#### LETTER OF TRANSMITTAL

**TO**: Susan Hugo

Alameda County Health Agency

Department of Environmental Health

1131 Harbor Bay Parkway, 2nd Floor

Alameda, California 94502

DATE:

22 June 2001

**PROJ. NO.** 990016.04

PROJECT: Simeon

64th Street Properties

Emeryville, California

#### **WE ARE SENDING YOU THE FOLLOWING:**

One Final Copy of the Quarterly Groundwater Monitoring Report for June to April 2001 for the 64th Street Properties located in Emeryville, California.

Please call Derby Davidson or myself at 650-292-9100 if you have any questions or need additional information.

Very truly yours,

ERLER & KALINOWSKI, INC.

Christopher Kubacki

If enclosures are not as noted, please advise us at once.

# Quarterly Groundwater Monitoring Report April to June 2001

64th Street Properties Emeryville, California

Prepared for:

Simeon Commercial Properties San Francisco, California

Prepared by:

Erler & Kalinowski, Inc. (EKI 990016.04)

21 June 2001

# Erler & Kalinowski, Inc.

Consulting Engineers and Scientists 1870 Ogden Drive Burlingame, California 94010 (650) 292-9100 Fax: (650) 552-9012



Consulting Engineers and Scientists

1870 Ogden Drive Burlingame, CA 94010 (650) 292-9100 Fax: (650) 552-9012

21 June 2001

Ravi Arulanantham, Ph.D. California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor Alameda, California 94502

Subject:

Quarterly Groundwater Monitoring Report

April to June 2001

64th Street Properties, Emeryville, California

(EKI 990016.04)

Dear Dr. Arulanantham and Ms. Hugo:

On behalf of Simeon Commercial Properties, Erler & Kalinowski, Inc., is pleased to present this report summarizing results of quarterly groundwater monitoring activities conducted at the 64<sup>th</sup> Street Properties located at 1480 64<sup>th</sup> Street, Emeryville, California from April to June 2001. If you have any questions, please call.

Very truly yours,

ERLER & KALINOWSKI, INC.

Derby Davidson, P.E.

Project Engineer

Michelle Kriegman-King, Ph.D.

Project Manager

cc: Pierson Forbes, Simeon Commercial Properties

Maurice Kaufman, City of Emeryville



# Quarterly Groundwater Monitoring Report April to June 2001 64th Street Properties Emeryville, California

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# Quarterly Groundwater Monitoring Report April to June 2001 64<sup>th</sup> Street Properties Emeryville, California

#### **APPENDICES**

Appendix A Groundwater Purge Sample Forms for May 2001

Appendix B Laboratory Analytical Reports and Chain of Custody Documents for

May 2001



#### 1.0 INTRODUCTION

On behalf of Simeon Commercial Properties ("Simeon"), Erler & Kalinowski, Inc. ("EKI") is pleased to present this report summarizing the results of quarterly groundwater monitoring activities conducted at the 64<sup>th</sup> Street Properties located at 1480 64<sup>th</sup> Street in Emeryville, California ("Site") from April to June 2001. The location of the Site is shown on Figure 1.

Well installation, well development and groundwater monitoring at the Site were conducted in January and February 2001. These activities were documented in EKI's *Quarterly Groundwater Monitoring Report January to March 2001*, submitted to California Regional Water Quality Control Board San Francisco Bay Region and Alameda County Health Agency Department of Environmental Health on 2 April 2001.

Groundwater monitoring at the Site for this quarter was conducted in May 2001 and in accordance with the Final Risk Management Plan for the 64th Street Properties, dated 30 August 1999 ("RMP"). The RMP was approved in the Alameda County Department of Environmental Health ("ACDEH") letter dated 15 October 1999. The RMP requires installing four monitoring wells on the Site (i.e., SMW-1, SMW-2, SMW-3, and SMW-4), measuring water levels quarterly in these four monitoring wells, collecting groundwater samples quarterly from these wells, and analyzing the groundwater samples for total extractable petroleum hydrocarbons as diesel ("TEPH") quarterly and volatile organic compounds ("VOCs") annually. The approximate locations of these wells are shown on Figure 2. Data from these monitoring events will be reported quarterly to the RWQCB and the ACDEH.

The objectives of the groundwater monitoring program are to monitor TEPH and VOC concentrations in groundwater at the perimeter and downgradient of the Site and verify the stability or decline of TEPH concentrations over time. During the April to June 2001 groundwater monitoring event, groundwater samples collected from the four monitoring wells were analyzed for TEPH. Groundwater samples were not analyzed for VOCs, as the RMP requires annual VOC analysis, which was performed last quarter.

#### 2.0 GROUNDWATER MONITORING

Quarterly monitoring at the Site includes measuring groundwater levels and collecting groundwater samples from Site monitoring wells SMW-1 through SMW-4 (Figure 2). EKI conducted monitoring activities at the Site on 24 May 2001.

#### 2.1 Water Level Monitoring

Prior to sampling, EKI measured water levels in each well using a pre-cleaned electronic sounding tape. Water level data obtained by EKI was used to assess the magnitude and direction of the hydraulic gradient in the shallow water-bearing zone at the Site (see



Section 3.1 below). Historic measured water level data and water level data collected in May 2001 are summarized in Table 1.

