December 11, 1998 Job #386660

Mr. Garrick Jauregui Chevron Products Company P.O. Box 6004 San Ramon, CA 94583

Re:

Fourth Quarter 1998 Groundwater Monitoring & Sampling Report

Former Chevron Service Station No. 9-5257

8808 271st Street Northwest Stanwood, Washington

Dear Mr. Jauregui:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On October 26, 1998, field personnel were on-site to monitor and sample three wells (C-5, C-7 and C-8) at the above referenced site. A Site Vicinity Map is included as Figure 1.

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric/Concentration Map is included as Figure 2. Purge water was treated by filtering the water through granular activated carbon and was subsequently discharged to the ground surface at the site.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure -Groundwater Sampling (attached). The field data sheets for this event are attached. The samples were analyzed by North Creek Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

Project Coordinator

Stephen J. Carter Senior Geologist

Figure 1:

Site Vicinity Map

Figure 2: Table 1:

Potentiometric/Concentration Map

Attachments:

Groundwater Monitoring Data and Analytical Results Standard Operating Procedure - Groundwater Sampling

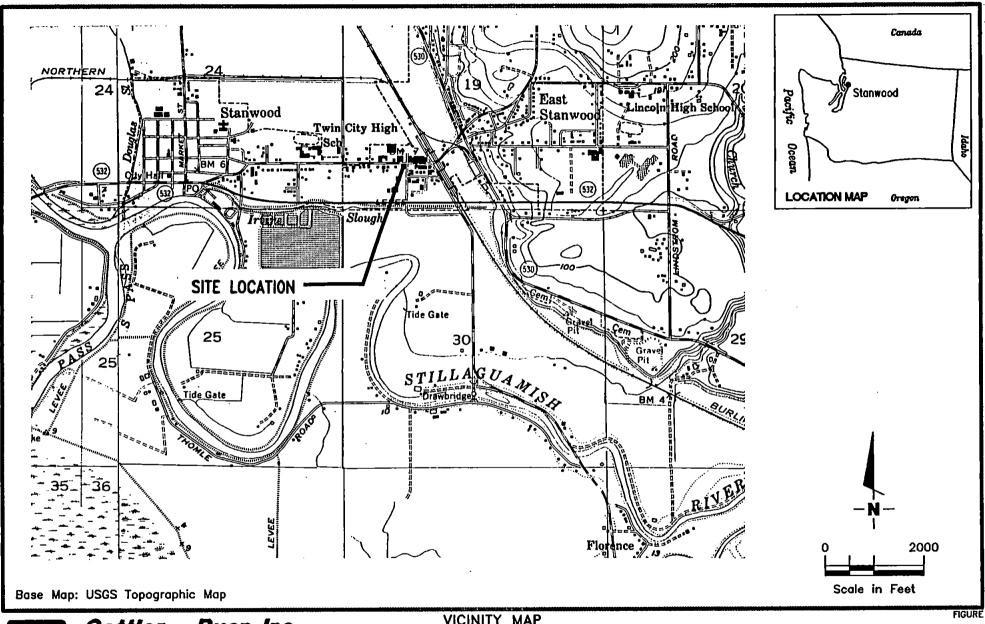
Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

OF CALIFO

### Independent Action Report Update

Site Name:	Chevm 9-5257
	2294 Date of Report: $6-11-98$
County:	Date Report Rec'd: 12-31-98
Reviewed b	y: Ben Amoah-Forson
Comments	(e.g. free product, off site migration, Conc. Trend)
Nou	of 3 mus sample
Ilo	of 3 mis samples
	·
	interim
	-





Gettler - Ryan Inc.

(925) 551-7555 6747 Sierro Ct., Suite J Dublin, CA 94568

VICINITY MAP

Former Chevron Service Station No. 9-5257 8808 271st Street Northwest

Stanwood, Washington

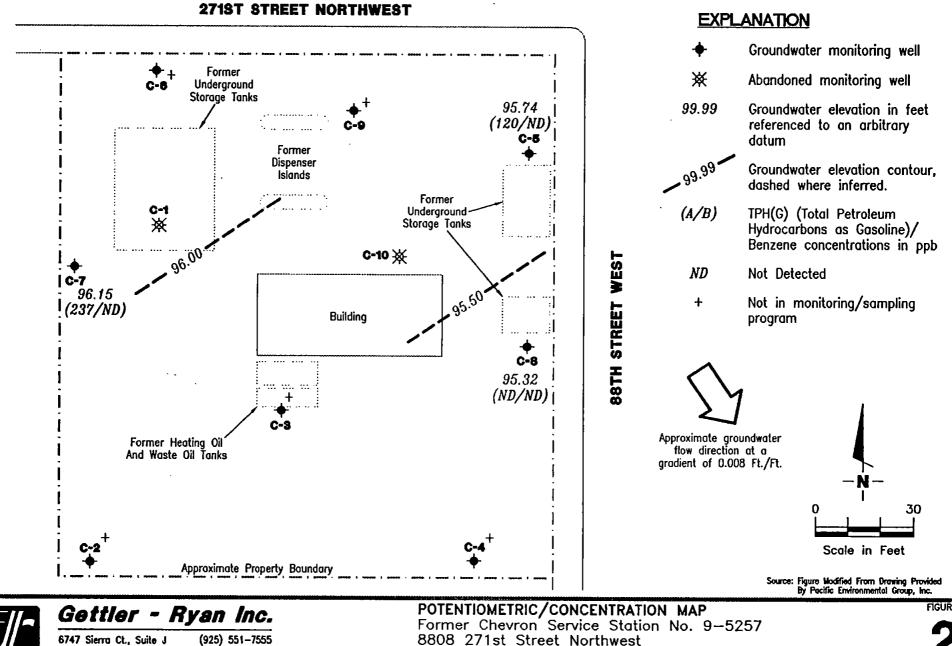
JOB NUMBER 386660

REVIEWED BY

DATE

December, 1998

REVISED DATE



JOB NUMBER 386660

REVIEWED BY

**Dublin. CA 94568** 

(925) 551-7555

DATE

October 26, 1998

Stanwood, Washington

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station No. 9-5257 8808 271st Street Northwest

