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**TECHNICAL REPORT  
CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267  
REGARDING PRODUCED WATER DISCHARGE  
PETRO RESOURCES, INC.  
S.P. 33 LEASE  
MIDWAY SUNSET FIELD - SECTION 33, T32S, R24E, MD B&M  
June 29, 2015**

Petro Resources, Inc. (PRI) is submitting this Technical Report pursuant to Central Valley Regional Water Quality Board's (Board) Order dated April 21, 2015. PRI is the operator of oil wells located on the S.P. 33 Lease in Section 33, T32S, R24E, Midway Sunset Field, Kern County. The S.P. 33 lease has 2 ponds used in the process of petroleum production wastewater disposal operated pursuant to WDR R5-2002-0195. There are no other ponds or discharges of produced waters to land.

**WATER SAMPLES:** A representative water sample of the wastewater was collected from the upstream pond 1. The required water quality analyses is presented in the attached Zalco Laboratories report, as well as on the enclosed CD excel file.

On May 5, 2015, water samples were collected at the point of entry of the upstream pond 1. The samples were collected by Kent Rose using appropriate water sampling protocol. Water sampling containers were provided by Zalco Laboratories. The wastewater samples were collected in the containers, labeled, placed in iced chests and transported to Zalco Laboratories, Inc. under chain of custody for analyses as directed in the Order.

**SURFACE IMPOUNDMENTS DETAILS:** The PRI produced water is a result of pumping oil and water from the subsurface Lakeview sand (Miocene age) oil sand formation at a depth average of 3,350 feet. The oil and water are separated and contained at the surface tank facility. Wastewater is water-logged to pond 1. As a result of retention time during tank oil/water separation, there is minor crude oil discharged to the ponds. Pond 1 water-logs to pond 2. The wastewater is pumped from pond 2 to Valley Water Management Company for disposal. The PRI wastewater discharge operates, 12-months per year.

The locations and dimensions of each pond is presented in the following table.

TABLE  
POND DETAILS

	Pond 1	Pond 2
APN	220-080-11-00-0	220-080-11-00-0
Latitude	35.095854	35.095681
Longitude	-119.095681	-119.395083
Length	50	50
Width	25	25
Depth	5	5
Discharge/year	9000	9000

