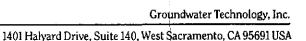




1401 Halyard Drive, Suite 140, West Sacramento, CA 95691 USA Tel: (916) 372-4700 Fax: (916) 372-8781

TO: Mr. Don Ri	ingsby	DATE:	01/19/96 JOB NO. 02070-00205
	erminals, Inc.	FROM:	Jaff Auchterlonie
P.O. Box 7		RE:	Ringsby Terminals- Port of Oakland
3980 Quel	bec Street, Suite 214	**	2225 7th Street
Denver, Co	O 80207		Oakland, California
(303) 320-			
We are se		X	MAIL FAX
ORIGINALS	COPIES DATE		DESCRIPTION
1		5 Groundy	vater Monitoring and Sampling Report
Transmitte	d as checked:		
X	For Approval For Your Use	X_	As You Requested
<u> </u>	For Comment For Resubmitt	tal X	For Your Records
<u></u>			
Remarks: F	Please review the attached report. With y	our approv	val, copies of this Quarterly Monitoring and Sampling
F	Report will be mailed as noted below. If y	ou have a	ny comments or questions, please call.
			Sof Contins
			11
Copies to:			
•	ds. Jennifer Eberle, Hazardous Materials	Specialist	(510) 567-6761
<i>F</i>	Alameda County Department of Environm	ental Hea	lth FAX (510) 337-9335
1	131 Harbor Bay Parkway, #250		
F	Alameda, California 94502-6577		
	/r. Dan Schoenholz		(510) 272-1220
E	Environmental Scientist		FAX (510) 465-3755
F	Port of Oakland		
5	30 Water Street		
	Dakland, California 94607	. <u> </u>	
		<del></del>	
Trns10.wk4			



Tel: (916) 372-4700 Fax: (916) 372-8781



January 19, 1995 🖟

Mr. Don Ringsby Ringsby Terminals, Inc. 3980 Quebec Street, Suite 214 Denver, CO 80207

Subject:

Fourth Quarter 1995 Groundwater Monitoring and Sampling Report

Ringsby Terminals, Port of Oakland

2225 7th Street

Oakland, California 94607 GTI Project 02070 0205

Dear Mr. Ringsby:

This letter summarizes the groundwater monitoring and sampling work performed by Groundwater Technology Inc. at the subject site (Attachment 1, Figures 1 and 2). On December 27, 1995, Groundwater Technology personnel monitored the depth to groundwater in three groundwater monitoring wells, MW-1, MW-2, and MW-3, located on the property leased by Ringsby Terminals, Inc. and also collected water samples from the three wells to determine the distribution of dissolved hydrocarbons in the groundwater. The work was performed at the request of Ms. Jennifer Eberle of the Alameda County Health Care Services, Department of Environmental Health (ACHC).

The groundwater monitoring information and results of analyses of groundwater samples collected since January 1993, are summarized in Table 1 (Attachment 2). The analytical data and chain-of-custody for the December 27, 1995 sampling event are included in Attachment 3. The groundwater monitoring and sampling field notes for December 27, 1995, are included in Attachment 4. The monitoring wells, MW-1, MW-2, and MW-3, are located on the Ringsby Terminal lease, and the three wells, MW-1\*, MW-2\*, and MW-3\*, are located north of the Ringsby Terminal lease on the Port of Oakland property (Attachment 1, Figure 2).

#### **Groundwater Monitoring**

On December 27, 1995, Groundwater Technology personnel monitored the depth to groundwater and checked for presence of any separate-phase liquid hydrocarbons (SP) in monitoring wells MW-1, MW-2, and MW-3 (Attachment 2, Table 1). Due to a change of consultant's schedule, the Port of Oakland wells were not monitored on December 27, 1995, and no data are included for these wells in Table 1. Depth to water was measured using an ORS Environmental Equipment INTERFACE PROBE Well Monitoring System, consisting of a dual optical sensor and electrical conductivity probe, that distinguishes between water and SP hydrocarbons. The probe was cleaned prior to gauging each well to avoid cross-contamination of the groundwater. To diminish the effects of fluctuations in the

Rngsbyq4,95(DG1-1)

groundwater table due to tides, the depth to groundwater was measured in the three wells within a one-hour time period. All measurements were made from the top of casing in each well. No SP hydrocarbons were noted in the three Ringsby Terminals groundwater monitoring wells.

#### **Groundwater Gradient and Flow Direction**

From November 20 to December 27, 1995, the groundwater elevations increased in all three wells: 0.42 feet in MW-1, 0.11 feet in MW-2, and 0.31 feet in MW-3 (Attachment 2, Table 1). The calculated groundwater gradient on December 27, 1995, was North 20 degrees West at 0.001 foot per foot (Attachment 1, Figure 3).

Since January 15, 1993, no separate phase hydrocarbons have been measured in the three wells. As stated in previous reports, there is an abrupt change in the lithology and drop in groundwater elevations, (2 feet), between the Ringsby Terminal Lease and the Port of Oakland property located to the North; it appears that an east-west oriented hydrologic barrier exists between the two properties. The lateral extent and continuity of the hydrologic barrier between the two properties is not known. Given the history of land reclamation via dredging and backfilling the tidal mud flats, and construction of roadways for pier access, linear barriers to shallow groundwater flow are expected.

### **Groundwater Sampling**

Following groundwater monitoring, Groundwater Technology personnel sampled the groundwater in the three Ringsby Terminals monitoring wells to determine the distribution of dissolved hydrocarbons in the groundwater. Prior to water-sample collection, the three wells were purged of at least 4 well volumes of water and allowed to recharge with representative formation water. Temperature, conductivity, and pH measurements of the purged water were recorded. Due to an obstruction in its screened section, well MW-3 was only purged to a depth of 9.6 feet below the casing top. A disposable Teflon bailer was used for the groundwater sampling. One distilled-water field blank was collected for quality control purposes. Each water sample was then transferred to two 40-milliliter glass vials with Teflon-septum caps and two 1-liter amber glass bottles, preserved on ice, and transported to a California state-certified laboratory, accompanied by a chain-of-custody manifest. The three samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons-as-gasoline (TPH-G), total petroleum hydrocarbons-as-diesel (TPH-D), and total petroleum hydrocarbons-as-motor oil (TPH-O) by EPA methods 8020/modified 8015.

### WASTEWATER

A total of 56 gallons of water was purged from the monitoring wells and stored in two 55-gallon drums labeled "Ringsby, non-hazardous well purge water, 12/27/95". Two drums of purged groundwater are new stored on site.