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WELL ID/	DATE	DTW	GWE	SPHT	ТРН-G	В	Т	E	X
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
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C-1	07/06/90	1.74	96.22		11,000	680	770	350	2,300
97.96	11/08/90	1.17	96.79		39,000	6,800	7,600	1,800	6,700
	11/08/90	ABANDONED	90.79				7,000 		
	11/19/90	ABANDONED							
•									
C-2									
97.31	07/06/90	0.86	96.45		ND	ND	ND	ND	ND
	11/08/90	0.56	96.75		ND	ND	ND	ND	ND
	12/26/90	0.56	96.75		ND	3.0	0.5	ND	ND
	03/27/91	0.40	96.91		ND	1.3	ND	ND	ND
	06/14/91	0.61	96.70		ND	ND	ND	ND	ND
	10/07/91	2.45	94.86		ND	ND	ND	ND	ND
	03/04/92	0.20	97.11		ND	ND	ND	ND	ND
	06/11/92	1.36	95.95		ND	ND	ND	ND	ND
	09/24/92	1.40	95.91		ND	ND	ND	ND	ND
	12/28/92	0.50	96.81		ND	ND	ND	ND	ND
	06/23/93	NOT MONITOR	ED/SAMPLED	)					
C-3							\ m	<b>.</b> II.	1.2
98.24	07/06/90	1.67	96.57		ND	ND	ND	ND	1.3
	11/08/90	1.20	97.04		ND	ND	ND	ND	ND
	12/26/90	1.37	96.87		ND	ND	ND	ND	ND
	03/27/91	0.74	97.50		ND	ND	ND	ND	ND
	06/14/91	1.17	97.07		ND	ND	ND	ND	ND
	10/07/91	2.51	95.73		ND	ND	ND	ND	ND
	03/04/92	2.64	95.60		ND	ND	ND	ND	ND
	06/11/92	2.19	96.05		ND	ND	ND	ND	ND
	09/24/92	2.00	96.24		ND	ND	ND	ND	ND
	12/28/92	0.85	97.39		ND	ND	ND	ND	ND ·
	06/23/93	NOT MONITOR	ED/SAMPLEI	<b>)</b>					

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station No. 9-5257

8808 271st Street Northwest

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WELL ID/	DATE	DTW	GWE	SPHT	TPH-G	В	T	E	X
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
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C-4									
97.01	07/06/90	0.37	96.64		ND	2.8	ND	7.0	3.1
<i>,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11/08/90	0.38	96.63		ND	ND	ND	ND	0.5
	12/26/90	0.45	96.56		ND	ND	ND	ND	ND
	03/27/91	0.35	96.66		ND	ND	ND	ND	ND
	06/14/91	0.78	96.23		ND	ND	ND	ND	ND
	10/07/91	2.01	95.00		ND	ND	ND	ND	ND
	03/04/92	0.10	96.91		ND	ND	ND	ND	ND
	06/11/92	1.19	95.82		ND	ND	ND	ND	ND
	09/24/92	0.47	96.54		ND	ND	ND	ND	ND
	12/28/92	0.00	97.01		ND	ND	0.61	0.53	ND
	06/23/93	0.90	96.11		ND	ND	ND	ND	ND
	12/13/93	0.00	97.01		ND	ND	ND	ND	ND
	06/03/94	0.79	96.22		ND	ND	ND	ND	ND
	12/07/94	0.78	96.23		ND	ND	ND	ND	ND
	06/19/95	1.78	95.23		1,200	6.4	0.95	2.2	5.6
	12/08/95	0.87	96.14		ND	ND	ND	ND	ND
	06/06/96	0.25	96.76		ND	ND	ND	ND	ND
	05/28/97	0.40	96.61		ND	ND	ND	ND	ND
	08/05/97								
	09/09/97	1.10	95.91		ND	ND	ND	ND	ND
	12/10/97	1.40	95.61		ND	ND	ND	ND	ND
	02/11/98								
	05/19/98	0.80	96.21		ND	ND	ND	ND	ND
	08/28/98	1.10	95.91		ND	ND	ND	ND	ND
	10/26/98	NOT MONITO	DRED/SAMPLI	ED					
C-5									
97.95	07/06/90	1.93	96.02		5,000	1,200	16	39	56
<del>-</del>	11/08/90	2.05	95.90		4,000	1,000	ND	34	44
	12/26/90	1.50	96.45		- ND	350	ND	27	40
	03/27/91	1.22	96.73		ND	250	4.3	6.3	13
	06/14/91	1.98	95.97		960	120	2.1	6.0	8.6

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station No. 9-5257 8808 271st Street Northwest

