

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE SAN JOSE, CA 95130 (408) 995-5530 FAX (408) 293-8770

Shell Oil Company P.O. Box 4023 Concord, CA 94524

Attn: Lynn Walker



August 24, 1994

SITE: Shell WIC #204-1381-0407 2724 Castro Valley Blvd. Castro Valley, California

QUARTER: 3rd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940804-J-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well gauging data

chain of custody

certified analytical report

cc: Pacific Environmental Group, Inc. 2025 Gateway Place, Suite #440

San Jose, CA 95110 ATTN: Rhonda Barrick

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ)	THICKNESS OF IMMISCIBLES LIQUID ZONE	VOLUME OF IMMISCIBLES REMOVED	DEPTH TO WATER	DEPTH TO WELL BOTTOM
			(sheen)	(feet)	(feet)	(ml)	(feet)	(feet)
MW-1	8/4/94	TOC	446	NONE	-	_	8.74	14.70
MW-2 *	8/4/94	TOC		NONE		_	9.38	12,00
MW-3	8/4/94	TOC	••	NONE			9.62	25.42
MW-5	8/4/94	TOC	**	NONE	-		9.22	22.08
MW-7	8/4/94	TOC		NONE			8.68	16,00
OMW-6	8/4/94	TOC	**	NONE			8,56	22.05
OMW-8	8/4/94	TOC		NONE	***		8.72	19,45
OMW-9	8/4/94	TOC		NONE		_	9.92	13.88

^{*} Sample DUP was a duplicate sample taken from well MW-2.

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Santa Rosa Division 435 Tesconi Circle Santa Rosa, CA 95401

Tel. (707) 526-7200 Fax: (707) 526-9623

Jim Keller Blaine Tech Services 985 Timothy Dr. San Jose, CA 95133 Date: 08/17/1994

NET Client Acct. No: 1821 NET Pacific Job No: 94.03447

Received: 08/06/1994

Client Reference Information

SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Project Coordinator

Operations Manager

Jim Hoch

Enclosure(s)





Client Acct: 1821 Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: MW-1

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211229

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020	•	08/12/1994
SURROGATE RESULTS					•		08/12/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	80	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td>5</td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c1<>	5					08/11/1994

DX : The result for Diesel is an unk. HC which consists of several peaks.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: MW-2

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211230

-			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	89			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	110	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td></td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c1<>						08/11/1994

 ${\tt DX}$: The result for Diesel is an unk. HC which consists of several peaks.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: MW-3

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211231

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	MD		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	92			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	80	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td>6</td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c1<>	6					08/11/1994

DX : The result for Diesel is an unk. HC which consists of several peaks.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: MW-5

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211232

			Reportin	ng		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	. ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1		,				08/11/1994
as Diesel	80	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td>6</td><td></td><td>_</td><td></td><td></td><td>08/11/1994</td></c10-c1<>	6		_			08/11/1994

 ${\tt DX}$: The result for Diesel is an unk. HC which consists of several peaks.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: MW-7

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211233

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:						-	08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	90	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c16< td=""><td>5</td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c16<>	5					08/11/1994

DX : The result for Diesel is an unk. HC which consists of several peaks.



NET Job No: 94.03447

Client Acct: 1821 Date: 08/17/1994
Client Name: Blaine Tech Services ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: OMW-6

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211234

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units '	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/14/1994
DILUTION FACTOR*	1						08/14/1994
as Gasoline	ND		50	ug/L	5030		08/14/1994
Carbon Range:							08/14/1994
METHOD 8020 (GC, Liquid)							08/14/1994
Benzene	ND		0.5	ug/L	8020		08/14/1994
Toluene	ND		0.5	ug/L	8020		08/14/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/14/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/14/1994
SURROGATE RESULTS							08/14/1994
Bromofluorobenzene (SURR)	72			% Rec.	5030		08/14/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/13/1994
as Diesel	ND		50	ug/L	3510		08/13/1994
Carbon Range:							08/13/1994



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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: OMW-8

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211235

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	94			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	50	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td>5</td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c1<>	5					08/11/1994

 $\mathtt{DX}\xspace$: The result for Diesel is an unk. HC which consists of several peaks.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994

ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: OMW-9

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211236

•			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	ND		50	ug/L	5030		08/12/1994
Carbon Range:							08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	ND		50	ug/L	3510		08/11/1994
Carbon Range:							08/11/1994



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: E.B.

