TREH

JON CRAWFORD 1831 Truxtun Ave. – Rm. 152 Bakersfield, CA 93301
Registered Petroleum Engineer – California No. P-1313
661-323-2733 [O] 661-834-9253 [H]

RECEIVED
JUN 15 2015
RWQCB-CVR
FRESNO, CALIF.

June 12, 2015

Mr. Ron Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

RE: Technical Report Regarding Produced Water Discharge
Bob Ferguson Independent – Operator
Government Ferguson Lease – Asphalto Field – Kern County, CA

Dear Mr. Holcomb:

Enclosed for your information is subject technical report regarding Bob Ferguson Independent's produced water discharge into three percolation/evaporation ponds; as requested in the CVWB's directive dated April 1, 2015.

The technical report includes the following information:

- A description of the water discharge's process and volumes.
- A certification statement signed by the author of the Technical Report.
- A plot plan of the water disposal system.
- A summary of the location and sizes of each of three ponds.
- An analysis of the produced water made by Midway Laboratory of Taft.
- An analysis of the produced water made by Zalco Laboratory of Bakersfield.
- A copy of the CVWB's directive dated April 1, 2015.

The water analysis directed to be sent by email in Excel format has been forwarded to your office by Ferguson's staff in San Juan Capistrano.

It is Bob Ferguson Independent's desire that subject technical report and attachments fully cover all the information required in the CVWB's directive of April 1, 2015. If there any questions regarding the report, please call the undersigned at the LH number.

Sincerely yours,

Jon Crawford

Jon Crawford
Asphalto Project Manager

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared by myself or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge on the person who manages the lease operation and of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JON CRAWFORD – California Professional Petroleum Engineer

Jon Crawford

California No. P-1313

REGISTERED PROFESSIONAL ENGINEER
JON F CRAWFORD
No. P-1313
PETROLEUM
STATE OF CALIFORNIA

TECHNICAL REPORT REGARDING PRODUCED WATER DISCHARGE

BOB FERGUSON INDEPENDENT – OPERATOR

GOVERNMENT FERGUSON LEASE - ASPHALTO FIELD – SECTION 26, T30S, R22E, MD B&M

OVERVIEW: Bob Ferguson Independent [Ferguson] is the operator of two oil wells located on BLM Lease CAS 071813, the W/2 of NW/4 of Section 26, T30S R22E, MD B&M of the Asphalto Field of Kern County. During calendar year 2014, these wells produced 80,330 barrels [average of 220 BWPD] of formation water which was delivered from a final separation pond to three ponds operating in series of total surface area of approximately 41,100 SF for evaporation and percolation. A plot plan of the delivery system of the water and location of the ponds is attached.

ASPHALTO GROUNDWATER CHARACTER: In a letter dated January 16, 2004, the California Regional Water Quality Control Board, Central Valley Region's Engineering Geologists [Mr. Gray and Mr. Hubbard] concurred with a geological study by Geomega Consultants dated December 1, 2003. The Board's geologists concluded that:

> *There appears to be no alluvial groundwater in the McKittrick Valley on the basis of three geophysical logs and a well test. First groundwater was encountered 545-feet below ground surface in a confined Upper Tulare sand in La Paloma No. 2 [located about 1,000-feet west of Ferguson's Ponds 2 and 3] with 6,100 mg/L TDS water quality.*
>
> *In conclusion, the geohydrological conditions at Asphalto restrict the migration of infiltrating produced water to within the limits of the oilfield proper and therefore, will not allow transport into areas adjacent to the oilfield. This produced water management is protective of groundwater resources of the State.*

WATER SAMPLES: As directed in the Central Valley Water Board's [CVWB] directive dated April 1, 2015, samples of Ferguson's produced water were collected in sample bottles provided by Zalco Labs by Jon Crawford, Ferguson's project manager and California registered petroleum engineer at the place before where this water passes from the separation pond into a hay-box for final cleaning before entering Pond-1 and delivered by Mr. Crawford to Zalco Labs for analysis of those certain compounds and elements noted in the Directive. Other certain compounds and elements requested by the CVWB were submitted as part of Ferguson's 2014 annual report and are made part of this report.

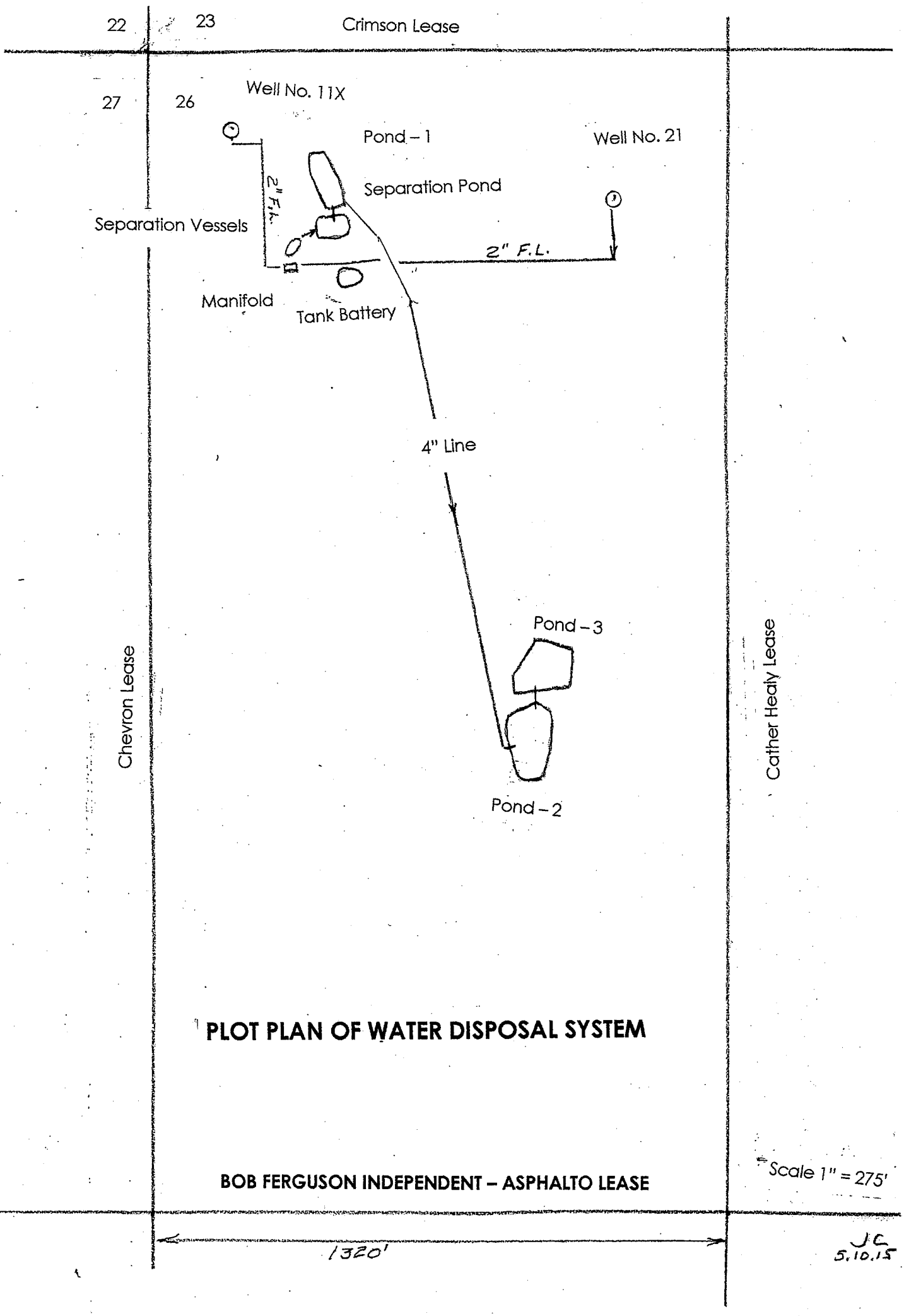
SURFACE IMPOUNDMENTS DETAILS: Ferguson's three ponds operate in series as noted in the attached plot plan and located in Kern County's APN 157-220-08-00-1 [Pond 1]and APN 157-220-09-04 [Ponds 2 and 3].