### **GROUNDWATER ANALYTICAL RESULTS**

The TPH-G concentrations of 220 micrograms per liter ( $\mu g I$ ) in MW-2 and 55 $\mu g I$  in MW-3, reported by WEST laboratory, have gas chromatogram (GC) patterns that are not characteristic of gasoline. No concentrations of BTEX, TPH-D, or TPH-O were detected in any of the analyzed groundwater samples (Attachment 3).

The recent and historical analytical results are summarized in Table 1. Copies of the laboratory reports and chain-of-custody for the groundwater samples are included in Attachment 3, and the field notes are included in Attachment 4.

Please contact Groundwater Technology's West Sacramento office if you have questions or comments regarding this quarterly report.

Sincerely,

Groundwater Technology, Inc.

Submitted by:

Jaffrey S. Auchterlonie

Lead Geologist Project Manager

Attachments

1. Figures

2. Tables

3. Laboratory Reports

4. Groundwater Monitoring and Sampling Field Notes, December 27, 1995

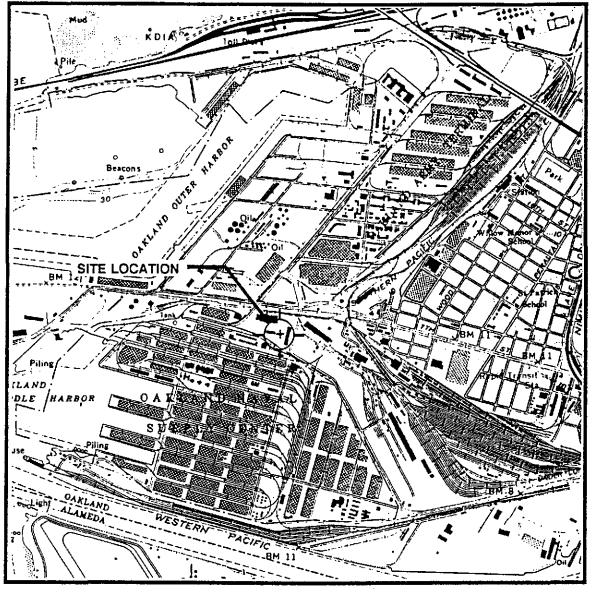
Groundwater Technology, inc.

Approved by:

Ed K. Simonis, R.G Senior Geologist

No. 4422



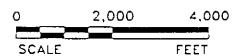


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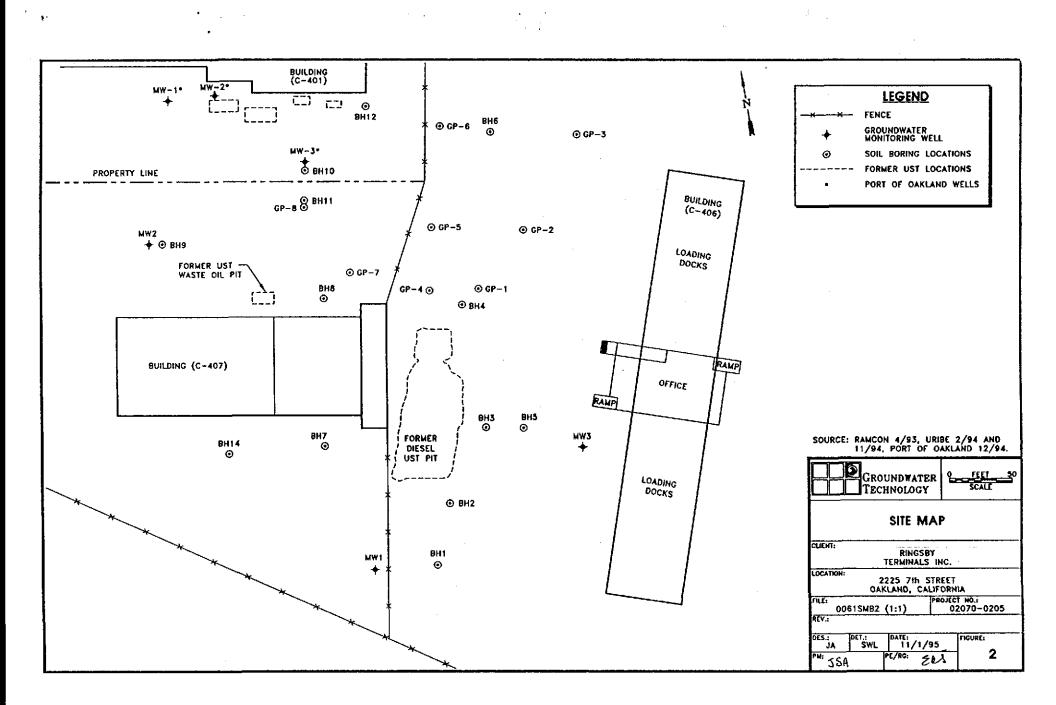
SOURCE: U.S.G.S. TOPOGRAPHIC QUADRANGLE OAKLAND WEST 7.5 MINUTE SERIES 1959/PHOTOREVISED 1980



SCALE 1:24,000



GROUNDWATER TECHNOLOGY		SITE	LOCATION	MAP	
CLIENT: RINGSBY TERMINALS INC.	FILE: 0061	-SL (1:1)			PE/RG.
	REV.				7
LOCATION: 2225 7th STREET	DES. I	DET. DATE:		FIGURE:	1
OAKLAND, CA.	JΑ	SP	4-4-95		1