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211237

		Reporting	Ŧ		Date	Date
<u>Parameter</u>	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/12/1994
DILUTION FACTOR*	1					08/12/1994
as Gasoline	ND	50	ug/L	5030		08/12/1994
Carbon Range:						08/12/1994
METHOD 8020 (GC, Liquid)						08/12/1994
Benzene	ND	0.5	ug/L	8020		08/12/1994
Toluene	ND	0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS						08/12/1994
Bromofluorobenzene (SURR)	90		% Rec.	5030		08/12/1994
METHOD M8015 (EXT., Liquid)					08/09/1994	
DILUTION FACTOR*	1					08/11/1994
as Diesel	ND	50	ug/L	3510		08/11/1994
Carbon Range:						08/11/1994



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: DUP

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211238

			Reportin	g		Date	Date
Parameter	Results	Flags	<u>Limit</u>	Units	Method_	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	70	C	50	ug/L	5030		08/12/1994
Carbon Range:	C5-C14						08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	ND		0.5	ug/L	8020		08/12/1994
Toluene	ND		0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS							08/12/1994
Bromofluorobenzene (SURR)	101			% Rec.	2030		08/12/1994
METHOD M8015 (EXT., Liquid)						08/09/1994	
DILUTION FACTOR*	1						08/11/1994
as Diesel	110	DX	50	ug/L	3510		08/11/1994
Carbon Range:	<c10-c1< td=""><td>6</td><td></td><td></td><td></td><td></td><td>08/11/1994</td></c10-c1<>	6					08/11/1994

 $\mathtt{DX}\ :$ The result for Diesel is an unk. HC which consists of several peaks.

C : Positive result confirmed by secondary column or GC/MS analysis.



Client Name: Blaine Tech Services

NET Job No: 94.03447

Date: 08/17/1994 ELAP Certificate: 1386

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Ref: SHELL, 2724 Castro Valley Blvd., Castro Valley, 940804J1

SAMPLE DESCRIPTION: T.B.

Date Taken: 08/04/1994

Time Taken:

NET Sample No: 211239

		Report	ing		Date	Date
Parameter	Results Fl	ags Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/12/1994
DILUTION FACTOR*	1					08/12/1994
as Gasoline	ND	50	ug/L	5030		08/12/1994
Carbon Range:						08/12/1994
METHOD 8020 (GC, Liquid)						08/12/1994
Benzene	ND	0.5	ug/L	8020		08/12/1994
Toluene	ND	0.5	ug/L	8020		08/12/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/12/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS						08/12/1994
Bromofluorobenzene (SURR)	90		% Rec.	5030		08/12/1994



Client Acct: 1821 Date: 08/17/1994
Client Name: Blaine Tech Services ELAP Certificate: 1386

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE, Liquid)						
as Gasoline	105.0	1.05	1.00	mg/L	08/12/1994	aal
Benzene	114.0	5.70	5.00	ug/L	08/12/1994	aal
Toluene	86.6	4.33	5.00	ug/L	08/12/1994	aal
Ethylbenzene	101.6	5.08	5.00	ug/L	08/12/1994	aal
Xylenes (Total)	100.0	15.0	15.0	ug/L	08/12/1994	aal
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	08/12/1994	aal
TPH (Gas/BTXE,Liquid)	1					
as Gasoline	107.0	1.07	1.00	mg/L	08/14/1994	lss
Benzene	109.4	5.47	5.00	ug/L	08/14/1994	lss
Toluene	108.6	5.43	5.00	ug/L	08/14/1994	lss
Ethylbenzene ·	103.2	5.16	5.00	ug/L	08/14/1994	lss
Xylenes (Total)	105.3	15.8	15.0	ug/L	08/14/1994	lss
Bromofluorobenzene (SURR)	103.0	103	100	% Rec.	08/14/1994	lss
METHOD M8015 (EXT., Liquid)						
as Diesel	109.2	1092	1000	mg/L	08/11/1994	tđn



