

Chevron U.S.A. Inc.

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3 November 1988

Jill Duerig Alameda County Water District P.O. Box 5110 43885 S. Grimmer Blvd. Fremont, California 94537

Re: Chevron Facility 90260

A1895 Footbill Boulevard

Hayward, California

Dear Ms. Duerig:

Enclosed is the quarterly monitoring report for the above-referenced site. As indicated in the report, detectable levels of hydrocarbons are present in the groundwater.

If you have any questions or comments, please contact Kay Huffman or Gordon Davitt at (415) 842-9602 or (415) 842-9525.

Sincerely, D. Moller

By K.G. Huffman

KH/wa

Enclosure

cc: Hugh Murphy, Hayward City Fire Department

Consulting in Geology & Geohydrology

2938 McClure Street, Oakland, CA 94609

415-465-1100

3 November 1988

K. G. HUFFMAN

Ms. Kay Huffman Chevron USA P. O. Box 5004 San Ramon, CA 94583-0804 NOV 4 REC'D

Re: Chevron Service Station #90260 21995 Foothill Boulevard Hayward, California WA Job #4-310-01

Dear Ms. Huffman:

This letter presents the results of the quarterly ground water sampling performed on 27 September 1988 at Chevron Service Station #90260 in Hayward, California (Figure 1). The ground water samples from all four monitoring wells sampled contained benzene, toluene, and xylenes above the California Department of Health Services (DHS) recommended action levels. The ground water samples from monitoring wells MW-6 and MW-7 contained ethylbenzene and/or 1,2-dichloroethane (EDC) above DHS recommended action levels.

GROUND WATER SAMPLING

Brian Danforth, WA geologic technician, collected ground water samples from monitoring wells MW-4, MW-5, MW-6 and MW-7 on 27 September 1988. Monitoring wells MW-1, MW-2 and MW-3 are tank backfill wells so they were not sampled. Prior to sampling, each well was purged of four wellbore volumes of water, approximately 2.5 to 5 gallons each, using steam-cleaned teflon bailers. The ground water samples were decanted from the bailers into 40 ml glass volatile organic analysis vials with teflon septa, and refrigerated for transport to Central Coast Analytical Services of San Luis Obispo, California. This sampling methodology and sample handling protocol is consistent with Environmental Protection Agency (EPA) guidelines. The water sampling collection records, including ground water elevations, and chain of custody records are included as Attachments A and B, respectively.

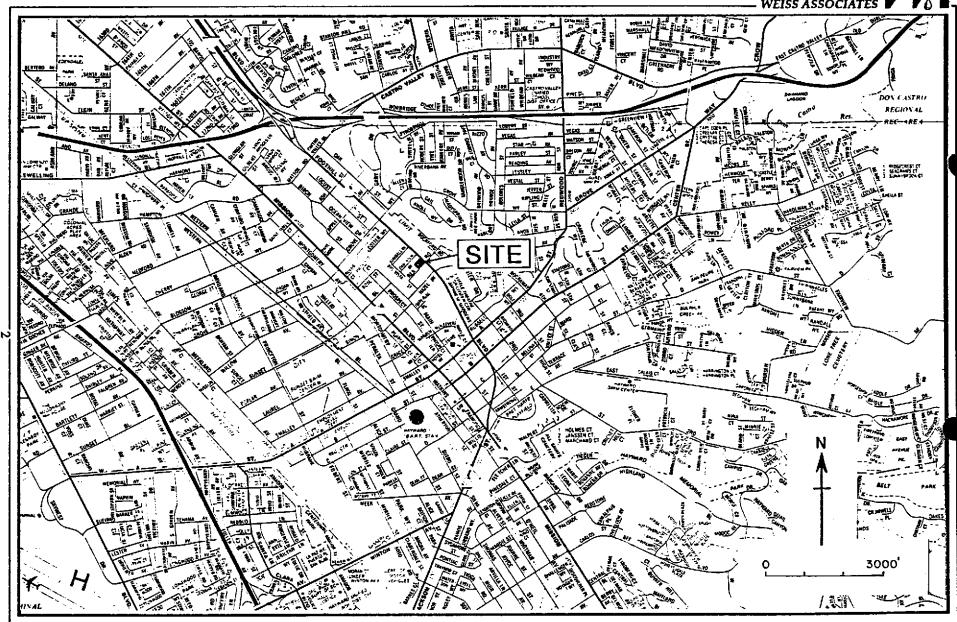


Figure 1. Site Location Map - Chevron Service Station #90260, Hayward, California

