

Chevron U.S.A. Inc.

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ZXISTUM

C6-01

CALIFORNIA REDIGNAL WATER

JUN 29 1989

QUALITY CONTROL BOARD

June 14, 1989

Ms. Linda L. Spencer
Alameda County Water District
43885 South Grimmer Boulevard
Eremont, California 94537

Re: Former Chevron Facility #91026 3701 Broadway Qaldand, California

Dear Ms. Spencer:

Enclosed are the results of quarterly ground water sampling conducted by Weiss Associates at the above-referenced site. As indicated in the report, all water samples were analyzed for total purgeable petroleum hydrocarbons (TPPH) and aromatic hydrocarbons. Ground water samples from monitoring wells A, B-1, B-2, B-3, B-4, B-6, and B-7 contained benzene the California Department of Health Services (DHS) recommended action level for drinking water. Ground water samples from monitoring wells B-1, B-2, B-3, B-6 and B-7 contained toluene above the DHS recommended action level. Ground water samples from B-2, B-3 and B-7 contained ethylbenzene and xylenes above DHS recommended action levels. A remediation system is being designed for the site. If you have any questions or comments, please contact Lisa Marinaro at (415) 842-2527.

I declare under penalty of perjury that the information contained in the attached report is true and correct and that any recommended actions are appropriate under the circumstances, to the best of my knowledge.

Sincerely, D. Moller

By A. Marinara for CGT

CGT/wa Enclosure

cc: Don Dalke

Regonal Water Quality Control Board
1111 Jackson Street
Oakland, California 94607



2938 McClure Street, Oakland, CA 94609

415-465-1100

JUN 1 6 '89 H.C.H.

June 14, 1989

Lisa Marinaro Chevron USA P.O. Box 5004 San Ramon, CA 94583-0804

> Re: Former Chevron Service Station #91026 Broadway and Mac Arthur Oakland, California WA Job #4-418-01

Dear Ms. Marinaro:

Weiss Associates (WA) collected ground water samples from ten monitoring wells on May 9 and 10, 1989 as part of the quarterly ground water monitoring program at former Chevron Service Station #91026 in Oakland, California (Figure 1). Ground water samples from monitoring wells A, B-1, B-2, B-3, B-4, B-6, and B-7 (Figure 2) contained benzene above the California Department of Health Services (DHS) recommended action level for drinking water. Ground water samples from monitoring wells B-1, B-2, B-3, B-6 and B-7 contained toluene above the DHS recommended action level. Ground water samples from wells B-2, B-3 and B-7 contained ethylbenzene and xylenes above DHS recommended action levels.

GROUND WATER SAMPLING

Robert Hoffman, Andy Rodgers, and Eric Anderson, WA environmental technicians, collected ground water samples from monitoring wells A, F, EA-1, EA-2, B-1, B-2, B-3, B-4, B-6, and B-7 on May 9 and 10, 1989. Monitoring wells C and B-5 were paved over so they could not be sampled this quarter. Prior to sampling, at least four well-casing volumes of ground water, approximately 42 gallons, were purged from monitoring well EA-1 using a steam-cleaned PVC bailer. Monitoring wells A, F, EA-2, B-1, B-2, B-3, B-4, B-6, and B-7 were purged dry with steam-cleaned PVC bailers after evacuating 0.75 to 35 gallons of water and sampled after water levels recovered to about 80 percent of their static water level. Each ground water sample was decanted from a steam-cleaned Teflon sampling bailer into a 40 ml glass volatile organic analysis vial (VOA) with a Teflon septum, preserved with sodium bisulfate



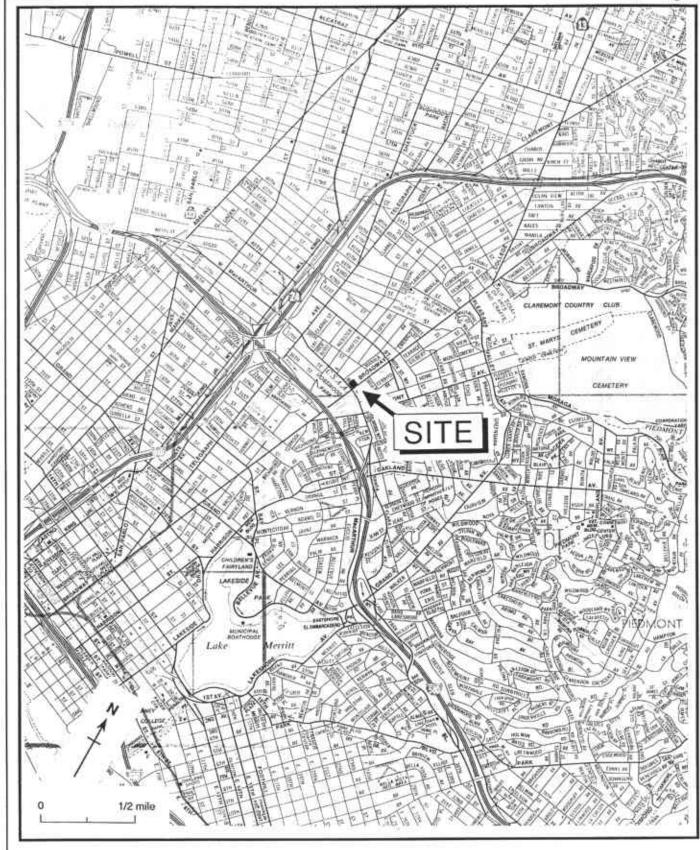


Figure 1. Site Location Map - Former Chevron Service Station #91026, Oakland, California

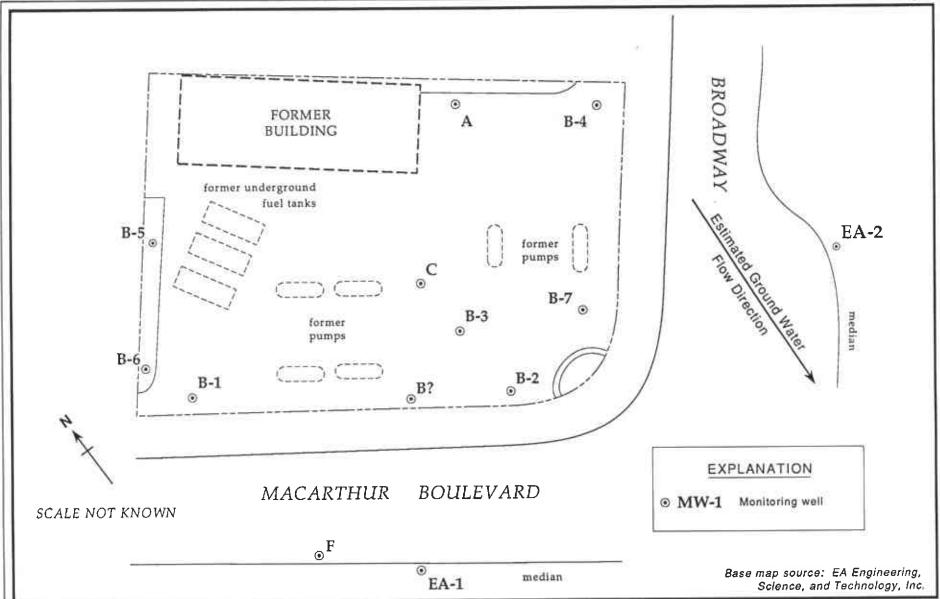


Figure 2. Monitoring Well Locations - Former Chevron Service Station #91026, Oakland, California



Ms. Lisa Marinaro June 14, 1989 4

and refrigerated for transport to Superior Analytical Laboratory, Inc. of San Francisco, California. To reduce the possibility of sample contamination during shipment or storage, each sample was sealed within a plastic guard bottle containing granular activated carbon. The water sample collection records and chain of custody forms are included as Attachments A and B, respectively.

A bailer blank and a travel blank were shipped with the ground water samples. The bailer blank was prepared by pouring deionized water into a clean Teflon sampling bailer prior to sample collection. The water was then decanted from the bailer into a 40 ml VOA, preserved, refrigerated and transported to the laboratory with the ground water samples. A travel blank of certified organic-free distilled water, supplied by the laboratory, accompanied the samples to provide assurance that contamination was not introduced during sample bottle transport or sample storage.

CHEMICAL ANALYSES

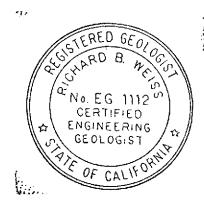
The ground water samples were analyzed for total purgable petroleum hydrocarbons (TPPH) by modified EPA Method 8015 and for benzene, ethylbenzene, toluene, and xylenes (BETX) by EPA Method 602. The results of the water analysis are presented in Table 1 and the analytic reports are included as Attachment C. Ground water samples from all on-site wells contained TPPH above several thousand ppb, with ground water from wells B-2 and B-7 containing concentrations in the order of 200,000 ppb TPPH. Ground water from wells B-1, B-2, B-3 and B-7 contained aromatics at concentrations greater than several thousand ppb.

Ms. Lisa Marinaro

June 14, 1989

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We appreciate the opportunity to provide hydrogeologic consulting services to Chevron and trust that this report meets your needs. If you have any questions, please call Sharon Halper.