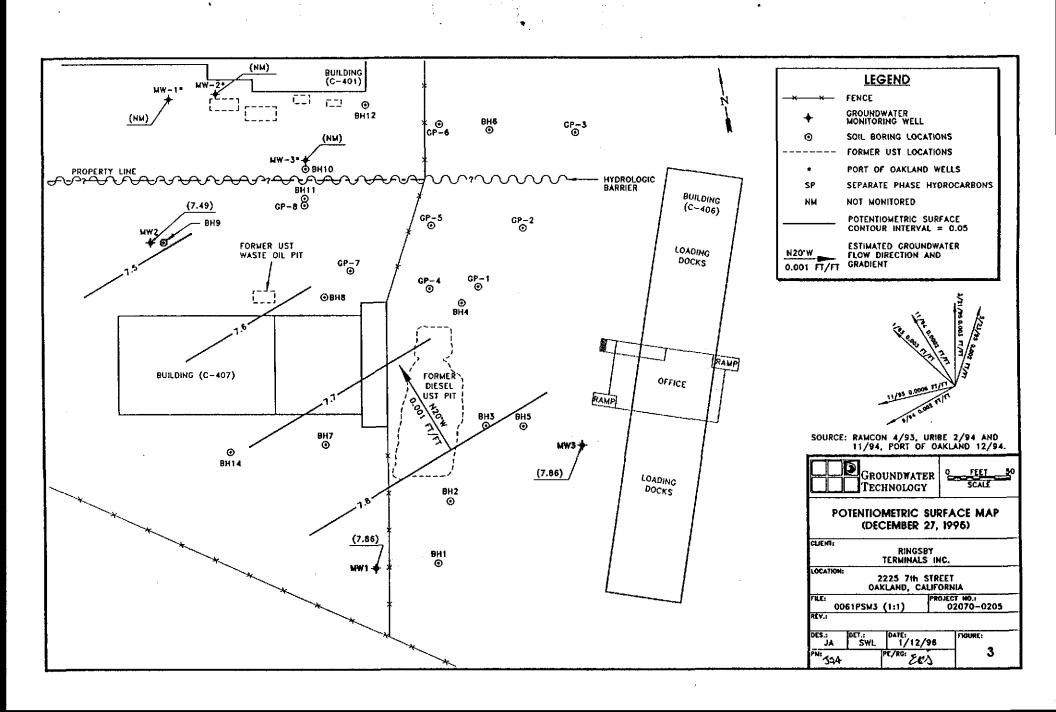


Table 1
GROUNDWATER MONITORING AND ANALYTICAL DATA, 1993, 1994, and 1995
Concentrations in parts per billion (ppb), or micrograms per liter (µg/l)

### Ringsby Terminals, Inc.-Port of Oakland 2225 7th Street, Oakland, California

WELL ID/ ELEVATION	DATE	BENZENE	TOLUENE	ETHYL-	XYLENES	TPH-G	TPH-D	ТРН-О	DTW	SPT	GWE
(TOC:feet)				BENZENE					(feet)	(feet)	(feet)
MW-1	01/15/93	< 0.3	< 0.3	< 0.3	< 0.3	< 50 ~	< 50		5.21	0.00	8.51
13.72	09/12/94	0.5	< 0.3	< 0.3	< 0.3	< 10 c	10,000		6.37	0.00	7.35
<u> </u>	11/30/94	< 0.3	< 0.3	< 0.3	< 0.3	< 10	2,800	——	5.76	0.00	7.96
	03/29/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50	3 3 3 3 3 5 4 - 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4.57	0.00	9.15
	05/25/95				prodicina in arianismo e e e e e e e e e e e e e e e e e e e	eri in servicia vene user neurona a ineci. Velice			5.14	0.00	8.58
	06/21/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50 d ∷	50000000000000000000000000000000000000	5.41	0.00	8.31
	06/23/95								5.44	0.00	8.28
	09/28/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50		6.9 +	0.00	13.72
	11/20/95								6.28	0.00	7.44
	12/27/95	< 0.30	< 0.30	< 0.30	< 0.50	< 50	< 50	< 100	5.86	0.00	7.86
MW-2	01/15/93	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50		6.21	0.00	7.59
13.80	09/12/94	0.5	< 0.3	< 0.3	< 0.3	34 C	< 50		6.47	0.00	7.33
1	11/30/94	0.9	< 0.3	< 0.3	< 0.3	< 10	81		6.34	0.00	7.46
	03/29/95	0.3	< 0.3	< 0.3	< 0.3	< 50 b	75		5.51	0.00	8.29
	05/25/95								5.60	0.00	8.20
	06/21/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50 b	< 50		5.72	0.00	80.8
	06/23/95			, <del></del>					5.72	0.00	8.08
	09/28/95	< 0.3	< 0.3	< 0.3	< 0.3	250 c	< 50 ○		6.15	0.00	7.65
	11/20/95								6.42	0.00	7.38
	12/27/95	< 0.30	< 0.30	< 0.30	< 0.50	220 C	< 50	< 100	6.31	0.00	7.49
MW-3	01/15/93	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50		6.44	0.00	8.62
15.06	09/12/94	0.3	< 0.3	< 0.3	< 0.3	< 50	< 50 ○		7.35	0.00	7.71
	11/30/94	< 0.3	< 0.3	< 0.3	< 0.3	110	150		7.12	0.00	7.94
	03/29/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50	< 50		6.31	0.00	8.75
	05/25/95	<u>→</u>	_						6.75	0.00	8.31
	06/21/95	< 0.3	< 0.3	< 0.3	< 0.3	< 50 b	< 50 d		6.87	0.00	8.19
	06/23/95						<u> </u>	l —	6,88	0.00	8.18
1	09/28/95	< 0.3	< 0.3	< 0.3	< 0.3	51 c	< 50	· · · · · · · · · · · · · · · · · · ·	7.28	0.00	7.78
	11/20/95								7.51	0.00	7.55
	12/27/95	< 0.30	< 0.30	< 0.30	< 0.50	85 C	< 50	< 100	7.20	0.00	7.86

Page 1 of 2



### Table 1

# GROUNDWATER MONITORING AND ANALYTICAL DATA, 1993, 1994, and 1995 Concentrations in parts per billion (ppb), or micrograms per liter (µg/l)

# Ringsby Terminals, Inc.- Port of Oakland 2225 7th Street, Oakland, California

WELL ID/				1 - Priorsologic vis 1 - Priorsologic vis							
ELEVATION	DATE	BENZENE	TOLUENE	ETHYL-	XYLENES	TPH-G	TPH-D	TPH-O	DTW	SPT	GWE
(TOC:feet)	<u> </u>		4 8 :	BENZENE					(feet)	(feet)	(feet)
MW-1*	11/30/94		<b>–</b>	-		***			9.51	0.91	5.43
14.14	03/29/95	-		<b></b> }:::}		-			7.67	0.17	6.62
	05/23/95	<b>–</b>		-		_	- Contract of the second contract of the seco		8.68	0.17	5,61
	06/23/95	_					<u> </u>		9.60	1.40	5.77
	09/28/95	***				<del></del>			9.85	1,11	5,26
MW-2*	11/30/94	-							8.91	0.00	5.45
14,36	03/29/95	_		••••			************		7.47	0.00	6.89
	05/23/95		i			<del></del>			- 20 10 200 200 40 1 1 4 00 00 10 00 10 10 10 10 10 10 10 10 10	Participation in the management of the second secon	Enternophises as a substant total trade
	06/23/95		1 1 1 1 1				::::::::::::::::::::::::::::::::::::::	10 00 00 00 <u>20 1</u> 0000 01	8.62	0.00	5.74
	09/28/95		l						9.17	0.00	5.19
MW-3*	11/30/94								13.07	5.21	5.71
14.22	03/29/95		(				### <b>#</b> 4	t	9.59	2.93	7.19
	05/23/95	_				is and the control of			11.09	6.46	8.78
	06/23/95		-				30 200 (200 100)		12.21	6.09	7.34
	09/28/95		<u> </u>						13,60	5.60	5.52