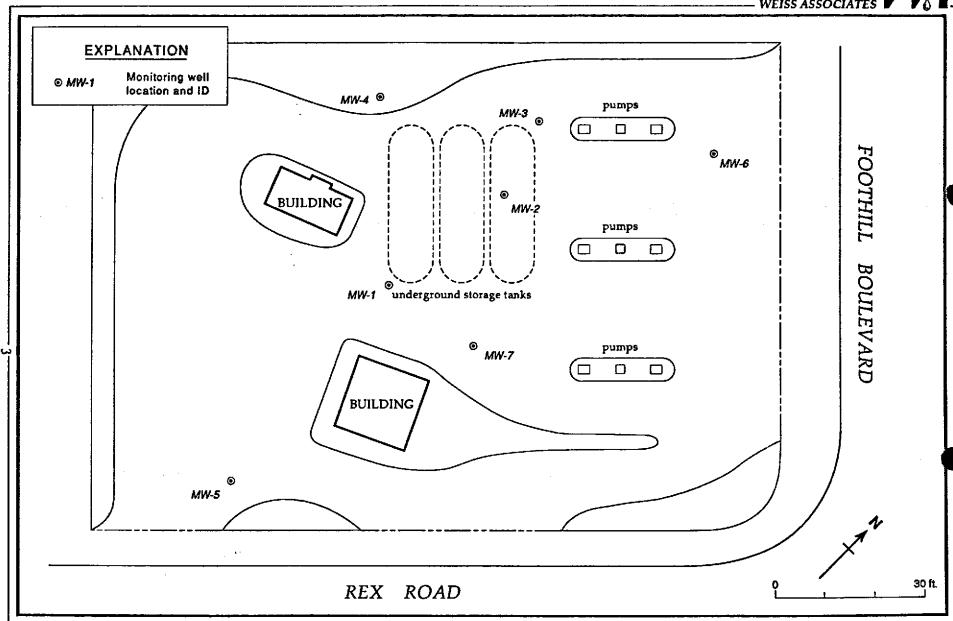


Figure 1. Monitoring Well Location Map - Chevron Service Station #90260, Hayward, California

Ms. Kay Huffman 3 November 1988

4

CHEMICAL ANALYSES

The ground water samples were analyzed for total fuel hydrocarbons (TFHC) and BETX by Fuel Fingerprint Analysis - EPA Method 524.2/8240. The results of the water analysis are presented in Table 1 and the analytic reports are included as Attachment C. The detection limits for ethylbenzene, 1,2-dichloroethane (EDC) and ethylene dibromide (EDB) in ground water samples from monitoring wells MW-4 and MW-5 were above DHS recommended action levels because of the high concentrations of TFHC in the samples.

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.

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Sincerely,

Weiss Associates

Robert E. Kitay Staff Geologist

Richard B. Weiss

Principal Hydrogeologist

REK/RBW:rem

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Attachments: A - Water Sampling Collection Records

B - Chain-of-Custody

C - Analytic Reports

TABLE 1. Analytic Results for Ground Water, Chevron Service Station #90260, Hayward, California

Sample	Sample	Analytic	Analytic	TFHC	В	E	Ţ	X	EDC	EDB
ID	Date	Method	Lab	<		parts p	per million			>
MW-4	02/05/88	8015/602	B&C	88	24	1.7	19	10		• • •
PH-4	06/15/88	8015/602	B&C	95	45	2.1	30	17		
	09/27/88	524.2/8240	CCAS	500	41	<5.0	27	16	<5.0	<5.0
MV-5	02/05/88	8015/602	8&C	80	16	2.6	15	17		
	06/15/88	8015/602	B&C	77	42	2.5	38	16		
	09/27/88	524.2/8240	CCAS	470	39	<5.0	32	16	<5.0	<5.0
MW-6	02/05/88	8015/602	B&C	53	5.1	2.1	4.4	14		
1111 0	06/15/88	8015/602	B&C	33	9.2	.52	5.5	20		
	09/27/88	524.2/8240	CCAS	17	2.2	1.7	2.8	5.1	0.13	<0.01
MW-7	02/05/88	8015/602	8&C	81	34	2.4	36	16		
,,,,	06/15/88	8015/602	B&C	77	40	1.4	41	24	•••	•••
	09/27/88	524.2/8240	CCAS	30	9.7	0.4	8.9	4.1	2.6	<0.01
Bailer Blan	k								-	
(CH8)	09/27/88	524.2/8240	CCAS	<0.05	<0.0001	<0.001	<0.001	0.001	0.0015	<0.0001
Trip Blank										
(CH9)	09/27/88	524.2/8240	CCAS	<0.05	<0.0001	<0.001	<0.001	<0.001	<0.0001	<0.0001
DHS Action									0.004	0.0000
Levels				NE	0.0007	0.62	0.1	0.68	0.001	0.00002

Abbreviations:

TFHC = Total fuel hydrocarbons

8 = Benzene

E = Ethylbenzene

T = Toluene

X = Xylenes

EDC = 1.2-dichloroethane

EDB = Ethylene dibromide

--- = Not analyzed

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

NE = DHS action level for TFHC not established

Analytic Method:

8015 = Modified EPA Method 8015, Total Fuel Hydrocarbons

602 = EPA Method 602, Aromatic Volatile Hydrocarbons

524.2/8240 = Fuel Fingerprint Analysis -EPA Method 524.2/8240, Total Fuel and Aromatic Volatile Hydrocarbons

Analytic Laboratory:

B&C = Brown and Caldwell Laboratories, Emeryville, California

CCAS = Central Coast Analytical Services, San Luis Obispo, California



ATTACHMENT A WATER SAMPLING COLLECTION RECORDS

WATER SAMPLING DATA Well Name MW-4 Date 9-27-98 Time 13:32
Job Name/Number CHEVION HAYWAYI) 4-310-01 Initials BILL
Well Spring Surface Other Location
WELL DATA: Well type (Describe; M > monitoring well)
Depth to Water 14.22 ft (pump/stat) Maximum Drawdown Limit (MDL) ft
Well depth 31.69 ft (sounded) Well depth 32 ft (spec)
Well diameter d in. TOC height above ground ft Water elev fr
Volume Evacuated: Pumped Pumped Bailed
Time: Stop
Formulas/Conversions
Tabal hands in the
7.48 gal/ft ³
Evacuation Rate /.// gpm V2" casing = 0.163 gal/ft
1 010 1 V3" casing = 0.367 gal/ft
Pump # and type Bailer # and type Var casing = 0.653 gal/ft
Hose # and type Bailer # and type $V_{4.5}$ casing = 0.826 gal/ft V_{6} casing = 1.47 gal/ft
Vg" casing = 2.61 gal/ft
Sampling Port: Rategpm Volumegal.
Location/description Gal.
Initial height of water in casing = 7.12 ft; volume = 4.85 gal.
Initial height of water in casing $=\frac{1.40}{1.40}$ ft; volume $=\frac{7.80}{1.40}$ gal.
Evacuation at drawdown limit - 3 x initial volume - 14.54 gal.
Evacuation at sampling point = 1 x initial volume = 4.35 gal.
Total to be evacuated = 19.39 gal.
Water Color: Clear Odor: Moderate to Strong
Description of sediment and/or foreign matter in sample:
Point of collection: The evol of Tellon Bailan # "FE"
Depth to water during numning for friend Complete William to Old St. William to
Depth to water during pumpingfttime Sampling /4.84 ft /4.05 time
Pumped dry? After 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
TemperatureOC Thermometer # Specific Conductance umhos
pH Calibration 4.0,7.0, 10.0 Calibration Tempoc
SAMPLES COLLECTED:
Bottle/ Filtered Preservative
Sample Cap (size, u) (specify)
All I was a second to the seco
CHYX 40 ml C/V Nuttoy ERABELLO CCA
CH 9Y V ml V V V V
ml
ml —
ml — — — — — — — — — — — — — — — — — — —
ml
ml
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass
0 = Other (describe)
O = Other (describe) Additional Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal

80% - In - 208

14) 28 (b)

WATER SAMPLING DATA Well Name MW-5 Date 9-27-88 Time /3100
Well Spring Surface Other Initials 120
Location
WELL DATA: Well type (Describe; M- monitoring well)
Depth to Water /3.16 ft (pump/stat) Maximum Drawdown Limit (MDI)
well depth ft (sounded) Well depth ft (spec)
Well diameter in. TOC height above ground ft Water elev fr
volume Evacuated: Pumped Pumped Bailed
Time: Stop [3:05] Formulas/Conversions
Start Total hrs/min 13:03 r = well radius in ft h = ht of water col in ft
Fraction Poto 7.48 gal/ft ³
Evacuation Rate gpm V_2 " casing = 0.163 gal/ft V_3 " casing = 0.367 gal/ft
Pump # and type Railor # and 7 DVC# Vs casing = 0.653 gal/fc
V ₈ casing = 1.47 gal/ft V ₈ casing = 2.61 gal/ft
Sampling Port: Rate gpm Volume gpl
Location/description
Initial height of water in casing = 5.25 ft; volume = 3.43 gal.
Evacuation at drawdown limit - 3 x initial volume - 10.28 gal.
Evacuation at sampling point = 1 x initial volume = $\frac{3.93}{3.93}$ gal.
Water Color: Claca Total to be evacuated = 13.71 gal.
Decariation of its and
Description of sediment and/or foreign matter in sample:
Point of collection: Manual 1 Toll 72 of the Collection
Point of collection: The end of Tellon Railor # 450
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Depth to water during pumping fttime Sampling /3.25 ft /\(\mathcal{P}\) time Pumped dry? \(\frac{1}{12}\) After \(\frac{1}{12}\) gal. Recovery rate \(\frac{1}{12}\) conditional 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
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WATER SAMILLING DATA WELL NAME / 100	
JOD Name/Number Critical Manager Designation	
Well Spring Surface Other	
Location WELL DATA: Well type (Describer M monitoring well)	
WELL DATA: Well type (Describer M monitoring Well) Depth to Water 14.56 ft (pump/stat) Maximum Drawdown Limit (MDL) ft	
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331/3 11 modern do 66	
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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 SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CHO O MI CHO O MI	•
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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (R = Refrigerated) Analysis Lab CHEAT ADMITED COLLECTED: The 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). CHEMICAL DATA Temperature OC 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 CHON Oml CHON Oml CHON Oml CHON Oml MI ml ml ml ml ml ml ml ml ml m	•
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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CHBA Oml CHBA Oml CHBA Oml CHBA Oml CHBA Oml CHBA Oml M1	•
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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CHON Oml CHON Oml CHON Oml CHON Oml MI ml ml ml ml ml ml ml ml ml m	