Client Name: Blaine Tech Services

NET Job No: 94.03447

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METHOD BLANK REPORT

Method

	Brank					
	Amount	Reporting		Date	Analyst	
Parameter	Found	Limit	Units	Analyzed	<u>Initials</u>	
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	08/12/1994	aal	
Benzene	ND	0.5	ug/L	08/12/1994	aal	
Toluene	ND	0.5	ug/L	08/12/1994	aal	
Ethylbenzene	ND	0.5	ug/L	08/12/1994	aal	
Xylenes (Total)	ND	0.5	ug/L	08/12/1994	aal	
Bromofluorobenzene (SURR)	101		% Rec.	08/12/1994	aal	
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	08/14/1994	lss	
Benzene	ND	0.5	ug/L	08/14/1994	lss	
Toluene	ND	0.5	ug/L	08/14/1994	lss	
Ethylbenzene	ND	0.5	ug/L	08/14/1994	lss	
Xylenes (Total)	ND	0.5	ug/L	08/14/1994	lss	
Bromofluorobenzene (SURR)	86		% Rec.	08/14/1994	lss	
METHOD M8015 (EXT., Liquid)						
as Diesel	ND	0.05	mg/L	08/11/1994	tdn	



Client Acct: 1821 Client Name: Blaine Tech Services

NET Job No: 94.03447

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

•		Matrix					Matrix			
	Matrix	Spike				Matrix	Spike			
	Spike	Dup		Spike	Sample	Spike	Dup.		Date	Analyst
Parameter	% Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	Initials
TPH (Gas/BTXE, Liquid)		•								
as Gasoline	104.0	106.0	1.9	1.00	ND	1,04	1.06	mg/L	08/12/1994	aal
Benzene	94.7	95.3	0.6	33.8	ND	32.0	32.2	ug/L	08/12/1994	aal
Toluene	95.1	95.2	0.1	104.8	ND	99.7	99.8	ug/L	08/12/1994	aal
TPH (Gas/BTXE,Liquid)										
as Gasoline	83.0	83.0	0.0	1.00	0.17	1	1	mg/L	08/14/1994	lss
Benzene	99.5	103.3	3.6	39.3	2.9	42.0	43.5	ug/L	08/14/1994	lss
Toluene	102.0	102.5	0.5	83.7	ND	85.4	85.8	ug/L	08/14/1994	lss
METHOD M8015 (EXT., Liquid)										
as Diesel	110.0	95.0	14.6	2.00	0.08	2.28	1.98	mg/L	08/11/1994	tdn



Client Acct: 1821 Client Name: Blaine Tech Services

Date: 08/17/1994 ELAP Certificate: 1386

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LABORATORY CONTROL SAMPLE REPORT

		LCS	LCS			
	LCS	Amount	Amount	•	Date	Analyst
Parameter	% Recovery RPD	Found	Expected	Units	Analyzed	<u>Initials</u>
METHOD M8015 (EXT., Liquid)						
as Diesel	79.5	0.795	1.00	mg/L	08/11/1994	tdn



KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results column indicates analyte
not detected at the value following. This datum supercedes the
listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.

dw : Result expressed as dry weight.