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WELL ID/	DATE	DTW	GWE	SPHT	TPH-G	В	T	E	X
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
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C-5	10/07/91	2.35	95.60		1,100	55	1.5	4.2	3.2
	03/04/92	1.96	95.99		520	14	0.76	9.4	6.7
(cont)	05/04/92	2.18	95.77	 	490	5.2	0.62	3.6	3.3
	09/24/92	2.18	95.67	<u></u>	450	2.4	ND	0.66	ND
	12/28/92	2.18	95.77		360	7.2	ND	ND	ND
•	06/23/93	1.79	96.16		320	0.5	0.6	1.2	1.1
	12/13/93	2.10	95.85		ND	ND	ND	ND	ND
	06/03/94	2.10	95.74		150	ND	ND	ND	ND
	12/07/94	2.08	95.87		370	11	1.1	1.2	3.3
	06/19/95	0.98	96.97		ND	ND	ND	ND	ND
	12/08/95	0.93	97.02		460	4.1	0.5	0.52	2.0
	06/06/96	1.75	96.20		148	0.604	ND	ND	ND
	05/28/97	1.70	96.25		ND	ND	ND	ND	ND
	08/05/97	2.00	95.95		127	0.581	0.744	0.657	1.08
	09/09/97	1.81	96.14		246	1.73	ND	ND	ND
	12/10/97	2.20	95.75		411	2.11	1.02	1.75	4.13
	02/11/98	1.33	96.62		298	2.78	0.706	ND	1.15
	05/19/98	1.53	96.42		424	ND	ND	ND	ND
	08/28/98	1.35	96.60		209	ND	ND	ND	ND
	10/26/98	2.21	95.74	0.00	120	ND	ND	0.559	1.08
C-6									
97.81	07/06/90	1.24	96.57		ND	0.9	2.3	1.4	8.6
	11/08/90	1.09	96.72		ND	ND	ND	ND	6.3
	12/26/90	2.60	95.21	`	ND	ND	ND	ND	1.8
	03/27/91	0.88	96.93		ND	ND	ND	ND	ND
	06/14/91	1.36	96.45		ND	ND	ND	ND	ND
	10/07/91	1.91	95.90		ND	ND	ND	ND	1.8
	03/04/92	1.30	96.51		ND	ND	ND	ND	ND
	06/11/92	1.47	96.34		ND	ND	ND	ND	ND
	09/24/92	1.07	96.74		ND	ND	ND	ND	ND
	12/28/92	0.98	96.83		ND	ND	ND	ND	ND
	06/23/93	NOT MONITO	RED/SAMPLE	D					

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station No. 9-5257

8808 271st Street Northwest
Stanwood Washington

				Stanwood,					
	ARTONIO (MARIO MARIO MARIO DATE	DTW	GWE	SPHT	TPH-G	<u>11/11/11/11/11/11/11/11/11/11/11/11/11/</u>	1900-1900-1900-1900-1900-1900-1900-1900	E	<u>X</u>
WELL ID/ TOC*	DATE		(ft.)	(ft.)			(ppb)	(ppb)	(ppb)
	lainanihuskopkanastisibinaidhkuilbok	(ft.)	(II.) Terrorennenalerina		(ppb)	<i>(ppb)</i>		nnamanananininananininini	
								_	_
C-7									
97.76	10/07/91	2.18	95.58		1,200	32	0.65	11	82
	03/04/92	1.10	96.66		1,500	49	0.72	12	110
	06/11/92	2.01	95.75		830	18	0.66	2.9	49
	09/24/92	1.60	96.16		1,100	20	1.6	3.7	39
	12/28/92	0.80	96.96		1,500	53	ND	12	69
	06/23/93	1.15	96.61		710	20	1.2	1.2	6.8
	12/13/93	1.34	96.42		250	0.9	ND	0.6	1.8
	06/03/94	1.55	96.21		340	1.7	ND	ND	1.0
	12/07/94	1.35	96.41		410	1.1	0.8	1.1	4.7
	06/19/95	2.19	95.57		210	2.7	0.85	ND	1.1
	12/08/95	2.00	95.76		850	3.9	0.52	ND	1.7
	06/06/96	1.91	95.85		806	4.56	ND	ND	1.22
	05/28/97	2.00	95.76		1,240	1.18	0.821	0.7	2.43
	08/05/97	2.18	95.58		951	0.988	1.44	0.975	3.85
	09/09/97	2.36	95.40		1,190	2.64	1.35	ND	4.77
	12/10/97	2.00	95.76		628	2.47	0.813	1.51	2.58
	02/11/98	2.00	95.76		1,080	14.2	1.49	2.78	3.06
	05/19/98	2.82	94.94		1,410	ND	ND	ND	ND
	08/28/98	2.29	95.47		285	ND	ND	ND	1.05
	10/26/98	1.61	96.15	0.00	237	ND	ND	ND	ND
C-8									
97.43	11/15/91	0.73	96.70		130	ND	37	1.5	5.2
71.43	03/04/92	1.46	95.97		ND	ND	ND	ND	ND
	06/11/92	1.40	95.52		ND	ND	ND	ND	ND
	09/24/92	1.91	95.32		ND	ND ND	ND ND	ND	ND
	12/28/92	3.20	94.23		ND ND	ND	ND ND	ND	ND
	06/23/93	1.00	94.23 96.43		ND	ND ND	ND	ND	ND
	12/13/93	1.77	96.43 95.66		ND ND	ND ND	ND ND	ND ND	ND
					ND ND	ND ND	ND ND	ND ND	ND
	06/03/94	2.18	95.25		מא	ND	שא	שא	MD

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station No. 9-5257 8808 271st Street Northwest