80% 214, 8

WATER SAMPLING DATA Well Name MW-7 Date 9-27-88 Time 13:20
Job Name/Number CHEVRON HALLWAYS 4-310-01 Initials DA
Well Spring Surface Other
Location
WELL DATA: Well type (Describe; M = monitoring well)
Depth to Water 1360 ft (pump/stat) Maximum Drawdown Limit (MDL) ft
Well depthft (sounded) Well depthft (spec)
Well diameter 4 in. TOC height above ground ft Water elev. ft
Volume Evacuated: Pumped Pumped Bailed
Time: Stop
Formulas/Conversions
F - Well radius in it
Total hrs/min Total Evacuated 3 gal. h = ht of water col in ft vol. in cyl. = \pi r^2 h
Evacuation Rate 7.48 gal/ft ³
Pump # and type Bailer # and type Va'' casing = 0.163 gal/ft Va'' casing = 0.653 gal/ft Va'' casing = 0.47 gal/ft
Pump # and type Bailer # and type 3' DVC TV casing = 0.653 gal/ft
Hose # and type
Those we find type $\frac{V_0^{**} \text{ casing = 1.47 gal/ft}}{V_0^{**} \text{ casing = 2.51 gal/ft}}$
Sampling Power Dane 2.61 gal/ft
Sampling Port: Rate gpm Volume gal.
Location/description
Initial halaka service of April
Initial height of water in casing - 4.25 ft; volume - 2.78 gal.
Evacuation at drawdown limit = 3 x initial volume = 8.33 gal.
Evacuation at sampling point = 1 x initial volume = 2.18 gal.
Total to be evacuated = //.// gal.
water cotor:
Description of sediment and/or foreign matter in sample: Now
· · · · · · · · · · · · · · · · · · ·
Point of collection.
Total of correction: The and of Telloen Bailer to WEE a
Point of collection: The end of Tellor Baile # 11EE " Depth to water during pumping — ft — time Sampling 18187 ft 14247 time
Pumped dry? V65 After 3 gal. Recovery rate 4/11/16 1/187 ft /43/2 time
Pumped dry? V65 After 5 gal. Recovery rate Almost Computer Discovery in Syland ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDUCTIONS
Pumped dry? 165 After 5 gal. Recovery rate Almost Conditions, Location SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling atc. number of conference.
Pumped dry? V65 After 3 gal. Recovery rate Almost tought of the Sampling 13/87 ft 142/2 time ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over).
Pumped dry? V65 After 5 gal. Recovery rate Almost Comments, Location Sketch, Environmental Conditions, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over).
Pumped dry? V65 After 3 gal. Recovery rate Almost Condition Blanch ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off CHEMICAL DATA
Pumped dry? V65 After 3 gal. Recovery rate Almost Condition of Superior Sup
Pumped dry? V65 After 3 gal. Recovery rate Almost Condition Blanch ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off CHEMICAL DATA
Pumped dry? V65 After 5 gal. Recovery rate Almost Conditions, 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 0C Thermometer # Specific Conductance umhos pH Calibration 4.0,
Pumped dry? V65 After 3 gal. Recovery rate Almost Conditions, 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 Calibration 4.0, 7.0, 10.0 Calibration Temp. oc SAMPLES COLLECTED:
Pumped dry? V65 After 5 gal. Recovery rate Afrect Conditions, 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 Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative
Pumped dry? V65 After 3 gal. Recovery rate Almost Counter Prevent Plans 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,
Pumped dry? V65 After 3 gal. Recovery rate Almost founded 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). CHEMICAL DATA Temperature OC 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) Application Laboratory Laboratory Application 1.15
Pumped dry? V65 After 3 gal. Recovery rate Almost 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 times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos PH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab
Pumped dry? V65 After 3 gal. Recovery rate Almost Conditions, 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
Pumped dry? 165 After 3 gal. Recovery rate Almost Condition 18 187 ft 14347 time 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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample
Pumped dry? VES After 3 gal. Recovery rate Almost longlete licerae, in Blanch 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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab CH 7X
Pumped dry? VES After 3 gal. Recovery rate Almet lander leaver 12 Standard New
Pumped dry? VES After S gal. Recovery rate Almost longle literary, in Blanca 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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CH 7X 40 ml C/ W ml CH 7Y W ml ml ml ml
Pumped dry? VES After S gal. Recovery rate Almant Conditions, and Bullion 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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CH 7X 40 ml
Pumped dry? VES After S gal. Recovery rate Alast Council Memory, No. After S gal. Recovery rate Alast Council Memory, No. Sketch, Environmental Conditions, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos PH Calibration
Pumped dry? V65 After S gal. Recovery rate Almant foundite Property Byland 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 SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CH 77 V ml V Ml V V V V V V V V V V V V V V V V V
Pumped dry? VES After S gal. Recovery rate Almost Condition of Secretary and Secretary rate Almost 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 SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CH 77 V ml V ml V Notation CLAS MI M
Pumped dry? V65 After S gal. Recovery rate Almant foundite Property Byland 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 SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab CH 77 V ml V Ml V V V V V V V V V V V V V V V V V
Pumped dry? Vb After 3 gal. Recovery rate Almant Condition Provided Provide
Pumped dry? VES After 3 gal. Recovery rate Almast Condite Prevent and Second Provided Prevent Provided Prevent
Pumped dry? Vb After 3 gal. Recovery rate Almant Condition Provided Provide