#### 2.2 Groundwater Sampling and Laboratory Analyses

Prior to sampling, groundwater was purged until at least three of four parameters (temperature, specific conductance, pH, and turbidity) stabilized. Approximately three well-casing volumes of groundwater were removed from each well. Groundwater samples were collected from wells SMW-1, SMW-2, SMW-3, and SMW-4. Groundwater Purge Sample Forms are included in Appendix A.

Groundwater samples from the wells were collected using PVC bailers and nylon string. Separate disposable PVC bailers were used at each well. Well SMW-4, which contains a thin layer of floating product (i.e., less than 0.03 feet), was sampled through a stilling tube.

Rinsate from equipment cleaning and purged groundwater from the wells were contained and stored on-Site in 55-gallon drums. Simeon will dispose of the rinse water and purged groundwater in accordance with applicable laws and regulations.

Groundwater samples were labeled, logged on a chain-of-custody document, and packed on ice in a chilled ice chest for transport to the laboratory. Samples were analyzed by Curtis & Tompkins, Ltd., for TEPH with silica gel cleanup using EPA Method 8015M. Groundwater analytical results for the 24 May 2001 monitoring event are summarized in Table 2 and are shown on Figure 3. Copies of laboratory reports from these groundwater analyses are included in Appendix B. Groundwater analytical results are discussed in Section 3.2 below.

# 3.0 EVALUATION OF HYDRAULIC GRADIENT AND GROUNDWATER SAMPLING RESULTS

This section summarizes (a) hydraulic groundwater gradient information obtained at the Site on 24 May 2001, (b) groundwater analytical results from on-Site groundwater monitoring conducted on 24 May 2001, and (c) quality control results.

#### 3.1 Hydraulic Gradient

The groundwater potentiometric surface contour map for the Site shallow water-bearing zone shown on Figure 2 is based on water levels measured in wells SMW-1, SMW-2, SMW-3, and SMW-4 on 24 May 2001. As shown on Figure 2, the direction of the hydraulic gradient in the shallow water-bearing zone is westerly across the southwestern portion of the Site. The estimated magnitude of the hydraulic gradient across the Site is 0.007 for May 2001.



#### 3.2 Groundwater Analytical Results

Current and historic TEPH data detected in groundwater samples collected from wells SMW-1, SMW-2, SMW-3, and SMW-4 are summarized in Table 2 and on Figure 3. Data presented on Figure 3 also include analytical results of grab groundwater samples collected in 1995 and 1999, as presented in *Phase I and Phase II Environmental Site Assessment for 64<sup>th</sup> Street Properties*, dated 20 May 1999 ("ESA").

In May 2001, individual TEPH concentrations were not detected above 50 micrograms per liter ("ug/L") in groundwater samples collected from downgradient monitoring wells SMW-1 and SMW-2. TEPH was detected at 74 ug/L in the groundwater sample collected from downgradient monitoring well SMW-3, and at 300 ug/L in the groundwater sample collected from monitoring well SMW-4 in May 2001. As indicated above, the groundwater sample from monitoring well SMW-4 was collected through a stilling tube because of the presence of a thin layer of floating product. The measured TEPH concentrations should represent levels dissolved in groundwater on the southern property boundary.

As shown on Figure 3, TEPH data from May 2001 are generally consistent with or have decreased in comparison to prior Site data. Significant off-site migration of TEPH from the former refinery does not appear to have occurred.

#### 3.3 Quality Control Results

All QA/QC analytical results, including matrix spike/matrix spike duplicates, laboratory blanks, and surrogates, were within (a) generally accepted laboratory QA/QC protocols and (b) requirements of the laboratory's internal quality control procedures. The data collected during the May 2001 monitoring event are considered acceptable and useable for their intended use.

# TABLE 1 SUMMARY OF GROUNDWATER ELEVATION DATA

64th Street Properties, Emeryville, California

Well Number	Date	Well Elevation (1) (Feet Above MSL)	Depth to Water (Feet)	Groundwater Elevation (Feet Above MSL)
SMW-1	02/01/01	12.21	5.68	6.53
	05/24/01	12.21	5.67	6.54
SMW-2	02/01/01	11.54	4.67	6.87
	05/24/01	11.54	4.92	6.62
SMW-3	02/01/01	12.31	5.60	6,71
	05/24/01	12.31	5.63	6.68
SMW-4	02/01/01	12.25	2.41 (2)	9.84 (2)
	05/24/01	12.25	2.43 (2)	9.82 (2)

#### Notes:

- (1) Surveyed elevation from mark on the top of the PVC casing; feet above mean sea level.
- (2) A thin layer of floating product was observed in this well. The floating product thickness was less than 0.03 feet.