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of

sample, wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than the applicable

listed reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2] /mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

<u>SM</u>: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993 abb.93

COOLER RECEIPT FORM

Project: Still (notion loss) Cooler received on: 8-16-94 and	Checked on 8-8-94 by T. Scrensen								
	(signature)								
Were custody papers present?	YES NO								
Were custody papers properly fil	led out?								
Were the custody papers signed?.	YES NO								
Was sufficient ice used?	YES) NO 1,4°و								
Did all bottles arrive in good c	ondition (unbroken)?YES NO								
Did bottle labels match COC?	VES NO								
Were proper bottles used for ana	lysis indicated?YES NO								
Correct preservatives used?									
VOA vials checked for headspace bubbles?									
Sample descriptor:	Number of vials:								
*All VOAs with headspace bubbles used for analysis	have been set aside so they will not beYES NO								
List here all other jobs receive	d in the same cooler:								
Client Job #	NET log #								

Danie de la	1. 74 08	all 5:	Wig	#2011-13	201 014				
Project #: 94080431 Wic # 204-1381-0407									
Sampler: J.67 Date Sampled: 8/4/94									
Well I.D.: MW- Well Diameter: (circle one) 2 3 (4/6									
Total Well Depth: Depth to Water:									
Before 11,70 After Before 8,74 After									
Depth to Free Product: Thickness of Free Product (feet):									
Measurements referenced to: FVC Grade Other									
Volume Conversion Factor (VCF):									
$\frac{3_{i}9}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{11.7}{\text{gallons}}$									
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pu									
TIME	TEMP. (F)	рĦ	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
13,12	77.8	812	700	7200	-4				
13014	79,2	8.3	900	>200	8				
13:16	78,2	814	940	>200	12				
12010	1012	017	170	1200	1				
			•						
			<u></u>						
	l								
Did Well	Dewater?	O If yes	, gals.	Gallons A	Actually Ev	acuated: /a			
Sampling	Time:	<u></u>							
Sample I	.D.: MW-		Lab	oratory: NET					
Analyzed	for: TPH-	G, B72	37, 7PH-1			*			
Duplicate	<u> </u>			aning Blank I	.D.;				
Analyzed	for:								
Shipping	Notations:								
Addition	al Notation	s:							

Project #1940809 SI Wic # 204-1381-0407										
Sampler: J. G. Date Sampled: 8/4/94										
Well I.D.: MW-7 Well Diameter: (circle one) 2 3 4 6										
Total Well Depth: Depth to Water:										
	Before 12,00 After Before 9,38 After									
Depth to	Free Produc	et:	Thic	ckness of Free	e Product (feet):				
Measurements referenced to: (PVC) Grade Other										
Valume Conversion Factor (VCP): {12 = (c ² /4) = n}/fill 2 = 0.26 3 = 0.27 4 = 0.36 4 = 0.46 12 = in/foot 6 = diameter (in.) 12 = 1.47 12 = 1.47 12 = 1.47 12 = 1.47 12 = 1.47										
1.7		x	3		5,1					
1 Case	Volume	- ^ .	Specified Vo	olumes =	gallons					
Purging: Bailer 10 Middleburg										
TIME	TEMP.	рн	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:				
15:45	73.2	810	700	>200	3					
15:48	73,0	7,8	600	>200	iL					
512			/ / . \		-4	<u> </u>				
10,01	1210	1,8	640	7200	5,5					
Did Well	Dewater? N	O If ye	s, gals.	Gallons A	Actually Ev	acuated: 505				
Sampling	Time: 610	0								
Sample I.	Sample I.D.: MW-2 Laboratory: NET									
Analyzed	for: TPH-	& BTI	XTPA-D							
Duplicate I.D.: DUP Cleaning Blank I.D.:										
Analyzed	Analyzed for TPH-G BTEY TPH-D									
	Notations:									
Additiona	l Notation	3:								