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WATER SAMPLETIC DATA USE IN ALL MANY TO THE COMMENTS	·
Job Name/Number CHEURON HAWWAY 14-310-01	
Well Spring Surface Other	_ Initials LO
Location	
WELL DATA: Well type (Describe: M	- monitoring well)
Depth to water ft (pump/stat) Maximum Drawdown Time	t (MDL) fr
well depth ft (sounded) Well depth	ft (spec)
	er elev. ft
rumped / Bailed	20
Time: Stop	Formulas/Conversions
Start	r = well radius in ft
Total Branch Total Franch	h = ht of water col in ft vol. in cyl. = #r2h
Total Evacuated gal. Evacuation Rate gpm	1.48 gal/ft ³
Evacuation Rate gpm	V2" casing = 0.163 gal/ft
Pump # and type Bailer # and type	V ₃ " casing = 0.367 gal/ft V ₄ " casing = 0.653 gal/ft
Pump # and type Bailer # and type Bailer # and type	$V_{k,s}$ " casing = 0.826 gal/ft
most " and type	V6" casing = 1.47 gal/ft V8" casing = 2.61 gal/ft
Sampling Port: Rategpm Volumegal.	48 casing = 2.61 gal/ft
Location/description gpm Volume gal.	
	
Initial height of water in casing ft; volume	gal.
Evacuation at drawdown limit = 3 x initial volume =	gal.
Evacuation at sampling point = 1 x initial volume =	gal.
Total to be evacuated =	gal.
Water Color: Odor:	8
Description of sediment and/or foreign matter in sample:	
Point of call and	
Point of collection: The ENI) of TEFICAL BALLER	# "11"
Depth to water during pumpingft time Sampling	ft time
Pumped dry? After gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS	
van running nearby, problems with equipment or sampling, etc.,	e.g., weather,
times, etc. (over).	pump on/off
CUENTCAL DATE	1
CHEMICAL DATA	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
TemperatureoC Thermometer #Specific Conductang	umhos
	umhos
TemperatureoC Thermometer # Specific Conductance pH Calibration40,7.0,10.0 Calibration	umhos
TemperatureOC Thermometer # Specific Conductant pH Calibration4.0,7.0,10.0 CalibrationSAMPLES COLLECTED:	umhos
TemperatureOC Thermometer # Specific Conductance pH Calibration4.0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative	umhos
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify)	umhos Temp. OC
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated)	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) CHBX 40 ml C// PAHSO4	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) CHSX	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) CHBX 40 ml C// PAHSO4	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) CHSX	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) CHSX	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration	te umhos Temp. OC Analysis Lab
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TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) (ID No. (Specify) (N = No) (R = Refrigerated) CHSX	te umhos Temp. OC Analysis Lab
TemperatureOC Thermometer # Specific Conductance pH Calibration	te umhos Temp. OC Analysis Lab
Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) (Specify) (N = No) (R = Refrigerated) CHBX 10 ml ml ml ml ml ml ml ml ml ml	Analysis Lab EABLUO CEAS
TemperatureOC Thermometer # Specific Conductance pH Calibration4_0,7.0,10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) (Specify) (N = No) (R = Refrigerated) CHSX	Analysis Lab EABLUO CEAS
Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) (Specify) (N = No) (R = Refrigerated) CHBX 10 ml ml ml ml ml ml ml ml ml ml	Analysis Lab EPABLUO CLAS Clear/Brown Glass;