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WELL ID/	DATE	DTW	GWE	SPHT	TPH-G	В	T	E	X
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
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C-8	12/07/94	2.02	95.41		ND	ND	ND	ND	ND
(cont)	06/19/95	1.59	95.84		ND	1.2	1.9	ND	1.9
,	12/08/95	0.98	96.45		ND	ND	ND	ND	ND
	06/06/96	1.38	96.05		ND	ND	ND	ND	ND
	05/28/97	2.33	95.10		ND	ND	ND	ND	ND
	08/05/97	2.13	95.30		ND	ND	0.842	ND	ND
	09/09/97	2.29	95.14		ND	0.737	ND	ND	ND
	12/10/97	1.97	95.46		ND	ND	ND	ND	ND
	02/11/98	1.93	95.50		ND	ND	ND	ND	ND
	05/19/98	2.15	95.28		ND	ND	ND	ND	ND
	08/28/98	1.60	95.83		ND	ND	ND	ND	ND
	10/26/98	2.11	95.32	0.00	ND	ND	ND	ND	ND
C-9									
98.04	11/15/91	1.35	96.69		83	ND	23	0.94	3.5
	03/04/92	1.81	96.23		ND	ND	ND	ND	ND
	06/11/92	2.06	95.98		ND	ND	ND	ND	ND
	09/24/92	1.44	96.60		ND	ND	ND	ND	ND
	12/28/92	1.18	96.86		ND	ND	ND	ND	ND
	06/23/93	NOT MONITOR	ED/SAMPLE	D					
C-10									
98.79	11/15/91	2.10	96.69		1,300	140	32	22	5.0
	02/27/92	ABANDONED							

### Table 1

### **Groundwater Monitoring Data and Analytical Results**

Former Chevron Service Station No. 9-5257

8808 271st Street Northwest

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WELL ID/	DATE	DTW	GWE	SPHT	TPH-G	В	T	E	X
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
odubundurus ikina barada alika dilenim	ona Danaria kalenda keesised		en kom en omborismen prokladingste	i ka i perikalakiji kai palikri piri pirakilika palikri palikri		<u> 1   12   13   10   15   15   15   15   15   15   15</u>	icijajojojojopojem manuoleogijejeneje	HIJICALER REPORTATION CHICAGO IN DECIDIO	NET CONTROLLER LINEAR LINEAR PROPERTY IN
Trip Blank									
TB-LB	08/28/98				ND	ND	ND	ND	ND
	10/26/98				ND	ND	ND	ND	ND

ENDOMERICA DE LA RECENTION DE LO CARLO ENCOURTE DE COMPANDA DE LO COMPANDA D	NED SOCIAL DE BOLLO CONTROL DE BOLLO DE BOLLO DE BOLLO DE BOLLO DE BOLLO DE BOLLO DE BOLLO DE BOLLO DE BOLLO D	ARTO DIA DILITTICI DE ADORA DI DELL'ARTO DI L'ARTO DI L'ARTO DE L'ARTO DE L'ARTO DE L'ARTO DE L'ARTO DE L'ARTO	HEADOTHAN OTABOHAN UTKO KULADOOL	ANTANA NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA MANTANI NA M	HADINTII TIEKIONII TIIMITIANTII LIIMITANTII SIRTII SUUN
	TPH-G	В	Т	E	X
Current Laboratory Reporting Limits:	50.0	0.500	0.500	0.500	1.00
MTCA Method A Cleanup Levels:	1,000	5.0	40	30	20
Current Method:	-	WTP	H-G and EPA 8	3021B	
TO SECONDERS ESTADA DE LO DE LO DE MEDITA EN SECONDA DO PROMETOR DE LA COMPANIO EN COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPAN	ROBBICH DIEROS BERGEROS HIQU HIYUUNAUTU UUTUUTU IN IR UR UKUUKU	NESTI ALCONOMERA DI LIMONO MENONE DI CHESTILLIO	A CERT I COLLÀDIA CONTROLIS A DE LO CELLA DE		

#### Table 1

### Explanations

Former Chevron Service Station No. 9-5257

8808 271st Street Northwest Stanwood, Washington

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#### **EXPLANATIONS:**

Groundwater monitoring data and analytical results prior to October 26, 1998, were compiled from reports prepared by Pacific Environmental Group, Inc.

TOC = Top of Casing

B = Benzene

ppb - Parts per billion

DTW = Depth to Water

T = Toluene

ND = Not Detected

(ft.) = Feet

E = Ethylbenzene

-- = Not Measured/Not Analyzed

GWE = Groundwater Elevation

X = Xylenes

MTCA = Model Toxics Control Act Cleanup Regulations

[WAC 173-340-720(2)(a)(I), as amended 12/93].

SPHT = Separate-phase hydrocarbon thickness

TPH-G = Total Petroleum Hydrocarbons as Gasoline (Gasoline Range Hydrocarbons)

\* TOC elevations are referenced in feet.

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility	huran #	ĵ-525		<b>#:</b>	386	6/2/00	
Address: <u>88</u>	(8 27/3) 5	Treet	Date	):	10 2	49E	1
	nwood CA		Sam	pler:	FCI	ire_	
Weil ID	<u>c-5</u>	We	Il Condition: _	Oto	14		
Well Diameter	2'' in.		drocarbon	(feet)	Amount B		(Gallons)
Total Depth	9' tt.	V	olume 2" = 0	0.17	3" = 0.38	4	".= 0.66
Depth to Water	2.21 ft.	Fa	ictor (VF)	6" = 1.	.50 	12" = 5.80 	
	<u>Ce: 79</u> x	vf <i>Oj)</i> 7	= /// x 3 (case	e volume) =	Estimated Pu	irge Volume: _	3, 5 (dal')
Purge	Disposable Bailer Bailer		Sampling Equipmen		posable Ba	iler	
Equipment:	Stack		Equipmen	Bai	iler essure Baile		
	Suction Grundfos			Gra	ab Sample		
	Other:				her:	<del></del>	
Starting Time:	17-99		Weather Conditi	ons:		v ccc	4
Sampling Time:	1254		Water Color:		MC	Odor: <u>M</u>	11/2
Purging Flow Rate Did well de-wate	A 1/	gpm.	Sediment Descri			ie:	(gal.)
Did well de-wate			•				
	olume pH (gal.) 7.00		ductivity Temp	erature E	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	18 G180 12 (172	8	00 77	7			
	12 6,72 10 (e,71	<u> </u>	08 17.9	<del>9</del>			
——— —		- <del></del>					
SAMPLE ID	(#) - CONTAINER	LABOR REFRIG.	RATORY INFORMA PRESERV. TYPE		RATORY	ANAL	YSES
C-5	3 x 40 m 1 VOA	· Y	Ke	SEQUOIA	NCA	CusBIX	٤.
				<u> </u>			
COMMENTS: _							