Produced oil is separated from produced water in a series of two low pressure separators and one stock tank. The formation water [containing minimal amounts of crude oil] is delivered from the separators and from the stock tank into a final oil-water separation pond before being piped to Pond No. 1.

As a result of this three-stage oil/water separation, there is no visible crude oil in Pond No. 1. Before the water in Pond No.1 reaches a free-board level of 2-feet from the pond wall-tops, the produced water is pumped to Pond No. 2; which then flows through a 4-inch over-flow pipe [set at least two-feet below the pond's walls] into Pond No. 3. No other produced waters, other than that flowing into Pond No. 1, enters Ponds Nos. 2 and 3.

This system operates 24 hours per day, 12-months per year [while wells are producing] and in 2014 at total of 80,330 barrels of formation water flowed into Pond-1 and the other three ponds for evaporation and percolation in the three ponds; which have a total surface area of 41,100 SF. It has been noticed that the water level in Pond-3 increases in the winter and decreases in the summer.

POND DIMENSIONS AND LOCATIONS: The requested information regarding the locations and dimensions of each pond is attached. The Lambert coordinates of each pond are for each pond's estimated centers and are based on the Lambert coordinates of near-by wells, obtained from the DOGGR on-line well information. The width and length of each pond was scaled from aerial photos obtained from on-line sources. As these ponds were constructed in the mid-60's and have been in continuous operation, the recorded depths of each pond are estimated from visual observations and may be greater or lesser than reported.


22
23
Crimson Lease
27
26
Well No. 11X
Pond – 1
Well No. 21
Separation Pond
2" F.L.
Separation Vessels
2" F.L.
Manifold
Tank Battery
4" Line
Pond – 3
Chevron Lease
Cather Healy Lease
Pond – 2
PLOT PLAN OF WATER DISPOSAL SYSTEM
BOB FERGUSON INDEPENDENT – ASPHALTO LEASE
Scale 1" = 275'
1320'
JC
5.10.15

BOB FERGUSON INDEPENDENT - ASPHALTO FIELD
PRODUCED WATER EVAPORATIVE PONDS
W/2, NW/4, SECTION 26, T30S, R22E, MD B&M
APN 157-220-08-00-1 KERN COUNTY, CA

POND	POND LOCATION [1] LAMBERT COORDINATES		POND DIMENSIONS [2]				
	LATITUDE	LONGITUDE	LENGTH FEET	WIDTH FEET	AREA SF	DEPTH FEET	CAPACITY BBLS.
1	35.295540	-119.588027	140	50	7,000	15	18,700
2	35.292152	-119.589391	180	100	18,000	25	80,142
3	35.275750	-119.589201	140	115	16,100	25	71,683

[1] Estimated center of ponds.
[2] Scaled from well locations and aerial photos.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 04/01/2015

Kurt Buckle

Midway Laboratory
P O Box 1151
315 Main Street
Taft, CA 93268

Client Project:	28538
BCL Project:	Misc Samples
BCL Work Order:	1507103
Invoice ID:	B199575

Enclosed are the results of analyses for samples received by the laboratory on 3/25/2015. If you have any questions concerning this report, please feel free to contact me.

• Includes BTEX, but no information about Sampling

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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

FREQUENCY 15-07/03

Midway Laboratory, Inc
CHAIN OF CUSTODY FORM

LOG NUMBER: 28538

PAGE: OF

COMPANY: Midway Laboratory, Inc
CONTACT(S): Office Personnel (See
CONTACT(S):
PHONE: 661-765-2364 CELL: FAX: 661-765-6920
ADDRESS: P.O. Box 1151
Taft, CA 93268
EMAIL (S): midwaylab@verizon.net
EMAIL (S):
SAMPLER:
SAMPLER SIGNATURE REQUIRED ABOVE

ANALYSIS REQUESTED: 8260

LAB #	SAMPLE DESCRIPTION	LOCATION FACILITY	SAMPLE DATE	SAMPLE TIME	METER #	8260	NUMBER OF CONTAINERS	TYPE OF CONTAINERS (SEE LIST)	SAMPLE MATRIX (SEE LIST)	PRESERVATIVES REQUIRED (SEE LIST)
1	Government Ferguson Lease Asphalto oil Field		3-23-15	12:00		X	3	G	W	A

PRESERVATIVE LIST: Please indicate preservative required using the corresponding letter at the left of the list.
A HCl - Hydrochloric Acid
B H2SO4 - Sulfuric Acid
C HNO3 - Nitric Acid
D NaOH - Sodium Hydroxide
E NaHSO3 - Sodium Thiosulfate
F Zn Acetate - Zinc Acetate
G O - Other (Please specify in comments)

TEMPERATURE Temp	TEMPERATURE UOM	PRESSURE Pressure	PRESSURE UOM

SAMPLE CONDITION: AT TIME OF ARRIVAL IN THE LAB PLEASE CIRCLE THE APPROPRIATE BOXES BELOW: SAME DAY SAMPLING, COOL, RECEIVED ON ICE, WARM, ROOM TEMPERATURE

PLEASE LIST ANY PM/PO NUMBERS OR COST CODES:

TEMPERATURE MUST BE TAKEN FOR ALL DRINKING WATER SAMPLES UPON ARRIVAL IN THE LAB. THESE ARE TAKEN WITH THE TEMP GUN

TEMP

CONTAINER TYPES: G= GLASS; AG= AMBER GLASS; M= METAL; MC= METAL CYLINDER; P= PLASTIC; SY= SYRINGE; T= TEDLAR; TC= TEFLON COATED; O= OTHER

SAMPLE MATRIX: G= GAS; L= LIQUID; LNG= LIQUEFIED NATURAL GAS; LPG= LIQUEFIED PETROLEUM GAS; O= OIL; S= SOIL; SLD= SOLID; SL= SLUDGE; DW= DRINKING WATER; W= WATER

SAMPLING: Start Time: Total Sample Time: HOURS; Total Mileage: MILES

CHK BY: DISTRIBUTION
SUB-OUT

CHAIN OF CUSTODY SIGNATURE REQUIRED

		DATE	TIME
1.	RELINQUISHED BY	3-24-15	12:30
1.	RECEIVED BY	3-25-15	7:58
1.	RELINQUISHED BY	3-25-15	8:48
1.	RECEIVED BY	3/25/15	0848

INSTRUCTIONS FOR OUTLABING ANALYSIS: All outlabing shipped must include the proper numbers for reporting purposes. All non-drinking water samples must have Sample Number, Date, Time, Sampler's Name. Laboratory must be aware that analysis is required in the State.

IS SAMPLE A RESAMPLE? PLEASE STATE YES OR NO:
ORIGINAL LOG NUMBER:
IS SAMPLE A REVISED PLEASE STATE YES OR NO:

COMMENTS: Samples acidified w/ HCl to Ph <2.00

THIS SPACE RESERVED FOR LABORATORY USE ONLY

Midway Laboratory, Inc.