WATER SAMPLING DATA Well Name The Black Date 9-27-88	Time
Job Name/Number CHEVRON HAYWARD /4-310-0)	Initials BAX
"" Spring Surface Other	
Location	
WELL DATA: Well type (Describe; M Depth to Water ft (pump/stat) Maximum Drawdown Limi Well depth	- monitoring well)
Depth to Water ft (nump/etat) Maniana Daniel	t (MDL) ft
well depth ft (sounded) Well depth	ft (spec)
Well depthft (sounded) Well depth Well diameterin. TOC height above groundft Wat	er elev. ft
- Tumped Fumbed Kalled	
Time: Stop	Formulae (Comment on a
Start	Formulas/Conversions r = well radius in ft
Total hrs/min	h = ht of water col in ft
Total Evacuated gal.	vol. in cyl. = wr ² h
Evacuation Rate gpm	7,48 gal/ft ³ V ₂ " casing = 0.163 gal/ft
	V_2 " casing = 0.367 gal/ft
Pump # and type Bailer # and type	V4" casing = 0.653 gal/ft
Hose # and type	V _{4 5} casing = 0.826 gal/ft
	V _{4.5} " casing = 0.826 gal/ft V ₆ " casing = 1.47 gal/ft V ₈ " casing = 2.61 gal/ft
Sampling Port: Rate gpm Volume 703	
Location/description gar.	
Initial height of water in casing =ft; volume =	an]
	gal.
Evacuation at sampling point = 1 x initial volume =	gar.
Total to be evacuated -	gar.
water Color:	•
Description of sediment and/or foreign matter in sample:	
Point of collection: /	
Death to the second sec	
Depth to water during pumping fr time Sampling	
Depth to water during pumping ft time Sampling Pumped dry?	
ADDITIONAL COMMENTS, LOCATION SKETCH ENVIRONMENTAL CONDUCTION	
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling are	
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling are	
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA	3, e.g., weather, , pump on/off
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA	3, e.g., weather, , pump on/off
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0,7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify)	G, e.g., weather, pump on/off ce umhos
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated)	o, e.g., weather, pump on/off te umhos TempOC
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) CH G X 40 ml C/V X	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0,7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative (specify) Cap (size, u) (specify) ID No.	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance of the conductance	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0,7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative (specify) Cap (size, u) (specify) ID No.	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance of the conductance	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature C Thermometer # Specific Conductance of the cond	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature C Thermometer # Specific Conductance of the condu	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Bottle/ Filtered Preservative Cap (size, u) (specify) ID No.	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA TemperatureOC Thermometer # Specific Conductance pHCalibration4.0,7.0,10.0 Calibration SAMPLES COLLECTED: Sample	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) CH G X D ml CH G Y D ml ml ml ml ml ml ml ml	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) CH G X 40 ml ()	Analysis Lab
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS van running nearby, problems with equipment or sampling, etc., times, etc. (over). CHEMICAL DATA Temperature OC Thermometer # Specific Conductance pH Calibration 4.0, 7.0, 10.0 Calibration SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) CH G X 40 ml ()	Analysis Lab
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Original Chain of Custaly Form to SANGER HALPER

2938 McClure St. Oaki				_	,	V	/		
CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS Shuttle Inventory Number:				5	WA Personnel: Project 1D:		Be sure to include copy of this form in the field sampling files $4-300$		
Shipping Seel No.		rpoet	Laborat	tory Name:	Contral Coast Amely +		NOTES TO LAB: 1) Specify analytic methoreport. 2) Notify us if there are or other scens. 3) Duplicates listed in positions are seen and seen are	d and detection limit in any anomalous peaks on GC	
Sample 10	Sampling Date	Sample/ Container Type	Analyze/ Hold ²	Turn- around ³	SUS Analyze For:		4) ANY QUESTIONS/CLARIFICA malytic Method/ etection Limit	Comments	
CH-1 X14	9/27	NN	<u>A</u>	1/	Ful Fingerment		EM 8240	E-10,090	
CH & X, Y								10,091	
CH6 X, Y	+			-					
CH7 X3 4						 -		<u> 10,093</u>	
CH9 x, y	***	<u></u>	*************************************					10,095	
									