9/97-fleldat.frm

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility		525	7	4: <u> </u>	38 G	660 9E	
Address: <u>8808</u>	27153	Street	Date	:	02G-	9E	
City: Stanux	exd CA		Sam	pler:	K CI	ril	
Well ID	2" in	Well	Condition:	okay	<i>l</i>		
Well Diameter		•	ness:	ratio	mount B roduct/wa	The same of the sa	(Gallons)
Total Depth	10 tt.	Volu		0.17 6" = 1.50	3" = 0.38		*.= 0.66
Depth to water	26	 . <u>[[]</u>	= 1     X 3 (case	volume) = Es	timated Pu	irge Volume: 4	/7 / (gal.)
Equipment: Baile Stac Suct Grun	ion	_	Sampling Equipment	Bailer Press Grab	ure Baile Sample	er	
Starting Time:  Sampling Time:  Purging Flow Rate:	1734 738 1,4 gp	_	Veather Condition Vater Color:	blear		ccol Odor: M Ione	1d Diese
Did well de-water?	No		yes; Time: _			ne:	(gal.)
Time Volume (gal.) 1734 2.8 1733 64.2 1738 510	pH (1.53) (1.52) (1.52) (1.53)	Conduc µmbo 15 165 169 169		erature 5) 5/5 3	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID (#) - C			TORY INFORMA	ATION LABORAT	ORY	ANALY	rses
	Iml VCA	Y	Itc	SEQUOIA	WA	TK (60)	Broc
COMMENTS:		~					

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# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ /	$\mathcal{L}_{\alpha}$	~? ~7	174 011221	38/1		,
Facility	even # 9-		. Job#: _	2004		
Address: <u>88</u>	08 27151 9	Treet	Date: _	1000	<u>98</u>	
City:	tan wood Ch	) 	_ Sampler: _	F. C1.	ine	<del></del>
Well ID	<u>C-8</u>	Well Condi	ition: Oh	494		
Well Diameter	$\frac{2''}{10}$ in.	Hydrocarbo Thickness:		Amount Ba		(Gallons)
Total Depth	10 ft.	Volume	$2^{n} = 0.17$	3" = 0.38	4'	' = 0.66
Depth to Water	21// ft.	Factor (VF)	) 6" =	: 1.50 	12" = 5.80	
	. <u>7,89</u> xv	FOIT 1.3	X 3 (case volume)	= Estimated Pu	rge Volume: _	ULZ (gal.)
Purge Equipment:	Disposable Bailer Bailer		Sampling Equipment:	Disposable Ba	iler	
_4	Suction			<del>Bailer</del> Pressure Baile	ır	
	Grundfos		(	Grab Sample		
	Other:	<del></del>	(	Other:		
Starting Time:	1729 122		er Conditions:			
Sampling Time:	172(		Color:			one
Purging Flow Ra	41		ent Description:			
Did well de-wate	er? <i>Nc</i>	If yes;	Time:	volum	ie:	(gal.)
	Volume pH	Conductivity	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1239 -	13 (1)11 2.6 (0.75)	- GOV 598	- <u>/ ), 9</u>			
173 3	9 6119	598	75.5			
1727 4	5 6,20	597	- 15-19			
1			INFORMATION			
SAMPLE ID	<del></del>	PRESE		ORATORY	ANAL)	(as B14
C-8	3×40m1UCD	170	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	''I'S	NA TH	יני כמן
COMMENTS: _						
		<u>.                                    </u>	<del></del>	•		
	_ <del></del>					9/97-fieldat.fr



BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290

PORTLAND = (503) 906-9200 = FAX 906-9210

Gettler-Ryan Inc.

Project: Chevron Former Facility #9-5257

Sampled: 10/26/98

3164 Gold Camp Dr.#240 Rancho Cordova, CA/USA 95670 Project Number: 386660.85

Received: 10/27/98

Project Manager: Deanna L. Harding

Reported: 11/4/98 13:41

### ANALYTICAL REPORT FOR SAMPLES:

	I de care Canala Number	Sample Matrix	Date Sampled
Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	B810610-01	Water	10/26/98
C-8	B810610-02	Water	10/26/98
C-7	B810610-03	Water	10/26/98
C-5	B810610-04	Water	10/26/98

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Davis, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 East 11115 Montgomery, Suite B. Spokane. WA 99206-4776



BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 906-9200 = FAX 906-9210

Gettler-Ryan Inc. 3164 Gold Camp Dr.#240 Rancho Cordova, CA/USA 95670 Project: Chevron Former Facility #9-5257

Sampled: 10/26/98 Project Number: 386660.85 Received: 10/27/98

Project Manager: Deanna L. Harding Reported: 11/4/98 13:41

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
			20101				W	
TB-LB			<u>B81061</u>	<u>[0-01</u>	50.0	) ID	<u>Water</u>	
Gasoline Range Hydrocarbons	1180021	11/2/98	11/3/98		50.0	ND	ug/l "	
Benzene	11	n '	11		0.500	ND		
Toluene	**	11	17		0.500	ND	H	
Ethylbenzene	"	н	10		0.500	ND	н	
Xylenes (total)	rr ·		**		1.00	ND		
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		88.3	%	
Surrogate: 4-BFB (PID)	"	"	*	50.0-150		95.8	"	
<u>C-8</u>			<u>B8106</u>	10-02			<u>Water</u>	
Gasoline Range Hydrocarbons	1180021	11/2/98	11/3/98	<del></del>	50.0	ND	ug/l	
Benzene	"	11/2/70	11/3/70		0.500	ND		
	"	17			0.500	ND	•	. '
Toluene	n	н	11		0.500	ND	n	'
Ethylbenzene		**			1.00	ND	•	
Xylenes (total)	,,			50.0-150	1.00	93.3	%	! 
Surrogate: 4-BFB (FID)	,,	,,	Ħ	50.0-150 50.0-150		98.5	"	•
Surrogate: 4-BFB (PID)				30.0-130		90.3		
<u>C-7</u>			B8106	<u>10-03</u>			Water	
Gasoline Range Hydrocarbons	1180021	11/2/98	11/3/98		50.0	237	ug/l	
Benzene	11	**	"		0.500	ND	11	
Toluene	н	£9	11		0.500	ND	**	
Ethylbenzene	н	19	19		0.500	ND	н	
Xylenes (total)	н	19	11		1.00	ND	11	
Surrogate: 4-BFB (FID)	"	H	"	50.0-150		105	%	
Surrogate: 4-BFB (PID)	"	"	n	50.0-150		104	"	
CS			<u>B8106</u>	10-04			<u>Water</u>	
C-5	1180021	11/2/98	11/3/98	1 V - V - V	50.0	120	ug/l	
Gasoline Range Hydrocarbons	1180021	11/2/90	1 1/3/30 H		0.500	ND	n GD1	
Benzene		"	H		0.500	ND	10	
Toluene	,,	"	н		0.500	0.559	n	
Ethylbenzene		 H		**	1.00	1.08	•	
Xylenes (total)	"	<del>"</del>	···		1.00	1.00	%	
Surrogate: 4-BFB (FID)	"	" "	,,	50.0-150			% "	
Surrogate: 4-BFB (PID)	**	"	••	50.0-150		101	••	1

North Creek Analytical - Bothell

\*Refer to end of report for text of notes and definitions.





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 906-9200 = FAX 906-9210

Gettler-Ryan Inc.

Project: Chevron Former Facility #9-5257

Sampled: 10/26/98

3164 Gold Camp Dr.#240

Project Number: 386660.85

Received: 10/27/98

Rancho Cordova, CA/USA 95670

Project Manager: Deanna L. Harding

Reported: 1

orted: 11/4/98 13:41

# Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	<u>%</u>	Limit	%	Notes*
Batch: 1180021	Date Prepared: 11/2/98			Extraction Method: EPA 5030B (P/T)						
Blank	1180021-BI	LKI								1
Gasoline Range Hydrocarbons	11/2/98			ND	ug/l	50.0				1
Benzene	11			ND	n	0.500				
Toluene	ır	•		ND	17	0.500		•.		
Ethylbenzene	н			ND	11	0.500				1
Xylenes (total)	**			ND	**	1.00				
Surrogate: 4-BFB (FID)	10	48.0		42.7	#	50.0-150	89.0			
Surrogate: 4-BFB (PID)	n	48.0		46.5	n	50.0-150	96.9			
LCS	1180021-B	S1								
Gasoline Range Hydrocarbons	11/2/98	500		464	ug/l	70.0-130	92.8			
Surrogate: 4-BFB (FID)	"	48.0		45.6	<u> </u>	50.0-150	95.0		ĺ	i
<u>Duplicate</u>	1180021-D	UP1 B	811001-01							
Gasoline Range Hydrocarbons	11/2/98		ND	ND	ug/l			25.0		
Surrogate: 4-BFB (FID)	"	48.0		37.0	"	50.0-150	77.1			1
Matrix Spike	<u>1180021-M</u>	<u>(S1 B</u>	811009-01							i
Benzene	11/2/98	10.0	ND	8.72	ug/l	70.0-130				į
Toluene	tř	10.0	ND	9.00	*	70.0-130	90.0			!
Ethylbenzene	19	10.0	ND	9.04	H	70.0-130				'
Xylenes (total)	19	30.0	ND	27.3		70.0-130				
Surrogate: 4-BFB (PID)	ii .	48.0		47.5	"	50.0-150	99.0	-		i
Matrix Spike Dup	1180021-M	ISD1 B	811009-01							: !
Benzene	11/2/98	10.0	ND	8.89	ug/l	70.0-130	88.9	15.0	1.93	
Toluene	n	10.0	ND	9.10		70.0-130	91.0	15.0	1.10	
Ethylbenzene	n	10.0	ND	9.12	ю	70.0-130	91.2	15.0	0,881	
Xylenes (total)		30.0	ND	27.4	n	70.0-130		15.0	0.329	
Surrogate: 4-BFB (PID)	n	48.0		47.5	"	50.0-150	99.0			

North Creek Analytical - Bothell

87

Steve Davis, Project Manager

\*Refer to end of report for text of notes and definitions.



BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 906-9200 = FAX 906-9210

Gettler-Ryan Inc.

Project: Chevron Former Facility #9-5257

Sampled: 10/26/98

3164 Gold Camp Dr.#240

Project Number: 386660.85

Received: 10/27/98

Rancho Cordova, CA/USA 95670

Project Manager: Deanna L. Harding

Reported: 11/4/98 13:41

### **Notes and Definitions**

Note

0

Analyte DETECTED

ND

DET

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

Recov

Recovery

RPD

ii

Relative Percent Difference

Data File : C:\HPCHEM\4\DATA\K02035.D\FID1A.CH Acq On

: 3 Nov 1998 1:43 am

Operator: la Inst : GC #8 : B810610-01 : 5 mL Multiplr: 1.00

Vial: 35

Vial: 35

عاملات في المراجعة المراجعة المستقل على المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة

IntFile : SURR.E

Sample

Misc

Data File: C:\HPCHEM\4\DATA\K02035.D\FID2B.CH

Operator: la Acq On : 3 Nov 98 1:43 am : GC #8 Sample : B810610-01 Inst : 5 mL Multiplr: 1.00

Misc . : SURR2.E IntFile

Quant Time: Nov 3 7:45 1998 Quant Results File: TPHG0908.RES

Quant Method: C:\HPCHEM\4\METHODS\TPHG0908.M (Chemstation Integrator)

Title : TPH-G Water Method

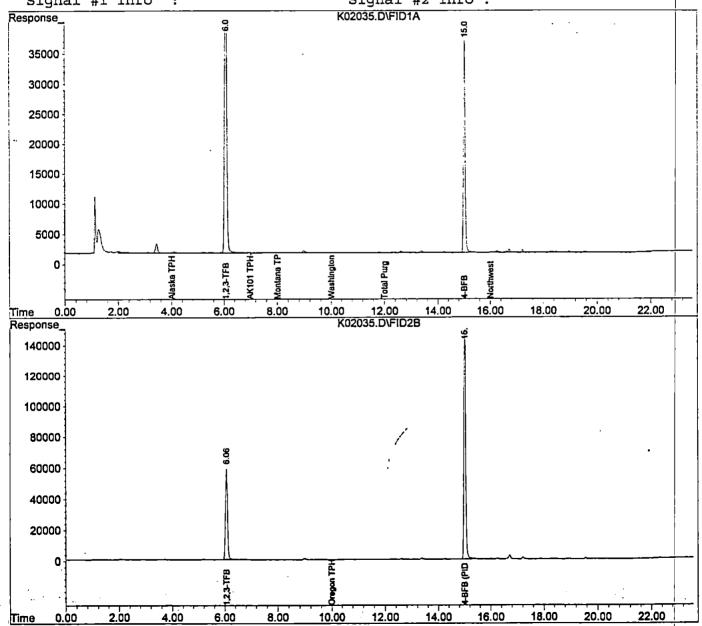
Last Update : Mon Nov 02 14:46:59 1998 Response via : Multiple Level Calibration

DataAcq Meth: TPHG0908.M

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase: Signal #2 Info :



Data File : C:\HPCHEM\4\DATA\K03008.D\FID1A.CH

: 3 Nov 1998 11:26 am

: b810610-02 R1

Vial: 8 Operator: la

Inst : GC #8 Multiplr: 1.00

: 5 mL Misc Intfile : SURR.E

Acq On

Sample

Data File : C:\HPCHEM\4\DATA\K03008.D\FID2B.CH

Vial: 8 Operator: la

: 3 Nov 98 11:26 am Acq On Sample : b810610-02 R1

: GC #8 Inst

Misc : 5 mL Multiplr: 1.00

: SURR2.E IntFile

Quant Time: Nov 3 11:49 1998 Quant Results File: TPHG0908.RES

Quant Method: C:\HPCHEM\4\METHODS\TPHG0908.M (Chemstation Integrator)

: TPH-G Water Method Title

Last Update : Mon Nov 02 14:46:59 1998 Response via : Multiple Level Calibration

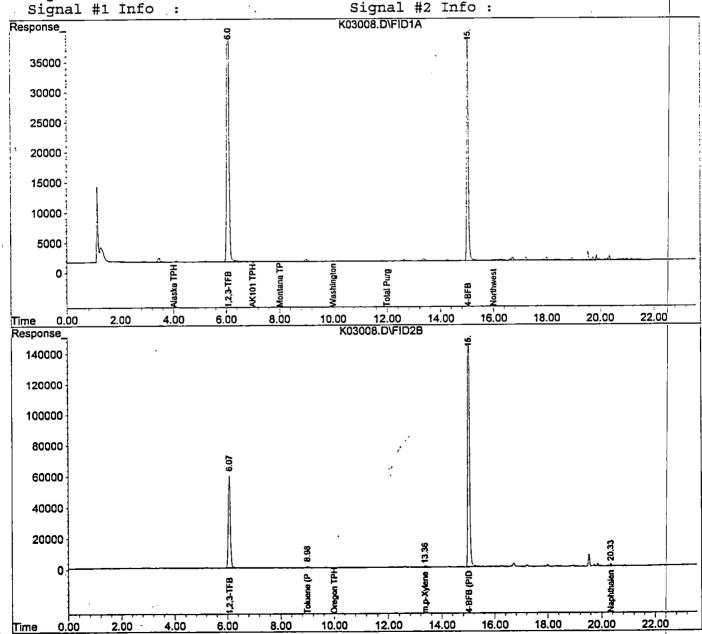
DataAcq Meth: TPHG0908.M

Volume Inj.

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :



Data File: C:\HPCHEM\4\DATA\K03010.D\FID1A.CH
Acg On : 3 Nov 1998 12:25 pm

: 3 Nov 1998 12:25 pm : b810610-03 R1 Vial: 10

: GC #8

Operator: la

Multiplr: 1.00

Inst

IntFile : SURR.E

: 5 mL

Sample

Misc

IntFile : SURR2.E

Quant Time: Nov 3 13:20 1998 Quant Results File: TPHG0908.RES

Quant Method: C:\HPCHEM\4\METHODS\TPHG0908.M (Chemstation Integrator)