Sincerely,

Weiss Associates

Robert E. Kitay Staff Geologist

Richard B. Weiss

Principal Hydrogeologist

REK/RBW

C:\WP50\CHEVRON\QMLETTER\418L1JU9.WP

Attachments: A - Water Sample Collection Records

B - Chain of Custody C - Analytic Reports

TABLE 1. Analytic Results for Ground Water - Former Chevron Service Station #91026, Oakland, California

Sample ID	Date Sampled	Analytic Lab	Analytic Method	TPPH	В	Ε Ε	T ppb	X
Α	5-09-89	SUP	8015/602	11,000	260	94	<2	230
С	5-09-89*					•••		
F	5-09-89	ŞUP	8015/602	<500	<0.5	<0.5	0.6	1.0
EA-1	5-09-89	SUP	8015/602	<500	<0.5	<0.5	<0.5	<0.5
EA-2	5-09-89	SUP	8015/602	760	<0.5	1.1	<0.5	<0.5
B-1	5-10-89	SUP	8015/602	16,000	2,300	81	260	740
B-2	5-09-89	SUP	8015/602	170,000	30,000	2,300	8,400	12,000
8-3	5-10-89	SUP	8015/602	70,000	12,000	1,400	9,500	8,900
B-4	5-10-89	SUP	8015/602	3,600	840	120	34	200
B-5	5-09-89*							
B-6	5-09-89	SUP	8015/602	26,000	120	250	110	1,300
B-7	5-10-89	SUP	8015/602	210,000	13,000	2,000	19,000	20,000
Travel Blank	5-10-89	SUP	8015/602	<500	<0.5	<0.5	<0.5	<0.5
Bailer 8lank	5-10-89	SUP	8015/602	<500	<0.5	<0.5	<0.5	<0.5
DHS Action Levels				NAL	1	680	100	1,750

Abbreviations:

TPPH = Total Purgable Petroleum Hydrocarbons

B = Benzene

E = Ethylbenzene

ĭ = Toluene

X = Xylenes

DHS Action Levels = Department of Health Services
Recommended Drinking Water Action Levels

NAL = No action level established by DHS

* = Could not be sampled

Analytic Laboratory:

SUP = Superior Analytical Laboratory of San Francisco, California

Analytic Methods:

8015 = Modified EPA Method 8015, TPPH 602 = EPA Method 602, Purgeable Aromatics

ATTACHMENT A WATER SAMPLE COLLECTION RECORDS

	End	Other		
WELL DATA: Well ty	pe M			<pre>- monitoring well)</pre>
Depth to Water 14,	0구 ft (pum	p/stat) Ma	ximum Drawdown Limi	t (MDL) ft
Well depth <u>20.</u>	08 ft (so	unded) We	11 depth	ft (spec)
Well diameter 2	in. TOC heigh	ht above gr	ound <u> </u>	er elev ft
Volume Evacuated:	<u>Pumped</u>	Pumped		
Time: Stop $_$			13:09	Formulas/Conversions
Start _		/	12:36	r = well radius in ft
Total hrs/min _		· ·	;33	h = ht of water col in ft vol, in cyl, = #r2h
Total Evacuated _	2.0 gal	•		7.48 gal/ft ³
Evacuation Rate _	gpm			V2" casing = 0.163 gal/ft V3" casing = 0.367 gal/ft V4" casing = 0.653 gal/ft
			** 1 · 17 *	V_A " casing = 0.653 gal/ft
Pump # and type _	Bail	er # and ty	pe Teflunbailur #CC	V _{4.5} " casing = 0.825 gal/ft V ₆ " casing = 1.47 gal/ft
Hose # and type _				V ₆ " casing = 1.4/ gal/it V ₈ " casing = 2.61 gal/ft
Camalina Dambi. Da		*********	1	
Sampling Port: Ra	ceg	рш уотише	gar.	
Location/descripti				
Initial height of	water in casi	na - 601	ft volume =	.98 gal. ×4 vol.
Evacuation at draw	down limit =	3 v initial		gal.
Evacuation at samp				gal.
			acuated = 3.92	
Water Color:	NON=		Odor: Respirator	
			ter in sample:	
•	•			
		medic	on Susanded solt	
Pumped dry? 145	ing pumping _ After ≥ g	pails # CC ft al. Recove	time Sampling ry rate	16.92 ft 17:07 time 2
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oil larence small present

Υ.	ER SAMPLING DATA Well Name F Date 5/9/69 Time 13:40/15:	3
	Name/Number CHEV. OAK III Initials 1814	
	V Spring Surface Other	
Lo	ation LEFT LANE OF MACAURTHER BLUD.	
WE	_ DATA: Well type (Describe; M - monitoring well)	
Dε	th to Water 18.70 (ft) (pump/stat) Maximum Drawdown Limit (MDL) NA ft	
₩e	depth 19.63 (ft) (sounded) Well depth WA ft (spec)	
We	diameter 2 (in.) TOC height above ground — ft Water elev. — ft	
V	ume Evacuated: Pumped Pumped Bailed	
	Time: Stop / /3/39 Formulas/Conversions	į
	Start / /3:36 r = well radius in ft	i
	fotal hrs/min h = ht of water col in ft vol. in cyl. = $\pi r^2 h$!
To	al Evacuated < .25 gaD 7.48 gal/ft ³	i
E٦	cuation Rate onm V ₂ " casing = 0.163 gal/ft	
	V ₃ " casing = 0.367 gal/ft	
P۱	# and type $\frac{MA}{}$ Bailer # and type $\frac{2TEFB}{}$ $V_{4.5}^{"}$ casing = 0.653 gal/ft $V_{4.5}^{"}$ casing = 0.826 gal/ft	s !
	V_c casing = 1.47 gal/ft	
	V ₈ " casing = 2.51 gal/ft	1
Sa	oling Port: Rate NA gpm Volume NA gal.	
L	ation/description N/A	
Lı	tial height of water in casing = ft; volume = gal.	
	cuation at drawdown limit = 3 x initial volume = gal.	
E١	cuation at sampling point = 1 x initial volume = gal.	
	Total to be evacuated = gal.	
Wa	er Color: 6NEY/BLACK Odor: NONE WOTICED	
De	cription of sediment and/or foreign matter in sample:	
	ery LIGHT SEMI FLOATING BLACK MATTER	
P	nt of collection: END OC 2' B TEC. BAILER.	
De	th to water during pumping ft time Sampling 19.25 (ft 15:30 time	
Pı	ped dry? Y After 25 gal Recovery rate	
Al	ITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather,	
v	running nearby, problems with equipment or sampling, etc., pump on/off	
v:	es, etc. (over).	. سنين
v: <u>t:</u> Cl	es, etc. (over).	ું
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t: Cl To	MICAL DATA perature N/A°C Thermometer # N/A Specific Conductance N/A umhos MICAL DATA perature N/A°C Thermometer # N/A Specific Conductance N/A umhos MPLES Collected: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O No. (Specify) (N = No) (R = Refrigerated) Analysis Lab MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O MPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) O	_
t: Cl To	MICAL DATA perature N/A°C Thermometer # N/A Specific Conductance N/A umhos AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) No. (Specify) (N - No) (R - Refrigerated) Analysis Lab Squis F2 40 ml ml ml ml	_
t: Cl To	MICAL DATA perature NAOC Thermometer # NA Specific Conductance NA umhos OC MAPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) (Specify) (N = No) (R = Refrigerated) Analysis Lab SOCIONAL CAPACITY SOCIONAL CAPACITY NA NAMESON GAS + DETX SOCIONAL CAPACITY NA NAMES	_
t: Cl To	AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) No. (Specify) (N = No) (R = Refrigerated) Analysis Lab Cay (Size, u) (R = Refrigerated) Analysis Lab Cay (Specify) (N = No) (R = Refrigerated) Analysis Survey MACAL DATA DAT	_
ti Cl To	AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ONO. (Specify) (N - No) (R - Refrigerated) Analysis Lab Squis F2 40 ml	_
ti Cl To	AMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) No. (Specify) (N = No) (R = Refrigerated) Analysis Lab Cay (Size, u) (R = Refrigerated) Analysis Lab Cay (Specify) (N = No) (R = Refrigerated) Analysis Survey MACAL DATA DAT	_