	77 -			<u> </u>	7 10 10				
x Machine 1 Received by (Sign	mturé), D	to 9	-23.8	Ox	Arcen Notes 9-39 ased by (Signature), Date Mintlen	16.4	Released by (Signature), Da	_	
Released by (Sign	eture), D	ete X	Shipping	Carrier,	Method, Date X X// (LC/CV)	Personn	1.30 0900 x 1	I intect?, Number	

- 1 Sample Type Codes: W = Water, S = Soit, 0 = Other (specify). Container Type Codes: V = VOA Bottle, P = Plastic Bottle, G = Glass Bottle, T = Brass Tube, O = Other (specify).
- 2 Analyze/Hold: A = Analyze; HOLD (spell out) = DO NOT ANALYZE UNLESS NECESSARY OR REQUESTED.
- 3 N = Normal Turnsround, F = 1-Week Turnsround, R = 24-Hour Turnsround

Central Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401

(8Ø5) 543-2553

Collected: Received: Tested:

Lob Number:

E-10090 Ø9/27/88 Ø9/3Ø/88

10/05/88 Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8249 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 946Ø9

Project #4-319-91, CH4, Y-Water

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
#BU#=====±±0020##0P0FF====±00###		
Benzene	5.	41.
Toluene	5.	27.
Ethylbenzene	5.	not found
Xylenes	5.	16.
1,2-Dichloroethane (EDC)	5.	not found
Ethylene Dibromide (EDB)	5.	not found
TOTAL PURGEABLE PETROLEUM HYDROCARE (GASOLINE)	ONS 500.	5ØØ.
BTX as a Percent of Fuel		17.
Percent Surrogate Recovery		102.

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D.

President

MSD#3 10-07-88 E19999f.wr1/399 MH/gb/dc/rh

AIR, WATER & HAZARDOUS WASTE LABORATORY CERTIFIED by CALIFORNIA DEPT of HEALTH SERVICES

Central Coast Analytical Services Central Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: Collected: Received:

E-10091 09/27/88 09/30/88 10/05/88

Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 94689

Project #4-310-01, CH5, Y-Water

Tested:

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	5.	39.
Toluene	5.	32.
Ethylbenzene	5.	not found
Xylenes	5.	16.
1,2-Dichloroethane (EDC)	5.	not found
Ethylene Dibromide (EDB)	5.	not found
TOTAL PURGEABLE PETROLEUM HYDRO (GASOLINE)		47Ø.
BTX as a Percent of Fuel		19.
Percent Surrogate Recovery		94.
	医鼠虫属医溶液 化氯苯酚 医电影 医医眼 医甲甲甲甲	

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D.

President

MSD#3 10-07-88 E10091f.wr1/300 MH/gb/dc/rh

Central Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4

San Luis Obispo, California 934Ø1 (805) 543-2553

Lab Number: Collected:

Received:

Tested:

E-10092 Ø9/27/88

09/30/88

10/05/88 Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 946Ø9

Project #4-310-01, CH6, Y-Water

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
#240		
Benzene	ø.ø1	2.2
Toluene	ø.ø1	2.8
Ethylbenzene	ø.ø1	1.7
Xylenes	Ø. Ø1	5.1
1,2-Dichloroethane (EDC)	ø.ø1	Ø.13
Ethylene Dibromide (EDB)	Ø.Ø1	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBO		17.
BTX as a Percent of Fuel		59.
Percent Surrogate Recovery		92.
医拉耳氏性试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检	******	*****

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D.

President

MSD#3 19-97-88 E10092f.wr1/300 MH/gb/dc/rh

Central Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4

141 Suburban Road , Suite C-4 San Luis Obispo, California 934#1 (8#5) 543-2553 Lab Number: E-10093 Collected: 09/27/88 Received: 09/30/88 Tested: 10/05/88

Tested: 10/05/88 Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 94609

Project #4-310-01, CH7, Y-Water

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	Ø.1	9.7
Toluene	Ø.1	8.9
Ethylbenzene	Ø.1	Ø.4
Xylenes	ø. 1	4.1
1,2-Dichloroethane (EDC)	Ø.1	2.6
Ethylene Dibromide (EDB)	Ø.1	not found
TOTAL PURGEABLE PETROLEUM HYDROCARB		3Ø.
BTX as a Percent of Fuel		75.
Percent Surrogate Recovery		108.
*********	*********	* * * = * * * * * * * * * * * * * * * *

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Máry Havlicek, Ph.D.

President

MSD#3 19-97-88 E1993f.wr1/399 MH/gb/dc/rh

Central Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4

San Luis Obispo, California 93401 (8Ø5) 543-2553

Lab Number: E-10094 Collected: Received: Tested:

09/27/88 Ø9/3Ø/88 10/05/88

99.

Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 94689

Project #4-310-01, CH8, Y-Water

Compound Analyzed	Detection Limit in ppm	Concentration in ppm
Benzene	Ø.ØØØ1	not found
Toluene	Ø.ØØ1	not found
Ethylbenzene	Ø.ØØ1	not found
Xylenes	Ø. ØØ1	Ø.ØØ1
1,2-Dichloroethane (EDC)	Ø.ØØØ1	Ø.ØØ15
Ethylene Dibromide (EDB)	Ø.ØØØ1	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBOI (GASOLINE)	NS Ø.05	<ø.ø5
BTX as a Percent of Fuel		not applicab

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Hávlicek, Ph.D.

President

MSD#3 19-97-88 E10094f.wr1/300

Percent Surrogate Recovery

MH/gb/dc/rh

Central Coast

Analytical Services, Inc. 141 Suburban Road , Suite C-4

San Luis Obispo, California 934Ø1

(8Ø5) 543-2553

Lab Number:

E-10095

Collected: Ø9/27/88

Received: Tested:

Ø9/3Ø/88

10/05/88 Collected by: B. Danforth

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

Weiss Associates 2938 McClure Street Oakland, CA 946Ø9

Central

Analytical

Services

Coast

Project #4-310-01, CH9, Y-Water

Compound A	Inalyzed
------------	----------

Detection Limit in ppm

Concentration in ppm

(GASOLINE)	D. 23	(V. V.)
TOTAL PURGEABLE PETROLEUM HYDROCARBONS	Ø. Ø5	 <0.05
Ethylene Dibromide (EDB)	Ø. ØØØ1	not found
1,2-Dichloroethane (EDC)	Ø. ØØØ1	not found
Xylenes	Ø.ØØ1	not found
Ethylbenzene	Ø.ØØ1	not found
Toluene	Ø.ØØ1	not found
Benzene	Ø.ØØØ1	not found

not applicable

Percent Surrogate Recovery

1Ø3.

Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

MSD#3 10-07-88 E16695f.wr1/366

MH/ec/dc/rh

Mary Havlicek, Ph.D.

President

. AIR, WATER & HAZARDOUS WASTE LABORATORY CERTIFIED by CALIFORNIA DEPT of HEALTH SERVICES

Central Coast

CCAS

Central Coast

Lab Number: Collected:

S-10058-2

Analytical Services, Inc. Analytical 141 Suburban Road , Suite C-4

Received:

Services San Luis Obispo, California 93401 Tested: Collected by: 10/05/88

(805) 543-2553

Fuel Fingerprint Analysis - EPA Method 524.2/8240 EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

SAMPLE DESCRIPTION:

STD.1/2X (#100588-4) BTE, EDB & EDC € Ø.020 ppm, Xylenes € Ø.060 ppm

Compound Analyzed	Detection Limit in ppm	Concentration w/spike in ppm	Percent Recovery
Benzene	Ø. ØØ1	Ø.Ø19	95.
Toluene	Ø.ØØ1	Ø.Ø18	9Ø.
Ethylbenzene	Ø.ØØ1	Ø.Ø15	75.
Xylenes	Ø.ØØ1	Ø.Ø54	9Ø.
1,2-Dichloroethane (EDC)	Ø.ØØ1	Ø.Ø25	125.
Ethylene Dibromide (EDB)	Ø. ØØ1	Ø.Ø18	9∅.
TOTAL PURGEABLE PETROLEUM (GASOLINE)	HYDROCARBONS Ø.1	not app	licable
BTX as a Percent of Fuel		not applicable	
Percent Surrogate Recover	ent Surrogate Recovery 105.		

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D.

President

MSD#3 10-07-88 \$10058f2.wr1/300 MH/ec/dc/rh

AIR, WATER & HAZARDOUS WASTE LABORATURY CERTIFIED by CALIFORNIA DEPT OF HEALTH SERVICES

Central Coast Analytical Services

CCAS

Central Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93481

Lab Number: 8-1 Collected:

8-10058

Received: Tested:

10/05/88

(805) 543-2553

Collected by:

Fuel Fingerprint Analysis - EPA Method 524.2/8249 EXTRACTED BY EPA METHOD 5939 (purge-and-trap)

SAMPLE DESCRIPTION:

INSTRUMENT BLANK

Detection Limit in ppm	Concentration in ppm	
Ø.ØØ1	not found	
BONS Ø.1	<∅.1	
	not applicabl	
Percent Surrogate Recovery		
	in ppm Ø.ØØ1 Ø.ØØ1 Ø.ØØ1 Ø.ØØ1 Ø.ØØ1 Ø.ØØ1	

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D.

President

MSD#3 19-97-88 B19958f.wr1/399 MH/b1/dc/rh