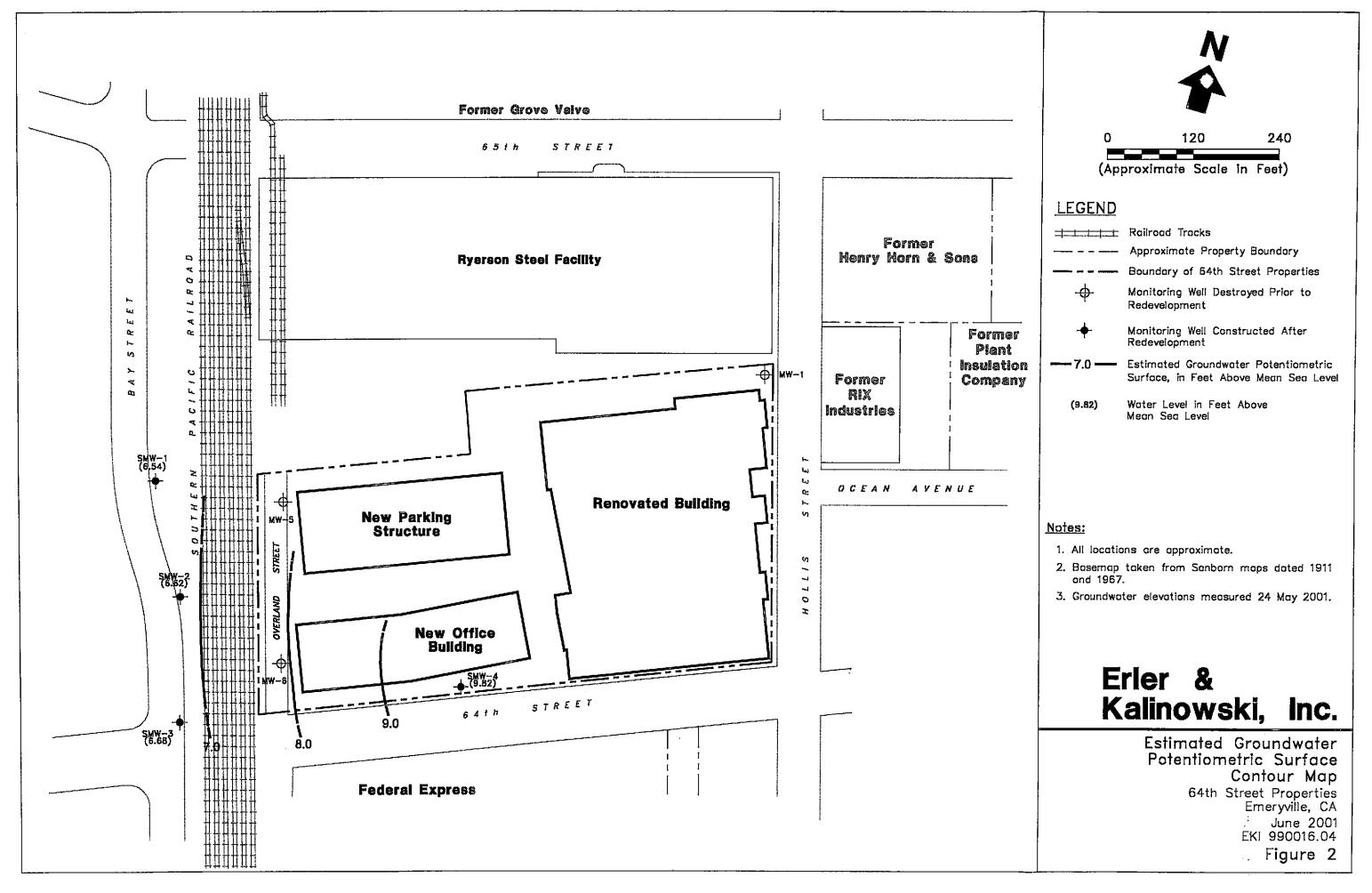
# TABLE 2 SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA

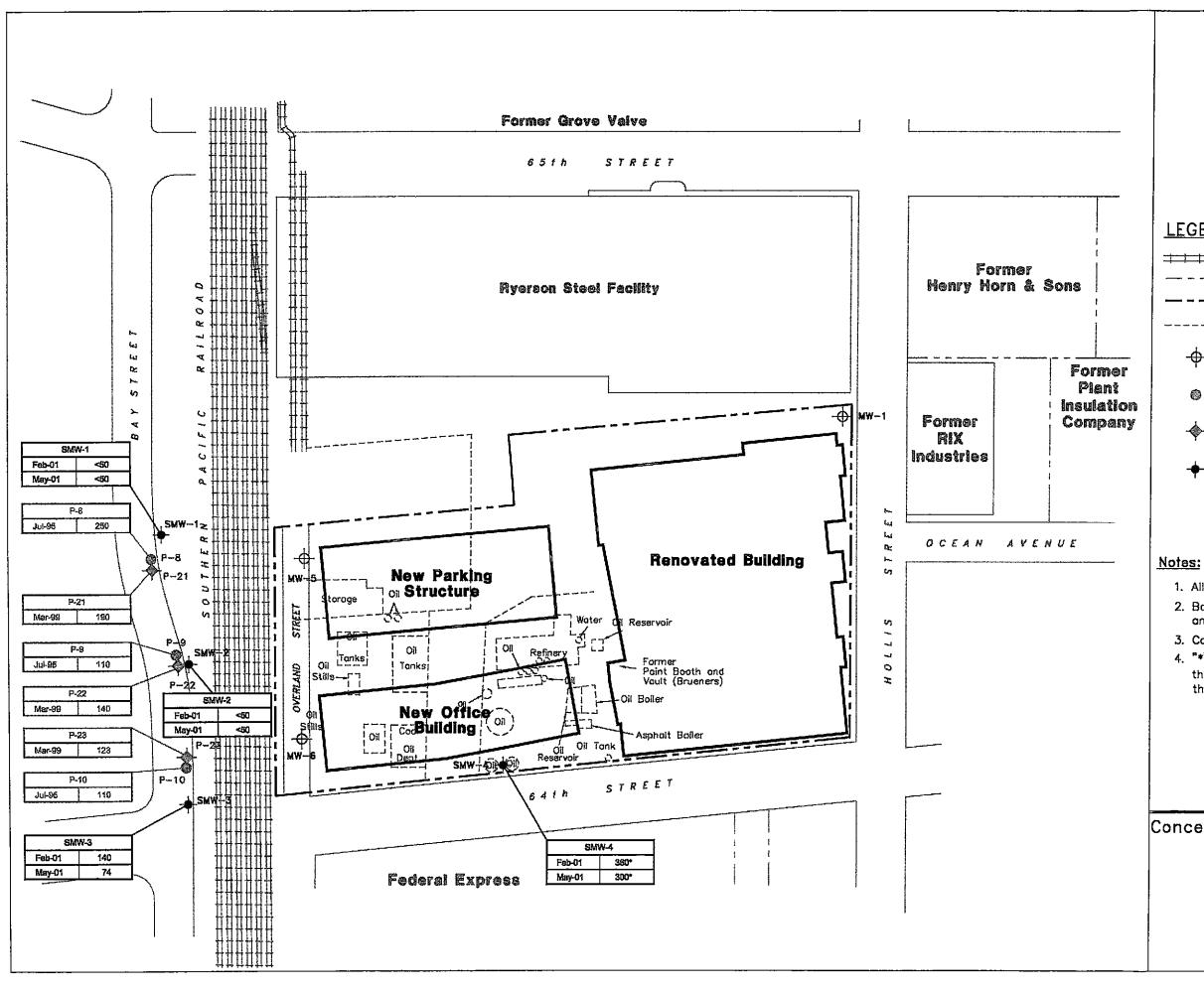
64th Street Properties, Emeryville, California

Well Number	Feb-01 (1) TEPH (3) (ug/L) (4)	May-01 (2) TEPH (ug/L)
SMW-1	<50 (5)	<50
SMW-2	<50	<50
SMW-3	140	<b>74</b>
SMW-4	360	<b>300</b>

#### Notes and abbreviations:

- (1) Samples collected during the February 2001 groundwater monitoring event.
- (2) Samples collected during the May 2001 groundwater monitoring event.
- (3) TEPH = total extractable hydrocarbons (quantified as diesel). Samples were analyzed after performance of a silica gel cleanup in the laboratory.
- (4) ug/L = micrograms per liter (ppb)
- (5) <50 = not detected at laboratory detection limit of 50 ug/L







240 (Approximate Scale in Feet)

#### **LEGEND**

Railroad Tracks

---- Approximate Property Boundary

----- Historical Site Features (1911 Sanborn Map)

Monitoring Well Destroyed Prior to Redevelopment

Grab Groundwater Sampling Location Collected by EKI, 1995

Grob Groundwater Sampling Location Collected by EKI, 1999

Monitoring Well Constructed After Redevelopment

- 1. All locations are approximate.
- 2. Basemap taken from Sanborn maps dated 1911 and 1967.
- 3. Concentrations are in ug/L.
- 4. "\*" Indicates that a sheen was observed in this well. Groundwater sample was collected through a stilling tube.