Alan J. Harris - President/Owner
Phone: 661-765-2364 • Fax: 661-765-6920 • Email: midwaylab@verizon.net • State Certification Number: 1396 • www.midwaylaboratory.com

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Chain of Custody and Cooler Receipt Form for 1507103 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 15-07103

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☑ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 208 Date/Time 3/25/15

Temperature: (A) 3.7 °C / (C) 3.6 °C Analyst Init MVB 0848

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	Acb.L									
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
4 OZ. JAR										
2 OZ. JAR										
FOIL SLEEVE										
VOB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: VOAs have headspace
Sample Numbering Completed By: Date/Time: 3/25/15 0836 [S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMPEC]
A = Actual / C = Corrected

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Midway Laboratory P O Box 1151 315 Main Street Taft, CA 93268	**Reported:** 04/01/2015 11:21 Project: Misc Samples Project Number: 28538 Project Manager: Kurt Buckle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1507103-01	**COC Number:**	---	**Receive Date:**	03/25/2015 08:48
	Project Number:	---	**Sampling Date:**	03/23/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Government Ferguson Lease Asphalt to Oil Field	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

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Midway Laboratory
P O Box 1151
315 Main Street
Taft, CA 93268

Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1507103-01 **Client Sample Name:** Government Ferguson Lease Asphalt to Oil Field, 3/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	1800	ug/L	12	2.1	EPA-8260B	ND	A01,Z1	1
Bromobenzene	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
Bromochloromethane	ND	ug/L	12	6.0	EPA-8260B	ND	A01,Z1	1
Bromodichloromethane	ND	ug/L	12	3.5	EPA-8260B	ND	A01,Z1	1
Bromoform	ND	ug/L	12	6.8	EPA-8260B	ND	A01,Z1	1
Bromomethane	ND	ug/L	25	6.2	EPA-8260B	ND	A01,Z1	1
n-Butylbenzene	ND	ug/L	12	2.8	EPA-8260B	ND	A01,Z1	1
sec-Butylbenzene	ND	ug/L	12	3.8	EPA-8260B	ND	A01,Z1	1
tert-Butylbenzene	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
Carbon tetrachloride	ND	ug/L	12	4.5	EPA-8260B	ND	A01,Z1	1
Chlorobenzene	ND	ug/L	12	2.3	EPA-8260B	ND	A01,Z1	1
Chloroethane	ND	ug/L	12	3.5	EPA-8260B	ND	A01,Z1	1
Chloroform	ND	ug/L	12	3.0	EPA-8260B	ND	A01,Z1	1
Chloromethane	ND	ug/L	12	3.5	EPA-8260B	ND	A01,Z1	1
2-Chlorotoluene	ND	ug/L	12	5.0	EPA-8260B	ND	A01,Z1	1
4-Chlorotoluene	ND	ug/L	12	3.8	EPA-8260B	ND	A01,Z1	1
Dibromochloromethane	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
1,2-Dibromo-3-chloropropane	ND	ug/L	25	11	EPA-8260B	ND	A01,Z1	1
1,2-Dibromoethane	ND	ug/L	12	4.0	EPA-8260B	ND	A01,Z1	1
Dibromomethane	ND	ug/L	12	6.0	EPA-8260B	ND	A01,Z1	1
1,2-Dichlorobenzene	ND	ug/L	12	1.8	EPA-8260B	ND	A01,Z1	1
1,3-Dichlorobenzene	ND	ug/L	12	3.8	EPA-8260B	ND	A01,Z1	1
1,4-Dichlorobenzene	ND	ug/L	12	1.6	EPA-8260B	ND	A01,Z1	1
Dichlorodifluoromethane	ND	ug/L	12	2.5	EPA-8260B	ND	A01,Z1	1
1,1-Dichloroethane	ND	ug/L	12	2.8	EPA-8260B	ND	A01,Z1	1
1,2-Dichloroethane	ND	ug/L	12	4.2	EPA-8260B	ND	A01,Z1	1
1,1-Dichloroethene	ND	ug/L	12	4.5	EPA-8260B	ND	A01,Z1	1
cis-1,2-Dichloroethene	ND	ug/L	12	2.1	EPA-8260B	ND	A01,Z1	1
trans-1,2-Dichloroethene	ND	ug/L	12	3.8	EPA-8260B	ND	A01,Z1	1
1,2-Dichloropropane	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
1,3-Dichloropropane	ND	ug/L	12	2.2	EPA-8260B	ND	A01,Z1	1
2,2-Dichloropropane	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
1,1-Dichloropropene	ND	ug/L	12	2.1	EPA-8260B	ND	A01,Z1	1

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Midway Laboratory
P O Box 1151
315 Main Street
Taft, CA 93268

Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1507103-01 **Client Sample Name:** Government Ferguson Lease Asphalt to Oil Field, 3/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	12	3.5	EPA-8260B	ND	A01,Z1	1
trans-1,3-Dichloropropene	ND	ug/L	12	2.0	EPA-8260B	ND	A01,Z1	1
Ethylbenzene	**85**	**ug/L**	**12**	**2.4**	**EPA-8260B**	ND	**A01,Z1**	1
Hexachlorobutadiene	ND	ug/L	12	4.2	EPA-8260B	ND	A01,Z1	1
Isopropylbenzene	**7.0**	**ug/L**	**12**	**3.5**	**EPA-8260B**	ND	**J,A01,Z1**	1
p-Isopropyltoluene	ND	ug/L	12	3.0	EPA-8260B	ND	A01,Z1	1
Methylene chloride	ND	ug/L	25	12	EPA-8260B	ND	A01,Z1	1
Methyl t-butyl ether	ND	ug/L	12	2.8	EPA-8260B	ND	A01,Z1	1
Naphthalene	ND	ug/L	12	9.0	EPA-8260B	ND	A01,Z1	1
n-Propylbenzene	**7.2**	**ug/L**	**12**	**2.8**	**EPA-8260B**	ND	**J,A01,Z1**	1
Styrene	ND	ug/L	12	1.7	EPA-8260B	ND	A01,Z1	1
1,1,1,2-Tetrachloroethane	ND	ug/L	12	4.5	EPA-8260B	ND	A01,Z1	1
1,1,2,2-Tetrachloroethane	ND	ug/L	12	4.2	EPA-8260B	ND	A01,Z1	1
Tetrachloroethene	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
Toluene	**1400**	**ug/L**	**12**	**2.3**	**EPA-8260B**	ND	**A01,Z1**	1
1,2,3-Trichlorobenzene	ND	ug/L	12	4.0	EPA-8260B	ND	A01,Z1	1
1,2,4-Trichlorobenzene	ND	ug/L	12	4.8	EPA-8260B	ND	A01,Z1	1
1,1,1-Trichloroethane	ND	ug/L	12	2.8	EPA-8260B	ND	A01,Z1	1
1,1,2-Trichloroethane	ND	ug/L	12	4.0	EPA-8260B	ND	A01,Z1	1
Trichloroethene	ND	ug/L	12	2.1	EPA-8260B	ND	A01,Z1	1
Trichlorofluoromethane	ND	ug/L	12	3.2	EPA-8260B	ND	A01,Z1	1
1,2,3-Trichloropropane	ND	ug/L	25	6.0	EPA-8260B	ND	A01,Z1	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	12	3.8	EPA-8260B	ND	A01,Z1	1
1,2,4-Trimethylbenzene	**70**	**ug/L**	**12**	**3.0**	**EPA-8260B**	ND	**A01,Z1**	1
1,3,5-Trimethylbenzene	**16**	**ug/L**	**12**	**3.0**	**EPA-8260B**	ND	**A01,Z1**	1
Vinyl chloride	ND	ug/L	12	3.0	EPA-8260B	ND	A01,Z1	1
Total Xylenes	**600**	**ug/L**	**25**	**9.0**	**EPA-8260B**	ND	**A01,Z1**	1
p- & m-Xylenes	**410**	**ug/L**	**12**	**7.0**	**EPA-8260B**	ND	**A01,Z1**	1
o-Xylene	**190**	**ug/L**	**12**	**2.0**	**EPA-8260B**	ND	**A01,Z1**	1
1,2-Dichloroethane-d4 (Surrogate)	95.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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P O Box 1151
315 Main Street
Taft, CA 93268

Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1507103-01 | **Client Sample Name:** Government Ferguson Lease Asphalt to Oil Field, 3/23/2015 12:00:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/27/15	03/31/15 15:14	JPT	MS-V13	25	BYC2544

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Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC2544						
Benzene	BYC2544-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYC2544-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYC2544-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYC2544-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYC2544-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYC2544-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYC2544-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYC2544-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYC2544-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYC2544-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYC2544-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYC2544-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYC2544-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYC2544-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYC2544-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYC2544-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYC2544-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYC2544-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYC2544-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYC2544-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYC2544-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYC2544-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYC2544-BLK1	ND	ug/L	0.50	0.14	

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Midway Laboratory
P O Box 1151
315 Main Street
Taft, CA 93268

Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC2544						
trans-1,3-Dichloropropene	BYC2544-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYC2544-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYC2544-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYC2544-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BYC2544-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYC2544-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYC2544-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYC2544-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYC2544-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYC2544-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYC2544-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYC2544-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYC2544-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYC2544-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYC2544-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYC2544-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYC2544-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BYC2544-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BYC2544-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYC2544-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYC2544-BLK1**	**87.7**	**%**	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYC2544-BLK1**	**98.1**	**%**	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYC2544-BLK1**	**94.8**	**%**	**80 - 120 (LCL - UCL)**		

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Midway Laboratory P O Box 1151 315 Main Street Taft, CA 93268	**Reported:** 04/01/2015 11:21 Project: Misc Samples Project Number: 28538 Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYC2544										
Benzene	BYC2544-BS1	LCS	20.780	25.000	ug/L	83.1		70 - 130		
Bromodichloromethane	BYC2544-BS1	LCS	23.920	25.000	ug/L	95.7		70 - 130		
Chlorobenzene	BYC2544-BS1	LCS	22.520	25.000	ug/L	90.1		70 - 130		
Chloroethane	BYC2544-BS1	LCS	20.330	25.000	ug/L	81.3		70 - 130		
1,4-Dichlorobenzene	BYC2544-BS1	LCS	23.620	25.000	ug/L	94.5		70 - 130		
1,1-Dichloroethane	BYC2544-BS1	LCS	21.620	25.000	ug/L	86.5		70 - 130		
1,1-Dichloroethene	BYC2544-BS1	LCS	25.200	25.000	ug/L	101		70 - 130		
Toluene	BYC2544-BS1	LCS	22.450	25.000	ug/L	89.8		70 - 130		
Trichloroethene	BYC2544-BS1	LCS	24.070	25.000	ug/L	96.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYC2544-BS1	LCS	9.4500	10.000	ug/L	94.5		75 - 125		
Toluene-d8 (Surrogate)	BYC2544-BS1	LCS	9.8400	10.000	ug/L	98.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYC2544-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		

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Midway Laboratory
P O Box 1151
315 Main Street
Taft, CA 93268

Reported: 04/01/2015 11:21
Project: Misc Samples
Project Number: 28538
Project Manager: Kurt Buckle

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYC2544	*Used client sample: N*										
Benzene	MS	1506890-13	ND	22.040	25.000	ug/L		88.2		70 - 130	
	MSD	1506890-13	ND	21.690	25.000	ug/L	1.6	86.8	20	70 - 130	
Bromodichloromethane	MS	1506890-13	ND	25.180	25.000	ug/L		101		70 - 130	
	MSD	1506890-13	ND	25.560	25.000	ug/L	1.5	102	20	70 - 130	
Chlorobenzene	MS	1506890-13	ND	23.950	25.000	ug/L		95.8		70 - 130	
	MSD	1506890-13	ND	24.500	25.000	ug/L	2.3	98.0	20	70 - 130	
Chloroethane	MS	1506890-13	ND	22.220	25.000	ug/L		88.9		70 - 130	
	MSD	1506890-13	ND	21.330	25.000	ug/L	4.1	85.3	20	70 - 130	
1,4-Dichlorobenzene	MS	1506890-13	ND	24.710	25.000	ug/L		98.8		70 - 130	
	MSD	1506890-13	ND	24.760	25.000	ug/L	0.2	99.0	20	70 - 130	
1,1-Dichloroethane	MS	1506890-13	ND	23.180	25.000	ug/L		92.7		70 - 130	
	MSD	1506890-13	ND	22.700	25.000	ug/L	2.1	90.8	20	70 - 130	
1,1-Dichloroethene	MS	1506890-13	ND	26.820	25.000	ug/L		107		70 - 130	
	MSD	1506890-13	ND	26.550	25.000	ug/L	1.0	106	20	70 - 130	
Toluene	MS	1506890-13	ND	23.860	25.000	ug/L		95.4		70 - 130	
	MSD	1506890-13	ND	24.200	25.000	ug/L	1.4	96.8	20	70 - 130	
Trichloroethene	MS	1506890-13	ND	25.430	25.000	ug/L		102		70 - 130	
	MSD	1506890-13	ND	25.420	25.000	ug/L	0.0	102	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1506890-13	ND	9.6800	10.000	ug/L		96.8		75 - 125	
	MSD	1506890-13	ND	9.1300	10.000	ug/L	5.8	91.3		75 - 125	
Toluene-d8 (Surrogate)	MS	1506890-13	ND	9.9300	10.000	ug/L		99.3		80 - 120	
	MSD	1506890-13	ND	9.9100	10.000	ug/L	0.2	99.1		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1506890-13	ND	9.9500	10.000	ug/L		99.5		80 - 120	
	MSD	1506890-13	ND	10.340	10.000	ug/L	3.8	103		80 - 120	

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Midway Laboratory P O Box 1151 315 Main Street Taft, CA 93268	**Reported:** 04/01/2015 11:21 *Project:* *Misc Samples* Project Number: 28538 Project Manager: Kurt Buckle

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	*Analyte Not Detected*
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
Z1	[50uL of antifoamer added to sample voa]

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Midway Laboratory, Inc.

LABORATORY REPORT

ELAP STATE CERT. #1396

CUSTOMER: Bob Ferguson Independent
ADDRESS: 30448 Ranch Viejo Rd., Suite 172
San Juan Capistrano, CA 92675
ATTENTION: Jon Crawford

LOG NUMBER: 28538
DATE RECEIVED: 03-23-15
DATE COMPLETED: 03-26-15
REPORT DATE: 03-26-15

SAMPLE DECRIPTION: Asphalto Oil Field

SAMPLE MATRIX: W = Water

ANALYTICAL PARAMETER: Boron, Chloride, Conductivity , Total Dissolved Solids (TDS)

Analytical Parameter	Results		PQL	Method Number
Boron (B)	147	(mg/L)	0.01	EPA 200.7
Chloride (Cl)	16,070	(mg/L)	2.0	SM 4500 – Cl B
Conductivity	50,600	(umhos/cm)	-	SM 2510 B
TDS	31,060	(mg/L)	-	SM 2540 C

NOTES:

1) PQL = Practical Quantitation Limit is the lowest level that can be reliably achieved within specific limits of precision and accuracy. It also depends upon the size and digestion/analytical techniques employed.
2) N.D. = Not Detected

REFERENCES:

1) ALPHA-AWWA-WPCF, "**Standard Methods for the Examination of Water and Wastewater.**" 18th Edition.
2) EPA, "**Methods for Chemical Analysis of Water and Wastes.**" 1983 United States Environmental Protection Agency, EPA 600/4-79-020, Revised March 1983.

Q.C. KR Date: 3/30/15

Q.C. [illegible] Date: 3/30/15

Date: 3-30-15

Kurt Buckle - Laboratory Director Midway Laboratory, Inc.