Page 2 of 2

Well # MW-1 MW-2 MW-3 MW-1*	13.72 13.80 15.06	Grade_  	Property/well Owner Ringsby Terminals, Inc. Ringsby Terminals, Inc.
MW-2 MW-3	13.80		Ringsby Terminals, Inc.
MW-3			• •
	15.06		
MW-1*			Ringsby Terminals, Inc.
	14.14		Port of Oakland
MW-2*	14.36		Port of Oakland
MW-3*	14.22		Port of Oakland
calculate Wells su	d assum rveyed to	ing a spe Port of	ecific gravity of (0.875) Oakland Datum
	MW-2* MW-3* GWE for calculate Wells su	MW-2* 14.36 MW-3* 14.22 GWE for wells we calculated assum Wells surveyed to	MW-2* 14.36

0205Tab1.wk4

Table updated 1/15/95





January 5, 1996 Sample Log 13678

Jaff Auchterlonie Groundwater Technology Inc. 1401 Halyard Dr., Suite 140 West Sacramento, CA 95691

Subject: Analytical Results for 4 Water Samples

Identified as: Ringsby Terminal (Proj. # 020700205.030504)

Received: 12/28/95

Purchase Order: 006-1601

Dear Mr. Auchterlonie:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on January 5, 1996 and describes procedures used to analyze the samples.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/5030)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel, Motor Oil, Jet/Kerosene" (Mod. 8015/Extraction)

Please refer to the following table(s) for summarized analytical results and contact us at 916-753-9500 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Stewart Podolsky Senior Chemist

RECEIVED
JAN 17 1995

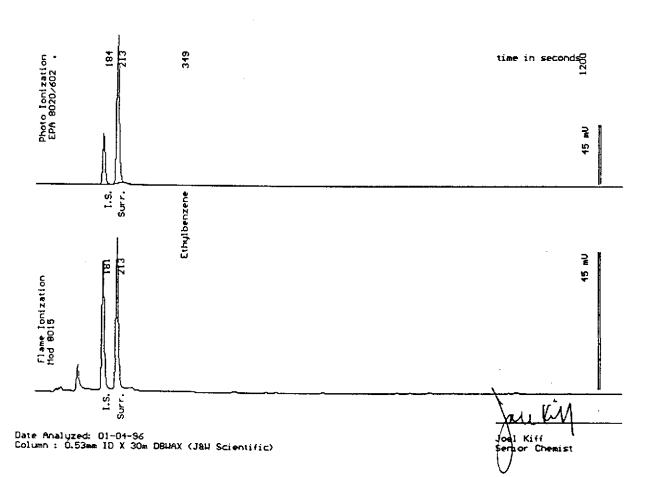


Sample Log 13678 13678-01

Sample: Trip blank

From : Ringsby Terminal (Proj. # 020700205.030504)
Sampled : 12/27/95
Dilution : 1:1 QC Batch : 4140R

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	(.30) (.30) (.30) (.50) (50)	<.30 <.30 <.30 <.50 <50
Surrogate Recovery		103 %





Sample Log 13678

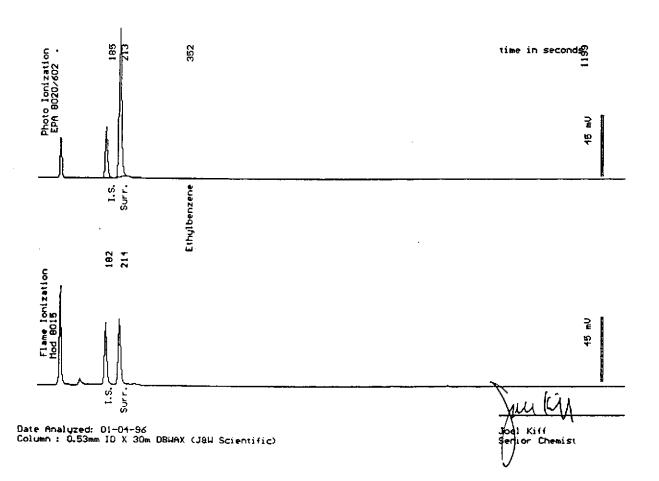
Sample: MW-3

From : Ringsby Terminal (Proj. # 020700205.030504)

Sampled: 12/27/95

Dilution: 1:1 QC Batch: 4140R

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	(.30) (.30) (.30) (.50) (50)	<.30 <.30 <.30 <.50 55 *
Surrogate Recovery * Product is not ty	104 %	





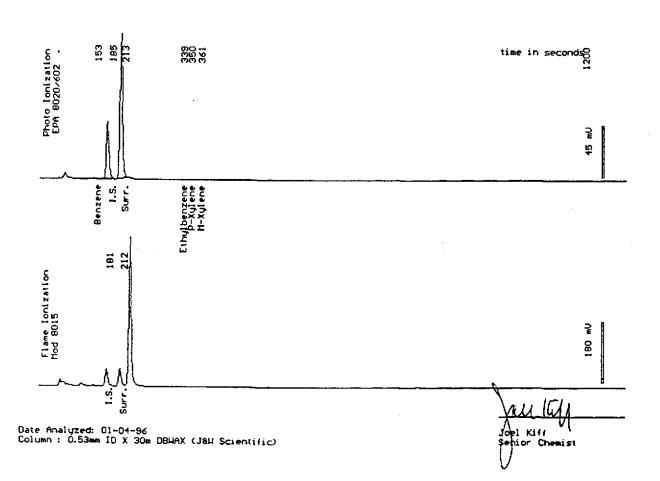
Sample Log 13678 13678-03

Sample: MW-2

From : Ringsby Terminal (Proj. # 020700205.030504)