# Erler & Kalinowski, Inc.

Concentrations of Total Extractable Petroleum Hydrocarbons in Groundwater

64th Street Properties Emeryville, CA June 2001 EKI 990016.04 Figure 3



### APPENDIX A

Groundwater Purge Sample Forms for May 2001

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PROJECT NAME: > meon-Emergrile							5/24/0	?(
PROJECT NUMBER:990	ROJECT NUMBER: 99006-04 WELL NUMBER: Smw-2							
WELL VOLUME CALCUI								
Depth of Depth	to			Water		Multiplie	er	Casing Vol
Well (ft.) Water	(ft.)			Column	(ft.)	(below)		(gallons
/5 - 4-92 Mult. for casing diam. = 2-inch=0.16; 4			=	10-0	3	* 0.64	, =	6.45
The state of the s	, , , , , , , , , , , , , , , , , , , ,				III	ISTRUMENT	CALIBRAT	ION
PURGE METHOD:							Fie	
Submersible pump	Ba	iler _	_		1	strument	measu	re measure
Peristaltic pump 🗶		Other _			1	onductivity,		
PURGE DEPTH:					· (	millimhos/cm @		
	<del></del>				pH	1-6	= SML	1
START TIME: //-25	_ END TI	ME:		- Water and the same and	Tu	rbidity, NTU		
TOTAL GALLONS PURG	ED.				4	mperature		
SAMPLES: Field I.D.			ime Collected	4	De	pth Probe#	9. Danasanatia	_
OVM @ 11:40 - 0.0 pg	4	1	mie Collectet	7		Containers	& Preservatio	<u>n</u>
OVm e 12:20 -0.07								
VIII (2110 10.57)	, , , , , , , , , , , , , , , , , , ,							
SAMPLE METHOD: Baile	r 🗸 .	ther						.5.
SAMPLE METHOD: Baile	1 4							
COMMENTS: Check	COC							
Time			1	T	T		T	T
	11:35	11:45	12:00	12:20	12:41	12:55		
Volume Purged	1	,		/	16	77.33		
(gallons	12	4	8	12	16	19		
Temperature				/			<del>                                     </del>	
(degrees C	19.0	17.4	17:7	17.7	17.4	17.6		
pH	1		1,72	1 / - /	( /- /	17.0		
	6.67	6-66	6.76	6:74	6.76	6.75		
Specific Conductivity					0.20			
@ 25 C (millimhos/cm	0.961	0.954	1.015	1.019	1.020	1.011		
Turbidity (NTU)	clair low			, , , ,				
/Appearance	turbity 0.95	0.92	1.10	1.15	0.40	0.75		
Depth to Water	1			,,,,				
during purge (feet	5.30	5.29	5.37	5.35	5.37	5.37		
Number of Casing			, ,					
Volumes removed	0.31	0.62	1.24	1.86	2.48	2.95		
Purge Rate		( J. )		. 20	- 1/	2.()		
(gallons/minute	)							
10	1							

PROJECT NAME: Sime	en-Emer	mulle				DATE:	5/24/61	
PROJECT NUMBER: 990	016-04	WELL	NUMBER	R: Sm	V-3	PERS(	ONNEL: K	beck'
WELL VOLUME CALCUL	ATION:							
Depth of Depth	to			Water		Multipli	er (	Casing Vol
Well (ft.) Water	(ft.)			Column	(ft.)	(below)		(gallons
15 - 5.6	3		=	9.37		* 0.6	1 = 6	ÖA
Mult. for casing diam. = 2-inch=0.16; 4				1.27			, 6	
						INSTRUMENT	CALIBRATIO	N
PURGE METHOD:	. 5-						Field	Standar
Submersible pump Peristaltic pump  X	Ba	iler — Other	_		- 1	<u>nstrument</u> Conductivity,	measure	measur
		_		<b>S</b> ).		(millimhos/cm @	25C)	
PURGE DEPTH:					F	OH SEE	SmW-1	
START TIME: /3:20	END TH	N/E-			1	Н	,	
OTAKT TIME. 12.26	_ [ [ ] [ ] [ ]	IVIL			[ '	urbidity, NTU		
9					·   T	emperature		
TOTAL GALLONS PURG	ED:					epth Probe#		
SAMPLES: Field I.D.		7	ime Collecter	<u>d</u>		Containers	& Preservation	
OVME 13:32 = 0.00pm								
	- (		7					
SAMPLE METHOD: Bailer	$\times$	other						
COMMENTS:								
Time	Т	1	T	1	T		T	
Time	12.70	17.24	21/10	1.177	alen	,		
Volume Purged	117.28	13:40	14-00	14:00	114.4		+	
(gallons)	2	4	8	12	16			
Temperature		1-7-	0 .	1/2	14	_		
(degrees C)	208	20.1	20.1	19.9	20.6	,		
рН				11-1				
5	6.76	6.73	6.74	6.73	6.7	2		
Specific Conductivity			10-1-1	6	16.1			
@ 25 C (millimhos/cm)	1.197	1.221	1.270	1.277	1.24	0		
Turbidity (NTU)	115 1	-	7.00		/	-		
/Appearance	turbidity	0.32	0.15	0.29	0.1	7		
Depth to Water	1			1	- 1			
during purge (feet)	6-48	6.96	6-92	7.14	7.60			
Number of Casing		1000						
Volumes removed	0.33	0.67	1.33	2	2.6	7		
Purge Rate			, , ,	-				
(gallons/minute)								