Midway Laboratory, Inc.
Petroleum-Industrial-Environmental
315 Main Street P.O. Box 1151
Taft California 93268
Phone (661) 763-2364 ♦ Fax (661) 765-6920 ♦ midwaylab@verizon.net♦ www.midwaylaboratory.com

AREA: _____

FREQUENCY

Midway Laboratory, Inc

CHAIN OF CUSTODY FORM

LOG NUMBER: 28538

PAGE: OF

COMPANY: Bob Ferguson

CONTACT(S):

CONTACT(S):

PHONE: CELL: FAX:

ADDRESS:

EMAIL (S):

EMAIL (S):

SAMPLER: Jon Crawford

SAMPLER SIGNATURE REQUIRED ABOVE

ANALYSIS REQUESTED

LAB #	SAMPLE DESCRIPTION / LOCATION / FACILITY	SAMPLE DATE	SAMPLE TIME	METER #	Chloride	Boron	TDS + cond.	8260				NUMBER OF CONTAINERS	TYPE OF CONTAINERS (SEE LIST)	SAMPLE MATRIX (SEE LIST)	PRESERVATIVES REQUIRED (SEE LIST)	Temp	UOM	Pressure	UOM	TEMP
	Government Ferguson Lease Asphalt oil Field	3/23/15	12:00		X	X	X	X				3	G	W	HCL					
	Asphalt oil Field																			

PRESERVATIVE LIST

Please indicate preservative required using the corresponding letter at the left of the list

A	HCl - Hydrochloric Acid
B	H2SO4 - Sulfuric Acid
C	HNO3 - Nitric Acid
D	NaOH- Sodium Hydroxide
E	NA2S2O3 - Sodium Thiosulfate
F	Zn Acetate - Zinc Acetate
G	O - Other (Please specify in comments)

SAMPLE CONDITION

AT TIME OF ARRIVAL IN THE LAB PLEASE CIRCLE THE APPROPRIATE BOXES BELOW:

SAME DAY SAMPLING
COOL
RECEIVED ON ICE
WARM
ROOM TEMPERATURE

PLEASE LIST ANY PM PO NUMBERS OR COST CODES:

TEMPERATURE MUST BE TAKEN FOR ALL DRINKING WATER SAMPLES UPON ARRIVAL IN THE LAB

THESE ARE TAKEN WITH THE TEMP GUN

CONTAINER TYPES

G= GLASS
AG= AMBER GLASS
M= METAL
MC= METAL CYLINDER
P= PLASTIC
SY= SYRINGE
T= TEDLAR
TC= TEFLON COATED
O= OTHER

SAMPLE MATRIX

G= GAS
L= LIQUID
LNG= LIQUEFIED NATURAL GAS
LPG= LIQUEFIED PETROLEUM GAS
O= OIL
S= SOIL
SLD= SOLID
SL= SLUDGE
DW= DRINKING WATER
W= WATER

SAMPLING

Start Time:

Total Sample Time: HOURS

Total Mileage: MILES

CHAIN OF CUSTODY SIGNATURE RECORD:

	RELINQUISHED BY	DATE	TIME
1.	Jon Crawford		
	RECEIVED BY	DATE	TIME
1.	Sheri Wells	3/23/15	1:20
	RELINQUISHED BY	DATE	TIME
1.			
	RECEIVED BY	DATE	TIME

INSTRUCTIONS FOR OUTLABBING ANALYSIS:

ALL outlabbed analysis must include the method numbers for requested anleysis.

ALL drinking water samples must include: Source Numbers Sampler's Name

Laboratory must be aware that analysis is to be reported to the State

IS SAMPLE A RESAMPLE? PLEASE STATE YES OF NO:

ORGINAL LOG NUMBER:

IS SAMPLE A REVISED PLEASE STATE YES OF NO:

COMMENTS:

THIS SPACE RESERVED FOR LABORATORY USE ONLY

Midway Laboratory, Inc.

Alan J. Harris - President/Owner

Phone: 661-765-2364 ♦ Fax: 661-765-6920 ♦ Email: midwaylab@verizon.net ♦ State Certification Number: 1396 ♦ www.midwaylaboratory.com

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

May 26, 2015

Bob Ferguson
Bob Ferguson Independent
30448 Rancho Viejo Road Suite 172
San Juan Capistrano, CA 92675

TEL: (949) 481-7002
FAX: (949) 458-1496

Project ID:
RE: 1505002

Dear Bob Ferguson:

Zalco Laboratories, Inc. received 2 samples on 5/1/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:jonpe@sbcglobal.net

Missing BTEX

• Blurry, Poor quality printing-

NSS: Not Sufficient Sample HT: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Bob Ferguson Independent	Project: Master	Work Order No.: 1505002
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: 1505002-01	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	2700	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Bicarbonate (HCO3)	2700	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<2.0	2.0	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Arsenic	<0.20	0.20	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Barium	3.7	1.0	*10000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Beryllium	<0.10	0.10	*75*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Cadmium	<0.10	0.10	*100*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Chromium	<0.50	0.50	*2500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Cobalt	<1.0	1.0	*8000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Copper	<0.50	0.50	*2500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Lead	<0.50	0.50	*1000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/5/15	5/5/15	SS
Molybdenum	<1.0	1.0	*3500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Nickel	<0.50	0.50	*2000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Selenium	<0.50	0.50	*100*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Silver	<0.20	0.20	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Thallium	<5.0	5.0	*700*	mg/l		SW846 6010B	5/4/15	5/5/15	SS
Vanadium	<1.0	1.0	*2400*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Zinc	<0.50	0.50	*5000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<1.0	1.0	*2*	mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Nitrate as NO3	<2000	2000	*45*	mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Electrical Conductivity	48	0.010		mmhos/cm		SM 2510B	5/1/15	5/1/15	SAM
Bromide	110	1.0		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Chloride	16000	2000		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
pH	7.57			pH Units		EPA 150.1	5/1/15	5/1/15	SAM
Sulfate as SO4	100	5.0		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Total Dissolved Solids	30000	10		mg/L		SM 2540C	5/4/15	5/4/15	MSS
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Bob Ferguson Independent	Project: Master	Work Order No.: 1505002
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: 1505002-01	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	170	2.0	mg/L		SM 2340B	5/4/15	5/4/15	SS
Metals								
Lithium	3.1	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Metals - As Received								
Magnesium	27	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Potassium	71	5.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Sodium	5400	350	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Calcium	23	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Iron	<1.0	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Boron	110	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Barium	2.6	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Copper	0.53	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Silica (SiO2)	48	40	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Strontium	12	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Manganese	<0.30	0.30	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	6.68	0.25	mg/L		SW846 8015B	5/4/15	5/12/15	JMM
Gasoline Range Hydrocarbons	1.73	0.250	mg/L		SW846 8015B	5/13/15	5/13/15	HLP
Motor Oil Range Hydrocarbons	5.06	0.75	mg/L		SW846 8015B	5/4/15	5/12/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag		
α,α,α-Trifluorotoluene	115	69-125		5/13/15 13:51	

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0		ug/l	SW846 8270C	5/7/15	5/7/15	JMM
Naphthalene	32.0	10.0		ug/L	SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthylene	<10.0	10.0		ug/L	SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthene	<10.0	10.0		ug/L	SW846 8270C	5/7/15	5/7/15	JMM
Fluorene	<10.0	10.0		ug/l	SW846 8270C	5/7/15	5/7/15	JMM
Phenanthrene	<10.0	10.0		ug/l	SW846 8270C	5/7/15	5/7/15	JMM
Anthracene	<10.0	10.0		ug/l	SW846 8270C	5/7/15	5/7/15	JMM

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Bob Ferguson Independent	Project: Master	Work Order No. 1505002
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: 1505002-01	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
D-benz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	63.8	0-95		5/7/15 11:20
2-Fluorobiphenyl	58.6	0-93		5/7/15 11:20
Terphenyl-d14	60.0	0-100		5/7/15 11:20

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/7/15	5/8/15	JMM
Radium-226	5.24	3.00	pCi/L		E903.1	5/6/15	5/8/15	JMM
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/15/15	5/18/15	JMM
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/19/15	5/19/15	JMM

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Bob Ferguson Independent	Project: Master	Work Order No.: 1505002
30446 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: **1505002-02** Collected By:

Client Sample ID: Inlet to Sump 2 Date Collected: 5/15/2015 12:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons								
Gasoline Range Hydrocarbons	6.46	1.25	mg/L		SW846 8015B	5/15/15	5/15/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	103	69-125		5/15/15 10:35

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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ZALCO LABORATORIES, INC.