Project #:94080411 Wic # 204-1381-0407									
Sampler: 1,67 Date Sampled: 8/4/94									
Well I.D.: MW-3 Well Diameter: (circle one) 2 3 4 6									
Total Wel	<u> </u>		_	th to Water:					
Before 2	Before 25,48 After Before 9,68 After								
Depth to Free Product: Thickness of Free Product (feet):									
Measureme	Measurements referenced to: (PVC) Grade Other								
Velume Cenversian Factor (VCT): (22 * (c ² /4) * m) /221 **									
10.	3	×	3		30,9				
1 Case	Volume		Specified Vo	olumes =	gallons				
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Installed Pump Installed Pump									
TIME	TEMP. (F)	рĦ	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
14128	7512	7,4	2200	88	10.5				
141,30	73,2	7,8	2300	15	2L				
14:33	72.4	7.4	3000	135	32				
Did Well	Dewater?	() If yes	s, gals.	Gallons I	Actually Ev	acuated: 32			
Sampling	Time: 2143	5	<u></u>						
Sample I	.D.: MW.	-3	Labo	oratory: NE	7				
Analyzed	for: TPH-	5 BT	ex TPH	D					
Duplicate	i.D.:	71	Clea	aning Blank I	.D.:				
Analyzed	for:								
Shipping	Notations:								
Additiona	al Notation	5:							

Project #: 94080431 Wic # 204-1381-0407									
Sampler: J.G. Date Sampled: 8/4/94									
Well I.D.: MW-5 Well Diameter: (circle one) 2 3 4 6									
Total Wel	_		Dept	th to Water:					
Before 2	(2,08 A	ter	Bef	ore 9,23	After				
Depth to Free Product: Thickness of Free Product (feet):									
Measureme	ents referen	aced to:	PVE	Grade	Other				
Values Conversion Parter (VCT): {12 * (c ² /s) * m} /211 2° = 0.26 3° = 0.27 Where 12 * in/test 4° = 0.48 13 * d diameter (in.) 10° = 4.08 11 * in/test 22° = 0.27 22° = 0.27									
8,4		х	3		25.	გ			
1 Case	Volume	- ~	Specified V	olumes =	gallons				
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump Installed Pump									
TIME	TEMP. (F)	рĦ	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
13152	75.6	7.6	1000	>200	813	•			
13:55	720	7.6	1000	7200	17				
13:57	75.4	7,8	1000	7200	27				
					-				
						·			
Did Well	Dewater? N	O If yes	s, gals.	Gallons I	Actually Eve	acuated: 27			
Sampling	Time: W'	9 Ō							
Sample I.	.D.: MW-	5	Lab	oratory: NE	= 1				
Analyzed	for: TPH	G B	TEX TPH	1-D					
Duplicate	≥ I.D.:		Cle	aning Blank I	.D.:				
Analyzed	for:								
Shipping	Notations:								
Additiona	al Notation	3:							

Project #: 94080401 Wic # 204- 1381-0407									
Sampler:	J.G.		Dat	e Sampled: 💍	19194				
Well I.D.: MW Well Diameter: (circle one) 2 3 4 6									
Total Well Depth: Depth to Water:									
Before 6,00 After Before 8,68 After									
Depth to Free Product: Thickness of Free Product (feet):									
Measurements referenced to: PVC Grade Other									
Volume Conversion Factor (VCT): {12 = (c ² /4) = n)/121									
1,2		×	3		3,6				
1 Case	Volume	- ···	Specified V	olumes =	gallons				
Purging: Bailer A Sampling: Bailer A Middleburg D Middleburg D Electric Submersible D Suction Pump D Suction Pump D Installed Pump D									
TIME	TEMP. (F)	рĦ	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
14:59	69,2	7,8	1000	>200	1.3				
15:02	60,4	7,9)000	7200	3				
15:05	68,8	7,8	900	>200	4				
					,				
!	Dewater? N		, gals.	Gallons A	Actually Eva	acuated: U			
Sampling	Time: 15%	<u> </u>		···					
Sample I	.D.: MW.	<i></i>		oratory: NE	T				
Analyzed	for: TP	1-6, J	stex, 19	<i>``</i> ₩₽					
Duplicate	e I.D.:			aning Blank I	.D.:				
Analyzed	for:								
Shipping	Notations:								
Addition	al Notation	3:							