PROJECT NAME: Since	- Ene	-sv: Ne		and the second of the second			DATE:	5/24	lai	
PROJECT NUMBER: 9900	-11		PERSO		•	41				
WELL VOLUME CALCUL	ATION:	90 0 0		21-10	7	- 10			145	C. C.
Depth of Depth	to			Water			Multiplie	er	Ca.	sing Vol
Well (ft.) Water				Column	(īt.)		(below)			gallons
15 - 2.4	3		=	12.57	7	*	0.64	-	8	NU
Mult. for casing diam. = 2-inch=0.16; 4-							7		0,	-7
						INS	TRUMENT	CALIBRA	NOITA	
PURGE METHOD:	·	2.7					1000-0 Pro 100 20 <b>4</b>		Field	Standar
Submersible pump Peristaltic pump X	Бa	iler Other _	_				<u>iment</u> uctivity.	mes	ISUTE	measur
Terrace to bomb	Ų!	Orner _		-			limhos/cm @	25C)		
PURGE DEPTH:						рН		•		
START TIME: 15:35	END TI	N /I≡ ·			- 1	pΗ				
31ART HIVE. 13:35	ENDIII	IVI⊏				Turbio	fity, NTU			
	12.					Temp	erature			
TOTAL GALLONS PURGE	ED:					Depth	Probe#			
SAMPLES: Field I.D.		]	Time Collecte	<u>d</u>	-00		Containers	& Preserva	ition	
OVM @ 15:35 = 0.9 ppm OVM & 15:58 = 3.4 ppm	<i>(.</i> , ,			ovm C	16:05	= /.	5 ppn			
Site IT The state of the state	(at well)						,,			
OVIME 15:55 = 20.7 (	.in well at	top of co	45/2)							
SAMPLE METHOD: Bailer	×	other								
COMMENTS: Check	(-1									
Time	Cou	T	T	1	т — —			Т		
Title	15.Ur	15.00	110:05	16:20	111		11 -			
Volume Purged	73.75	17:32	1/6.03	16:20	160:2	55	16.55		$\dashv$	
(gallons)	2	4	1	1/2	16		20			
Temperature		-/	10	1/2	10		20		-	
(degrees C)	19.1	18.8	18.8	18.7	18.7	7	18.6			
рН	7.7.7	7,7,0	170-8	10.1	10.7		10.6		+-	
	4.76	6.75	6.73	6.74	6.7	3	10.73			
Specific Conductivity			2.70	/					$\top$	
@ 25 C (millimhos/cm)	1.565	1.558	1.550	1.557	1.56	,5	1.577			
Turbidity (NTU)	からなっつつ	5 -			cleco		less clando			
/Appearance	2.44	1.71	1.02	1.51	2-35	170	1			
Depth to Water							•			
	2.67	2.78	291	2.96	3.0	2	3.07			
Number of Casing	220 22 1000									
Volumes removed	0.25	0.50	1.00	1.50	1.90	2	249			
Purge Rate										
(gallons/minute)										



## APPENDIX B

Laboratory Analytical Reports and Chain of Custody Documents for May 2001





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

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

#### ANALYTICAL REPORT

Prepared for:

Erler & Kalinowski, Inc. 1870 Ogden Drive Burlingame, CA 94010-5306

Date: 08-JUN-01 Lab Job Number: 152229 Project ID: 990016.04

Location: Simeon. 64th street prop.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

Project Manager

Reviewed by:

Operations Manager

This package may be reproduced only in its entirety.

CA ELAP # 1459

Page 1 of  $\underline{\mathcal{S}}$ 

## Erler & Kalinowski, Inc.

## **CHAIN OF CUSTODY RECORD**

CONSULTING ENGINEERS A	ND SCIENTISTS	3		1 <del>730</del>	South Amphiett Blvd. (	Suite 320 Sa	San Mateo-CA 94402 PHONE: 650-578-1172 FAX: 650-578-9131	(Section)
				70 Osdo	en Drive Burling	ane CA	A Ph: (650) 292-9100 Fax: (60) 552 9012	
Project Name	Energyil	L	Project No.	990016	of Drive Burling	7 2	ANALYSES REQUESTED EKI COC No.	-
Project Location 64th Stre	et Propets DA	Pes:	Laboratory Curti			THAIS		
Report Results to:		Sampled By		/	F	Boism Tica Gel		
Derby Davids	<u> </u>	C	hois Ke	sach'	-	A gois		
Field Sample Identification	Lab Sample No.	Date	Time	Type of Sample	No. of Containers / Preservative	25/2	REGUESTED TURNAROUND Remarks	
SMW-(		5/24/01	11:05	grand	2 Amber jars	X	ST W	_
		10	12.55	£ v	11	X	Starked 10. day To	-
SMW-Z SMW.3		r <sub>e</sub>	14:50	٠,		V		$\dashv$
SMW-4		4.	17.00	11		X		$\dashv$
4		,la						$\dashv$
								-
				***************************************	The.			
/ Received	E On ice			***************************************		-		
Cold 17	mbient Pir	tact		Prese	vation Correct?			
Special Instructions:			l			Patricia de Caractería de Cara		-
	The state of the s		=		1			-
Relinquished by: (Signature)	l b		7216		Date / 5/25/01	Time \$:00	Received by: (Signature)	1
telinquished by: (Signature)					Date	Time	Received by: (Signature)	-
Relinquished by: (Signature)					Date	Time	Received by: (Signature)	-
<u> </u>								



Total Extractable Hydrocarbons Simeon. 64th street prop. 152229 Location: Lab #: EPA 3520 Erler & Kalinowski, Inc. Prep: Client: EPA 8015M Analysis: 990016.04 Project#: 05/24/01 05/25/01 Sampled: Water Matrix: ug/L 1.000 Received: Units: 06/05/01 Prepared: Diln Fac: Analyzed: 06/07/01 Batch#: 64099

Field ID:

SMW-1

Type:

SAMPLE

Lab ID:

152229-001

Cleanup Method: EPA 3630C

Result RL Analyte Diesel C10-C24 50 MD

Surrogate %RBC Limits

Hexacosane

96

44-121

Field ID:

SMW-2

Lab ID:

152229-002

SAMPLE Type:

Cleanup Method: EPA 3630C

Result RL Analyte 50

Diesel C10-C24

Surrogate %REC Limits 44-121 Hexacosane

Field ID: Type:

SMW-3

SAMPLE

Lab ID:

152229-003

Cleanup Method: EPA 3630C

Result RL Analyte Diesel C10-C24 74 L Y 50

Surrogate Hexacosane

Limits

111 44-121

Field ID:

Type:

SMW-4

SAMPLE

Lab ID:

152229-004

Cleanup Method: EPA 3630C

Analyte Result RL50

Diesel C10-C24

300 L Y

%REC Limits Surrogate 108 44-121 Hexacosane

Type:

BLANK

Cleanup Method: EPA 3630C

Lab ID:

QC147183

Result

Analyte Diesel C10-C24

RL 50

%REC Limits Surrogate

Hexacosane

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits fuel pattern which does not resemble standard ND= Not Detected

RL= Reporting Limit Page 1 of 1

#### Chromatogram

Sample Name : 152229-003sg,64099

: G:\GC11\CHA\158A021.RAW FileName Method : ATEH145.MTH

Start Time : 0.01 min

End Time : 31.91 min Plot Offset: 40 mV

Sample #: 64099

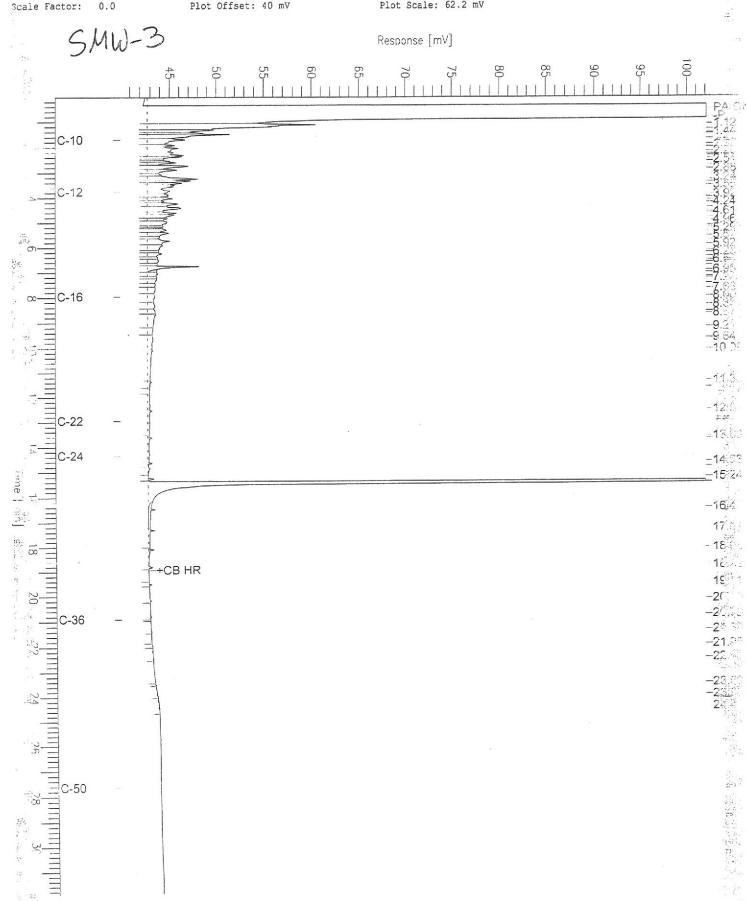
Page 1 of 1

Date: 6/8/01 08:12 AM

Time of Injection: 6/7/01 10:10 PM Low Point : 40.00 mV

High Point: 102.16 mV

Plot Scale: 62.2 mV



#### Chromatogram

Sample Name : 152229-004sg,64099

: G:\GC11\CHA\158A022.RAW FileName

Method : ATEH145.MTH Scart Time : 0.01 min Scale Factor: 0.0

End Time : 31.91 min

Plot Offset: 39 mV

Sample #: 64099

Date: 6/8/01 08:12 AM

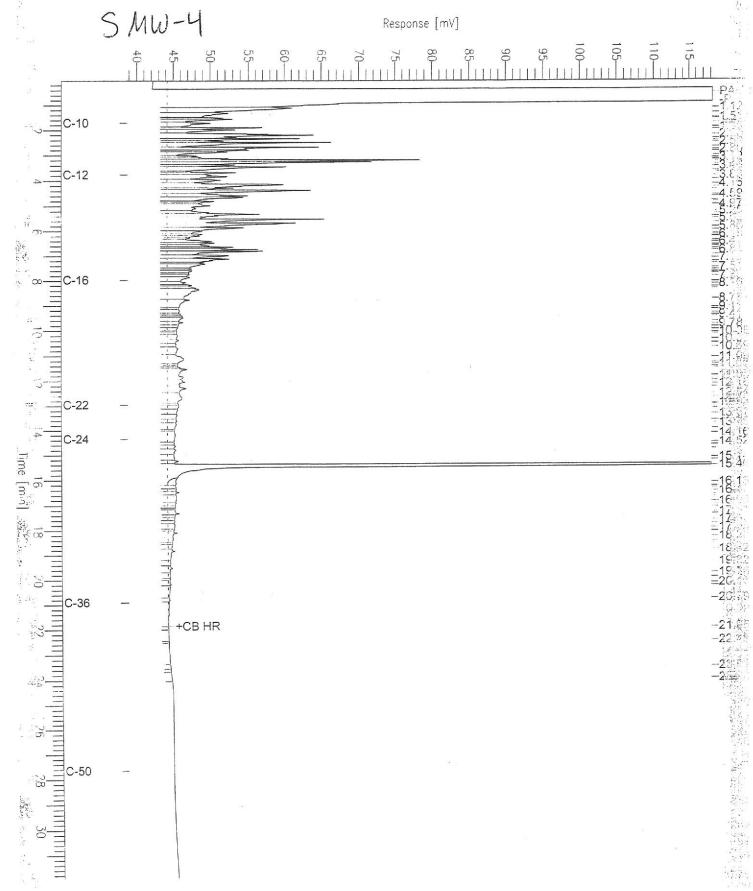
Time of Injection: 6/7/01 10:50 PM

High Point : 118.22 mV Low Point: 38.79 mV

Page 1 of 1

Plot Scale: 79.4 mV