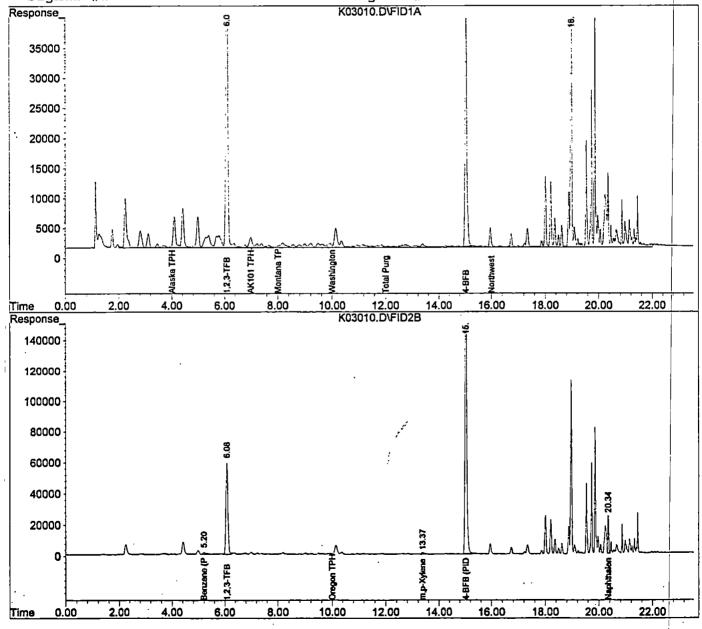
Title : TPH-G Water Method

Last Update : Mon Nov 02 14:46:59 1998
Response via : Multiple Level Calibration

DataAcq Meth: TPHG0908.M

Volume Inj. : Signal #1 Phase :

Signal #1 Phase: Signal #2 Phase: Signal #2 Info: Signal #2 Info:



Data File : C:\HPCHEM\4\DATA\K03011.D\FID1A.CH Acq On

: 3 Nov 1998 12:55 pm

: b810610-04 R1

Sample Misc : 5 mL

IntFile : SURR.E

Data File : C:\HPCHEM\4\DATA\K03011.D\FID2B.CH

: 3 Nov 98 12:55 pm . Acq On

: b810610-04 R1 Sample

: 5 mL Misc : SURR2.E IntFile

Quant Time: Nov 3 13:19 1998 Quant Results File: TPHG0908.RES

Quant Method : C:\HPCHEM\4\METHODS\TPHG0908.M (Chemstation Integrator)

Title : TPH-G Water Method

Last Update : Mon Nov 02 14:46:59 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPHG0908.M

Volume Inj.

Signal #1 Phase :

Signal #2 Phase: Signal #2 Info: Vial: 11

: GC #8

: GC #8

Operator: la

Operator: la

Multiplr: 1.00

Multiplr: 1.00

Vial: 11

Inst

Inst

Signal #1 Info K03011.D\FID1A Response\_ 35000 30000 25000 20000 15000 10000 5000 西 K101 TPH 0 Pung BF8 폋 16.00 20.00 22,00 18.00 6.00 8.00 14.00 2.00 4.00 10.00 12.00 0.00 Time K03011.D\FID2B Response 140000 120000 100000 80000 60000 40000 20000 12.81 0 5 Œ 16.00 18.00 20.00 22.00 14.00 12.00 0.00 2.00 4.00 6.00 8.00 10.00 Time

Fax copy of Lab Report and COC to Chevron Contact: 

No B8/06/0 Chain-of-Custody-Re-Chevron Contact (Name) Mr. Garrick Jauregui Chevron Facility Number Former Facility #9-5257 (Phone) 925-842-8699 Facility Address 8808 271st St., NW. Stanwood, WA NCA Chevron Products Co. Consultant Project Number 386660.85 Laboratory Name \_\_\_\_ Consultant Name Gettler- Ryan Inc., P.O. BOX 6004 Laboratory Service Order 22-02-190 San Ramon, CA 94583 Address 6747 Sierra Court, Suite J. Dublin, CA 94568 Samples Collected by (Name) Frank Cline, Field Technician FAX (925)842-8370 Project Contact (Nome) Deanna L. Harding (Phone) 925-551-7555(Fax Number) 925-551-7899 Signature \_\_ State Method: ☐ CA ☐ OR ₩ Series ☐ CO ☐ UT Remarks 86 Jurgeable Organics (8260) BTEX/MTBE/Noph. (8020) BIEX/MIBE+TPH (8020 + 801 Oil and Grease (5520) 근무 Lab Sample No. BANILO 1026-98/-2 TB US -02 3 12 C-8 -0.3 173 C-7 3 704 6.5 Turn Around Time (Circle Choice) Date/Timey of a liced Y/N Received By (Signature) Organization Date/Time Organization Relinquished By (Signalufe) 10/27/11 NCA 1021-98.107 24 Hrs. G-R Inc. Iced Y/N Date/Ilme Received-By-(Signature) Organization Date/Time Organization Relinquished By (Signature) 5 Days 10 Days Iced Y/N Date/Time Recleved For Laboratory By (Signature) Date/Time Relinquished By (Signature) Organization



# GETTLER-RYAN INC. DEC 31 1998 TRANSMITTAL

DEPT OF ECOLOGY

December 28, 1998

G-R #:386660

TO:

Mr. Ben Forson

Washington Department of Ecology

Northwest Region

3190 160th Avenue, SE

Bellevue, Washington 98008-5452

FROM:

Deanna L. Harding

**Project Coordinator** Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568

Former Chevron SS No. 9-5257 RE:

> 8808 271st Street Northwest Stanwood, Washington

#### WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	December 11, 1998	Groundwater Monitoring and Sampling Report Fourth Quarter 1998 - Event of October 26, 1998

#### COMMENTS:

At the request of Chevron Products Company, we are providing you a copy of the above referenced report. The site is monitored and sampled on a quarterly basis. If you have questions please contact Mr. Garrick Jauregui, Chevron Project Manager, at (925) 842-8699.

#### Enclosure

Mrs. Sue Johnson, 806 South Sundown Lane, Camino Island, WA 98292-8422

agency/9-5257.gj