Sampled : 12/27/95 Dilution : 1:1 QC Batch : 4140R

Parameter	(MRL) ug/L	Measured Value ug/L		
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	(.30) (.30) (.30) (.50) (50)	<.30 <.30 <.30 <.50 220 *		
Surrogate Recovery * Product is not t		77 %		





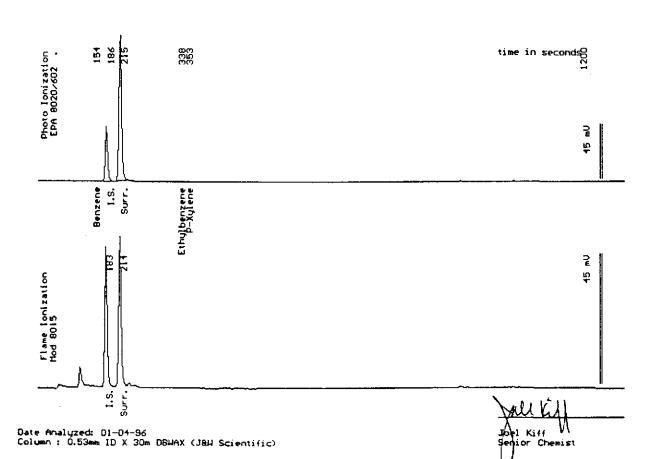
Sample Log 13678 13678-04

Sample: MW-1

From : Ringsby Terminal (Proj. # 020700205.030504)

Sampled: 12/27/95 Dilution: 1:1 QC Batch : 4140R

Parameter	(MRL) ug/t	Measured Value wg/L
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	(.30) (.30) (.30) (.50) (50)	<.30 <.30 <.30 <.50 <50
Surrogate Recovery	,	98 %





January 4, 1996 Sample Log 13678

QC Report for EPA 602 & Modified EPA 8015

From: Ringsby Terminal (Proj. # 020700205.030504)
Sample(s) Received: 12/28/95

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	79	80	1
Ethylbenzene	77	78	1
TPH as Gasoline	88	89	1

<sup>\*</sup> RPD = Relative Percent Difference

Parameter	Method Blan			
Benzene	<0.30 ug/L			
Toluene	<0.30 ug/L			
Ethylbenzene	<0.30 ug/L			
Total Xylenes	<0.50 ug/L			
TPH as Gasoline	<50 ug/L			



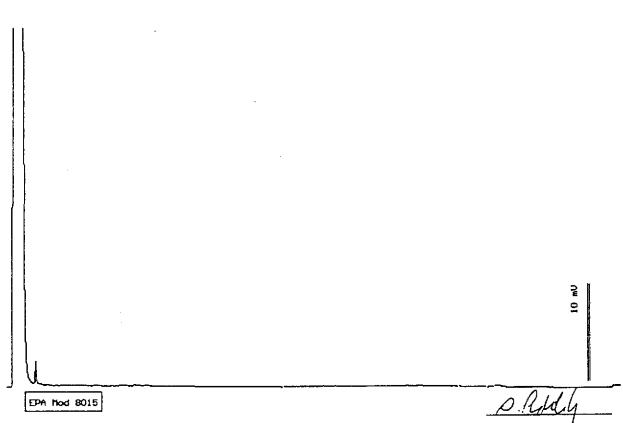
Sample Log 13678 13678-02

Sample: MW-3

From : Ringsby Terminal (Proj. # 020700205.030504)
Sampled : 12/27/95
Extracted: 01/02/96 QC Batch : DW960101 Dilution: 1:1 Run Log: 8315E

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel TPH as Motor Oil	(50) (100)	<50 <100



Date: 01-04-96 Time: 07:47:51 Column: 0.53mm ID X 15m DB1 (JBW Scientific) Stewart Podolsky Senior Chemist

MEST LAVBORATIOS Y

Sample Log 13678

Sample: MW-2

From : Ringsby Terminal (Proj. # 020700205.030504)

Sampled : 12/27/95

Extracted: 01/02/96 QC Batch: DW960101 Dilution: 1:1 Run Log: 8316A

Matrix : Water

Parameter	(MRL) ug/L	Measured Value
TPH as Diesel TPH as Motor Oil	(50) (100)	<50 <100

EPA nod 8015

Date: 01-04-96 Time: 10:10:35 Column: 0.53mm ID X 15m DB1 (J&W Scientific)

Steuart Podolsky Senior Chemist

10 ₪

WEST LABORATION

Sample Log 13678

Sample: MW-1

From : Ringsby Terminal (Proj. # 020700205.030504)

Sampled : 12/27/95

Extracted: 01/02/96 QC Batch: DW960101 Dilution: 1:1 Run Log: 8316A

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel TPH as Motor Oil	(50) (100)	<50 <100

EPA Hod 8015

Date: D1-D4-96 Time: 10:45:04 Column: 0.53mm ID X 15m DB1 (JB4 Scientific) Stewart Podolsky Senior Chemist



January 5, 1995 Sample Log 13678

QC Report

TPH Diesel/Motor Oil by 8015 Mod

From : Ringsby Terminal (Project # 020700205.030504)

QC Batch DW960101

Matrix: Water

Spike and Spike Duplicate Results

Parameter	Matrix	Matrix	RPD
	Spike (%Rec)	Spike Dup. (%Rec)	%
TPH as Diesel	Not enough sa See duplicate	ample for spiking. E LCS Data.	

### Laboratory Control Spike

	Labora	RPD	
Parameter	Spike (%Rec)	Spike Dup. (%Rec)	*
TPH as Diesel	98	89	10

### Method Blank

Parameter	MDL(ug/L)	Measured Value(ug/L)
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100

Stewart Podolsky Senior Chemist

1	[E5]
Wester	n Environmental

1046 Olive Drive, Suite 3 Davis, CA 95616 916-753-9500 FAX#: 916-753-6091 LAR#: 916-757-4650

### CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Science & Technolog	ra: Iy	2	0, 0		~		Ĺ	AB#:	916-7	57-4	650	İ																							·
Project Manager:	×11-150	· Kau			Ph	one	6910	ج (رء	916.7 72-	47	00	22				AN	AL'	YSI	IS F	₹EÇ	UE	ST	,	•									Ţ.	TAT	-
Company/Addre	<u> </u>	~!(Y]]F.			F/	\X #;				-		$\dashv$	_	$\top$	T	1			T	T	Τ	1			1	W.	E. I.	r)	<b>_</b>		Т	П	╁	11	
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Project Number:	1-7746 - 2	P.O.#:	<u> </u>	/ <u>1 - 1</u> -	Pi	oject	Nam					$\dashv$		Gasoline (602/8020/8015)		O.									<u>&gt;</u>	+	+	╁	-				E	5	
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# Attachment 4 Monitoring and Sampling Field Notes