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CHAIN OF CUSTODY, ID# 150602

Page ____ of ____

Zalco Lab # ____

Client PO # ____

PROJECT ID: ____

QUOTE ID: ____

REPORT INFO	INVOICE INFO
Client: R.B. Ferguson	Invoice To: Same as Client ☒
Address: 30948 Paloma Viejo	Address:
City, State, Zip: Sp Hills 92675 San Juan Capistrano CA	City, State, Zip:
Attention: Bob Ferguson	Attention:
Phone: Results ☐ 661-323-2733	Phone:
Fax: Results ☐	Fax:
Email: Results ☐	Email:

SAMPLED BY: Jon Crawford **EMPLOYED BY:** R B Ferguson

Sample No.*	Sample Description	Sample Date	Sample Time	Sample Type*	# of Containers	ANALYSIS: See attached								Temperature (C°)
1	Inlet to Sump 2	4/30	1430	W	2	X								
2	Inlet to Sump 2	5/15		W	2	X								

COMMENTS:

Turnaround Time:
Routine 10 working days
Rush By ____ working days

Send Copy to State of CA? Yes ☐ No ☐

Attention To: ____

Send Copy to County? Yes ☐ No ☐

County ____

cc: jonpe@socglobal.net
323-2733

C.O.D.

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Jon Crawford			4/30	1045	[illegible]	K Springer
Jon Crawford			5/15	1345	[illegible]	

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY

CLIENT	PROJECT	PROJECTNUM	LABNAME	SAMPLENAME	LABSAMPID	MATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH	METHODCODE
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505049	Alkalinity-SM2:
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505049	Alkalinity-SM2:
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505049	Alkalinity-SM2:
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505049	Alkalinity-SM2:
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Ba-As Receivec
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	B-As Received-
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 11:37	5/1/2015 16:27	Z505044	Br-E300.0
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Ca-As Receivec
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	CAM-Met-Ag-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-As-6(
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Ba-6(
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Be-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Cd-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Co-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Cr-6(
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Cu-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/5/2015 11:22	5/5/2015 12:37	Z505028	Cam-Met-Hg-7
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Mo-(
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Ni-6(
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Pb-6
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Tl-6C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-V-60
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Cu-As Receivec
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505052	EC-SM2510B
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Fe-As Receivec
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Hardness-SM2.
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	K-As Received-
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Mg-As Receive
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Mn-As Receive
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 17:00	5/1/2015 17:00	Z505049	pH-E150.1
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson	I Master	[none]	Zalco Laborato	Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C

Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 11:14	5/7/2015 11:20	Z505085	PNA-SW8270C
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/15/2015 16:30	5/18/2015 19:50	Z505144	Radium 228-EF
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Sb-6(
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Se-6(
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 10:46	5/5/2015 15:23	Z505026	Cam-Met-Zn-6(
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 11:37	5/1/2015 16:12	Z505044	Cl-E300.0
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 11:37	5/1/2015 16:27	Z505044	F-E300.0
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/7/2015 7:45	5/8/2015 13:00	Z505144	Gross Alpha EP
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:21	5/4/2015 16:59	Z505015	Li-E200.7
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Na-As Receive(
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 11:37	5/1/2015 16:12	Z505044	NO3-E300.0
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/6/2015 19:00	5/8/2015 13:20	Z505144	Radium 226-E9
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	SiO2-As Receiv
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/1/2015 11:37	5/1/2015 16:27	Z505044	SO4-E300.0
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:27	5/12/2015 14:29	Z505200	TPH, Diesel Ra
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/13/2015 8:48	5/13/2015 12:51	Z505194	TPH, Gasoline I
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/13/2015 8:48	5/13/2015 12:51	Z505194	TPH, Gasoline I
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-02	Water	5/15/2015	5/15/2015 10:34	5/15/2015 10:35	Z505241	TPH, Gasoline I
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-02	Water	5/15/2015	5/15/2015 10:34	5/15/2015 10:35	Z505241	TPH, Gasoline I
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:23	5/4/2015 16:59	Z505014	Sr-As Received
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:46	5/4/2015 14:46	Z505033	TDS-SM2540C
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/4/2015 14:27	5/12/2015 14:29	Z505200	TPH, Motor Oil
Bob Ferguson I Master	[none]	Zalco Laborato Inlet to Sump 2	1505002-01	Water	4/30/2015 14:30	5/19/2015 7:05	5/19/2015 18:18	Z505144	Uranium-E908

METHODNAMI	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	RESULT	DL	RL	UNITS	BASIS	DILUTION	SPIKELEVEL	RECOVERY
SM 2320B	No Prep - Benc	Bicarbonate (HCO3)		FALSE		2700	10	mg/L	NA	1		
SM 2320B	No Prep - Benc	Carbonate (CO	NA	FALSE	ND		10	mg/L	NA	1		
SM 2320B	No Prep - Benc	Hydroxide (OH	10035-10-6	FALSE	ND		10	mg/L	NA	1		
SM 2320B	No Prep - Benc	Total Alkalinity	NA	FALSE		2700	10	mg/L	NA	1		
EPA 200.7	Metals - As Rec	Barium	7440-39-3	FALSE		2.6	1	mg/L	NA	10		
EPA 200.7	Metals - As Rec	Boron	7440-42-8	FALSE		110	1	mg/L	NA	10		
EPA 300.0	No Prep - Instr	Bromide	24959-67-9	FALSE		110	0.15	1 mg/L	NA	10		
EPA 200.7	Metals - As Rec	Calcium	7440-70-2	FALSE		23	0.5	mg/L	NA	10		
SW846 6010B	EPA 3010A	Silver	7440-22-4	FALSE	ND		0.2	mg/L	NA	10		
SW846 6010B	EPA 3010A	Arsenic	7440-38-2	FALSE	ND		0.2	mg/L	NA	10		
SW846 6010B	EPA 3010A	Barium	7440-39-3	FALSE		3.7	1	mg/L	NA	10		
SW846 6010B	EPA 3010A	Beryllium	7440-41-7	FALSE	ND		0.1	mg/L	NA	10		
SW846 6010B	EPA 3010A	Cadmium	7440-43-9	FALSE	ND		0.1	mg/L	NA	10		
SW846 6010B	EPA 3010A	Cobalt	7440-48-4	FALSE	ND		1	mg/L	NA	10		
SW846 6010B	EPA 3010A	Chromium	7440-47-3	FALSE	ND		0.5	mg/L	NA	10		
SW846 6010B	EPA 3010A	Copper	7440-50-8	FALSE	ND		0.5	mg/L	NA	10		
SW846 7470A	EPA 7470A Pre	Mercury	7439-97-6	FALSE	ND		0.002	mg/L	NA	1		
SW846 6010B	EPA 3010A	Molybdenum	7439-98-7	FALSE	ND		1	mg/L	NA	10		
SW846 6010B	EPA 3010A	Nickel	7440-02-0	FALSE	ND		0.5	mg/L	NA	10		
SW846 6010B	EPA 3010A	Lead	7439-92-1	FALSE	ND		0.5	mg/L	NA	10		
SW846 6010B	EPA 3010A	Thallium	7440-28-0	FALSE	ND		5	mg/L	NA	10		
SW846 6010B	EPA 3010A	Vanadium	7440-62-2	FALSE	ND		1	mg/L	NA	10		
EPA 200.7	Metals - As Rec	Copper	7440-50-8	FALSE		0.53	0.5	mg/L	NA	10		
SM 2510B	No Prep - Benc	Electrical Conductivity		FALSE		48	0.01	mmhos/cm	NA	1		
EPA 200.7	Metals - As Rec	Iron	7439-89-6	FALSE	ND		1	mg/L	NA	10		
SM 2340B	Metals - As Rec	Hardness (as C	NA	FALSE		170	2	mg/L	NA	1		
EPA 200.7	Metals - As Rec	Potassium	9/7/7440	FALSE		71	5	mg/L	NA	10		
EPA 200.7	Metals - As Rec	Magnesium	7439-95-4	FALSE		27	0.5	mg/L	NA	10		
EPA 200.7	Metals - As Rec	Manganese	7439-96-5	FALSE	ND		0.3	mg/L	NA	10		
EPA 150.1	No Prep - Benc	pH	NA	FALSE		7.57		pH Units	NA	1		
SW846 8270C	EPA 3510C_MS	2-Fluorobipher	321-60-8	TRUE		5.86		ug/L	NA	1	10	58.6
SW846 8270C	EPA 3510C_MS	Acenaphthene	83-32-9	FALSE	ND		0.5	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Acenaphthylen	208-96-8	FALSE	ND		0.5	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Anthracene	120-12-7	FALSE	ND		0.7	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Benzo (a) anth	56-55-3	FALSE	ND		0.8	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Benzo (a) pyre	50-32-8	FALSE	ND		0.7	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Benzo (b) fluor	205-99-2	FALSE	ND		0.7	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Benzo (g,h,i) p	191-24-2	FALSE	ND		0.8	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Benzo (k) fluor	207-08-9	FALSE	ND		0.8	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Chrysene	218-01-9	FALSE	ND		0.8	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Dibenz (a,h) an	53-70-3	FALSE	ND		0.6	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Fluoranthene	206-44-0	FALSE	ND		0.8	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Fluorene	86-73-7	FALSE	ND		0.5	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Indeno(1,2,3-c	193-39-5	FALSE	ND			10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Naphthalene	91-20-3	FALSE		32		10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Nitrobenzene-i	NA	TRUE		6.38		ug/L	NA	1	10	63.8
SW846 8270C	EPA 3510C_MS	Phenanthrene	85-01-8	FALSE	ND		0.7	10 ug/L	NA	1		
SW846 8270C	EPA 3510C_MS	Pyrene	129-00-0	FALSE	ND		0.8	10 ug/L	NA	1		

UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE
		SAM			
		SAM			
		SAM			
		SAM			
		SS			
		SS			
		MSS			
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		MSS
		JMM
		JMM

1 April 2015

Robert B. Ferguson
Bob Ferguson Independent
30448 Rancho Viejo Road, Suite 172
San Juan Capistrano, CA 92675-1598

CERTIFIED MAIL
7014 3490 0001 7023 0100

CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267. You are legally obligated to respond to this Order. Please read this Order carefully.

Bob Ferguson Independent (hereafter Discharger) has been identified as the owner or operator of petroleum production wastewater disposal ponds (ponds). A list of the ponds (and the leases and oil fields where they are located) that the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) identifies as under your control is presented in Attachment A. Ponds for the disposal of wastewater generated during the course of petroleum production have the potential to affect the quality of groundwater (a water of the State). Groundwater underlying the areas where your ponds are located have beneficial uses as identified in the Water Quality Control Plan for the Tulare Lake Basin (Basin Plan).

This order requires the collection and analysis of wastewater samples collected from each of the ponds listed in Attachment A to characterize the discharge. Each sample is to be analyzed for each of the constituents listed in Attachment B. These data are needed to comprehensively characterize wastewater in each pond and provide data needed to evaluate the threat to the quality of waters of the State. If more than one pond is connected in series (i.e., one pond drains directly to the next with no other source of inflow) then only the upstream pond must be sampled. This order is not intended to require the collection of duplicative data. If during the 12 months (one year) prior to the date of this order, samples required by this order have been analyzed from one or more of the ponds for the required constituents, that data can be submitted for the appropriate order requirements.

This order also requires Discharger to identify any discharge(s) of oil field wastewater to land that is not identified in Attachment A. Discharger must also collect and analyze wastewater samples in accordance with Attachment B from any additionally identified discharge to characterize the discharge.

The Central Valley Water Board's authority to require technical reports derives from Section 13267 of the California Water Code, which specifies, in part, that:

(j) A regional Board ... in connection with any action relating to any plan or requirement authorized by this division, may investigate the quality of any waters of the State within its region.

(b)(1) In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefit to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The Central Valley Water Board is concerned about the potential impacts to water quality posed by the discharge of oil field produced waters in surface ponds. The technical information and reports required by this order are necessary to assess the potential threat to water quality. The need to understand the potential impacts to water quality justify the need for the information and reports required by this order. Based on the nature and possible consequences of the discharges of waste, the burden of providing the required information, including the reporting costs, bears a reasonable relationship to the need for the report, and the benefits to be obtained. Discharger is required to submit this information and reports because it is the operator of the ponds listed in Attachment A of this order.

The unauthorized discharge of waste containing oil field waste constituents to land, including unlined ponds, may result in the degradation of water quality and creates or threatens to create, a condition of pollution in groundwater. Significant concentrations of salinity (measured as TDS and EC), significant contributors to salinity such as chloride and sulfate, and boron are present in oil field wastewater. Other potential constituents such as, but not limited to, metals, radionuclides, and organic compounds pose a threat to water quality. The concentrations of these waste constituents in wastewater being discharged needs to be known to evaluate the threat. In addition, all locations where these discharges are occurring needs to be known.

Underlying groundwater can be degraded if mixed with oil field wastewater. Elevated concentrations of oil field waste constituents could impair the groundwater for municipal and domestic supply and agricultural supply uses.

Under the prescribed authority of California Water Code section 13267, the Central Valley Water Board directs Discharger to:

1. **By 15 June 2015**, submit a technical report containing the following information:

   A. Identification of any discharges of oil field produced waters to land, including but not limited to ponds, since April of 2014 that are not listed in Attachment A;

   B. Collect representative samples of wastewater within each of the ponds. Samples must be analyzed in accordance with the water quality analysis and reporting requirements contained in Attachment B to this Order;[1]

   If a representative sample cannot feasibly be collected from one or more of the sources discharging to a surface impoundment(s), then a comment will need to be added to the technical report required by this Order demonstrating that collection of a representative sample from a specific source is not feasible within the required timeframe, and propose an alternative sampling procedure and expeditious time schedule for obtaining a representative sample for each source. Alternative sampling procedures and time schedules are subject to approval by the Assistant Executive Officer of the Central Valley Regional Water Quality Control Board.

   C. All available information for each of the surface impoundment(s), including dimensions (i.e., length, width, and depth), latitude and longitude, Assessor's Parcel Numbers of the lease, duration of the discharge (in months), and the volume of wastewater discharged per year.

   D. A location map that includes the following information:

      i. All surface impoundment(s) at the Facility,
      ii. Include the boundary lines for all leases at the Facility, and
      iii. Legend with the name of the surface impoundment(s).

2. **By 15 April 2015**, Discharger needs to contact Dane S. Johnson of this office at (559) 445-5525 if you have received this Order and cannot collect the required samples.

[1] All previously obtained analytical data for oil field produced wastewater samples collected at the Facility, if any, with a description of the source and location for each analysis may be submitted in the alternative for re-running tests if the sample(s) was collected and analyzed within 12 months (one year) of the date of this order.

The technical report required by this Order must be submitted to the attention of:

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

Based on the information submitted in the technical report, additional information or action may be required.