Job Name/Number Gw Ok III 4-418-01 Well & Spring Surface Other	Time 13:05 Initials 2:17
Location Macarthe Blogs	
WELL DATA: Well type (Describe; M	- monitoring well)
Depth to Water /4.56 ft (pump/stat) Maximum Drawdown Limit	it (MDL) it
Well depth 30.27 (ft) (sounded) Well depth	
Well diameter 4 in. TOC height above ground — ft Wat	ter elev ft
Volume Evacuated: Pump#d Pumped Bailed	
Time: Stop	Formulas/Conversions
Start	r - well radius in ft
Total hrs/min :45	h = ht of water col in ft
Total Evacuated 42 gal.	vol. in cyl. = Wr ² h
	7.48 gal/ft ³
Evacuation Rate O.93 gpm	V_2 " casing = 0.163 gal/ft V_3 " casing = 0.367 gal/ft
Pump # and type Bailer # and type Supled Fellon # Hose # and type	Wa" casing = 0.553 gal/fb
Pump # and type Bailer # and type #	V casing - U.826 gal/ft
Hose # and type	Vs" casing = 1.47 gal/ft
	V8" casing = 2.61 gal/ft
Sampling Port: Rate gpm Volume gal. Location/description	
Initial haight of various in agains 1571 for malama	1075 m1 x 4=
Initial height of water in casing - 15.71 ft; volume	10.23 gar.
Evacuation at drawdown limit - 3 x initial volume -	_ gal.
Evacuation at sampling point = 1 x initial volume =	gal.
Total to be evacuated = 41.03	_ gal.
Water Color: Charles Ton Odor: No	
Description of sediment and/or foreign matter in sample: V.	ry fine Silt
Description of Seatment and/of foreign matter in Sample.	J - 1 m2 - 3113
Point of collections of a t CM 131 #	
Point of collection: End of feftin boils # C-	
Depth to water during pumpingft time Sampling	1409 it 12:57 time
Primpod driv? K. After a gol Deserver water	
rumped dry: _/o_ Arter gar. Recovery rate	
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITION	NS, e.g., weather,
Pumped dry? After gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITION van running nearby, problems with equipment or sampling, etc.	NS, e.g., weather,
van running nearby, problems with equipment or sampling, etc.	NS, e.g., weather,
van running nearby, problems with equipment or sampling, etc. times, etc. (over).	NS, e.g., weather,
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA	NS, e.g., weather,
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductant	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductant	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.03 7.0, 10.0 Calibration	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.94 4.0, 7.03 7.0, 10.0 Calibration SAMPLES COLLECTED:	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.97 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.97 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative	NS, e.g., weather, ., pump on/off nce umhos
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify)	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.63 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.74 4.0, 7.63 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS 9418-EAI 40 ml C/J N N NL 1500. R	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.94 4.0, 7.63 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS 9418-EAI 40 ml C/J N	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.94 4.0, 7.c1 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS9418-EAI 40 ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS9418-EAI 40 ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.94 4.0, 7.c1 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS9418-EAI 40 ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OS9418-EAI 40 ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.44 4.0, 7.61 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) OS 9418-EAI 40 ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.94 4.0, 7.e3 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) OS 9418-EAI 40 ml ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.74 4.0, 7.03 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OSTITIONAL MALESON R ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.4 4.0, 7cl 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OSTUB-EAL 40 ml ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # Specific Conductar pH 6.4 Calibration 3.74 4.0, 7.03 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OSTITIONAL MALESON R ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.4 4.0, 7cl 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OSTUB-EAL 40 ml ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C Analysis Lab bast NETX SUR
van running nearby, problems with equipment or sampling, etc. times, etc. (over). CHEMICAL DATA Temperature 20 °C Thermometer # — Specific Conductar pH 6.4 Calibration 3.4 4.0, 7cl 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) OSTUB-EAL 40 ml ml ml ml ml ml ml ml	NS, e.g., weather, ., pump on/off nce umhos n Temp. /8 °C Analysis Lab bast NETX SUR

			-/ _c	100	11	`
WATER SAMPLING DATA		EA-2 1	Date	789	Time //	1 2
· · · · · · · · · · · · · · · · · · ·		AK. TIL	4-4	18-0	Initials _	RH/AR
	Surface					······································
		of Bro				
WELL DATA: Well type		m		cribe; M = :		
Depth to Water 15.						A ft
Well depth 30.11		-			_ ft (spec)	
Well diameter 4 in	-				elevW	<u>///</u> IC
	Pumped	<u>Pumped</u>	Baile	T. 200		
Time: Stop Start	-/				rmulas/Conversi = well radius i	
Total hrs/min	-/		<i></i>	<u> </u>	<pre>- well radius r - ht of water c</pre>	1
Total Evacuated	ැ ිට gal				1. in cyl. = #r	2 _h
Evacuation Rate	gpn				48 gal/ft ³ " casing = 0.16	3 gal/ft.
	6P"	Purch	C-#11 3	1 PVC v_3^2	" casing = 0.36	
Pump # and type N/	A Rail	er # and ty		11.11	" casing = 0.65	
Hose # and type	<u>,, </u>	A-" and cy	pc <u>33-p,0-</u>	Ve Ve	.5" casing = 0. " casing = 1.47	ozo gai/it gal/ft
				v ₈	" casing = 2.61	gal/ft
Sampling Port: Rate	N/A E	pm Volume	NA	gal.		
Location/description		NA				
, .						
Initial height of wa	ter in casi	$ng = \frac{14}{6}$	ft; vo	olume - 9 .	2 gal./	x4 -
Evacuation at drawdo					al.	
Evacuation at sampli	ng point =	$1 \times initial$	volume =		al. ,	
_		al to be ev	acuated =	37 g	al.	
Water Color:C	lordy ton	white	0dor: /	101VE - HE	of to sell	of Broading
Description of sedim	ent and/or	foreign mat	ter in sam	ple: Vv	Fire Silt	
Point of collection:	Frd of	teffen beile	-tL-			
Depth to water during	g pumping _	ft		Sampling /6.	12(fd 16:16	⊙ time
Pumped dry? Af				· · · · · · · · · · · · · · · · · · ·		.
ADDITIONAL COMMENTS,						
van running nearby,	problems wi	th equipmen	t or sampl	ing, etc.,	pump on/or:	Ľ
times, etc. (over).						
Temperature W	Thermone	- 4 N/A-		Conductance		
	1 .		_			
pH Calibration	1 4.0,	<u> </u>	-10.0 Ca	alibration T	emp	oC .
•						•
SAMPLES COLLECTED:	٠. د					
	Bottle/	Filtered	Preservat	ive		
Sample		(size, u)				
ID No.			(R = Refr	igerated)	Analysis	Lab
059418-EAZ 40(m)	<u>c/v</u>	_ N	_ /C N	AHSOU GA	13 + BETX	<u> 50P.</u>
ml						-
m1						-
ml						i.
<u> ml</u>						-
<u> ml</u>		-			-	
ml						-
ml						
ml						_
ш			•			
Bottles: P = Poly	zethvlene: Y	Pp = Polypro	pvlene: C	or B =	Clear/Brown	n Glass:
	er (describe		ry rono, o			
Additional Cap Cod		•	= VOA/Tefl	lon septa; M	f = Metal	
~			•			