### WORK REQUEST FORM

SITE ADDRESS: 2225 7th Street Oakland, California DATE PREPARED: 09/19/95  PREPARED FOR: Field Services PREPARED BY: Jaff Auchterlonie.  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  WORK: DESCRIPTION: MONITOR AND SAMPLE THREE MONITORING WELLS: 12/24/24  MONITOR GROUNDWATER DEPTH IN THREE WELLS  1) Due to tidal influences at the site it is important to measure the groundwater hand, and June; Description: 12/24  MONITOR GROUNDWATER DEPTH IN THREE WELLS.  1) Due to tidal influences at the site it is important to measure the groundwater depth in the in the three wells in each well and allow groundwater to stabilize. Measure the depth to groundwater in each well, taking no more than 15 minutes to monitor the depth to groundwater in each well. Approximately 25 gallons per well  2) Weasure & record water volume, pH, conductivity, and temperature of the purged groundwater. 3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan. Label drums as purged groundwater, Ringsby Terminats(GT, and date.  4) Collect (three) 40-mil VOAs and (two) filter Amber bottles from each well. Place on ice. 5) OA-QC SAMPLES=1-trip blank and 1-field bank water samples into ftwo) 40-mil VOA's Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well Sample Order: firsts MW-3, second= MW-2, and third= MW-1 Well SAMPLES WELLS AND AND AND AND AND AND AND AND AND AND		JOB NAME:	Ringsby Terminals	JOB NUMBER:	02070-0205-030504
Oakland, California  DATE PREPARED:09/19/95  PREPARED FOR: Field Services  PREPARED BY: Jaff Auchterionie  WORK/DESCRIPTION: Heaving Monitor and Sample, Three Monitorino Wells Scope of Work: Monitor and Sample 3-15 foot deep GROUNDMATER WELLS for four quarters Projected work dates, the 4th week of; (September, December, March, and June).  Deep to water ranges from 4 to 7 feet BGS  MONITOR GROUNDWATER DEPTH IN THREE WELLS  1) Due to disal influences at the site it is important to measure the groundwater depth in the in the three wells in a reasonably short time frame.  2) If present, note name of Port of Oakland (Alisto Eng.) Field Tech Monitoring off-site wells  3) Break the sanitary seal in each well and allow groundwater to stabilize.  Measure the depth to groundwater in each well, taking no more than 15 minutes to monitor the depths in plant there wells. Measure all depths from ToC  PURGE & COLLECT WATER SAMPLES FROM THE THREE WELLS. MW-2, MW-3  1) USING HAND BAILER Purge four well volumes from each well Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater. Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater. Label drums as purged groundwater, Ringsby Terminats/GTI, and date.  4) Collect (three) 40-mil VoAs and (two) 1-tiler Amber bottles from each well. Place on ice.  5) Q-AOC SAMPLES-1 - trip blant and 1- field bank water samples into (two) 40-mil VOA's Well Sample Order: first= MW-3, seconde MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY. WEST Quote #2123  Fill out COC and request BTEX. TPH-G, and TPH-D on a now week TAT, transport on ice.  WEST Lab will pick-up samples in CTI Concord Office. Tell Krissi to call WEST  WEST Lab Conlact; Joek Kiff, (1916) 757-4650 FAX 753-6697  CALL Jaff Auchterionie (916) 372-4700 from the field with quick report site work completed.  Bailers to purge water from 4* wells and three disposable bailer NO PU		SITE ADDRESS:	2225 7th Street	START DATE:	4th Week In Sept. Dec. March, & June
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3) Break the sanitary seal in each well and allow groundwater to stabilize.  Measure the depth to groundwater in each well, taking no more than 15 minutes to monitor the depths in all three wells. Measure all depths from TOC  PURGE & COLLECT WATER SAMPLES FROM THE THREE WELLS, MW-1, MW-2, MW-3  1) USING HAND BAILER Purge four well volumes from each well Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan. Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES-1-tip blank and 1-field bank water samples into (two) 40-ml VOA's Well Sample Order: first- MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123 Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice. WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterlonie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED: Heath & Safety Site Plan 9/16* sockets Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailer Bailers to purge water from 4* wells and three disposable baile NO PUMPS  GENERAL INFORMATION Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987 Off-Site Contact: Sealand Todd Burson (510) 272-5214 Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  **VERYS** PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  **WEST MANAGER, Jaff Auchterlonie AUTHORIZATION  **WEST MANAGER, Jaff Auchterlonie AUTHORIZATION		in the th	ree wells in a reasonably sh	nort time trame.	Tech Manitaring off site walls
Measure the depth to groundwater in each well, taking no more than 15 minutes to monitor the depths in all three wells. Measure all depths from TOC  PURGE & COLLECT WATER SAMPLES FROM THE THREE WELLS, MW-1, MW-2, MW-3  1) USING HAND BAILER Purge four well volumes from each well Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan. Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES= 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order; firsts MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-G, and TPH-D on a one week's TAT, transport on ice. WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterionie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Health & Safety Site Plan 9/16* sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailer Bailers to purge water from 4* wells and three disposable baile NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Airsto Engineering Brady Nagle (510) 295-1650  **V 2 8/4 S**  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION		2) If preser	it, note name of Port of Oal	kiano (Alisto Eng.) Fielo	to etabilize
to monitor the depths in all three wells. Measure all depths from TOC  PURGE & COLLECT WATER SAMPLES FROM THE THREE WELLS, MW-1, MW-2, MW-3  1) USING HAND BAILER Purge four well volumes from each well  Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan.  Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES= 1-trip blank and 1-field bank water samples into (two) 40-ml VOA's well Sample Order: first MW-3, second= MW-2, and thirde MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-C, and TPH-D on a one week TAT, transport on ice.  WEST Lab Will pick-up samples in GTI concord Office. Tell Krissi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterionie (916) 372-4700 from the field with guick report site work completed.  EQUIPMENT NEEDED:  Health & Safery Site Plan 9/16' sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4' wells and three disposable baile NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  **Valy scale of the purged Bye.**  AUTHORIZATION  PROJECT MANAGER, Jaff Auchterlonie or Bruce Beale, (916) 372-4700					
PURGE & COLLECT WATER SAMPLES FROM THE THREE WELLS, MW-1, MW-2, MW-3  1) USING HAND BAILER  Purge four well volumes from each well  Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan.  Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES= 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order: first= MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY  WEST Quote #2123  Fill out COC and request BTEX, TPH-6, and TPH-D on a one week TAT, transport on ice.  WEST Lab will pick-up samples in GTI Concord Office. Tell Knssi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterionie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Heatth & Safety Site Plan 9/16' sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable ballet Bailers to purge water from 4' wells and three disposable bailet NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W. Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  **V 28/45**  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  AUTHORIZATION  File Congany Weren water water from 4' Well Represented By a service of the purge					