**LOCATION MAPS:** The following two figures depict the PRI S.P. 33 lease and facility schematic of the ponds.

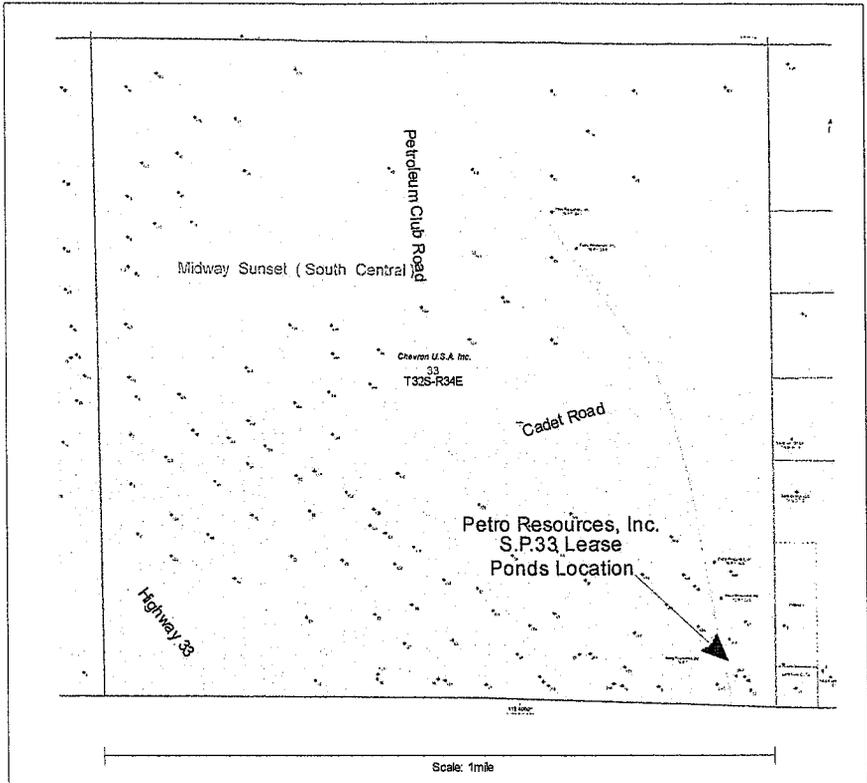


Figure 1. S.P. 33 lease

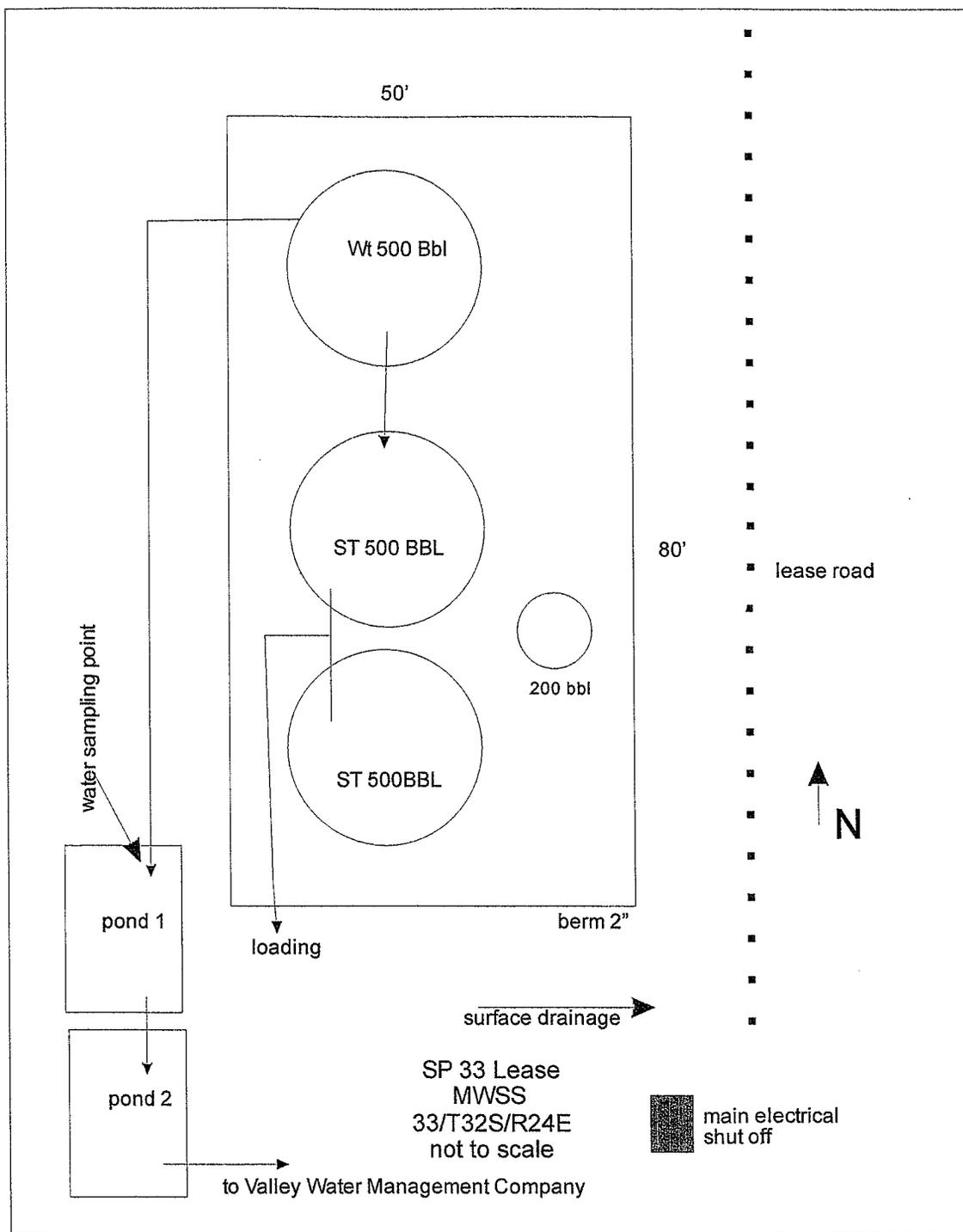


Figure 2. Facility Schematic

**ENVIRONMENTAL ASSESSMENT OF AREA OF INFLUENCE:** The risk of adverse environmental impact to the area within the a ¼ mile radius area of influence by the discharge of oilfield produced wastewater into the PRI S.P. 33 ponds is remote. First, the volume of water that is discharged is a modest average 25 barrel of water per day. Second, there is no known source of drinking water, i.e., fresh groundwater is absent in the area. And third, the wastewater is non-hazardous.

As a result of this information and review it is concluded that the discharge of wastewater to ponds is a favorable means of wastewater disposal of non-hazardous water from the PRI's oil field operations. The risk of adverse environmental impact to the area of influence by the discharge of wastewater into the PRI ponds is remote.

PRI operates the ponds under WDR R5-2002-0195.