Total Evaluation of the Evalua	Spring Scation USED (LL DATA: Well type pth to Water /2.58 11 depth /5.20 11 diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type mpling Port: Rate cation/description	Surface CAA (ft) (pump (ft) (sou) TOC heigh Fumped 1,2 gal 2 gpm Baile N/A gr	Other Ot	trimum Drawdow Il depth ound Bailed 74:55 14:49 :06	ibe; M = wn Limit N/A Et Wate Pry	Time to Initials / Ini	vell) ft ft inft gal/ft gal/ft gal/ft
Total Evaluation of the Evalua	Spring Scation USED Cation USE	Surface CAA (ft) (pump (ft) (sou) TOC heigh Fumped 1,2 gal 2 gpm Baile N/A gr	Other Ot	(Description Drawdow Pround Pr	ibe; M = wn Limit N/A Et Wate Pry	formulas/Conversion Formulas/Conversion r = well radius in the ht of water colvol. in cyl. = \pi^2 7.48 gal/fd V ₄ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.653	ft ft in ft gal/ft gal/ft gal/ft
Total Evaluation of the Evalua	Spring Scation USED Cation USE	Surface CAA (ft) (pump (ft) (sou) TOC heigh Fumped 1,2 gal 2 gpm Baile N/A gr	Other Ot	(Description Drawdow Pround Pr	ibe; M = wn Limit N/A Et Wate Pry	formulas/Conversion Formulas/Conversion r = well radius in the ht of water colvol. in cyl. = \pi^2 7.48 gal/fd V ₄ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.653	ft ft in ft gal/ft gal/ft gal/ft
Well Loc Well Vol	Spring Scation USED (LL DATA: Well type pth to Water /2.58 11 depth /5.20 11 diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type mpling Port: Rate cation/description	Surface CAN (ft) (pump (ft) (sou) TOC heigh Pumped 1,2 gal 2,2 gpm Baile N/A gr	Other Ot	(Description Drawdow Pround Pr	ibe; M = wn Limit N/A Et Wate Pry	formulas/Conversion Formulas/Conversion r = well radius in the ht of water colvol. in cyl. = \pi^2 7.48 gal/fd V ₄ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.653	ft ft in ft gal/ft gal/ft gal/ft
Loc WEI Dep Wel Wel Vol Tot Eva Pur Hos Sar Loc	cation USED C LL DATA: Well type pth to Water /2.58 ll depth /5.20 ll diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wate	ft)(pumped) ft)(sou) TOC height Fumped 1,2 gal. 2 gpm Baile N/A gr	p/stat) Ma unded) We nt above gr Pumped	trimum Drawdow Il depth ound Bailed 74:55 14:49 :06	wn Limit N/A Et Wate Pry	ft (spec) ft (spec) fr elev/_/ Formulas/Conversion r = well radius in h = ht of water col vol. in cyl. = \pi^2 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.853 V ₄ " casing = 0.853	ft ft in ft gal/ft gal/ft gal/ft
Total Evaluation of Evaluation	LL DATA: Well type pth to Water 12.58 ll depth 15.20 ll diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type mpling Port: Rate cation/description itial height of wate	ft)(pumped) TOC height Fumped 1,2 gal. 2 gpm Baile	p/stat) Ma inded) We nt above gr Pumped	trimum Drawdow Il depth ound Bailed 74:55 14:49 :06	wn Limit N/A Et Wate Pry	ft (spec) ft (spec) fr elev/_/ Formulas/Conversion r = well radius in h = ht of water col vol. in cyl. = \pi^2 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.853 V ₄ " casing = 0.853	ft ft in ft gal/ft gal/ft gal/ft
Der Wei Wei Vol	pth to Water /2.58 Il depth /5.70 Il diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type MA se # and type mpling Port: Rate cation/description itial height of wat	ft)(pumped) Toc heigh Pumped 1,2 gal 2 gpm Baile	p/stat) Ma unded) We nt above gr Pumped	trimum Drawdow Il depth ound Bailed 74:55 14:49 :06	wn Limit N/A Et Wate Pry	ft (spec) ft (spec) fr elev/_/ Formulas/Conversion r = well radius in h = ht of water col vol. in cyl. = \pi^2 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₄ " casing = 0.653 V ₄ " casing = 0.853 V ₄ " casing = 0.853	ft ft in ft gal/ft gal/ft gal/ft
Well Well Well Well Well Well Well Well	11 depth 15.70 11 diameter 2 in 11 diameter 2 in 11 diameter 2 in 11 diameter 2 in 12 in 12 can 13 can 14 can 15 can 16 can 16 can 16 can 16 can 17 can 18 c	ft)(sou) TOC heigh Pumped 1,2 gal 2 gpm Baile	er # and ty	11 depth 10	Et Wate	ft (spec) er elev	ft ft gal/ft gal/ft 26 gal/ft
Volument Vol	Il diameter 2 in lume Evacuated: I Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	TOC heigh Pumped 1,2 gal 2 gpm Baile N/A gr	er # and ty	ound A A Bailed 74.55 14.49 :06	Pry	Formulas/Conversion r = well radius in h = ht of water col vol. in cyl. = \pi^21 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₃ " casing = 0.367 V ₄ casing = 0.653 V ₄ casing = 0.85	ft
Tot Eva Pur Hos Sar Loc In: Eva	lume Evacuated: Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	Pumped 1,2 gal ,2 gpm Baile	Pumped . er # and ty	### Bailed 74.55 74.49 106 1	Pry	Formulas/Conversion r = well radius in = ht of water colvol. in cyl. = 7 r ² 1 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₃ " casing = 0.367 V ₄ casing = 0.653 V ₄ casing = 0.82	ft
Tot Eva Pur Hos Sar Loc In: Eva	Time: Stop Start Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	1,2 gal. ,2 gpm Baile N/A gr	er # and ty	74:55 14:49 :06	FF"	r = well radius in h = ht of water col vol. in cyl. = \pi^2 7.48 gal/ft^3 V_2" casing = 0.163 V_3" casing = 0.367 V_4" casing = 0.653 V_4 casing = 0.82	gal/ft gal/ft gal/ft gal/ft
Eva Pur Hos Sar Loc In: Eva	Start Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	2 gpm Baile	er # and ty	14:49 :06 The 7 TEF.	FF"	r = well radius in h = ht of water col vol. in cyl. = \pi^2 7.48 gal/ft^3 V_2" casing = 0.163 V_3" casing = 0.367 V_4" casing = 0.653 V_4 casing = 0.82	gal/ft gal/ft gal/ft gal/ft
Eva Pur Hos Sar Loc In: Eva	Total hrs/min tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	2 gpm Baile	er # and ty	pe 7 TEF.	<u>-</u> FF "	h = ht of water colvol. in cyl. = 7/r ² 1 7.48 gal/ft ³ V ₂ " casing = 0.163 V ₃ " casing = 0.367 V ₄ " casing = 0.653 V ₄ s" casing = 0.82	gal/ft gal/ft gal/ft gal/ft
Eva Pur Hos Sar Loc In: Eva	tal Evacuated acuation Rate mp # and type se # and type mpling Port: Rate cation/description itial height of wat	2 gpm Baile	er # and ty	pe 7 TEF.	<u>FF</u> "	7.48 gal/ft ³ V ₂ " casing = 0.163 V ₃ " casing = 0.367 V ₄ " casing = 0.653 V ₄ s" casing = 0.82	gal/ft —— gal/ft gal/ft 26 gal/ft
Eva Pur Hos Sar Loc In: Eva	acuation Rate mp # and type MA se # and type mpling Port: Rate cation/description itial height of wat	2 gpm Baile	er # and ty	pe <u>7 Tef. (</u>	<u>FF</u> "	V ₂ " casing = 0.163 V ₃ " casing = 0.367 V ₄ " casing = 0.653 V ₄ s" casing = 0.82	gal/ft gal/ft 26 gal/ft
Hos Sar Loc In: Eve	se # and type mpling Port: Rate cation/description itial height of wat	Baile N/A N/A gr		pe <u>7 Tef. (</u>	<u>FF</u> " :	V ₄ " casing = 0.653 V _{4 5} " casing = 0.83	gal/ft 26 gal/ft
Hos Sar Loc In: Eve	se # and type mpling Port: Rate cation/description itial height of wat	N/A gi			 ,	V_{45}^{2} casing = 0.82	26 gal/ft
Hos Sar Loc In: Eve	se # and type mpling Port: Rate cation/description itial height of wat	N/A gi			 ,	V ₆ " casing = 1.47 V ₈ " casing = 2.61	gal/ft
Loc In: Eva	cation/description itial height of wat		pm Volume	N/A		V ₈ " casing = 2.61	gal/ft
Loc In: Eva	cation/description itial height of wat		pm Volume	N/A			3,
In: Eva	itial height of wat				gal.	•	1
Eva	itial height of wat			MA	- -		
Eva	itial height of wat		01 1 =			117	:
		ter in casir	ng = 2.62	(ft), volu	ne = <u>/</u>	<u>7 </u>	45).
EV	acuation at drawdov				<u> </u>	gal.	-
	acuation at samplin					gal.	
T T	0.1 Caras 1		al to be ev	acuated = /	. 7	gal.	18401
	ter Color: <u>Green</u> / scription of sedime			udor: very	rend na	my Strong	Truci
Lie.	dum to fine susp	ent and/or	Loreign mat	icer in sample	i. T.#	ير د دلار	ninutes
Po	int of collection.	End of I	alla bila	SC SCILLES	ID POILON	WANG Z M	NIND FES
De ₁	pth to water during	g pumping /	N/A ft N/	A time Sam	oling /7	.84 ft 9:20	time
Pui	mped dry? Y Aft	ter / 2 6	AL Recove	ry rate -	_ `_	<u> </u>	
ADI	DITIONAL COMMENTS,	LOCATION SI	KETCH, ENVI	RONMENTAL COL	NDITIONS	, e.g., weatl	ner,
	n running nearby, p	problems, wit	th equipmen	t or sampling	g, etc.,	pump on/off	
	mes, etc. (over).	No lock			4		
	EMICAL DATA			N. Carlotte	. =	N/A umbo	
Tei	mperature M/A- °C	Thermometer	r # <u>N/A</u> -	Specific Co	nductano	ce ///// umhos	\$
На	MA-Calibration	N/A40 -		10.0 Calii	hration	Temp o	1 40
F	<u> </u>		,	_ 10.0 0011.	31401011		ins. F
ç	SAMPLES COLLECTED:						- 100 m
		Bottle/	Filtered	Preservative	<u>.</u>),
2 bottles 5	Sample	Сар	(size, u)		-		· ·
	ID No.	(Specify)	(N - No)	(R = Refrige	erated)	Analysis	Lab
`	259418-B1 40 ml	c/v		Natton	R	Gas FBFIX	SUP
^/ -	ml			Tansy -			
_							:
-							 ,
-	ml.	,					
_	m1 '						
_	ml						
_	m1						
_	∞* · · * m1						
	ml						
			_				
3	Bottles: $P = Polye$			pylene; C o	r B -	Clear/Brown	Glass;
	0 = Other Additional Cap Code	r (describe)	•				

WATER SAMPLING DATA Well Name 3-2 Date 5/9/89 Time 12:55-5/1
Job Name/Number CHEV. OAK THE Initials RH
Well V Spring Surface Other
Location Used CAR LOT MACAURTHER SIDE
WELL DATA: Well type (Describe; M - monitoring well)
Depth to Water 14.58 (ft) (pump/stat) Maximum Drawdown Limit (MDL) WA ft
Well depth 19.05 (ft) (sounded) Well depth N/A ft (spec)
Well diameter 2 (in) TOC height above ground W/A ft Water elev. MA ft
Volume Evacuated: Pumped Pumped Bailed
Time: Stop
Start / (0.5) r = well radius in ft h = ht of water col in ft
vol in cyl = $\frac{1}{1}$
Total Evacuated 1.9 gal. 7.48 gal/ft ³
Evacuation Rate gpm v_2 " casing = 0.163 gal/ft v_3 " casing = 0.367 gal/ft
7 -+ (C (V, casing = 0.653 gal/ft
Pump # and type WA Bailer # and type 7 TELE V4" casing = 0.653 gal/ft V4.5" casing = 0.826 gal/ft
Hose # and type V6" casing = 1.47 gal/ft V8" casing = 2.61 gal/ft
1.
Daniel Told Told Told But Tolding Tolding
Location/description
Initial height of water in casing = 4.47 (ft) volume = $.72$ (gal) $\times 4^{-}$)
Initial height of water in casing = 1.97 (it) volume = 1.72 (gal).
Evacuation at drawdown limit - 3 x initial volume - gal.
Evacuation at sampling point = 1 x initial volume = gal
Total to be evacuated = 2.91 gal!
Water Color: Lit. Tan Odor: Respirator worn
Description of sediment and/or foreign matter in sample: Lihin Suspeled Silt
Point of collection to bends of Oil or ses sticking to side of von
Point of collection: END OF 21 TEF." EE"
Depth to water during pumping ft time Sampling 14.95 ft 12:54 time Pumped dry? Y After 1.9 (ga). Recovery rate
ADDITIONAL COMPANYS LOCATION CVENCIL ENVIRONMENTAL CONDITIONS AS THE PARTY OF THE P
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather,
ADDITIONAL COMMENTS LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked
van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Uself not locked CHEMICAL DATA
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked
van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Uself not locked CHEMICAL DATA
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature Calibration 4.0, 7.0, 10.0 Calibration Temp. Conductance AIC = 200 CCS = 200 DDM GASSLINE
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature Calibration 4.0, 7.0, 10.0 Calibration Temp. Conductance AIC = 200 CCS = 200 DDM GASSLINE
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration4.0,7.0, 10.0 Calibration Temp OC SAMPLES COLLECTED: AIR = 200 CC5 = 200 ppm GASOLINE
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature Calibration 4.0, 7.0, 10.0 Calibration Temp. C SAMPLES COLLECTED: Bottle/ Filtered Preservative
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature C Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. C AIR = Zoo CCs = Zoo ppm GASoline Samples Collected: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC AIR = Zoo CCs = Zoo ppm GASOLINE SAMPLES COLLECTED Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Coll not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC AIR = Zoo CCs = Zoo ppm GASoline Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab OS9418-B2 40 ml ml
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli nst lacked CHEMICAL DATA Temperature C Thermometer # Specific Conductance unhos pH Calibration
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC AIR = 200 CC5 = 200 ppm GASOLING SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab OS9416-B2 40 ml NHSU, R Cap+BCTX SR ml ml ml ml ml
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucll not locked CHEMICAL DATA Temperature OC Thermopeter # Specific Conductance
ADDITIONAL COMMENTS LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucli not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration4.0,7.0,10.0
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucll not locked CHEMICAL DATA Temperature OC Thermopeter # Specific Conductance
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucll not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC AIR = 200 CC5 = 200 ppm GASOLINGE SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab OSQUE-B2 40 ml
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Usell not locked CHEMICAL DATA Temperature
ADDITIONAL COMMENTS: LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Ucll not locked CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC AIR = 200 CC5 = 200 ppm GASOLINGE SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab OSQUE-B2 40 ml