1) USING HAND BAILER Purge four well volumes from each well Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan. Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES= 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order: first= MW-3, second= MW-2, and third= MW-1 ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123 Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice. WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterionie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED: Health & Safety Site Plan 9/16' sockets Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailer bailers to purge water from 4" wells and three disposable baile NO PUMPS  GENERAL INFORMATION Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987 Off-Site Contact: Sealand Todd Burson (510) 272-5214 Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  **VEX.** AUTHORIZATION File Dentity August 1516 Auchterlonie Rady Nagle (510) 295-1650  **VEX.** AUTHORIZATION FILE DENTITY AUTHORIZATION FILE DENTITY AUGUST 1516 Auchterlonie Rady Nagle (510) 295-1650		TO MOUNT	or the depths in all three we	ells, Measure all depuis	Hom TOC
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Approximately 25 gallons per well  2) Measure & record water volume, pH, conductivity, and temperature of the purged groundwater.  3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan.  Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES= 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order: first= MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice.  WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterlonie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Health & Safety Site Plan 9/16* sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4* wells and three disposable baile/NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  **PROJECT MANAGER, Jaff Auchterlonie Authorities					
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3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan.  Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES = 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order: first= MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice.  WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST  WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterlonie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Health & Safety Site Plan 9/16' sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4' wells and three disposable baile NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Airsto Engineering Brady Nagle (510) 295-1650  V=8/45  PROJECT MANAGER, Jaff Auchterlonie  AUTHORIZATION  AUTHORIZATION			App	roximately 25 gallons pe	er well
3) Store water in one or two 55 gallon drums and place drums as shown on attached site plan.  Label drums as purged groundwater, Ringsby Terminals/GTI, and date.  4) Collect (three) 40-ml VOA's and (two) 1-liter Amber bottles from each well. Place on ice.  5) QA-QC SAMPLES = 1- trip blank and 1- field bank water samples into (two) 40-ml VOA's Well Sample Order: first= MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice.  WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST  WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterlonie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Health & Safety Site Plan 9/16' sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4' wells and three disposable baile NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Airsto Engineering Brady Nagle (510) 295-1650  V=8/45  PROJECT MANAGER, Jaff Auchterlonie  AUTHORIZATION  AUTHORIZATION	•	2) Measure	& record water volume, pi	I, conductivity, and temp	perature of the purged groundwater.
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Well Sample Order: first= MW-3, second= MW-2, and third= MW-1  ANALYZE WATER SAMPLES WITH WEST LABORATORY WEST Quote #2123  Fill out COC and request BTEX, TPH-G, and TPH-D on a one week TAT, transport on ice.  WEST Lab will pick-up samples in GTI Concord Office. Tell Krissi to call WEST  WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterlonie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED:  Health & Safety Site Plan 9/16* sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailet  Bailers to purge water from 4* wells and three disposable bailetNO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  Authorized By					
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WEST Lab Contact: Joel Kiff, (916) 757-4650 FAX 753-6091  CALL Jaff Auchterionie (916) 372-4700 from the field with quick report site work completed.  EQUIPMENT NEEDED: Health & Safety Site Plan 9/16" sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4" wells and three disposable baile NO PUMPS  GENERAL INFORMATION Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkRen1 wk4 (1997-1964) River AUTHORIZATION  File:DongaryWkRen1 wk4 (1997-1964) River AUTHORIZATION		Fill out C	OC and request BTEX, TP	H-G, and TPH-D on a o	ne week IAI, transport on ice.
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EQUIPMENT NEEDED: Health & Safety Site Plan 9/16" sockets  Two 55 gallon drums, Nine 40 ml VOAs, Six 1 liter amber bottles, one reusable and three disposable bailers to purge water from 4" wells and three disposable baile NO PUMPS  GENERAL INFORMATION Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DonoaryWkReq1 wk4 (5000000000000000000000000000000000000					
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Bailers to purge water from 4" wells and three disposable bails NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W.Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReq1 wk4 (50000000) By:		Health & Safety Site	Plan 9/16" sockets		
Bailers to purge water from 4" wells and three disposable bails NO PUMPS  GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W.Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReq1 wk4 (50000000) By:					eusable and three disposable bailer
GENERAL INFORMATION  Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReg1 wk4 (500/1000) RV					
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Direct all questions to Jaff Auchterlonie or Bruce Beale, (916) 372-4700  Site Contacts: N.W.Transport Monty or Dennis (510) 451-6987  Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReg1 wk4 (5.34/19/ect) Reg.					
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Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReg1 wk4 (500) 297-5214		Direct all questions t	o Jaff Auchterlonie or Bruc	e Beale, (916) 372-470(	0
Off-Site Contact: Sealand Todd Burson (510) 272-5214  Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION  File:DongaryWkReg1 wk4 (500) 297-5214					
Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Authterlonie AUTHORIZATION  file:DongaryWkReg1 wk4 (5.000000001 Rev.)		Site Contacts:	N.W Transport Mon	ty or Dennis (510) 45	51-6987
Port Consultant: Alisto Engineering Brady Nagle (510) 295-1650  PROJECT MANAGER, Jaff Authterlonie AUTHORIZATION  file:DongaryWkReg1 wk4 (5.000000001 Rev.)		Off-Site Contact:	Sealand Toda	d Burson (510) 27	2-5214
PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION Juntilian File:DongaryWkReg1 wk4 15 345 Upper 1897					
PROJECT MANAGER, Jaff Auchterlonie AUTHORIZATION Jaff Auchterlonie File:DongaryWkReg1 wk4 1539100001 By		. On Consonant.			
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ille:Dongary\WkReq1.wk4 110\VIC\V60 by:	C	PROJECT MANAGE	K, Jati Auchterlonie AUT	HOKIZATION	Jas min
	ille:Dongan	ywwkReq1.wk4 / ۲۵۱	чомео ву:		JAH