Project #:94080431 Wic # 204-1381-0407								
Sampler: J.G. Date Sampled: 8/9/94								
Well I.D.: OM W-6 Well Diameter: (circle one) 2 3 3 6								
Total We	ll Depth:		Dept	th to Water:		·		
Before 22,05 After Before 856 After								
Depth to Free Product: Thickness of Free Product (feet):								
Measurements referenced to: (PVC) Grade Other								
Valuma Conversion Factor (VCF):								
8,8	•		3		2611	1		
	Volume	_ × .	Specified Vo	olumes =	gallons	<u></u>		
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pu								
TIME	TEMP.	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:		
10:07	72.4	7.1	2800	13.5	9			
10211	72,4	7,0	2600	816	18			
0:15	72.0	7,0	3000	12.6	27			
Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 27								
Sampling Time: 0; AF								
Sample I.D.: OMW-6 Laboratory: NET								
Analyzed for: TPA-G, BTEX, TPH-D								
Duplicate I.D.: Cleaning Blank I.D.:								
Analyzed for:								
Shipping Notations:								
Additional Notations:								

Project #: 94080431 Wic #204-1381-0407							
Sampler: J. G.				Date Sampled: 8/4/94			
Well I.D.: OMW-8 Well Diameter: (circle one) 2 3 4 6							
1	Total Well Depth: Depth to Water:						
Before	9145 A	fter 	Bef	Sefore 8,73 After			
Depth to Free Product: Thickness of Free Product (feet):							
Measurements referenced to: (PVC) Grade Other							
Valume Conversion Factor (VCP): (12 * (c ² /t) = n)/221 There 22 * 0.24 32 * 0.27 4 * 0.45 4 * 0.45 4 * 0.45 4 * 0.47 30 * 4.00 30 * 4.00 31 * 5.245 32 * 6.57							
7.	O	×	3		21,		
1 Case	Volume	··· ·	Specified Vo	olumes =	gallons		
Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pu							
TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:	
11:02	74.6	7,3	2000	19.0	8		
11:05	73,6	714	1600	28.4	16		
11',07	70.0	7.3	1600	341	24		
,			! 	•			
Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 21							
Sampling Time:							
Sample I.D.: DMW-8 Laboratory: NET							
Analyzed for: TPH-G, BTET, TPH-D							
Duplicate I.D.: Cleaning Blank I.D.:							
Analyzed for:							
Shipping Notations:							
Additional Notations:							

Project #: 94080411 Wic # 204-1381-0407							
Sampler: 1.6 Date Sampled: 8/4/94							
Well I.D	Well I.D.: OM W_9 Well Diameter: (circle one) 2 3 4 6						
Total Well Depth: Depth to Water:							
Before	Before 13,88 After Before 9,9% After						
Depth to Free Product: Thickness of Free Product (feet):							
Measurements referenced to: PVC Grade Other							
{22 × **2:70 22: 4 7	eversian Focus (VCT); (6 ² /s) > x)/221 = (infoot = (inneus (in.) = 2.1416 = in1/p1		Well dis. VCF 2° = 0.36 3° = 0.37 4° = 0.46 4° = 1.47 20° = 4.08 32° = 1.47				
1	5	_ x	3		4,3		
1 Case	Volume		Specified V	olumes =	gallons		
Purging: Bailer a Sampling: Bailer a Middleburg D Middleburg D Electric Submersible D Suction Pump D Suction Pump D Installed Pump D							
TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:	
12134	72,4	8,4	700	7200	2		
12:37	72.6	8,4	650	7200	U		
12:40	72.4	812	680	7200	6		
•							
Did Woll	7	<u> </u>					
Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated:							
	Time: a		<u> </u>				
Sample I.D.: ONW-9 Laboratory: NET							
Analyzed for: TPA-G BTEX, TPA-1							
Duplicate I.D.: Cleaning Blank I.D.:							
Analyzed for:							
Shipping Notations:							
Additional Notations:							