#### Chromatogram

sample Name : ccv, 01ws0904, dsl

ileName : G:\GC13\CHB\157B002.RAW

fethod : BTEH151.MTH
Start Time : 0.01 min

0.01 min End Time : 31.91 min 0.0 Plot Offset: 27 mV Sample #: 500mg/L

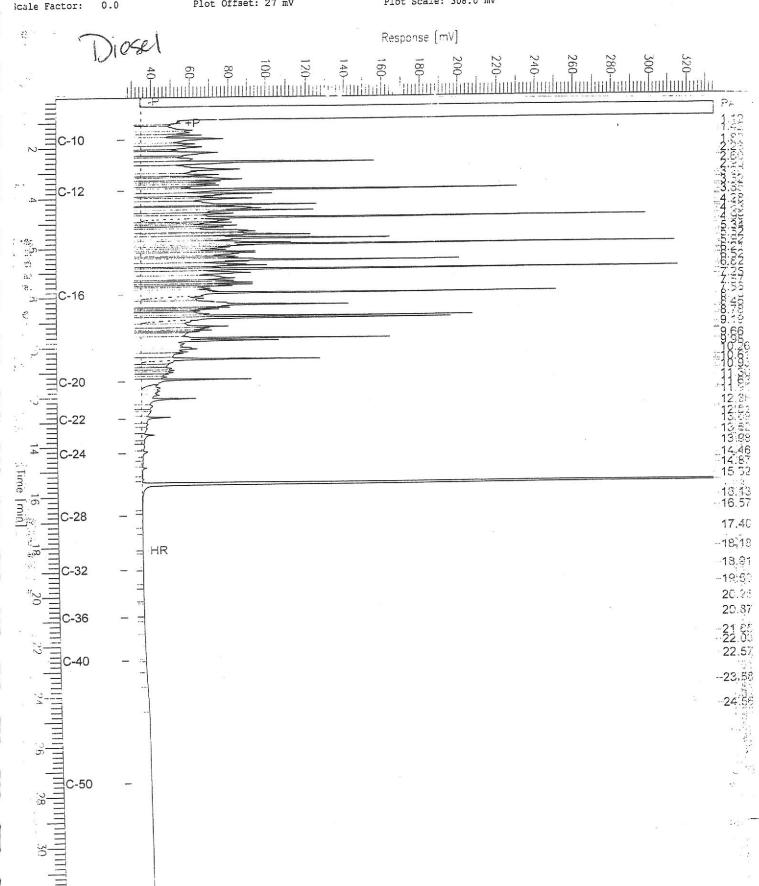
Page 1 of 1

Date : 06/06/2001 04:30 PM

Time of Injection: 06/06/2001 02:37 PM

Low Poir: : 26.53 mV High Point : 334.53 mV

Plot Scale: 308.0 mV





	Total Extracta	able Hydrocarbo	ns
Lab #:	152229	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC147184	Batch#:	64099
Matrix:	Water	Prepared:	06/05/01
Units:	ug/L	Analyzed:	06/07/01

Cleanup Method: EPA 3630C

Analyte	Spiked	Result		] Limits
Diesel C10-C24	2,500	1,527	61	45-110

Surrogate	%REC	Limits	
Hexacosane	65	44-121	



	Total Extract	table Hydrocar	bons
Lab #:	152229	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Field ID:	ZZZZZZZZZZ	Batch#:	64099
MSS Lab ID:	152181-001	Sampled:	05/23/01
Matrix:	Water	Received:	05/23/01
Units:	ug/L	Prepared:	06/05/01
Diln Fac:	1.000	Analyzed:	06/07/01

Type:

MS

Cleanup Method: EPA 3630C

Lab ID:

QC147185

Analyte	MSS Result	Spiked	Result	%RI	C Limits
Diesel Cl0-C24	<32.00	2,500	1,998	80	38-122

Surrogate	%REC	: Limits	
Hexacosane	81	44-121	

Type:

MSD

Cleanup Method: EPA 3630C

Lab ID: QC147186

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,894	76	38-122	5	28

Surrogate	%REC	Limits		
Hexacosane	77	44-121		