Rework Required

JAN # 5 1995

Project Name:	Ringsby Tem	nnais		Da		2						
Site Address: Project Number		Oakland 00205.030504				Jaff Aushterlonie						
Well ID:    DTW Measurements:   Initial: 5.86   Calc Well Volume: 5.9   gal   Recharge:   Well Volume: X4   24   gal   DTS: 14.95												
Purge Method Pump Depthft. Instruments Used   Peristaltic Hand Bailed												
Tirne	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments						
12:00	18.7	1,44	6.96	5	dowy							
12:03	18.9	1.40	692	10								
12 06	183	lileo	7.01	15								
12:09	186	1.65	7,02	20								
12:12	18.5	1.66	703	24								

Site Address: Project Number:		00205,030504			ngeo	Jaff Aushterionie
Well ID: Well Diameter:	1	t 7·7	 Initia Recl	V Measuremer al: (0:31 harge:	Calc Well ' Well Volum	Volume: <u>5 , 5 g</u> al ne:x4 <u>22 g</u> al
Sear Drive	Hand Air Lif	Depth Bailed <u>X</u> t			ts Used X	Other:
Time	Temp X C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
11:43	0,81	2.94	6.74	5	Cloudy	·
11:46	18.7	3.04	686	10		
11:49	18.6	3.39	6.96	15		
11:52	18.7	3.54	7.09	20		
11:55	is 9	354	7.00	27	V	
		· · · · · · · · · · · · · · · · · · ·				

Project Name: Site Address: Project Number	2225 7th St.	Oakland		Pa	.ge <u>3</u>	of 3  Jaff Aushterionie					
Well ID: Well Diameter:		w3 F	Initia Rec	DTW Measurements: Initial: 1:10 Calc Well Volume: 1.5 Recharge: Well Volume: 4 9:4 DTB: 9:6							
Peristaltic	Hand	Depth Bailed it		Hydac:	s Used (	_					
Time	Temp X. C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments					
11:12	7.7	1,79	Ce.64	2	clousy	SITY GREY					
11:15	18.1	1.92	8.26	4	GREY						
11,18	17.7	1.96	7,43	6							
11:20	17.8	1.99	7.46	8							
11/23	17.7	1,90	7.48	10	V						
	•					9					
					·						

### **GROUNDWATER GAUGING FORM**

JOB NAME: Ringsby Terminals-Port of Oakland

JOB NUMBER:

02070-0205-030504

IP#:

2225 7th Street, Oakland, CA.

DATE: 12 12/95

MEASURED TO TOC OR GRADE?

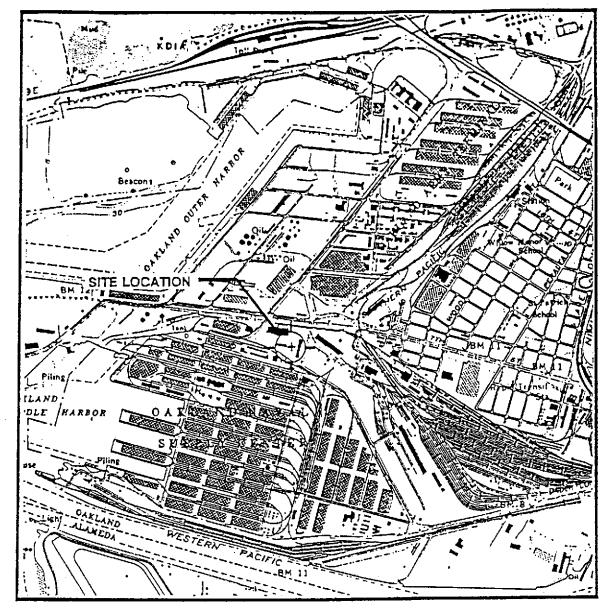
Top of Casing

NOTE: Well MW-3 has obstruction at 9.5 feet

WELL LD.	DTB	WELL DIAM.	WELL ELEV. TOC	DTW	DTP	PT	80% RECHG.	ELEV WATER	COMMENTS Please note if well needs Repair
MW-1	14.95	4"	13.72	5.86				7.86	l.
<u>MW-2</u>	14.85	4 <b>*</b>	13.80	6.31				7.49	
MW-3		4*	15.06	7.20				7.86.	Obstruction @ 9.6 ft
									·
		,							
				,					
· · · · · · · · · · · · · · · · · · ·	·								

## SITE VISITATION REPORT

Project: Ringsby Name(s) 12 (1) Arrival Time: Weather Notations:	Terminals-Port of Oakla  R MEPING  Departu  SUN CLOUDY	Date: <u>2/27/95</u> re Time:	Project No.: 02070 Did you call in? Who did you call? SNOW	(Yes No
er They		PURPOSE OF VI	SIT	
X 	GAUGE WELLS BAIL SEPARATE-PHASE SAMPLE A/S INF EFF SYSTEM CHECK SAMPLE WELLS	SURVEY MONITOR VAPORS SAMPLE CARBON BATCH FEED EQUIPMENT REPAI	R	INSTALL EQUIPMENT INSTALL SYSTEM
^		DRUM INVENTO	RY	
	WATER	CARBON EMPTY	TOTAL OPE TOTAL BUN	
		SAMPLE INFORMA	TION	
SAMPLED: WATER AIR		D PARAMETE STATION N DIL LABORATO THER LAB RELEA	o: RY: WESTER	NENVIRONENTAL
		REMEDIATION SYS	TEM	
FLOW TOTALIZER: FLOW RATE: % LEL:			AIR VELOCITY: PID INF: PID EFF:	
	DESCRIPTION	ON OF ACTIVITIES ON	SITE AND NOT	ES
MONITAGO A PITAGE ARE TWO MIN'S IS FULL	ND SampleD FUIDFURS ON BI OF SanD, G	3 WEIIS FORBITOR ITE. Sund 15 DKK G		



SOURCE: U.S.G.S. TOPOGRAPHIC OUADRANGLE
OAKLAND WEST
7.5 MINUTE SERIES
1959/PHOTOREVISED 1980

SCALE 1:24,000

0	2,000	4,000	
SCALE	<del></del> "	FEET	

GROUNDWATER SITE LOCATION MA					
RINGSBY TERMINALS INC.	0051-SL (1:1)	PROJECT NO.: 02070-0061	T54	PE/RG.	
LCCLTION:	REV.		FIGURE:		
2225 71h STREET OAKLAND, CA.	DES. DET. DATE	L: 4-4-95		1	