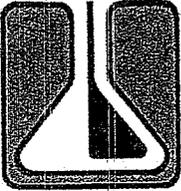
**CERTIFICATION STATEMENT**

*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.*



Thomas W. Ladd  
California Professional Geologist #3568

Attachment: Zalco Laboratories Report of Analyses



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue  
Bakersfield, California 93308

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

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May 29, 2015

Kent Rose  
Petro Resources Inc  
1730 Art Street  
Bakersfield, CA 93312

TEL: (661) 213-4118  
FAX: (661) 587-8567

Project ID:  
RE: 1505048

Dear Kent Rose:

Zalco Laboratories, Inc. received 1 samples on 5/5/2015 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.

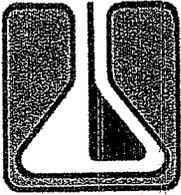
Sincerely,

Juan Magana  
Project Manager  
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTL: 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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Petro Resources Inc 1730 Art Street Bakersfield, CA 93312	Project: RWQCB Oilfield Ponds - 2Q2015 Project #: Attention: Kent Rose	Work Order No.: 1505048 Reported: 05/29/2015 Received: 05/05/2015 13:25
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Lab Sample ID: 1505048-01 Client Sample ID: Sec 33	Collected By: Kent Rose Date Collected: 5/5/2015 11:00:00AM
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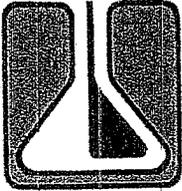
Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
<b>Hardness</b>								
Hardness (as CaCO <sub>3</sub> )	27000	20	mg/L		SM 2340B	5/8/15	5/8/15	SS
<b>Metals</b>								
Lithium	5.2	1.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
<b>Metals - As Received</b>								
Magnesium	370	0.50	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Potassium	75	5.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Sodium	9500	350	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Calcium	480	0.50	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Iron	<1.0	1.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Boron	44	1.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Barium	2.7	1.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Copper	<0.50	0.50	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Silica (SiO <sub>2</sub> )	69	40	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Strontium	9.8	1.0	mg/L		EPA 200.7	5/8/15	5/8/15	SS
Manganese	<0.30	0.30	mg/L		EPA 200.7	5/8/15	5/8/15	SS
<b>Petroleum Hydrocarbons</b>								
Diesel Range Hydrocarbons	13.3	0.25	mg/L		SW846 8015B	5/11/15	5/12/15	JMM
Gasoline Range Hydrocarbons	1.02	0.050	mg/L		SW846 8015B	5/15/15	5/15/15	HLP
Motor Oil Range Hydrocarbons	18.0	0.75	mg/L		SW846 8015B	5/11/15	5/12/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag
a,a,a-Trifluorotoluene	81.2	69-125	5/15/15 10:35

<b>Semivolatile Organic Compounds</b>								
Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	5/7/15	5/7/15	JMM
Naphthalene	34.2	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	6.2	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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Table with 3 columns: Client Information (Petro Resources Inc, 1730 Art Street, Bakersfield, CA 93312), Project Information (Project: RWQCB Oilfield Ponds - 2Q2015, Project #: , Attention: Kent Rose), and Work Order Information (Work Order No.: 1505048, Reported: 05/29/2015, Received: 05/05/2015 13:25)

Table with 2 columns: Lab Sample Information (Lab Sample ID: 1505048-01, Client Sample ID: Sec 33) and Collection Information (Collected By: Kent Rose, Date Collected: 5/5/2015 11:00:00AM)

Main analytical results table with columns: Analyte, Results, PQL, Units, Flag, Method, Date Prepared, Date Analyzed, Init. Includes sections for Semivolatile Organic Compounds and Surrogates.

Table listing surrogate recovery data: Nitrobenzene-d5 (44.1, 0-95), 2-Fluorobiphenyl (36.3, 0-92), Terphenyl-d4 (20.6, 0-100). Includes Date Prepared and Date Analyzed.

Subcontracted Analyses

Table listing subcontracted analyses: Gross Alpha, Radium-226, Radium-228, Uranium (ug/L). Includes Results, PQL, Units, Method, Date Prepared, Date Analyzed, and Init.

Volatile Organic Compounds

Table listing volatile organic compounds: m,p-Xylene, Benzene, Xylenes, total, Methyl tert-Butyl Ether, Ethylbenzene, Toluene, o-Xylene. Includes Results, PQL, Units, Method, Date Prepared, Date Analyzed, and Init.

Table listing surrogate recovery data for volatile organics: 1,2-Dichloroethane-d4 (85.9\*, 89-165), Toluene-d8 (80.7, 65-124), 4-Bromofluorobenzene (86.5\*, 94-114). Includes Date Prepared and Date Analyzed.

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