Job Name/Number Chara Oakland - Mac and B-way 4-418-01 Initials 5WA
The removing the state of the s
Well _√ Spring Surface Other
Location N. of B-2 5. of C
WELL DATA: Well type M (Describe; M - monitoring well)
Depth to Water 14.2 ft (pump/stat) Maximum Drawdown Limit (MDL) — ft Well depth /8,91 ft (sounded) Well depth — ft (spec)
Well depth 18.91 ft (sounded) Well depth ft (spec) Well diameter 2 in. TOC height above ground ft Water elev ft
Volume Evacuated: Pumped Pumped Bailed
Time: Ston
Start
Total hrs/min / 2.7 h = ht of water col in ft
Total Evacuated 2 gal. (vol. in cyl. = \pi r h 7.48 gal/ft ³
Evacuation Rate gpm V ₂ " casing = 0.163 gal/ft
V ₃ " casing = 0.367 gal/ft V ₄ " casing = 0.653 gal/ft
Pump # and type Bailer # and type V _{A 5} " casing = 0.826 gal/ft
Hose # and type V6" casing = 1.47 gal/ft
V ₈ " casing = 2.61 gal/ft
Sampling Port: Rate gpm Volume gal.
Location/description
Initial height of water in casing = 4.71 ft; volume = .77 gal. ×4 vols
Evacuation at drawdown limit = 3 x initial volume = gal.
Evacuation at drawdown limit = 3 x initial volume = gal. Evacuation at sampling point = 1 x initial volume = gal.
Total to be evacuated = $\frac{3.07}{9}$ gal. $\frac{3.77}{9}$ = 80%
Water Color: hone Odor: vespirator worn
Description of sediment and/or foreign matter in sample: Slight 505pouled
fines 0
Point of collection: End of fetton buler "OD"
Depth to water during pumping _ ft _ time Sampling 15,20 ft 14.18 time
Pumped dry? Yes After 2 gal. Recovery rate .003 gal/min
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e/g., weather,
van running nearby, problems with equipment or sampling, etc., pump on/off
times, etc. (over). hot locked
times, etc. (over). hot locked CHEMICAL DATA
times, etc. (over). hot locked
times, etc. (over). hot locked CHEMICAL DATA
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. °C
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. °C SAMPLES COLLECTED:
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. °C SAMPLES COLLECTED: Bottle/ Filtered Preservative
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp °C SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify)
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. °C SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp °C SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify)
CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. C SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab O59418-B3 40 ml CV N Nother
Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. oc SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab O59418-B3 40 ml c/v N NoHSoy Q GastBETX Sep.
Times, etc. (over). Not locked CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab C59 418 - B3 40 ml C/V N Nah Sou P Gast BETX Sep. ml ml
Times, etc. (over). hot looked CHEMICAL DATA Temperature
times, etc. (over). hot looked CHEMICAL DATA Temperature
times, etc. (over). As hocked CHEMICAL DATA Temperature C Thermometer # Specific Conductanceumhos pH Calibration 4.0, 7.0, 10.0 Calibration Tempoc SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab O59 418 - B3 40 ml
times, etc. (over). Not locked CHEMICAL DATA Temperature
times, etc. (over). As hocked CHEMICAL DATA Temperature C Thermometer # Specific Conductanceumhos pH Calibration 4.0, 7.0, 10.0 Calibration Tempoc SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab O59 418 - B3 40 ml
times, etc. (over). Ast locked CHEMICAL DATA Temperature C Thermometer # Specific Conductance umhos PH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab O59 418 -B3 40 ml
times, etc. (over). Not locked CHEMICAL DATA Temperature

11:04

~ Ş	WATER SAMPLING DATA Well Name B-4 Date 5/9/89 Time 12:08
	Job Name/Number CHEVRON Owkland - Mac - B-way 4 - 418-01 Initials Att RH/EWA
	Well V Spring — Surface, — Other —
	Location NE come of site
	Well depth 19.37 ft (sounded) Well depth ft (spec)
	Well diameter 2 in. TOC height above ground ft Water elev ft
	Volume Evacuated: Pumped Bailed Ballus Off
	Potingras/conversions
	Start r = well radius in ft
	Total hrs/min / 105 h = ht of water col in ft vol. in cyl. = $\pi r^2 h$
	Total Evacuated gal. 7.48 gal/ft ³
	Evacuation Rate gpm V2" casing = 0.163 gal/ft
	V ₃ " casing = 0.367 gal/ft V ₄ " casing = 0.653 gal/ft
	rump # and type Baller # and type V _{4.5} " casing = 0.826 gal/ft
	Hose # and type
	Vg" casing = 2.61 gal/ft
	Sampling Port: Rate gpm Volume gal.
	Location/description —
	Initial height of water in casing - 4.44 ft; volume72 gal. ×4 vols
	Evacuation at drawdown limit = 3 x initial volume = gal.
4.	Evacuation at sampling point - 1 x initial volume - gal.
	Total to be evacuated = $\frac{2.90}{}$ gal.
	Water Color: hone Odor: STRONG ODOR
	Description of sediment and/or foreign matter in sample:
	at Slight to medium fines suspended
	Point of collection: End of Tellon buder "F" = 36% of initial height
	Depth to water during pumping ft time Sampling 15.54 ft 11:32 time of Water
	Pumped dry? Yes After 3/4 gal. Recovery rate
	ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather,
	van running nearby, problems with equipment or sampling, etc., pump on/off
	times, etc. (over).
	CHEMICAL DATA
	Temperature oC Thermometer # Specific Conductance umhos
	pH Calibration 4.0, 7.0, 10.0 Calibration Temp OC
	— <u> </u>
	AIR 100 CCS = Oppm GASOLINE
	SAMPLES COLLECTED:
	Bottle/ Filtered Preservative
# Battles	Sample Cap (size, u) (specify)
	ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab
2	059418-BH 40 ml C/V N NAHSOY R GastBETX Sup.
	ml
	m1
	ml
	ml
	ml
	ml ml
	m1
	Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass;
	0 = Other (describe)
	Additional Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal

VATER SAMPLING DATA Well Name B-6 Date 5-9-89 Time 10:12
Job Name/Number (Lev. Oak III 4-418-01 Initials ASR
Well ✓ Spring Surface Other
location Northwestern most well
WELL DATA: Well type (Describe; M = monitoring well)
Depth to Water 12.11 ft (pump/stat) Maximum Drawdown Limit (MDL) ft
Well depthft (sounded) Well depthft (spec) Well diameterft. TOC height above groundft Water elevft
Volume Evacuated: Pumped Pumped Bailed
Time: Stop
Start / / / / r = well radius in ft
Total hrs/min :36 h = ht of water col in ft vol. in cyl, = \(n \) r h
fotal Evacuated 30 gal. 7.48 gal/ft ³
Evacuation Rate 0.83 gpm V_2 " casing = 0.163 gal/ft V_3 " casing = 0.367 gal/ft V_3 " casing = 0.653 gal/ft V_3 " casing = 0.653 gal/ft
Pump # and type Bailer # and type Scale 2' Hell V4.5" casing = 0.653 gal/ft
Pump # and type Bailer # and type State 2' Feb. 2' 1 1 2 2 2 2 2 2 2 2
Hose # and type $\frac{g_8^{V_6" \text{ casing} = 1.47 gal/ft}}{V_8" \text{ casing} = 2.61 gal/ft}$
Sampling Port: Rate gpm Volume gal.
Location/description
Initial height of water in casing = $\frac{7.27}{100}$ ft; volume = $\frac{18.9}{100}$ gal. $\times 47$
Evacuation at drawdown limit = 3 x initial volume = gal.
Evacuation at sampling point = 1 x initial volume = gal.
Vater Color: light tan Odor: respirator wayn
Description of sediment and/or foreign matter in sample:
Slight Suspended Silt
Point of collection: Fod of telling Santo # 65.0 Bailer # BB
Depth to water during pumping ft - time Sampling 16,64ft 9:54 time/3.5:10
Depth to water during pumping ft time Sampling 16.64ft 9:54 time/3.5 = \$0 Pumped dry? Y After ?O gal. Recovery rate Sampled at al. 38% of in
Depth to water during pumping ft time Sampling 16.64 ft 9:54 time/3.5.10 Pumped dry? Y After 30 gal. Recovery rate Sampled at any 38% of in ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol.
Depth to water during pumping ft time Sampling 16.64ft 9:54 time/3.5.10 Pumped dry? Y After 30 gal. Recovery rate Sampled at all 38% of in ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. wan running nearby, problems with equipment or sampling, etc., pump on/off
Depth to water during pumping ft time Sampling 16.64ft 9:54 time/3.5 = 10 Pumped dry? Y After 30 gal. Recovery rate <u>Kampled at and 38% of its ADDITIONAL COMMENTS</u> , LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock
Depth to water during pumping ft time Sampling 16.64ft 9:54 time/3.5 = 10 Pumped dry? Y After 30 gal. Recovery rate Sampled at and 38% of it ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock CHEMICAL DATA
Depth to water during pumping ft time Sampling [6.64 ft 9:54 time;3.5.10] Pumped dry? Y After 30 gal. Recovery rate Sampled at all 38% of in ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. wan running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos
Depth to water during pumping ft time Sampling 16.64ft 9:54 time/3.5 = 10 Pumped dry? Y After 30 gal. Recovery rate Sampled at and 38% of it ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock CHEMICAL DATA
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Depth to water during pumping ft time Sampling [6.64 ft 9:54 time;3.5 = 10 Pumped dry? Y After _30 gal. Recovery rate
Depth to water during pumping ft time Sampling [6.64 ft 9:54 time;3.5 = 10 Pumped dry? Y After 30 gal. Recovery rate
Depth to water during pumping ft time Sampling ft time_3.5.10 Pumped dry? Y After 30 gal. Recovery rate \text{Lime} at all 38% of it ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. Van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock CHEMICAL DATA Temperature °C Thermometer # Specific Conductance umhos PH Calibration 4.0, 7.0, 10.0 Calibration Temp °C SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify)
Depth to water during pumping ft time Sampling [6.64] ft _9.54 time/3.5.10 Pumped dry? After gal. Recovery rate
Depth to water during pumping ft time Sampling [6.64 ft 9:54 time]3.5 = 10 Pumped dry? After gal. Recovery rate
Depth to water during pumping ft time Sampling [6.64] ft _9.54 time/3.5.10 Pumped dry? After gal. Recovery rate
Depth to water during pumping ft time Sampling [6.64ft 9:54 time]3.5:10 Pumped dry? After gal. Recovery rate
Depth to water during pumping ft time Sampling [6.44 ft 9:54 time;3.5=10] Pumped dry? After 30 gal. Recovery rate
Depth to water during pumping ft time Sampling 16.64ft 9.54 time_3.5.10 Pumped dry? After gal. Recovery rate
Depth to water during pumping
Depth to water during pumping ft time Sampling ft time_3.5.**O Pumped dry?
Depth to water during pumping
Depth to water during pumping ft time Sampling ft time_3.5.**O Pumped dry?
Depth to water during pumping gal. Recovery rate Sampling 16.64ft 9.54 time 3.5.0 gal. Recovery rate Sampling 16.64ft 9.54 time 3.5.0 gal. Recovery rate Sampling 16.64ft 9.54 time 3.5.0 gal. Recovery rate Sampling of the sample of the sample of the sampling of the sample of times, etc. (over). No cap, no lock CHEMICAL DATA Temperature OC Thermometer # Specific Conductance unhos ph Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (Specify) ml
Depth to water during pumping gal. Recovery rate Sampling 16.64ft 9.54 time/3.5.20 gal. Recovery rate Sampling 16.64ft 9.54 time/3.5.20 gal. Recovery rate Sampling 16.64ft 9.54 time/3.5.20 gal. Recovery rate Sampling of the sample of the sampling of the sample of times, etc. (OMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, water vol. van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). No cap, no lock CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos ph Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab OCQUIN-B6 do ml ml ml ml ml ml ml ml ml ml

Gasoline Catha diffusion tube read 30 ppm

WATER SAMPLING DATA			Date <u>5-10-89</u>	Time <u>17; 17</u>	
Job Name/Number	evon Od	lad III	4-418-01	_ Initials 🐴	R
Well & Spring	Surface —	Other	~		
Location New Con	ne of box	Lucy + Mes	go de		
WELL DATA: Well type		7	(Describe: M	- monitoring we	11)
Depth to Water 14.7		p/stat) Ma			ft
Well depth 19.3					•
Well diameter 6 in					ft
	_	re above gr	Bailed	er erev	. 10
	Pumped	rumped			
Time: Stop	 .	/		Formulas/Conversions	
Start	 .		11:40	r = well radius in f h = ht of water col:	1
Total hrs/min	<u> </u>	<u> </u>		vol. in cyl. = $\pi r^2 h$	111 20
Total Evacuated	<i>lO</i> gal			7,48 gal/ft ³	1
Evacuation Rate	<i>0.5</i> 8 gpm			V_2 " casing = 0.163 g	al/ft
			pe Seple 2'tellen#6	$V_3^{"}$ casing = 0.367 g. $V_{L}^{"}$ casing = 0.653 g.	al/it ~1 <i>/f+</i>
Pump # and type	Bail	er # and ty	pe Semple 2' Teffen #6	V ₄ casing = 0.836	gal/ft
Hose # and type		-		V ₆ " casing = 1.47 g	al/ft
				V8" casing = 2.61 g	
Sampling Port: Rate	٠	nm Volume	gal.		
Location/description		pm vorame			
Locaciony description					
T-141-1 1-1-14 -F		11 -	E4 3	/ /41 4	4 ~
Initial height of wa					* ク .
Evacuation at drawdo					
Evacuation at sampli					
1. 01	✓ Tot	al to be ev	vacuated = 27	gal.	Λ
Water Color: lially	- /bu		Odor: Respirator La	m - strong a	asoline smell
Description of sedim	ent and/or	foreign mat	ter in sample: 51, a	ht suspended	f fiber
Some impiscibility	between w	ater and	tan oil or product	disolets	
Point of collection	E / 1 /	11 6.1	# /:-	£ a	 .
				E 460 -	
Depth to water durin	g numning	ft	time Sampling	16.00 ft 17:32 t	ime
Depth to water during	g pumping _	ft	time Sampling _	16.80 ft 17:12 t	ime . Sho of initial
Depth to water during Pumped dry? Y Af	g pumping _	ft al. Recove	time Sampling _	16.80 ft 17:12 t	ime -56% of initial or water vol. in
Depth to water during Pumped dry? A1 ADDITIONAL COMMENTS.	g pumping _ ter <u>[O</u> g LOCATION S	ft al. Recove KETCH, ENVI	time Sampling _ ery rate RONMENTAL CONDITION	16.80 ft 17:12 t	ime -56% of initial ex, water vol. in bore
Depth to water during Pumped dry? ADDITIONAL COMMENTS, yan running nearby.	ter <u>fo</u> g LOCATION S Droblems wi	ft al. Recove KETCH, ENVI	time Sampling _ ery rate RONMENTAL CONDITION of or sampling, etc.	IS, e.g., weather pump on/off	er, water vol. in bore
Depth to water during Pumped dry? ADDITIONAL COMMENTS, van running nearby, times, etc. (over)	ter <u>fo</u> g LOCATION S Droblems wi	ft al. Recove KETCH, ENVI	time Sampling _ ery rate RONMENTAL CONDITION of or sampling, etc.	IS, e.g., weather pump on/off	er, water vol. in bore
Depth to water during Pumped dry? ANDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA	g pumping _ ter <u>(O</u> g LOCATION S problems wi	ft al. Recove KETCH, ENVI th equipmer 300 PPM	time Sampling ery rate RONMENTAL CONDITION at or sampling, etc.	IS, e.g., weather, pump on/off	er, water vol. in bore
Depth to water during Pumped dry? ADDITIONAL COMMENTS, van running nearby, times, etc. (over)	g pumping _ ter <u>(O</u> g LOCATION S problems wi	ft al. Recove KETCH, ENVI th equipmer 300 PPM	time Sampling ery rate RONMENTAL CONDITION at or sampling, etc.	IS, e.g., weather, pump on/off	er, water vol. in bore
Depth to water during Pumped dry? ANDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC	g pumping	ft ft	time Sampling ery rate FRONMENTAL CONDITION of or sampling, etc. Callon after 1 bs;	IS, e.g., weather, pump on/off (on Gasoline Control umhos	er, water vol. in bore
Depth to water during Pumped dry? ANDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA	g pumping	ft ft	time Sampling ery rate FRONMENTAL CONDITION of or sampling, etc. Callon after 1 bs;	IS, e.g., weather, pump on/off	er, water vol. in bore
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Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature Calibration SAMPLES COLLECTED:	g pumping g ter g LOCATION S problems wi Thermomete 4.0, Bottle/	ft ft	time Sampling ery rate RONMENTAL CONDITION of or sampling, etc Specific Conductar 10.0 Calibration Preservative	IS, e.g., weather, pump on/off (on Gasoline Control umhos	er, water vol. in bore
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Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No.	g pumping	ft	time Sampling ry rate RONMENTAL CONDITION at or sampling, etc. Calta after 1 bs; Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off on Gaseline Character umhos Temp. OC	Er, water vol. in bore Hum diffusion tobe
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Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. OSTHE-B7 ml ml ml ml	g pumping	ft	time Sampling ry rate RONMENTAL CONDITION at or sampling, etc. Calta after 1 bs; Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off on Gaseline Character umhos Temp. OC	Er, water vol. in bore Hum diffusion tobe
Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. Sidis 87 vo ml ml ml ml ml ml	g pumping	ft	time Sampling ry rate RONMENTAL CONDITION at or sampling, etc. Calta after 1 bs; Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off on Gaseline Character umhos Temp. OC	Er, water vol. in bore Hum diffusion tobe
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Depth to water during Pumped dry? And DITIONAL COMMENTS, van running nearby times, etc. (over) CHEMICAL DATA Temperature OC pH Calibration SAMPLES COLLECTED: Sample ID No. STAIN-BY oml ml	g pumping	ft	time Sampling ry rate RONMENTAL CONDITION at or sampling, etc. Calta after 1 bs; Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off on Gaseline Character umhos Temp. OC	Er, water vol. in bore Him diffusion tobe
Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC pH Calibration SAMPLES COLLECTED: Sample ID No. STAIS BY Wo ml	g pumping	ft	time Sampling Ery rate IRONMENTAL CONDITION Int or sampling, etc. Callon after 1 bei Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off Lon Gasoline Character umhos Temp. OC Analysis Ges + SETX	Lab Sup
Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over) CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. STAIS-B7 Vo ml m	g pumping	ftal. Recover RETCH, ENVI	time Sampling ry rate RONMENTAL CONDITION at or sampling, etc. Calta after 1 bs; Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	IS, e.g., weather, pump on/off Lon Gasoline Character umhos Temp. OC Analysis Ges + SETX	Lab Sup
Depth to water during Pumped dry? And ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. STHE-B7 O ml	Thermomete A 4.0, Bottle/ Cap (Specify) Christian	ftal. Recover RETCH, ENVI	time Sampling Ery rate IRONMENTAL CONDITION Int or sampling, etc. Callon after 1 bei Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	S, e.g., weather, pump on/off on Gaseling Change C	Lab Sup

BAILER BLANK

VEISS ASSOCIATES

WATER SAFFLING	DATA Well Name	Date 5 4	8 7	Time 16.0	ा राजी
Job Name/Number	CHEUL OAK	4-4/8-	<u>o/</u>	Initials	<u> </u>
	Surface Ot	her			
Location					
WELL DATA: Well	typeft (pump/s	(Des	cribe; M = 1	monitoring w	ell)
Depth to Water	ft (pump/s	tat) Maximum Draw	down Limit	(MDL)	_ ft
Well depth	ft (sound	ed) Well depth		ft (spec)	
Well diameter	in. TOC height	above ground	ft Water	elev.	ft
	d: Pumped				-
Time: Stop	u. I tumpeu	<u> zarro</u>	_		
Start				rmulas/Conversions = well radius in i	_
				ht of water col	
Total hrs/mi			vo	l. in cyl <u>.</u> = Wr ² h	
Total Evacuated				48 gal/ft ³	
Evacuation Rate	gpm		v ₂	" casing = 0.163 g	sal/f
	A 1 / A	-1 -	∠ / / ^{V3}	" casing = 0.367 g " casing = 0.653 g	3aL/1
Pump # and type	N/A Bailer	# and type 2 TEA	the V4	-" casing = 0.820	sar,r. 5 gal
Hose # and type	NA	·		5" casing = 0.820 5 casing = 1.47 g casing = 2.61	sal/f
moso " and type		· · · · · · · · · · · · · · · · · · ·	v _A	" casing = 2.61	al/f
Compling Ports	Poto	Volumo			
	Rategpm	vorume	_ gar.		
Location/descri	brion				
		•		. 7	
Initial height	of water in casing	= ft; vo	lume	gal.	
	rawdown limit - 3 x				
Evacuation at s	ampling point = 1 x	initial volume -	g	al.	
	Total	to be evacuated =	g	al.	
Water Color:	NONE	Odor: /	NONE		
Description of	sediment and/or for	eign matter in sam	nla: A/	NUE	
peperaputon or					
Depth to water Pumped dry?	tion: during pumping After gal.	_ ft time S Recovery rate	ampling		
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er).	ft time S Recovery rate CCH, ENVIRONMENTAL equipment or sampl	CONDITIONS,	e.g., weath	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with	ft time S Recovery rate CCH, ENVIRONMENTAL equipment or sampl	CONDITIONS,	e.g., weath	er,
Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer #	fttime S Recovery rate CCH, ENVIRONMENTAL equipment or sampl	ampling CONDITIONS, ing, etc.,	e.g., weath pump on/offumhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer #	fttime S Recovery rate CH, ENVIRONMENTAL equipment or sampl	CONDITIONS,	e.g., weath pump on/offumhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0,	fttime S Recovery rate CCH, ENVIRONMENTAL equipment or sampl	ampling CONDITIONS, ing, etc.,	e.g., weath pump on/offumhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0,	fttime S Recovery rate CH, ENVIRONMENTAL equipment or samplSpecific 7.0,10.0 Ca	ampling	e.g., weath pump on/offumhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE	tion: during pumping gal. After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0, CTED: Bottle/ Fi	fttime S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0,10.0 Ca ltered Preservat	ampling	e.g., weath pump on/offumhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample	tion: during pumping gal. After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0, CTED: Bottle/ Fi	fttime S Recovery rate CH, ENVIRONMENTAL equipment or samplSpecific 7.0,10.0 Ca ltered Preservat ize, u) (specify)	ampling	e.g., weath pump on/off umhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0, CTED: Bottle/ Fi Cap (s	fttime S Recovery rate CH, ENVIRONMENTAL equipment or samplSpecific 7.0,10.0 Ca ltered Preservat ize, u) (specify)	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0, CTED: Bottle/ Fi Cap (s	fttime S Recovery rate CH, ENVIRONMENTAL equipment or samplSpecific 7.0,10.0 Ca ltered Preservat ize, u) (specify)	ampling	e.g., weath pump on/off umhos	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE ID No.	tion: during pumping After gal. ENTS, LOCATION SKET rby, problems with er). OC Thermometer # ation 4.0, CTED: Bottle/ Fi Cap (s (Specify) (N	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE ID No.	during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE ID No.	during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	er,
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLEGE Sample ID No.	tion: during pumping	ft time S Recovery rate CH, ENVIRONMENTAL equipment or sampl Specific 7.0, 10.0 Ca ltered Preservat ize, u) (specify) = No) (R = Refr	ampling	e.g., weath pump on/off umhos empoc	
Depth to water Pumped dry? ADDITIONAL COMM van running nea times, etc. (ov CHEMICAL DATA Temperature pH Calibr SAMPLES COLLE Sample ID No. 059418-22 4 059418-22 4	tion: during pumping	fttime S Recovery rateCH, ENVIRONMENTAL equipment or samplSpecific 7.0,10.0 Ca ltered Preservat ize, u) (specify) - No) (R - Refr	ampling	e.g., weath pump on/off umhos empoc	Lah

* USED SEQUED F.R. DISTILLED WATER

TRAVEL BLANKS



	Well Name		Date 5 /10/1	59	Time $17:$	
Job Name/Number	Chev. O	Willard III	_ 7/4	-418-01	Initials /	75R
Well Spring	Surface					
Location						
WELL DATA: Well type			(Descr	ibe; M	monitoring	well)
Depth to Water	ft (pun	np/stat) Ma				
Well depth			ll depth			
			round			
Volume Evacuated:		Pumped	Bailed		1 0101	_ ~~
Time: Stop	Lumpeu	<u>r umpeu</u>	Dallen			
Start					Formulas/Conversion = well radius in	
					c - well radius in c = ht of water co	ì
Total hrs/min					vol in cyl. = #/r2	
Total Evacuated	ga)			3	7.48 gal/ft3	
Evacuation Rate	gp	n.		,	V ₂ " casing = 0.163 V ₃ " casing = 0.367	gal/it
_				1	V_4 " casing = 0.653	gal/ft
	Ball	ler # and ty	/pe		V_{i} =" casing = 0.8	326 gal/ft
Hose # and type					V ₆ " casing = 1.47 V ₈ " casing = 2.61	gal/ft
				,	V ₈ " casing = 2.51	gal/It
Sampling Port: Rate		<u>ypm Volume</u>	8	gal.		
Location/description	ı					
Initial height of wa	ter in easi	ing =	ft; volu	ne =	gal.	
Evacuation at drawdo	wn limit -	3 x initial	volume =		gal.	•
-Evacuation at sampli					gal.	
•			vacuated =		gal.	
Water Color:			Odor:		Ų.	
Description of sedim	ent and/or	foreign mat	ter in sample	2 J	VONE	
Point of collection:						
·						
Depth to water during	e pumping	ft	time Samı	oling	ft	time
Depth to water during Pumped dry? Af	ter	gal. Recove	ery rate			time
Pumped dry? Af ADDITIONAL COMMENTS,	ter	gal. Recove SKETCH, ENVI	ery rate [RONMENTAL CO	NDITIONS	, e.g., weat	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby,	ter	gal. Recove SKETCH, ENVI	ery rate [RONMENTAL CO	NDITIONS	, e.g., weat	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over).	ter	gal. Recove SKETCH, ENVI	ery rate [RONMENTAL CO	NDITIONS	, e.g., weat	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA	LOCATION S	gal. Recove SKETCH, ENVI	ery rate IRONMENTAL COI nt or sampling	NDITIONS g, etc.,	, e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C	LOCATION S problems w	gal. Recove	Ery rate IRONMENTAL COI nt or sampling Specific Cor	NDITIONS g, etc.,	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA	LOCATION S problems w	gal. Recove SKETCH, ENVI	Ery rate IRONMENTAL COI nt or sampling Specific Cor	NDITIONS g, etc.,	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature pH Calibration	LOCATION S problems w	gal. Recove	Ery rate IRONMENTAL COI nt or sampling Specific Cor	NDITIONS g, etc.,	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C	Thermometer	gal. Recove EKETCH, ENVI	ry rate IRONMENTAL COI nt or sampling Specific Cor 10.0 Cali	nDITIONS g, etc., addictance	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature pH Calibration SAMPLES COLLECTED:	Thermometer Bottle/	gal. Recover SKETCH, ENVI	ry rate IRONMENTAL COI IT or sampling Specific Cor 10.0 Cali	nDITIONS g, etc., addictance	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature pH Calibration SAMPLES COLLECTED: Sample	Thermometer Bottle/ Cap	Filtered (size, u)	ry rate IRONMENTAL CON To reservative (specify)	nDITIONS g, etc., addition	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature pH Calibration SAMPLES COLLECTED: Sample ID No.	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 9418-21 42 ml	Thermometer Bottle/ Cap	Filtered (size, u)	ry rate IRONMENTAL CON To reservative (specify)	nDITIONS g, etc., addition bration	e.g., weat pump on/off	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Calibration SAMPLES COLLECTED: Sample ID No. OS 948-21 40 ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS9418-21 42 ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 9418-21 40 ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 948-21 40 ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 9418-21 40 ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 948-21 40 ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS948-21 40 ml ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Calibration SAMPLES COLLECTED: Sample ID No. O59418-21 42 ml ml ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS948-21 40 ml ml ml ml ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Calibration SAMPLES COLLECTED: Sample ID No. O 9418-21 42 ml ml ml ml ml ml ml ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	ry rate IRONMENTAL COI of or sampling Specific Con 10.0 Calil Preservative (specify) (R = Refrige	nDITIONS g, etc., addition bration	e.g., weat pump on/off te	her,
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature PH Calibration SAMPLES COLLECTED: Sample ID No. OS 948-21 40 ml	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	Preservative (specify) (R - Refrige	nDITIONS g, etc., additant bration erated)	e.g., weat pump on/off te umbo Temp. C Analysis Gest + BETX	Lab
Pumped dry? Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature CPH Calibration SAMPLES COLLECTED: Sample ID No. OS 948-21 40 ml m	Thermometer Bottle/ Cap (Specify)	Filtered (size, u) (N = No)	Preservative (specify) (R - Refrige	nDITIONS g, etc., additant bration erated)	e.g., weat pump on/off te umbo Temp. C Analysis Gest + BETX	Lab



2938 McClure St., Oakland, CA 94609 415-465-1100

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

10002

			*.	. •		•		SEND RES	ULTS 1	10: Sharon Halpen		
CHAIN-OF-CUST	ODY RECORD AND	ANALYT		RUCTIONS	. ••			WA Perso	nnel:	Be sure to include copy of this	form in the fie	ld sampling file
	tory Number:							Project	1D:	4-418-01		
					_				•			
	ASR/RH/E				ratory Name: _	Superi	or			NOTES TO LAB: 1) Specify analytic method an in report. 2) Notify us if there are any on GC or other scans. 3) ANY QUESTIONS/CLARIFICATION	anomalous peaks	
No. of Containers	Sample ID	Sampl Date	ing	Sample/ Container Type 4.4.	Analyze/ Hold ^B _{€.} k.	Turn- around ^C	Analyze F			Analytic Method/ Detection Limit	Comments	
/ 2	059418-Fl	5/	9/89	W/V	* Hold	N	Gas	+BETX	<		X PECTING	
	059418-FZ		1		Α,				4		CONCENT	MATIONS
12	059418-EAI								4			
V 2	059418-EAZ						l		<u> </u>			
<u> </u>	059416-22							·	\leftarrow			····
12	059418-BZ								<-			
√2	059418- B6								4			
12	059418-21	51	10/89	J:					4			
12	059418-B4		Ι'						4			
V 2	059418-83				•							
12	059418-A								{			
√ Z	059418-87					-	1		4-			
√2	059418-81	-		-V				/	<u> </u>		-	
1 Evic Or Released by	(Signature), Da	5/[o/	8 9	4 Street		v5/11	S_Released	i by (Signatu		ullet 5/12/69	X Seal Prince?	Nimber
2		te	89	4 Street	~ 1761	v5/11	Alle	in 1		Date	X Seal Antact?,	- Number

Sample Type Codes: W = Water, S = Soil, O = Other (Specify)
Analyze/Hold: A = Analyze; HOLD (spell out) = DO NOT ANALYZE UNLESS NECESSARY OR REQUESTED.

N = Normal Turnaround, F = 1-Week Turnaround, R = 24-hour Turnaround

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 10002 CLIENT: Weiss Associates DATE RECEIVED: 05-11-89 DATE REPORTED: 05-18-89

JOB NO.: 4-418-01

Page 1 of 3

Laboratory Number	Customer	Sample	Identi	fication	Date S	ampled		
10002-1		059418	-F1		05-09	-89		
10002-2		059418			05-09	-89		
10002-3	059418-EA1				05-09-89			
10002-4	059418-EA2				05-09-89			
10002-5	059418-22				05-09-89			
10002-6	059418-B2 059418-B6				05-09-89 05-09-89			
10002-7 10002-8		059418			05-09-89			
10002-8		059418			05-10-89			
10002-10		059418			05-10-89			
Laboratory Number:	1	2		3	4	5		
ANALYTE LIST	Amou	nts/Qua	ntitatio	on Limits	(ug/L)			
OIL AND GREASE:	NA	N.	A	NA	NA	NA		
TPH/GASOLINE RANGE:	NA	N	D<500	ND<500	760	ND<500		
TPH/DIESEL RANGE:	NA	N.		NA	NA	NA .		
BENZENE:	NA		D<0.5	ND<0.5	ND<0.5	ND<0.5		
TOLUENE:	NA		.6	ND<0.5	ND<0.5 1.1	ND<0.5 ND<0.5		
ETHYL BENZENE:	NA NA		D<0.5 .0	ND<0.5 ND<0.5	ND<0.5	ND<0.5		
XYLENES:	,,,,							
Laboratory Number:	6	7		8	9	10		
ANALYTE LIST	Amou	nts/Qua	ntitatio	on Limits	(ug/L)			
OIL AND GREASE:	NA	N.	A	NA	NA	NA		
TPH/GASOLINE RANGE:	1700	00 2	6000	ND<500	3600	70000		
TPH/DIESEL RANGE:	NA	N.		NA	NA	NA		
BENZENE:	3000		20	ND<0.5	840)	12000 <		
TOLUENE:	8400		10	ND<0.5	34	9500		
ETHYL BENZENE:	2300		50	ND<0.5	120	1400 - 8900 :		
XYLENES:	1200	1 1	300	ND<0.5	200	0300)		

SUPERIOR ANALYTICAL LABORATORY, INC.

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CERTIFICATE OF ANALYSIS

LABORATORY NO.: 10002 CLIENT: Weiss Associates DATE RECEIVED: 05-11-89 DATE REPORTED: 05-18-89

JOB NO.: 4-418-01

Page 2 of 3

Laboratory Number	Customer	Sample Identification	Date Sampled
10002-11		059418-A	05-10-89
10002-12		059418-B7	05-10-89
10002-13		059418-B1	05-10-89

13 12 Laboratory Number: 11 Amounts/Quantitation Limits (ug/L) ANALYTE LIST NA NA NA OIL AND GREASE: 16000 210000 11000 TPH/GASOLINE RANGE: NA NA NA TPH/DIESEL RANGE: 2300 13000 260 V BENZENE: 260 19000 > ND<2 **TOLUENE:** 2000 81 94 ETHYL BENZENE: 230 20000 740 XYLENES:

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
Diesel by Modified EPA SW-846 Method 8015
Gasoline by Purge and Trap: EPA Method 8015/5030
ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

Page 3 of 3 QA/QC INFORMATION SET: 10002

NA = ANALYSIS NOT REQUESTED
ND = ANALYTE NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E: Duplicate RPD= NA. Minimum Detection limit in Water: 5000 ug/L.

Modified EPA Method 8015 for Extractable Hydrocarbons:

Minimum Quantitation Limit for Diesel in Water: 1000 ug/L.

Daily Standards run at 200 mg/L: RPD Diesel =NA.

MS/MSD: Average Diesel Recovery= NA: Duplicate RPD=NA.

8015/5030 Total Purgable Petroleum Hydrocarbons
Minimum Quantitation Limit for Gasoline in Water: 500 ug/L.
Daily Standards run at 200 mg/L; RPD Gasoline= 1.
MS/MSD: Average Gasoline Recovery =93%:Duplicate RPD =1.

8020/BTXE:

Mimimum Quantitation Limit in Water: 0.50 ug/L. Daily Standard run at 20 ug/L: RPD < 15.
MS/MSD: Average Recovery = 100%: Duplicate RPD =<3.

és Partridge, Ph.D

Laboratory Manager