With the report required by this Order, Discharger shall provide under penalty of perjury under the laws of California a "Certification" statement to the Central Valley Water Board. The "Certification" shall include the following signed statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The Central Valley Water Board reserves the right to issue a Notice of Violation or pursue enforcement for Discharger's activities after reviewing the documentation provided in response to this Order.

The Technical Report is to be signed and stamped by a California Professional Engineer (Registered as a Civil Engineer) or a registered California Professional Geologist. Any laboratory analyses shall be performed by an analytical laboratory certified by the State of California for the analyses performed. Submissions pursuant to this Order shall include a statement by Discharger, or an authorized representative of Discharger, certifying (as described above) that the information submitted is true, complete, and accurate.

The failure to furnish the required report, or the submission of a substantially incomplete report or false information, is a misdemeanor, and may result in additional enforcement actions being taken against Discharger, including issuance of an Administrative Civil Liability Complaint pursuant to California Water Code section 13268. Liability may be imposed pursuant to California Water Code section 13268 in an amount not to exceed one thousand dollars ($1,000) for each day in which the violation occurs. All discharges to unpermitted ponds should cease pending review and submission of the technical information sought by this order.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with

California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., within 30 days after the date of this directive, except that if the thirtieth day following the date of this directive falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

If you have any questions regarding this matter, please contact Doug Patteson of this office at (559) 445-5577 or at doug.patteson@waterboards.ca.gov.

Clay L. Rodgers
Assistant Executive Officer

cc: Julie Macedo, Office of Enforcement, State Water Resources Control Board, Sacramento
Mike Toland, California Division of Oil, Gas, and Geothermal Resources, Bakersfield

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

May 26, 2015

Bob Ferguson
Bob Ferguson Independent
30448 Rancho Viejo Road Suite 172
San Juan Capistrano, CA 92675

TEL: (949) 481-7002
FAX: (949) 458-1496

Project ID:
RE: 1505002

Dear Bob Ferguson:

Zalco Laboratories, Inc. received 2 samples on 5/1/2015 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:jonpe@sbcglobal.net

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Bob Ferguson Independent	Project: Master	Work Order No.: **1505002**
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: **1505002-01**	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	2700	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Bicarbonate (HCO3)	2700	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	5/1/15	5/1/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<2.0	2.0	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Arsenic	<0.20	0.20	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Barium	3.7	1.0	*10000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Beryllium	<0.10	0.10	*75*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Cadmium	<0.10	0.10	*100*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Chromium	<0.50	0.50	*2500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Cobalt	<1.0	1.0	*8000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Copper	<0.50	0.50	*2500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Lead	<0.50	0.50	*1000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	5/5/15	5/5/15	SS
Molybdenum	<1.0	1.0	*3500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Nickel	<0.50	0.50	*2000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Selenium	<0.50	0.50	*100*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Silver	<0.20	0.20	*500*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Thallium	<5.0	5.0	*700*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Vanadium	<1.0	1.0	*2400*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
Zinc	<0.50	0.50	*5000*	mg/L		SW846 6010B	5/4/15	5/5/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<1.0	1.0	*2*	mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Nitrate as NO3	<2000	2000	*45*	mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Electrical Conductivity	48	0.010		mmhos/cm		SM 2510B	5/1/15	5/1/15	SAM
Bromide	110	1.0		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Chloride	16000	2000		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
pH	7.57			pH Units		EPA 150.1	5/1/15	5/1/15	SAM
Sulfate as SO4	100	5.0		mg/L		EPA 300.0	5/1/15	5/1/15	MSS
Total Dissolved Solids	30000	10		mg/L		SM 2540C	5/4/15	5/4/15	MSS
Hardness									

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Bob Ferguson Independent	Project: Master	Work Order No.: **1505002**
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: **1505002-01**	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	170	2.0	mg/L		SM 2340B	5/4/15	5/4/15	SS
Metals								
Lithium	3.1	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Metals - As Received								
Magnesium	27	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Potassium	71	5.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Sodium	9400	350	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Calcium	23	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Iron	<1.0	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Boron	110	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Barium	2.6	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Copper	0.53	0.50	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Silica (SiO2)	48	40	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Strontium	12	1.0	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Manganese	<0.30	0.30	mg/L		EPA 200.7	5/4/15	5/4/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	6.68	0.25	mg/L		SW846 8015B	5/4/15	5/12/15	JMM
Gasoline Range Hydrocarbons	1.73	0.250	mg/L		SW846 8015B	5/13/15	5/13/15	HLP
Motor Oil Range Hydrocarbons	5.06	0.75	mg/L		SW846 8015B	5/4/15	5/12/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	115	69-125		5/13/15 12:51

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Naphthalene	32.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Fluorene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Phenanthrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Bob Ferguson Independent	Project: Master	Work Order No.: **1505002**
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: **1505002-01**	Collected By: Jon Crawford
Client Sample ID: Inlet to Sump 2	Date Collected: 4/30/2015 2:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	63.8	0-95		5/7/15 11:20
2-Fluorobiphenyl	58.6	0-92		5/7/15 11:20
Terphenyl-dl4	60.9	0-100		5/7/15 11:20

Subcontracted Analyses								
Gross Alpha	<15.0	15.0	pCi/L		SM 7110C	5/7/15	5/8/15	JMM
Radium-226	5.24	3.00	pCi/L		E903.1	5/6/15	5/8/15	JMM
Radium-228	<2.00	2.00	pCi/L		EPA Ra-05	5/15/15	5/18/15	JMM
Uranium (ug/L)	<20.0	20.0	pCi/L		E908	5/19/15	5/19/15	JMM

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Bakersfield, California 93308

(661) 395-0539
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Bob Ferguson Independent	Project: Master	Work Order No.: **1505002**
30448 Rancho Viejo Road Suite 172	Project #:	Reported: 05/26/2015
San Juan Capistrano, CA 92675	Attention: Bob Ferguson	Received: 05/01/2015 10:45

Lab Sample ID: **1505002-02**	Collected By:
Client Sample ID: Inlet to Sump 2	Date Collected: 5/15/2015 12:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons								
Gasoline Range Hydrocarbons	5.48	1.25	mg/L		SW846 8015B	5/15/15	5/15/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag		
a,a,a-Trifluorotoluene	101	69-125		5/15/15	10:35

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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ZALCO LABORATORIES, INC.

CHAIN OF CUSTODY, ID# 1505002

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 *www.zalcolabs.com*

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID:

REPORT INFO	INVOICE INFO
Client: R.B Ferguson	Invoice To: Same as Client ☒
Address: 30448 Rancho Viejo	Address:
City, State, Zip: Suite 172 San Juan Capistro CA	City, State, Zip:
Attention: Bob Ferguson	Attention:
Phone: 661-323-2733 Results ☐	Phone:
Fax: Results ☐	Fax:
Email: Results ☒	Email:

SAMPLED BY: JON CRAWFORD **EMPLOYED BY:** R.B FERGUSON

Sample No. *	Sample Description	Sample Date	Sample Time	Sample Type*	# OF CONTAINERS	ANALYSIS: See attached								TEMPERATURE (C°)
1	Inlet to Sump 2	4/30	1430	W	8	X								
2	Inlet to Sump 2	5/15		W	2	X								

COMMENTS:

Turnaround Time:
Routine 10 working days ☒
Rush By _____ working days

Send Copy to State of CA? Yes ☐ No ☐

Attention To: _____

Send Copy to County? Yes ☐ No ☐

County _____

CC: jonpe@stocglobal.net
323-2733

C.O.D.

Logged-In Subbed Printed
X ☐ ☐
Scanned Short Hold Time
☐ ☐

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Jon Crawford			4/5/1	1045	[illegible]	K Springman
Jon Crawford			5/15	1345	[illegible]	

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY