC bailer		VOC attachment:	None
Sample containers:	One-liter amber glass, one-l	iter plastic	T -1	Cartie & Tomphine I td
Sample analyses:	TEPH, copper, lead		_ Laboratory:	Curtis & Tompkins, Ltd. MW-SB2 to 5 & PW-2
Decontamination method	i: TSP and water, DI water rin	ise	Rinsate disposal:	IVI W -3DZ IU J & r W -Z

Project no.: _		S9171-C0	Well no.:	MW-SB5		Date: 6/28/96		
Project name:_		Seabreeze Yacht Center	_ Depth of well	from TOC (feet):	14.75			
Location:		260 6th Avenue	Well diameter	(inch):	2			
_		Oakland, CA	Screened inter	val from TOC (feet): 2.55-14.75	2.55-14.75		
Recorded by:		WKS/RPD/TT	TOC elevation	(feet):	6.30			
Weather:		Sunny	_	om TOC (feet):	2.43	Time: 8:45		
Precip in past		Buility		from TOC (feet):	None	Time: 8:45		
5 days (inch):		None	Water level m	Service Control of the Control of	Dual interfac			
VOLUME OF	WATERT	O BE REMOVED BEFO	BE SAMPLING	:				
		t) - (2.43 ft)] × (0.08			.0 gallons in one	e well volume		
Well depth Water level Well radi					.0 gallons in 5 v	vell volumes		
					6 total gallons	removed		
CALIBRATIC	DN:							
		.m.	Temp		EC			
Colibratio	n Standard:	<u>Time</u>	(° C)	<u>pH</u> 7.00	(μmho/cm) 10,000			
	n Standard: ore Purging:	7:30	20.5	7.00	8,000			
	ter Purging:	11:20	21.7	7.05	8,000			
FIELD MEAS	UREMEN	rs:		min in one				
			7.0	Cumulative				
TP'	Temp		EC	Gallons Removed		Appearance		
<u>Time</u>	(° C)	<u>pH</u>	(µmho/cm)	Kemoved		Туррешинее		
10:45	19.4	6.67	22,000	1	Lig	ht amber color		
10:51	20.1	6.63	19,000	2	Lig	ht amber color		
11:04	20.4	6.76	20,000	3.5	_	ht amber color		
11:11	19.6	6.83	21,000	5	_	ht amber color		
11:15	19.0	6.87	19,000	6	Lig	ht amber color		
Note: Recharg	ge rate too si	ow to allow 80% recharge	before sampling	on 6/28/96. Sample	e collected on 7/	1/96.		
Water level aft	ter nurging 1	prior to sampling (feet):		2.34		Time: 7/1/96 11:18		
Appearance of		Light amber color, petrole	eum odor			Time: 7/1/96 11:18		
Duplicate/blan		None				Time:		
Purge method:		Double diaphragm pump						
Sampling equi		Disposable PVC bailer		VOC attachment:	None			
Sample contain	•	One-liter amber glass, one	e-liter plastic					
Sample analys		TEPH, copper, lead		Laboratory:	Curtis & Ton			
	on mathods	TSP and water, DI water r	inse	Rinsate disposal:	MW-SB2 to :	5 & PW-2		

ATTACHMENT B LABORATORY REPORTS



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

2323 Fifth Street, Berkeley, CA 9471O, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 19-JUL-96

Lab Job Number: 126175
Project ID: S9171-CO
Location: Seabreeze

Reviewed by: Damara Moore

Reviewed by:

This package may be reproduced only in its entirety.

Berkeley

Irvine

CLIENT: Baseline Environmental

PROJECT ID: S9171-CO LOCATION: Seabreeze

MATRIX: Water

DATE REPORTED: 07/23/96

Metals Analytical Report

Co	ממ	er
	r_{r}	~1

			Co	pper					, 5
Sample ID	Lab ID	Sample Date	Receive Date	Result (ug/L)	Reporting Limit (ug/L)	IDF	QC Batch	Method	Analysis Tate
PW-2	126175-00	07/01/96	07/01/96	ND	10	1	28505	EPA 6010A	07/05/96
MW-SB2		07/01/96		55	10			EPA 6010A	
MW-SB3	126175-00	07/01/96	07/01/96	ND	10			EPA 6010A	
MW-SB4		07/01/96		13	10				07/05/96
MW-SB5	126175-00	07/01/96	07/01/96	12	10				07/05/96
MW-SB2A	126175-00	07/01/96	07/01/96	65	10				07/05/96
						1			
			<u> </u>			L		<u> </u>	2



JUL 23 '96 10:35

CLIENT: Baseline Environmental

PROJECT ID: S9171-CO LOCATION: Seabreeze

MATRIX: Water

DATE REPORTED: 07/23/96

Metals Analytical Report

				1	ead					0
Sample ID	Lab) ID	Sample Date	Receive Date	Result (ug/L)	Reporting Limit (ug/L)	IDF	QC Batch	Method	Analysis Date
PW-2	126	175-001	07/01/96	07/01/96	ND	3.0	1	28505	EPA 6010A	07/05/96
MW-SB2	126	175-002	07/01/96	07/01/96	ND	3.0			EPA 6010A	
MW-SB3	126	175-003	07/01/96	07/01/96	3.6	3.0			EPA 6010A	
MW-SB4	126	175-004	07/01/96	07/01/96	14	3.0	1	28505	EPA 6010A	07/05/96 3
MW-SB5	126	5175-005	07/01/96	07/01/96	3.1	3.0	1	28505	EPA 6010A	07/05/96
MW-SB2A	120	5175-006	07/01/96	07/01/96	ND	3.0	1	28505	EPA 6010A	07/05/96
1			şel 4(15)							
				<u></u>				4		=
	ND = Not detected at or above reporting limit ♀									





TEH-Tot Ext Hydrocarbons

Client: Baseline Environmental

Project#: S9171-CO Location: Seabreeze Analysis Method: CA LUFT (EPA 8015M)

Prep Method: EPA 3520 Cleanup Method: 3630(126175)

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
126175-009	5 MW-SB5	28535	07/01/96	07/03/96	07/18/96	
126175-006	6 MW-SB2A	28535	07/01/96	07/03/96	07/20/96	

Matrix: Water

Analyte Diln Fac:	Units	126175-005 1	126175~006 1	
Diesel C12-C22 Bunker C	ug/L ug/L	<49 <300	170 ¥ <300	
surrogate				
Hexacosane	*REC	114	100	

Y: Sample exhibits fuel pattern which does not resemble standard

FROM-CURTIS & TOMPKINS

T-324 P. 07/11 F-207

CHOMMET W IDD

leName : C:\GC15\1998038.RAW

: BTEHJ.MTH Start Time : 0.01 min

End Time : 19.80 min

Sample #: 28535

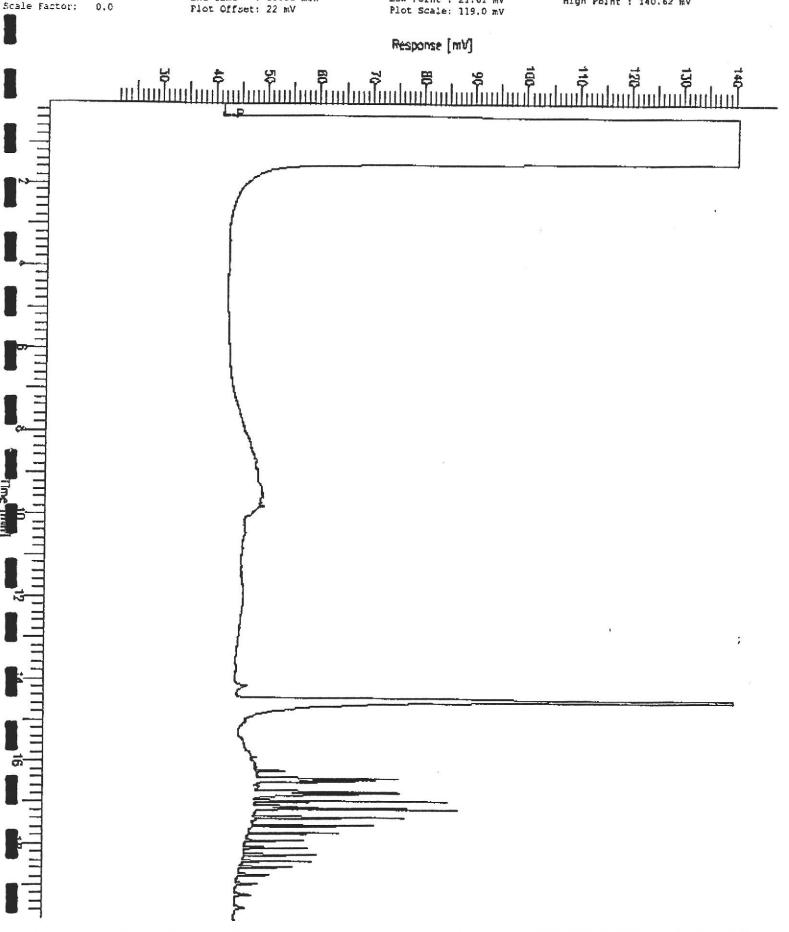
Date: 7/18/96 09:59 AM

Time of Injection: 7/18/96 01:48 AM

Low Point : 21.61 mV

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High Point : 140.62 mV



Sample Name : CCV, 96WS2565, DSL FileName : C:\GC15\199B032.RAW

hod : BTEHJ.MTH

act Time : 0.01 min Scale Factor: 0.0

End Time : 19.80 min Plot Offset: -3 mV

Sample #: 500MG/L Date : 7/18/96 08:27 AM

Time of Injection: 7/17/96 11:03 PM

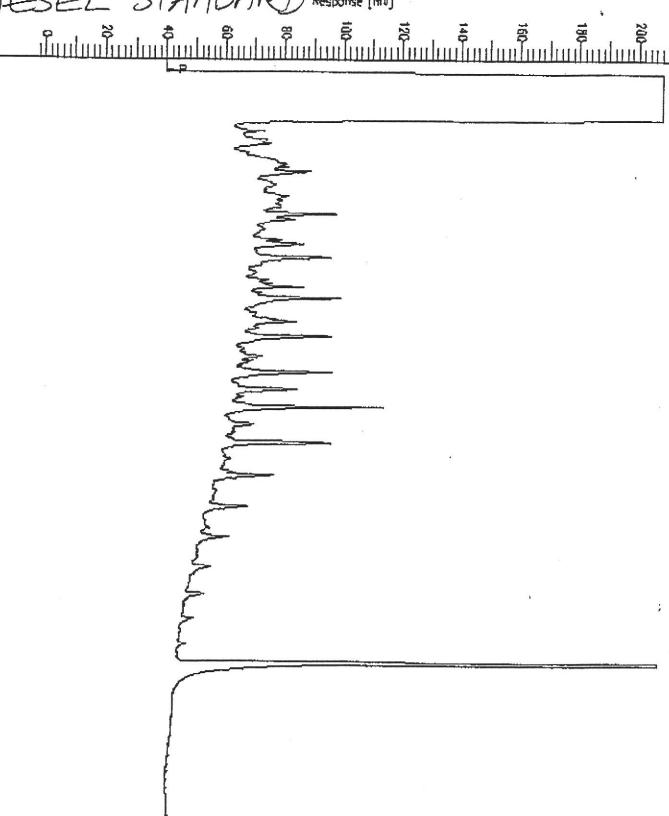
Plot Scale: 210.9 mV

Page 1 of 1

Low Point : -2.89 mV

High Point : 208.04 mV





Sample Name : CCV, 96WS2344, C

LeKame : C:\GC15\CHB\2018061.RAW

thod : BTEHJ.MTH art Time : 0.01 min

Scale Factor: 0.0

End Time : 31.91 min

Plot Offset: 10 mV

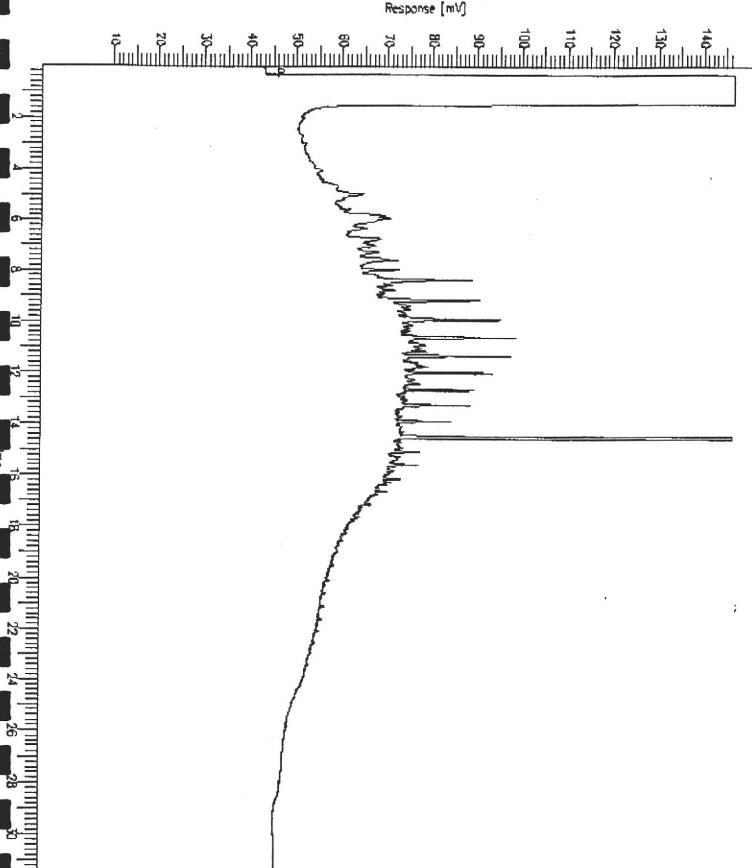
Sample #: 1250MG/L

Date : 7/22/96 06:22 PM

Time of Injection: 7/21/96 06:40 AM

Low Point : 9.53 mV Flot Scale: 137.1 mV High Point + 146.67 mV

Page 1 of 1



140115-6

Sample Name : W, 126175-006

eName : C:\GC15\CHB\201B048.raw

thod : DUAL

rt Time : 0.00 min Scale Factor: 0.0

End Time : 31.90 min

Plot Offset: 32 mV

Sample #: 28535

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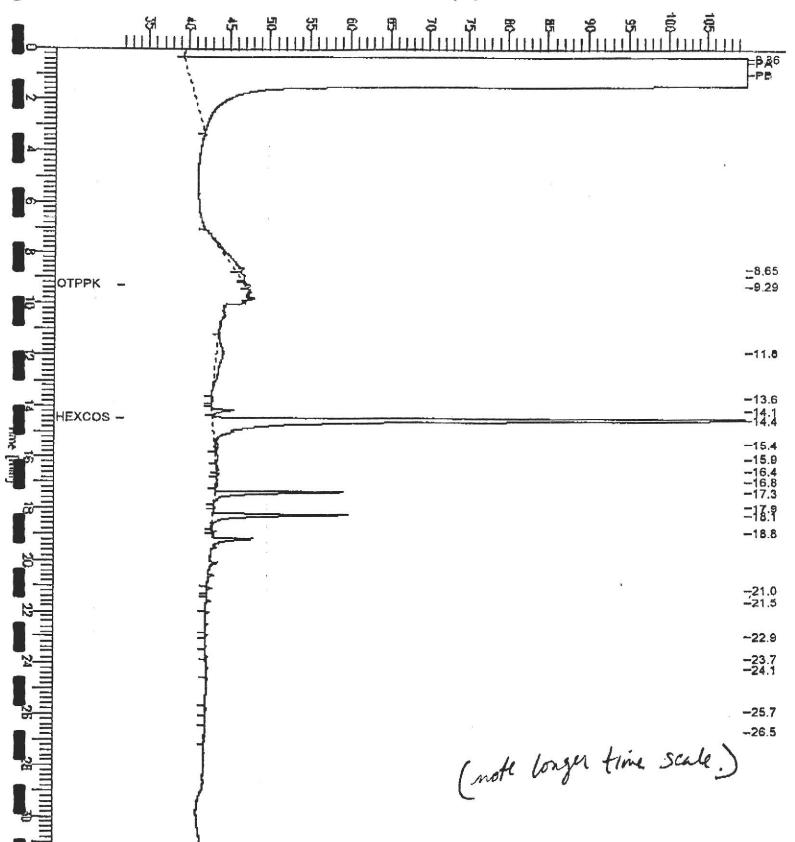
Date: 7/20/96 09:48 PM

Time of Injection: 7/20/96 09:12 PM

Low Point : 32.00 mV Plot Scale: 78.0 mV

High Point : 110.00 mV

Response [mV]



)() 101	SELINE O Hollis Street, Suite D teryville, CA 94608 O) 420-8686 CHAIN OF CUSTODY RECORD												Turn-around Time Lab BASELINE Contact Person					Standard PAT CFF Hudera Rel Posario			
	oject No.	Project Name and Location Seabruze 280 Gth ave						llysis	<u>a</u>	1		7	EMNU20)					1			
-324 	Samplers: (Signature) Secretalings							la d	XIO.	3			Sal	1	<i>一</i>	3					
Vo.	uple ID . Station	Date	Time	Media	Depth	No. of Contain- ers	TEH	(TPH with Braze	Oil & C	Motor Oil	PNA	Title 33	Total 1	Slicke	80 4	1			/	Remarks/ Composite	Detec- tion
Ballageres	V-2	7/1/94	10:46	Water	Ĺ	2	X							χ	*						
	LB MW-SB2	7/1/94	10:55	Water	,	2	X							×	X						
DB		7/1/94	10:36	Water	1	2 2	X							7	X						
7	MW-SB5	7/1/94	11:20	Water		12	7	\dashv						×	*						
⊇ ≈ —	NW-SB24	7/1/96	10:55	Water	_	2	X							X	X						
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. ·	etinquished by: (Signature)			Pate / Tim	Received hyd (Signature)						Date / Time 7/1/96 15:50				- 1	Conditions of Samples Upon Arrival at Laboratory					
65:01 of	elinquished by: (Signature)			ate / Tin	Received by: (Signature)					Date / Time				,	Remarks: + Subject simples						
elinquished by: (Signature)			D	ate / Tin	Received by: (Signature)							Date / Time				+ Subject simples to silica gel clem up prior to TEpH analysis					