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Consultants, Inc.

5400 Rosedale Highway
Bakersfield, CA 93308

J. P. OIL
RESPONSE TO RWQCB SECTION 13267 ORDER
POND INFORMATION AND SAMPLING RESULTS

RIO BRAVO FIELD
KERNCO LEASE
SECTION 34 T28S/R25E MDB&M

Addendum
July 28, 2015

Submitted
July 7, 2015

Prepared by:

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Lorraine M. Sawyer, PG., QSD/QSP

31 July, 2015

Certification Statement

RWQCB Order 13267, Pond Sampling Technical Report
J. P. Oil, Kernco Lease.

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 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 an imprisonment for knowing violations.

Cal Emerson

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1.0 IDENTIFICATION OF DISCHARGES OF PRODUCED WATER, OIL AND SOLID WASTE TO CONCRETE-LINED SUMPS

The original report entitled "J. P. Oil Response to RWQCB Section 13267 Order Pond Information and Sampling Results, Rio Bravo Field, Kernco Lease, Section 34 T28S/R25E MDB&M" and dated 7 July 2015 has been updated with this report. It now includes additional radionuclides for the liquids obtained by the API separator.

Produced water, oil and solid waste materials that were generated from JP Oil oilfield operations were previously stored in three concrete lined sumps on the Kernco lease in the Rio Bravo Field.

These sumps have not been used since 3 March 2015 when cleanout was initiated as part of normal operations and maintenance.

Currently waste material from field operations is shipped off-site to McKittrick landfill as a non-hazardous waste. Figure 1-1, a map of the ponds and surrounding lease follows Section 5.0 of this report.. Figure 1-2, a map of other sampling points and surrounding lease also follows Section 5.0 of this report.

2.0 J. P. OIL - KERNCO LEASE INSPECTION & SAMPLING HISTORY

Three concrete lined ponds were inspected by the RWQCB on or about December 11, 2014. The RWQCB attempted to collect but was unable to collect wastewater samples on this date (see the RWQCB Facilities Inspection Report in Attachment A).

Section 13267 directives from the RWQCB are indicated in a certified letter dated 21 April 2015 which, was received by JP Oil on or about April 28th 2015 (see Attachment B).

Samples of centrifuge cake, miscellaneous sediments and limited wastewater samples were collected for purposes of legal disposal by J. P. Oil between 10th and 11th of December 2014 and May 7th 2015.

On or prior to March 3, 2015, J. P. Oil hired Engineering Well Service to clean out the concrete-lined impoundments with the goal of inspecting the impoundments to determine their integrity as part of normal maintenance operations.

On 21 April 2015, the RWQCB sent a California Water Code Directive pursuant to Section 13267 to JP Oil that indicated that by 6 May 2015 the discharger needed to contact Dane S. Johnson of the RWQCB if the discharger could not meet the sampling requirements described in the directive. The RWQCB 13267 directive was received by JP Oil on or about April 28th 2015, see Attachment B.

3.0 POND SAMPLING ANALYTICAL RESULTS

Although significant amounts of laboratory data were generated for solid wastes and filter cake due to legal disposal requirements, liquid analysis for the ponds on the site was limited

consisting of mainly general chemistry and CAM 17 metals analysis. A liquid sample was collected from an API separator at the site.

Tables 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8 and 3-9 (immediately following Section 5.0 of this report) summarize available waste liquid, API 3-Phase Separator liquids, filter cake and waste solids analyses.

Available analytical lab data for fluids is included in Attachment D. Solid waste lab analysis conducted for purposes of legal disposal is also available in Attachment D of this report

4.0 INFORMATION FOR EACH SURFACE IMPOUNDMENT

Table 4-1 following Section 5.0 of this report contains the required information for the J. P. Oil Kernco ponds.

5.0 JP OIL NOTIFICATION/ DOCUMENTATION ABOUT SECTION 13267 COMPLIANCE

Section 13267 directives from the RWQCB are indicated in a certified letter dated 21 April 2015 which, was received by JP Oil on or about April 28th 2015; see Attachment B.

On April 29 2015, JP Oil management initiated a teleconference with the RWQCB (Mr. Dane Johnson) indicating JP Oil was not able to comply with the RWQCB Section 13267 water sampling directives.

In the referenced teleconference with the RWQCB, JP Oil informed the RWQCB that as a part of normal maintenance operations, one of JP Oil's service contractors, Engineering Well Service began cleaning out the Kernco Lease sumps on or about 3 March 2015. Sump clean – out was completed on or about April 20, 2015. JP Oil could not collect the water/liquid samples since the use of the sumps was discontinued prior to the Section 13267 directive being issued to J. P. Oil (i.e., and sump fluids were not available after the sump clean-outs began on 3 March 2015).

Waste fluids are currently shipped offsite to McKittrick landfill as a non-hazardous waste.

Although not a liquid pond sample, JP Oil collected a liquid sample from the three phase API separator. This represents a worst case scenario, that is, a sample more highly contaminated than an actual sample collected from the ponds. The radionuclide data is not available at this time. The lab will provide this data later in July 2015. When provided the data will be provided as a letter type addendum to this report or if requested by the RWQCB a revised report..

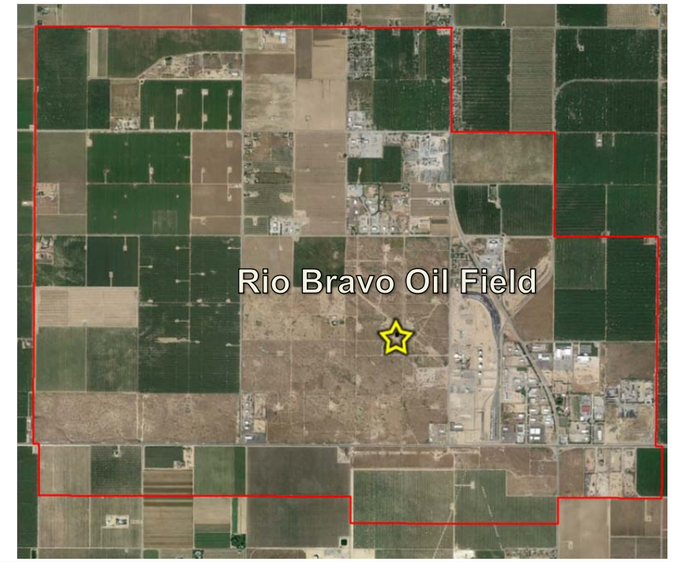
In addition solid samples were collected from the ponds. The results are submitted in this report.

JP Oil submits the three phase API separator and soil data from the sump data to provide substitute data to the RWQCB in lieu of the liquid data from the sump since the sumps do not contain liquid at this time.

FIGURES

FIGURE 1-1

J.P. Oil Company LLC



Legend

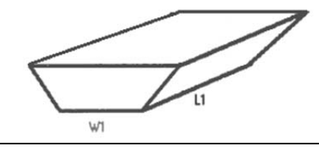
KernCo Lease

KernCo Lease Ponds

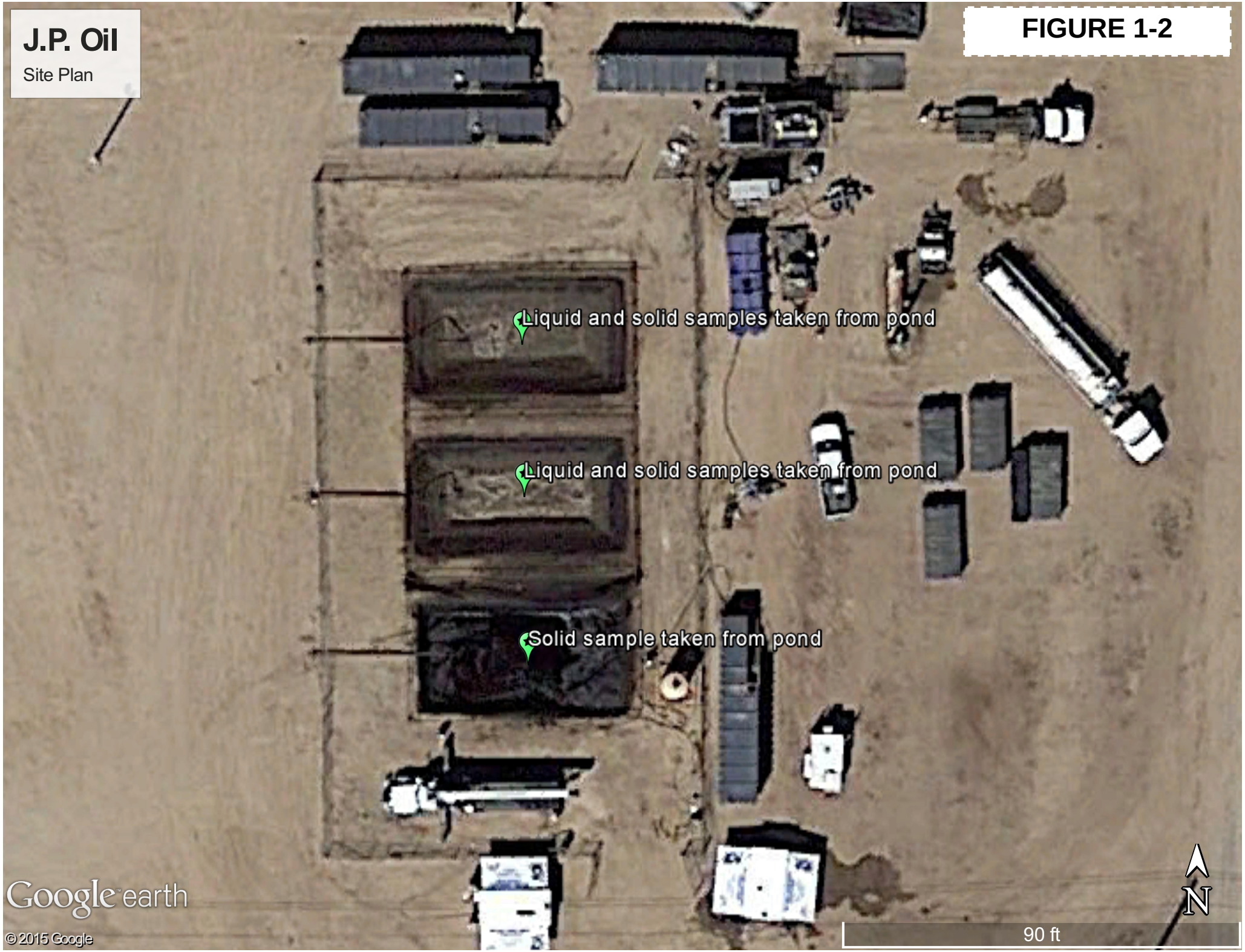
Pond #1
Length –Top =45'/ Bottom = 32'
Width – Top= 24'/Bottom =10'
Depth – 13.36'

Pond #3
Length –Top =45'/ Bottom = 32'
Width – Top= 24'/Bottom =10'
Depth – 13.36'

Pond #2
Length –Top =45'/ Bottom = 32'
Width – Top= 24'/Bottom =10'
Depth – 13.36'



Prepared By:	**TITLE:**	KernCo Lease Ponds
EnviroTech Consultants, Inc.	**FIELD:**	Rio Bravo Oil Field
	COUNTY:	Kern
Section/Township/Range	**DRN BY:**	Kelsey Padilla
T28S/R25E – Section 34 MDB&M	**DATE:**	May 28, 2015


J.P. Oil
Site Plan
FIGURE 1-2
Liquid and solid samples taken from pond
Liquid and solid samples taken from pond
Solid sample taken from pond
Google earth
© 2015 Google
N
90 ft

J.P. Oil
Site Plan
FIGURE 1-3
Sample taken at 3-phase separator
Google earth
© 2015 Google
N
100 ft

TABLES

TABLE 3-1
General Chemistry - Liquids

Sample ID	Sample Type	Date Sampled	Date Reported	Total Dissolved Solids	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Strontium	Alkalinity as CaCO3	Bicarbonate ion as HCO3	Carbonate as CO3	Hydroxide as OH
EPA Analytical Method				Varies - See Lab Data Directly											
Units				mg/L											
Reporting limit				Reporting limits vary, see full analytical report.											
Results															
Sump Sample ABU-1031/ AD15705	Liquid	12/11/2014	12/30/2014	NA	**416.3**	**2.415**	**71.44**	**0.383**	NA	**7,985**	**30.68**	NA	NA	NA	NA
Sump Sample ABU-1031/AD15706	Liquid	12/10/2014	12/30/2014	NA	**212.1**	**1.913**	**55.22**	**0.583**	NA	**7,474**	**17.97**	NA	NA	NA	NA
JP Oil Produced Water Re-Testing/ 1412289-01	Liquid	12/19/2014	12/24/2014	**18,000**	**380**	<1.0	**48**	**NA**	**110**	**7,900**	**20**	**1,100**	**1,100**	0	0

Bold = Analyte detected at or above minimum reporting limit.
Reporting limit varies by sample. See full analytical report.
NA = Not Analyzed
** = Calculated

TABLE 3-2
ANIONS - LIQUIDS

Sample ID	Sample Type	Date Sampled	Report Date	Anions, Ion Chromatography			
				Bromide	Chloride	Nitrate as NO3	Sulfate
EPA Analytical Method				Varies - See Lab Data Directly			
Units				mg/L			
Reporting Limit				Reporting limit varies, see full analytical			
Sump Sample ABU-1031/AD15705	Liquid	12/10/2014	12/30/2014	NA	**13,017.07**	NA	**31.1**
Sump Sample ABU-1031/ AD15706	Liquid	12/11/2014	12/30/2014	NA	**12,417.30**	NA	**25.3**
JP Oil Produced Water Re-Testing/ 1412289-01	Liquid	12/19/2014	12/24/2014	NA	**17,000**	NA	NA

Bold = Analyte detected at or above minimum reporting limit.

Reporting limit varies by sample. See full analytical report.

TABLE 3-3
METALS - LIQUIDS

Sample ID	Date Sampled	Date Reported	Sample Type	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead
EPA Analytical Method				6010B for JP Oil Produced Water Re-Testing Only; See lab reports for sump sample testing.									
Units				mg/L									
Reporting Limit				Reporting limit varies by sample. See full analytical report.									
Sump Sample ABU-1031/AD15705	12/10/2014	12/30/2014	Fluid	NA	NA	**2.444**	NA	NA	NA	NA	NA	NA	NA
Sump Sample ABU-1031/ AD15706	12/11/2014	12/30/2014	Fluid	NA	NA	**3.584**	NA	NA	NA	NA	NA	NA	NA
JP Oil Produced Water Re-Testing/ 1412289	12/19/2014	12/24/2014	Fluid	<2.0	<0.20	**3.5**	<0.10	**27**	<0.10	<0.50	<1.0	<0.50	<0.50

N/A = Not Analyzed
Bold = Analyte detected at or above minimum reporting limit

TABLE 3-3
METALS - LIQUIDS

Sample ID	Date Sampled	Date Reported	Sample Type	Lithium	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Vanadium	Zinc	Mercury
EPA Analytical Method				6010B for JP Oil Produced Water Re-Testing Only; See lab reports for sump sample testing.									
Units				mg/L									
Reporting Limit				Reporting limit varies by sample. See full analytical report.									
Sump Sample ABU-1031/AD15705	12/10/2014	12/30/2014	Fluid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sump Sample ABU-1031/ AD15706	12/11/2014	12/30/2014	Fluid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
JP Oil Produced Water Re-Testing/ 1412289-	12/19/2014	12/24/2014	Fluid	NA	<1.0	<0.50	<0.50	<0.20	**20**	<5.0	<1.0	<0.50	<0.0020

N/A = Not Analyzed
Bold = Analyte detected at or above minimum reporting limit

TABLE 3-4
Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	Ethyl Acetate	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromethane	2-Butanone	Tert- Bbutyl Alcohol	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorobenzene	Chloroethane	2- Chloroethyl vinyl ether	Chloroform	Chloromethane	2- Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2 Dibromo-3-Chloropropane	1,2 Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3 Dichlorobenzene	1,4 Dichlorobenzene	Dichlorodifluoromethane	1,1 Dichloroethane	1,2 Dichloroethane	1,1 Dichloroethene	Cis 1,2 Dichloroethene	trans 1,2 - Dichloroethene	1,2 Dichloropropane	1,3 Dichloropropane	2,2 Dichloropropane
EPA Analytical Method				8260B_SIM																																									
Units				ug/Kg																																									
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<2500	<2500	<1000	<1000	**22500**	<250	<250	<250	<250	<250	<2500	<2500	**2410**	**1540**	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<2500	<2500	<1000	<1000	**50200**	<250	<250	<250	<250	<250	<2500	<2500	**7010**	**4800**	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<2500	<2500	<1000	<1000	**6260**	<250	<250	<250	<250	<250	<2500	<2500	**2830**	**1650**	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<2500	<2500	<1000	<1000	**3180**	<250	<250	<250	<250	<250	<2500	<2500	**1270**	**802**	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250

BOLD = Analyte Detected at or above minimum reporting limits
NA = Not Analyzed
Reporting Limit by sample. See full analytical report for more detail.

TABLE 3-4
Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	1,1- Dicholoropropene	Di-isopropyl ether	cis 1,3-Dichloropropene	trans 1,3 Dichloropropene	Ethyl tert- Butyl Ether	Ethyl Benzene	Hexachlorobutadiene	2-Hexanone	Iodomethane	Isopropylbenzene	4- isopropyltoluene	Methylene Chloride	4-Methyl 2-pentanone	Methyl tert Butyl Ether	Naphthalene	n-Propylbenzene	Styrene	Tert-Amyl Methyl Ether	Tert-Amyl Methyl Ether	1,1,1,2 Tetrachloroethane	1,1,2,2 Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3 Trichlorobenzene	1,2,4 Trichlorobenzene	1,1,1 Trichloroethane	1,1,2 Trichloroethene	Trichloroethene	Trichlorofluromethane	1,2,3 Trichloropropane	1,2,3 Trichloropropane	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	Vinyl Acetate	Vinyl chloride	o-Xylene	Xylenes, Total	m,p Xylene	1,1,2 Trichloro-1,2,2 Trifluroethane		
EPA Analytical Method				8260B_SIM																																								
Units				ug/Kg																																								
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<250	<250	<250	<250	<250	**23,600**	<250	<2500	<250	**4010**	**3430**	<250	<2500	<250	**26200**	**4580**	<250	<250	<250	<250	<250	<250	**70000**	<250	<250	<250	<250	<250	<250	<250	<250	**27000**	**7420**	<250	<250	**41400**	**140000**	**98500**	<250		
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<250	<250	<250	<250	<250	**42500**	<250	<2500	<250	**10800**	**5830**	<250	<2500	<250	**71800**	**14800**	<250	<250	<250	<250	<250	<250	**260000**	<250	<250	<250	<250	<250	<250	<250	<250	**129000**	**27100**	<250	<250	**99400**	**324000**	**225000**	<250		
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<250	<250	<250	<250	<250	**9770**	<250	<2500	<250	**2700**	**3150**	<250	<2500	<250	**178000**	**3850**	<250	<250	<250	<250	<250	<250	**33900**	<250	<250	<250	<250	<250	<250	<250	<250	**39600**	**10300**	<250	<250	**20500**	**63000**	**42500**	<250		
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<250	<250	<250	<250	<250	**6980**	<250	<2500	<250	**1440**	**1300**	<250	<2500	<250	**7680**	**2130**	<250	<250	<250	<250	<250	<250	**14800**	<250	<250	<250	<250	<250	<250	<250	<250	**15200**	**3990**	<250	<250	**8880**	**33200**	**24300**	<250		

BOLD = Analyte Detected at or above minimum reporting limits
NA = Not Analyzed
Reporting Limit by sample. See full analytical report for more detail.

Table 3-5
Semi-Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	1-Naphthulamine	2,3,4,6 Tetrachlorophenol	2,4,5 Trichlorophenol	2,4,6 Trichlorophenol	2,4 Dichloro phenol	2,4 Dimethylphenol	2,4 Dinitrophenol	2,4 Dinitrolphenol	2,6 Dichlorophenol	2,6, Dinitroltoluene	2-Acetylaminofluyorene	2-Chloronapthalene	2-Chlorophenol	2-Methylnapthalene	2-Methylphenol	2-Naphthylamine	2-Nitroanaline	2-Nitrophenol	2-Picoline	3,3 Dichlorobenzidine	3,3 Dimetylbenzidene	3-Methylcholananthrene	3-Nitroanaline	4,6 Dinitro 2-metylphenol	4-Aminobiphenyl	4 Bromophenyl phenyl ether	4 Chloro3-Methylphenol	4 Chloroaniline	4 Chlorophenyl phenyl ether	4- Nitroanaline	4-Nitrophenol	5-Nitro-o-toluidine	7,12 Dimethylbenz (a) anthracene	alpha-BHC	a,a Dimethylphenethylamine
EPA Analytical Method				8270C_SIM																																		
Units				mg/Kg																																		
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**126**	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**511**	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	**70.3**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	**23.8**	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95

BOLD = Analyte Detected at or above minimum reporting limit.
NA = Not Analyzed
Reporting limit by sample. See full analytical report for more detail.

Table 3-5
Semi-Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	Acenapthene	Acenaphthylene	Acetophenone	Aldrin	Analine	Anthracene	Aramite	beta-BHC	Benzo (a) pyrene	Benzo(b)fluoranthene	Benzo (ghi)perylene	Benzo(k) fluoranthene	Benzoic Acid	Benzyl alcohol	Bis(2-Chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-etylhexyl)phthalate	Butyl benzyl phthalate	Chlorobenzilate	Chrysene	delta-BHC	Di-n-butyl phthalate	Di-n-octyl phthalate	Diallate	Dibenz (ah)anthracene	Dibenz(a) acridine	Dibenzofuran	Dieldrin	Diethyl phthalate	Dimetyl phthalate	Diphenlamine	Endosulfan I	Endosulfan II		
EPA Analytical Method				8270C_SIM																																			
Units				mg/Kg																																			
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<24.8	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95

BOLD = Analyte Detected at or above minimum reporting limit.
NA = Not Analyzed
Reporting limit by sample. See full analytical report for more detail.

Table 3-5
Semi-Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	Endosulfan sulfate	Endrin	Endrin aldehyde	Ethyl Methanesulfonate	Fluoranthene	Fluorene	gamma BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Hexachloropropene	Ideno (1,2,3 cd) pyrene	Isodrin	Isophorone	Isosafrole	Kepone	Methapyrilene	Methoxychloror	Methyl Methanesulfonate	N-Nitrosodi-n-butylamine	N-Nitrosodi-n-propylamine	N-Nitrosodethylamine	N-Nitrosodiphenylamine	N-Nitrosomorpholine	N-Nitrosopiperidine	N-Nitrosopyrrolidine	Naphthalene	Nitrobenzene	o-Toluidine	p-Dimethylaminoazobenzene	Pentachlorobenzene	pentachloronitrobenzene
EPA Analytical Method				8270C_SIM																																		
Units				mg/Kg																																		
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**49**	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<24.8	<24.8	<24.8	<24.8	<24.8	**35.7**	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**186**	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	**8.87**	<4.95	<4.95	<4.95	<4.95	<4.95

BOLD = Analyte Detected at or above minimum reporting limit.
NA = Not Analyzed
Reporting limit by sample. See full analytical report for more detail.

Table 3-5
Semi-Volatiles - Solids

Sample ID	Sample Type	Date Sampled	Date Reported	Pentachlorophenol	Phenacetin	Phenathrene	Phenol	Pronamide	Pyrene	Pyridine	Safrole	1-Chloronaphthalene	1,4 Dinitrobenzene	1,2- Dinitrobenzene	2,3,5,6- Tetrachlorophenol	1-Methylnaphthalene	4,4-DDD	Carbazole	3 & 4 - Methylphenol	4,4 DDE	4,4-DDT
EPA Analytical Method				8270C_SIM																	
Units				mg/Kg																	
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<24.8	<24.8	**34.2**	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**83.1**	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<24.8	<24.8	**93.2**	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	<24.8	**336**	<24.8	<24.8	<24.8	<24.8	<24.8
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<25.0	<25.0	**45.0**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	**47.6**	<25.0	<25.0	<25.0	<25.0	<25.0
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<4.95	<4.95	**6.56**	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	<4.95	**17.2**	<4.95	<4.95	<4.95	<4.95	<4.95

BOLD = Analyte Detected at or above minimum reporting limit.
NA = Not Analyzed
Reporting limit by sample. See full analytical report for more detail.

TABLE 3-6
METALS - SOLIDS

Sample ID	Sample Type	Date Sampled	Date Reported	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Vanadium	Zinc	Mercury
EPA Analytical Method				6010B																					
Units				mg/Kg																					
Reporting Limit				Reporting limit varies by sample. See full analytical report.																					
Sump 1 /1503055-01	Solid	3/3/2015	3/18/2015	<10	<1.0	**580**	<0.50	NA	<0.50	**29**	<5.0	**120**	NA	**44**	NA	NA	**15**	**28**	<2.5	<1.0	NA	<25	**9.0**	**250**	**0.17**
Sump 2 /1503055-02	Solid	3/3/2015	3/18/2015	<10	<1.0	**210**	<0.50	NA	<0.50	**8.0**	<5.0	**26**	NA	**10**	NA	NA	<5.0	**11**	<2.5	<1.0	NA	<25	<5.0	**51**	<0.050
Sump 3 /1503055-03	Solid	3/3/2015	3/18/2015	<20.0	<2.0	**<10**	<1.0	NA	<1.0	<5.0	<5.0	**19**	NA	<5.0	NA	NA	<10	**23**	<2.5	<1.0	NA	<25	<10	**38**	<0.050
Centrifuge Cake 1503304-01	Solid	3/27/2015	4/3/2015	<10	**2.6**	**280**	<0.50	NA	<0.50	**80**	**5.3**	**250**	NA	**85**	NA	NA	**28**	**61**	<2.5	<1.0	NA	<25	**22**	**390**	**0.59**
Bin 1/ 1505255-01	Solid	5/19/2015	6/4/2015	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	**15000**	NA	**11**	**630**	NA	NA	NA	NA	**680**	NA	NA	NA	NA
Bin 2 / 1505255-02	Solid	5/19/2015	6/4/2015	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	**13000**	NA	**7.2**	**420**	NA	NA	NA	NA	**410**	NA	NA	NA	NA
Bin 3/ 1505255-03	Solid	5/19/2015	6/4/2015	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	**16000**	NA	**6.9**	**780**	NA	NA	NA	NA	**490**	NA	NA	NA	NA

N/A = Not Analyzed for this compound.
Bold = Analyte detected at or above minimum reporting limit.

ATTACHMENT A

RWQCB Facility Inspection Report

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

OPTIONS
1. NEW pits
2. Visqueen
3. FRAC TANKS (disposal of sludge cost

CHRIS FRANK was TAM. BAY DAVE BRAVO

17 February 2015

NOTICE OF VIOLATION

Wesley Johnson, Operations Manager
J.P. Oil Company LLC
30540 Imperial Street
Shafter, CA 93263

CERTIFIED MAIL
7014 2870 0000 7593 2685

INSPECTION REPORT - J.P. OIL COMPANY LLC, KERNCO LEASE, RIO BRAVO OIL FIELD, KERN COUNTY

Central Valley Regional Water Quality Control Board staff (Staff) inspected the Kernco Lease in the Rio Bravo Oil Field on 11 December 2014 to ascertain the status of three surface impoundments (sumps) identified by the California Division of Oil, Gas, and Geothermal Resources (DOGGR) as active. Disposal operations at the facility are not regulated by Waste Discharge Requirements (WDRs). Staff's comments are presented in the enclosed inspection report.

Staff observed three concrete lined, fenced, and netted sumps. The sumps were being used for evaporation and storage of oil and wastewater from well workover operations. Staff attempted to collect a wastewater sample but a thick oil layer filled the sample container, thus no samples were collected.

Analytical results of water samples collected from sump one and sump two indicate that the produced water discharge exceeds the maximum chloride and boron concentration limits contained in the *Water Quality Control Plan for the Tulare Lake Basin*, Second Edition, revised January 2004 (Basin Plan).

If J.P. Oil Company LLC (J.P. Oil) intends to retain the sumps for the discharge of wastes, a Report of Waste Discharge (RWD), along with the appropriate filing fee, needs to be submitted for issuance of WDRs. The discharge of wastes to a sump without WDRs, or before 140 days following a determination that the submitted RWD is complete and adequate, is a violation of Section 13260 of the California Water Code (CWC). The RWD needs to include a demonstration that the California Environmental Quality Act (CEQA) has been satisfied. A violation of 13260(a) of the CWC may subject J.P. Oil to potential liability pursuant to CWC Section 13350 or 13261, in an amount up to $10 for each gallon discharged or $5,000 for each day that the discharge occurs, and/or up to $1,000 for each day the RWD is not submitted.

J.P. Oil discharged oil field produced wastewater with waste constituent concentrations in excess of Basin Plan limits that could have water quality impacts or may threaten waters of the State to concrete lined sumps. The discharge of wastewater to the sump occurred without the submission of a RWD.

If you have any questions regarding this inspection, please contact Alejandra Lopez at (559) 445-6071 or by email at alejandra.lopez@waterboards.ca.gov

DANE S. JOHNSON
Senior Engineering Geologist
Professional Geologist No. 4239

Enclosure: Inspection Report

cc: Mike Toland, CDOGGR, Bakersfield

5F	5C15NC00202		DISCHLND	1/4
OFFICE	WDID	**FACILITIES INSPECTION REPORT**	PROGRAM	PAGE NO.
NA	399829		550095	813082
ORDER NO.	REG MEASURE ID		PARTY ID	PLACE ID

J.P. OIL COMPANY LLC	RIO BRAVO, KERNCO
DISCHARGER NAME	FACILITY NAME
30540 IMPERIAL STREET	S1/2 OF THE NE 1/4 OF SECTION 34, T28S, R25E, MDB&M
STREET ADDRESS	STREET ADDRESS
SHAFTER, CA 93263	BAKERSFIELD, CA 93314
CITY, STATE, ZIP CODE	CITY, STATE, ZIP CODE
BARRY HANSON	WESLEY JOHNSON
DISCHARGER CONTACT PERSON	FACILITY CONTACT PERSON
(661) 746-8984 / barry@jpoil.com	(661) 978-9224 /
TELEPHONE NO. / E-MAIL ADDRESS	TELEPHONE NO. / E-MAIL ADDRESS

GENERAL INSPECTION INFORMATION

Inspection Type: B Type Compliance Inspection

Lead Inspector: Alejandra Lopez

12/11/2014 to 12/11/2014	9:45AM-10:00AM	Cool cloudy and windy
INSPECTION DATE(S)	INSPECTION TIME	GENERAL WEATHER CONDITIONS

INSPECTION ATTENDEE(S)

NAME	COMPANY/AGENCY	TELEPHONE NO.	E-MAIL ADDRESS
Alejandra Lopez	Regional Water Board	(559) 445-6071	alejandra.lopez@waterboards.ca.gov
Wesley Johnson	J.P. Oil Company LLC	(661) 978-9224	
Joshua Mahoney	Regional Water Board	(559) 445-5116	Joshua.Mahoney@waterboards.ca.gov

INSPECTION SUMMARY (for CIWQS entry – 500 character maximum)

Disposal operations to the sumps are not regulated by Waste Discharge Requirements (WDR's), and a Report of Waste Discharge (RWD) has not been submitted. There are three active concrete lined surface impoundments (sumps) that are used for evaporation and temporary storage of wastewater from well workover operations. All three Sumps are fenced and netted. Each sump has one discharge pipe that gets connected to delivering tanker trucks.

INSPECTION VIOLATIONS SUMMARY (if applicable)

Identify VIOLATIONS noted during inspection in table below. For each violation documented entered into CIWQS, identify Violation ID and Violation Type, describe violation, and identify section of the WDRs or Water Code violated.

Label	Violation ID	Violation Type	Violation Description	Section of the WDRs Violated
V1	986467	Unauthorized Discharge	Failure to submit a completed Report of Waste Discharge	CWC section 13260(a)
V2	986468	Basin Plan Limits	Discharge of high salinity produced water to unlined sump	Tulare Lake Basin Plan
V3				
V4				
V5				
V6				

OTHER VIOLATIONS (if applicable)

SMR violations?	☐ Yes ☒ No ☐ Not Evaluated	Notes:
File Review violations?	☐ Yes ☒ No ☐ Not Evaluated	Notes:

Lead Inspector ID: 451267 Signature: Alejandra Lopez Date: 2-17-2015

Inspection Tracking Information Reviewed by: (1) (2) (3) CIWQS Coordinator

Filename: J.P. Oil Company LLC, Rio Bravo Oil Field-Kernco Lease CIWQS Entry Date: 2-13-2015 CIWQS Inspection ID: 19358780

FACILITY INFORMATION

Three concrete lined surface impoundments
FACILITY DESCRIPTION (e.g., total area in acres, number of waste management units, etc.)

Active
STATUS (active, inactive, closed)

Oil field production wastewater (produced water).
WASTE TYPES

Oil/Gas Extraction
FACILITY CLASSIFICATION

Produced water, solids, and oil is temporarily stored in concrete lined sumps
DISPOSAL DESCRIPTION (e.g., composting, landfill, surface impoundment, etc.)

BACKGROUND

The discharge of wastewater in Kernco Lease in the Rio Bravo Oil Field is currently unregulated, 1st time inspected.

INSPECTION GIS DATA

GIS Equipment used: _____ MANUFACTURER _____ MODEL _____ SERIAL NO. _____ DATUM

Description of Measured Point	Latitude	Longitude	Datum	Comments
Sump 1	35.44952	-119.26560	NAD83	
Sump 2	35.44943	-119.26560	NAD83	
Sump 3	35.44933	-119.26559	NAD83	

INSPECTION OBSERVATIONS AND FINDINGS

Describe observations and findings and identify those that document and reference each violation listed in the Inspection Violations Summary table by identifying the cited violation number within parentheses following the observation/finding (e.g., Exposed waste on top deck (V1)).

The site was inspected to ascertain the status of three concrete lined, surface impoundments (sumps) identified by the California Division of Oil, Gas, and Geothermal Resources (DOGGR) as active. Discharge of produced waste at the facility is not regulated by Waste Discharge Requirements (WDRs). Photos were taken to document observed conditions (See Page 4).

The Kernco Lease includes three concrete lined sumps. Southeast of the sumps is one wastewater storage tank (See Attachment 1 for a vicinity map showing sump locations). According to DOGGR, the sumps are 20 feet by 10 feet and are 3 feet deep. According to Wesley Johnson, the sumps are used for temporary storage of wastewater from well workover operations. The wastewater, solids, and oil in the sumps is transported to and from the sumps by a vacuum truck and disposed of at the Central Valley Waste Water disposal facility.

The Sumps were active, netted, and contained substantial amounts of crude oil (Photos 1 and 2). Each sump has one discharge pipe that gets connected to oil production wastewater delivery trucks. Netting near the inlet to Sump two had a tear (west portion along ground). Sump three contained sediment accumulation originating in the southwest. All the sumps appeared to have adequate freeboard.

Staff attempted to sample sump two through a tear in the netting but was unable to collect any water, the sample collection container only filled with oil. Laboratory analyses of two wastewater samples collected by J.P. Oil for Geochemical analysis (no chain of custody included) were submitted to Staff. The samples were collected on 10 and 11 December 2014. Wesley also submitted a copy of a waste manifest for the wastewater disposal.

SAMPLING INFORMATION AND OBSERVATIONS

Were samples collected during the inspection? ☐ Yes ☒ No

Are sample results included in report? ☒ Yes ☐ No

Did discharger collect split samples? ☐ Yes ☒ No

SAMPLE COLLECTION INFORMATION AND OBSERVATIONS

SAMPLE ID	SAMPLE DESCRIPTION/OBSERVATIONS	SAMPLE TIME (hours)	PHOTO NO.
AD15705	North KernCo Sump (collected by J.P. Oil on 12/10/2014)	UNKNOWN	NONE
AD15706	North KernCo Sump (collected by J.P. Oil on 12/11/2014)	UNKNOWN	NONE

DISCUSSION OF SAMPLING RESULTS

Discuss sampling results (e.g., discuss whether sampling results show compliance with WDRs).

Wastewater analysis of two samples AD15705 (collected 10 December 2014) and AD15706 (collected 11 December 2014) was submitted by J.P. Oil with no Chain of Custody. According to Barry Hanson, samples were run for Geochemical analysis.

Wastewater sample AD15705 (Sump two) analytical results included: chloride 13,017.07 milligrams per liter (mg/L), and boron 45.42 mg/L. No analytical results for specific conductance (EC), total dissolved solids (TDS), and BTEX were submitted.

Wastewater sample AD15706 (Sump one) analytical results included: chloride 12,417.2 milligrams per liter (mg/L), and boron 33.96 mg/L. No analytical results for specific conductance (EC), total dissolved solids (TDS), and BTEX were submitted.

Facility wastewater contains chloride and boron concentrations that exceed allowable concentrations for discharges to surface impoundments contained in the Water Quality Control Plan for the Tulare Lake Basin, Second Edition, revised January 2004 (Basin Plan).

CONCLUSIONS

Summarize the conclusions of the inspection(s) below.

1. There are three concrete lined, fenced, and netted sumps being used for evaporation of oil field produced wastewater and well workover operations. Freeboard appeared adequate for all the sumps. Disposal operations to the sumps are not regulated by WDRs.

2. A thick oil layer prevented Staff from sampling the sump wastewater.

3. Sumps integrity and containment ability is questionable as they are not routinely inspected for cracks in the concrete.

4. Facility wastewater contains chloride and boron concentrations that exceed allowable concentrations for disposal of oil field wastewater, which is a violation of the Basin Plan and may pose a threat to the beneficial uses of underlying groundwater.

5. California Water Code (Water Code) section 13260(a) requires that any person discharging waste that could affect the quality of the waters of the state shall file with the Central Valley Water Board, a report of the discharge. A RWD has not been received from J.P. Oil Company LLC.

Note: Inspection photographs follow

Attachment: Vicinity-Sump Map

PHOTOGRAPHS

Photo 1. Sump 1 netted Sump 2 netted Sump 3 netted

Photo 2. Sump 3 with discharge pipe

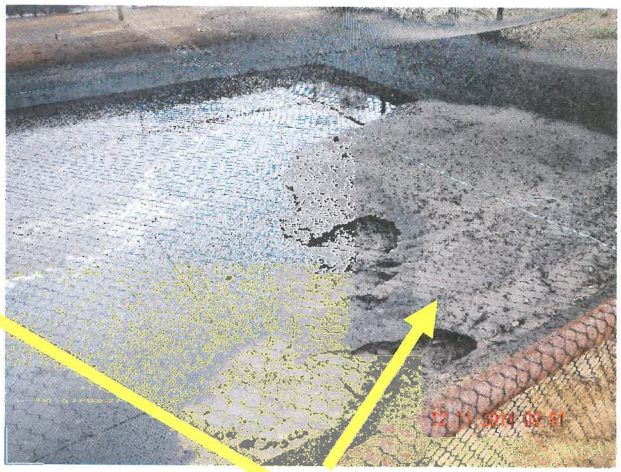


Photo 3. Sump 3 with sediment accumulation

Photo 4. Sump 2 with discharge pipe

Photo 6. Sump 1 with discharge pipe

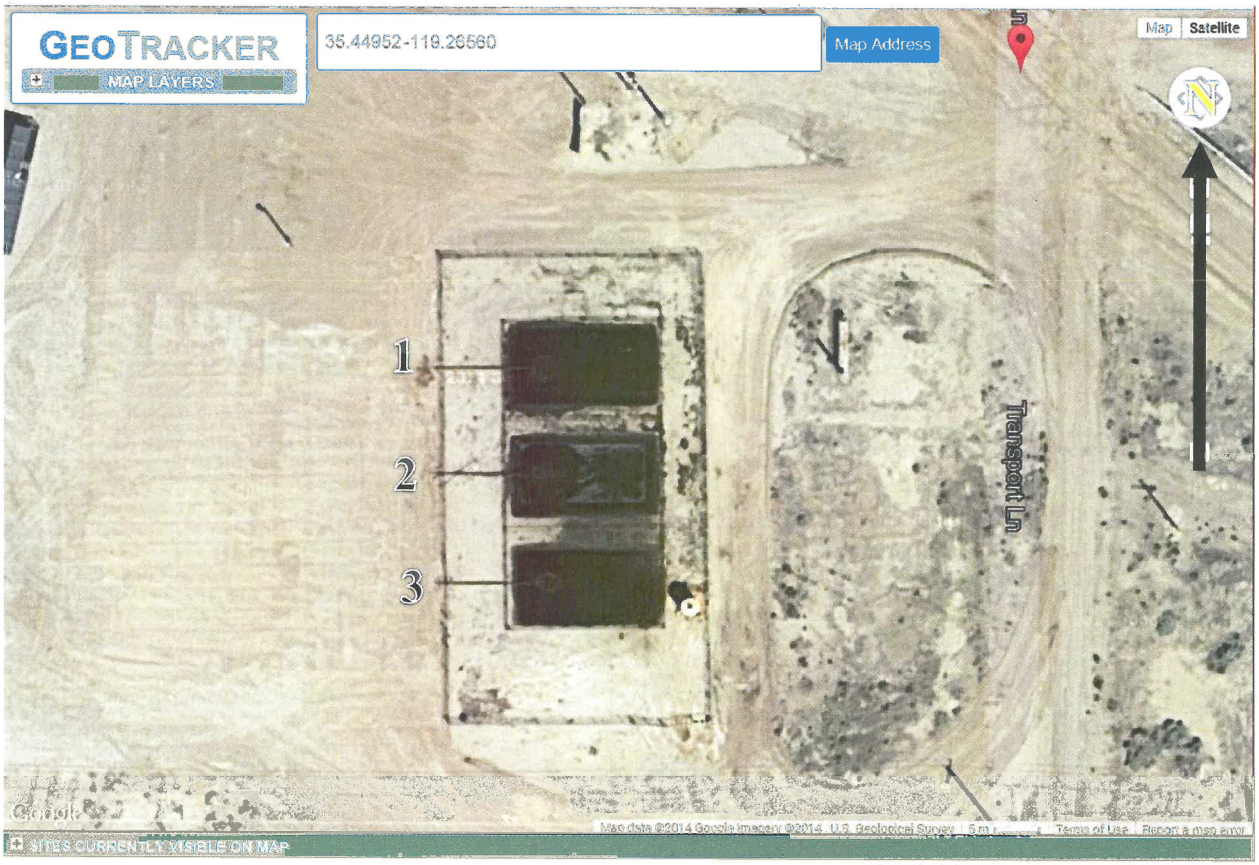
Photos taken on 11 December 2014 by Alejandra Lopez, RWQCB Engineering Geologist

Attachment 1

Site map

Inspection 11 December 2014

J.P. OIL COMPANY, LLC
KERNCO LEASE, RIO BRAVO OIL FIELD
S 1/2 of the NE1/4 of Sec.34, T28S, R25E, MDB&M



Aerial image date 4/15/2014

Kernco lease includes three active gated, netted, and concrete lined surface impoundments (sumps). According to Division of Oil, Gas and Geothermal Resources sumps are 20 feet by 10 feet and are 3 feet deep. All thee sums contain wastewater heavily coated with crude oil and sediment. Wastewater is delivered to sumps by tanker trucks. Wastewater from sumps is disposed of to Central Valley Waste Water disposal facility.

ATTACHMENT B

RWQCB Order 13267, April 21, 2015

APR 2 8 2015

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

21 April 2015

Cal Seneca
J.P. Oil Company
PO Box 52584
Lafayette, LA 70505

CERTIFIED MAIL
7014 1200 0000 3347 7142

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

J.P. Oil Company (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:

(a) 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 7 July 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 6 May 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.
   Contacted Dane on April 29, 2015 11:10 AM PST Time.

[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.

FOR 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

ATTACHMENT A

The following table contains the names of oil fields and lease(s) and the corresponding number of ponds that the Central Valley Water Board has identified as active and under your control:

OPERATOR	OIL FIELD	LEASE	NO. OF PONDS
J.P. Oil Company	Rio Bravo	Kernco	3

ATTACHMENT B

Water Quality Analysis

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

A. Total dissolved solids;

B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);

C. Benzene, toluene, ethylbenzene, and xylenes;

D. Total petroleum hydrocarbons as crude oil;

E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);

F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;

G. Major and minor cations (including sodium, potassium, magnesium, and calcium);

H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);

I. Trace elements (including lithium, strontium, boron, iron, and manganese).

Reporting Requirements

Water Quality information shall be submitted in a technical report that includes at a minimum:

A. Site plan(s) with the location(s) of where the samples were collected;

B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.

ATTACHMENT C

Laboratory Analytical Reports

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

April 3, 2015

Robert Kekacs
Engineered Well Service
3120 Standard Street
Bakersfield, CA 93308

TEL: NA
FAX: NA

Project ID:
RE: 1503304

Dear Robert Kekacs:

Zalco Laboratories, Inc. received 1 samples on 3/27/2015 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 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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4309 Armour Avenue
Bakersfield, California 93308

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

Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Reactivity									
Reactive Sulfide	2700	50		mg/kg		SW 7.3.4.2	3/31/15	3/31/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<10	10	*500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Arsenic	2.6	1.0	*500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Barium	280	5.0	*10000*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Beryllium	<0.50	0.50	*75*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Chromium	80	2.5	*2500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Cobalt	5.3	5.0	*8000*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Copper	250	2.5	*2500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Lead	85	2.5	*1000*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Mercury	0.59	0.050	*20*	mg/kg		SW846 7471A	3/31/15	3/31/15	SS
Molybdenum	28	5.0	*3500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Nickel	61	2.5	*2000*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Vanadium	22	5.0	*2400*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Zinc	390	2.5	*5000*	mg/kg		SW846 6010B	3/30/15	3/30/15	SS
Petroleum Hydrocarbons									
Diesel Range Hydrocarbons	24800	500		mg/kg		SW846 8015B	3/31/15	4/1/15	BIG
Gasoline Range Hydrocarbons	192	12.5		mg/kg		SW846 8015B	3/31/15	3/31/15	HLP
Motor Oil Range Hydrocarbons	32700	1250		mg/kg		SW846 8015B	3/31/15	4/1/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag	
a,a,a-Trifluorotoluene	83.4	24-120		3/31/15 15:33

Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	<4.95	4.95		mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,2,4-Trichlorobenzene	<4.95	4.95		mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,2-Dichlorobenzene	<4.95	4.95		mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,2-Dinitrobenzene	<4.95	4.95		mg/kg		SW846 8270C	4/1/15	4/2/15	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

Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
1,3,5-Trinitrobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,3-Dichlorobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,3-Dinitrobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,4-Dichlorobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,4-Dinitrobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1,4-Naphthoquinone	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1-Chloronaphthalene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1-Methylnaphthalene	17.2	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
1-Naphthylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,3,4,6-Tetrachlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,3,5,6-Tetrachlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4,5-Trichlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4,6-Trichlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4-Dichlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4-Dimethylphenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4-Dinitrophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,4-Dinitrotoluene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,6-Dichlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2,6-Dinitrotoluene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Acetylaminofluorene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Chloronaphthalene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Chlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Methylnaphthalene	23.8	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Methylphenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Naphthylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Nitroaniline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Nitrophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
2-Picoline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
3 & 4-Methylphenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
3,3´-Dichlorobenzidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
3,3´-Dimethylbenzidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
3-Methylcholanthrene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
3-Nitroaniline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4,4'-DDD	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4,4'-DDE	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	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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Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
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Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
4,4'-DDT	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4,6-Dinitro-2-methylphenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Aminobiphenyl	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Bromophenyl phenyl ether	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Chloro-3-methylphenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Chloroaniline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Chlorophenyl phenyl ether	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Nitroaniline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Nitrophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
4-Nitroquinoline-1-oxide	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
5-Nitro-o-toluidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
7,12-Dimethylbenz(a)anthracene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
alpha-BHC	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
a,a-Dimethylphenethylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Acenaphthene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Acenaphthylene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Acetophenone	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Aldrin	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Aniline	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Anthracene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Aramite	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Azobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzaldehyde	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
beta-BHC	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzo(a)anthracene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzo(a)pyrene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzo(b)fluoranthene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzo(ghi)perylene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzo(k)fluoranthene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzoic acid	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Benzyl alcohol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Bis(2-chloroethoxy)methane	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Bis(2-chloroethyl)ether	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Bis(2-chloroisopropyl)ether	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM

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FAX (661) 395-3069

Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Bis(2-ethylhexyl)phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Butyl benzyl phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Carbazole	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Chlorobenzilate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Chrysene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
delta-BHC	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Di-n-butyl phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Di-n-octyl phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Diallate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dibenz (a,h) anthracene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dibenz (a,j) acridine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dibenzofuran	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dieldrin	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Diethyl phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dimethyl phthalate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Dimethylaminoazobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Diphenylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Endosulfan I	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Endosulfan II	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Endosulfan sulfate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Endrin	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Endrin aldehyde	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Ethyl Methanesulfonate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Fluoranthene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Fluorene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
gamma-BHC (Lindane)	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Heptachlor	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Heptachlor epoxide	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Hexachlorobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Hexachlorobutadiene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Hexachlorocyclopentadiene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Hexachloroethane	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Hexachloropropene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Indeno(1,2,3-cd)pyrene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Isodrin	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	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

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Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Isophorone	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Isosafrole	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Kepone	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Methapyrilene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Methoxychlor	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Methyl Methanesulfonate	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosodi-n-butylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosodi-n-propylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosodiethylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosodimethylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosodiphenylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosomethylethylamine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosomorpholine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosopiperidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
N-Nitrosopyrrolidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Naphthalene	8.87	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Nitrobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
o-Toluidine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
p-Dimethylaminoazobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pentachlorobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pentachloronitrobenzene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pentachlorophenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Phenacetin	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Phenanthrene	6.56	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Phenol	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pronamide	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pyrene	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Pyridine	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM
Safrole	<4.95	4.95	mg/kg		SW846 8270C	4/1/15	4/2/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	32.3	0-134		4/2/15 8:41
Phenol-d6	35.8	0-140		4/2/15 8:41
Nitrobenzene-d5	36.8	0-157		4/2/15 8:41
2-Fluorobiphenyl	32.4	0-139		4/2/15 8:41

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Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Surrogates	**% Recovery**	**Recovery Limits**	**Flag**					
2,4,6-Tribromophenol	39.4	0-140					4/2/15 8:41	
Terphenyl-dl4	66.6	0-166					4/2/15 8:41	
STLC Metals by 6000/7000 Series								
Chromium	1.3	0.50	mg/L		SW846 6010B	3/31/15	4/2/15	SS
Copper	<0.50	0.50	mg/L		SW846 6010B	3/31/15	4/2/15	SS
Lead	<0.50	0.50	mg/L		SW846 6010B	3/31/15	4/2/15	SS
Volatile Organic Compounds								
Ethyl Acetate	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acetone	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acrolein	<1000	1000	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acrylonitrile	<1000	1000	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Benzene	3160	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromochloromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromodichloromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromoform	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromomethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Butanone	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
tert-Butyl alcohol	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
n-Butylbenzene	1270	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
sec-Butylbenzene	802	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
tert-Butylbenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Carbon disulfide	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Carbon Tetrachloride	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Chloroethyl vinyl ether	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloroform	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

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Engineered Well Service	Project: Waste Characterization - 2Q2015	Work Order No.: **1503304**
3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Dibromochloromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dibromo-3-chloropropane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dibromoethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Dibromomethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,4-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Dichlorodifluoromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
cis-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
trans-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Di-isopropyl ether	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
cis-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
trans-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Ethyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Ethyl Benzene	6980	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Hexachlorobutadiene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Hexanone	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Iodomethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Isopropylbenzene	1440	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Isopropyltoluene	1300	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Methylene Chloride	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Methyl-2-pentanone	<2500	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Methyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Naphthalene	7680	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
n-Propylbenzene	2130	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Styrene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Tert-Amyl Methyl Ether	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,1,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

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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3120 Standard Street	Project #:	Reported: 04/03/2015
Bakersfield, CA 93308	Attention: Robert Kekacs	Received: 03/27/2015 11:30

Lab Sample ID: **1503304-01**	Collected By: Robert Kekacs
Client Sample ID: JP Oil Centrifuge Cake	Date Collected: 3/27/2015 11:40:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Tetrachloroethene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Toluene	14800	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,3-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,4-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,1-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,2-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Trichloroethene	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Trichlorofluoromethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,3-Trichloropropane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,4-Trimethylbenzene	15200	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3,5-Trimethylbenzene	3990	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Vinyl acetate	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Vinyl chloride	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
o-Xylene	8880	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Xylenes, total	33200		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
m,p-Xylene	24300	2500	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<250	250	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	116	72-154		3/31/15 13:50
Toluene-d8	102	70-125		3/31/15 13:50
4-Bromofluorobenzene	112	52-153		3/31/15 13:50

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29 North Olive Street
Ventura, CA 93001
(805) 643-5621

DOHS Bioassay for Hazardous Waste (Title 22)

SAMPLE INFORMATION

CLIENT:	Zalco Laboratories, Inc.	Date:	04/24/15
SAMPLE I.D.:	1503304-01	LAB :	ZAL0415.244

WATER QUALITY

DILUTION WATI	Reconst. Fresh	AERATION:	Single Bubble Air
CONTROL HARDNESS		CONTROL ALKALINITY	
Beg:	42 mg/l End: 44 mg/l	Beg:	32 mg/l End: 33 mg/l
SAMPLE HARDNESS		SAMPLE ALKALINITY	
Beg:	74 mg/l End: 90 mg/l	Beg:	50 mg/l End: 65 mg/l

ORGANISM INFORMATION

SPECIES:	Pimephales promelas	DATE REC'D:	04/21/15
COMMON NAMI	Fathead Minnow	AVERAGE LNTH:	38 mm
SOURCE:	Thomas Fish Co.	AVERAGE WT:	0.62 gm
CARRIER:	California Overnight	NO. FISH / TANK:	10

TEST DATA

	INITIAL			24 HOURS				48 HOURS				72 HOURS				96 HOURS			
DATE:	04/27/15			04/28/15				04/29/15				04/30/15				05/01/15			
TIME:	1441			1206				1319				1447				1347			
CONC.	Dis. Oxy.	Temp. dg.C	pH	Dis. Oxy.	Temp. dg.C	pH	#Fish Dead	Dis. Oxy.	Temp. dg.C	pH	#Fish Dead	Dis. Oxy.	Temp. dg.C	pH	#Fish Dead	Dis. Oxy.	Temp. dg.C	pH	#Fish Dead
0 (Con.)	8.4	19.9	7.8	7.6	19.3	7.8	0	7.3	19.4	7.7	0	7.1	19.4	7.2	0	7.7	19.7	7.4	0
400 mg/l	8.3	20.0	8.4	7.5	19.1	7.4	0	7.0	19.1	7.1	0	7.5	19.0	7.1	2	7.4	19.3	7.2	2
400 mg/l	8.3	19.9	8.4	7.6	19.0	7.4	0	6.9	19.0	7.1	0	7.2	19.0	7.1	1	7.4	19.3	7.2	1
750 mg/l	8.2	19.9	8.4	7.6	19.0	7.4	0	6.8	19.0	7.1	0	7.0	18.9	7.1	4	7.4	19.2	7.1	0
750 mg/l	8.1	19.9	8.4	7.6	19.0	7.3	0	6.7	19.0	7.1	0	6.9	18.8	7.0	2	7.1	19.2	7.1	1

FINAL DATA

TOTAL MORTALITIES	
0 (Con.)	0
400 mg/l	4
400 mg/l	2
750 mg/l	4
750 mg/l	3

FINAL RESULTS

96 HOUR LC50 =	>750 mg/l
STATUS =	Pass
CALCULATION METHOD =	Binomial Test

Michael Machuzak, Chief Biologist

Date 5/1/15

ZALCO LABORATORIES, INC.

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

CHAIN OF CUSTODY, ID# 1503304

RUSH!

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID: _____

REPORT INFO	INVOICE INFO
Client: EWS	Invoice To: Same as Client ❑
Address: 3120 Gilmore ST	Address:
City, State, Zip: Bakersfield CA 93308	City, State, Zip:
Attention: B Kekacs	Attention:
Phone: Results ❑	Phone:
Fax: Results ❑	Fax:
Email: Results ☑ rkekacs@ewellservice.com	Email:

SAMPLED BY: **EMPLOYED BY:**

Sample No. *	Sample Description	Date	Sample Time	Type*	# of Containers	8260	8270	CAM 17	Fuel Fingerprint					Temperature (C°)
1	JP oil Centrifuge Cake	3/27	1140	~~QT~~ SFO	1	X	X	X	X					
	4/21/15 Per Bob K Please Run Fish Bio ASAP - FJ													

COMMENTS:

Turnaround Time:

Routine 5 working days ❑

Rush By _____ working days

Send Copy to State of CA? Yes ❑ No ❑

Attention To: _____

Send Copy to County? Yes ❑ No ❑

County _____

5 day TAT per Noah

C.O.D.

Subject to Standard Printed Terms and Conditions

X

Standard Short Hold Time ❑ ❑

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
[signature]	Robert Kekacs	EWS	3/27	1130	[signature]	[signature]

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

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

May 28, 2015

Cal Seneca
J P Oil Company
P O Box 52584
La Fayette, LA 70505

TEL: (337) 258-3003
FAX: (337) 234-9891

Project ID:
RE: 1505344

Dear Cal Seneca:

Zalco Laboratories, Inc. received 1 samples on 5/27/2015 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 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

J P Oil Company	Project: Master	Work Order No.: **1505344**
P O Box 52584	Project #:	Reported: 05/28/2015
La Fayette, LA 70505	Attention: Cal Seneca	Received: 05/27/2015 13:00

Lab Sample ID: **1505344-01**	Collected By: Cal Seneca
Client Sample ID: Centrifuge Cake	Date Collected: 5/27/2015 12:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Reactivity								
Reactive Sulfide	480	10	mg/kg		SW 7.3.4.2	5/28/15	5/28/15	SAM

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# 1505344

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID:

REPORT INFO	INVOICE INFO
Client: JP oil	Invoice To: Same as Client ❑
Address:	Address:
City, State, Zip:	City, State, Zip:
Attention: Cal	Attention:
Phone: Results ❑	Phone:
Fax: Results ❑	Fax:
Email: Results ☑	Email:

SAMPLED BY: **EMPLOYED BY:**

Sample No. *	Sample Description	Sample Date	Sample Time	Sample Type*	# OF CONTAINERS	Reactive Sulfide								TEMPERATURE (C°)
1	Centrifuge Cake	5/27	1230	S	1	X								28

COMMENTS:

Turnaround Time:
Routine _____ working days ❑

Rush By _____ working days

Send Copy to State of CA?
Yes ❑ No ❑

Attention To: _____

Send Copy to County?
Yes ❑ No ❑

County _____

RUSH!

Refer to sample from COC 1505081 per client - KJS

ASAP!

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
[signature]			5/27	130	[signature]	K Spingman

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

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

May 7, 2015

Cal Seneca
J P Oil Company
P O Box 52584
La Fayette, LA 70505

TEL: (337) 258-3003
FAX: (337) 234-9891

Project ID:
RE: 1505081

Dear Cal Seneca:

Zalco Laboratories, Inc. received 1 samples on 5/7/2015 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 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.

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Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

J P Oil Company	Project: Master	Work Order No.: **1505081**
P O Box 52584	Project #:	Reported: 05/07/2015
La Fayette, LA 70505	Attention: Cal Seneca	Received: 05/07/2015 12:00

Lab Sample ID: **1505081-01**	Collected By: Cal Seneca
Client Sample ID: Centrifuge Cake	Date Collected: 5/7/2015 12:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Reactivity								
Reactive Sulfide	1800	50	mg/kg		SW 7.3.4.2	5/7/15	5/7/15	SAM

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.

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ZALCO LABORATORIES, INC.

CHAIN OF CUSTODY, ID# 1503081

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: JP Oil	Invoice To: Same as Client ❑
Address: 32034 Pacific Edge	Address:
City, State, Zip: Laguna Niguel CA 92677	City, State, Zip:
Attention: Carl Benecke	Attention:
Phone: 949-458-3003 Results ❑	Phone:
Fax: Results ❑	Fax:
Email: Results ❑	Email:

SAMPLED BY: **EMPLOYED BY:**

Sample No. *	Sample Description	Sample Date	Sample Time	Sample Type*	# OF CONTAINERS	Reactive Sulfide	Combustion Test	Gravimetric #10280							TEMPERATURE (C°)
1	Centrifuge Cake	5/7		S	1	X	X								2.68

COMMENTS:

Turnaround Time:

Routine _____ working days ❑

Rush By _____ working days

Send Copy to State of CA? Yes ❑ No ❑

Attention To: _____

Send Copy to County? Yes ❑ No ❑

County _____

RUSH!

ASAP!

Per Jean ASAP
-KJS

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
[illegible]			5/7	1200	KJ	K Spangler

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

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

June 4, 2015

Jane McNaboe
Enviro Technologies Consultants, Inc.
5400 Rosedale Hwy
Bakersfield, CA 93308

TEL: (661) 377-0073
FAX:

Project ID:
RE: 1505255

Dear Jane McNaboe:

Zalco Laboratories, Inc. received 3 samples on 5/19/2015 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:cseneca@jpoil.com

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

Enviro Technologies Consultants, Inc.	Project: Master	Work Order No.: **1505255**
5400 Rosedale Hwy	Project #:	Reported: 06/04/2015
Bakersfield, CA 93308	Attention: Jane McNaboe	Received: 05/19/2015 14:15

Lab Sample ID: **1505255-01**	Collected By: Justin Graves
Client Sample ID: Bin # E45553	Date Collected: 5/19/2015 1:10:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Metals								
Boron	<5.0	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Iron	15000	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Lithium	11	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Manganese	630	1.5	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Strontium	680	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS

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

Enviro Technologies Consultants, Inc.	Project: Master	Work Order No.: **1505255**
5400 Rosedale Hwy	Project #:	Reported: 06/04/2015
Bakersfield, CA 93308	Attention: Jane McNaboe	Received: 05/19/2015 14:15

Lab Sample ID: **1505255-02**	Collected By: Justin Graves
Client Sample ID: Bin # E45561	Date Collected: 5/19/2015 1:15:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Metals								
Boron	<5.0	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Iron	13000	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Lithium	7.2	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Manganese	420	1.5	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Strontium	410	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS

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.

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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

Enviro Technologies Consultants, Inc.	Project: Master	Work Order No.: **1505255**
5400 Rosedale Hwy	Project #:	Reported: 06/04/2015
Bakersfield, CA 93308	Attention: Jane McNaboe	Received: 05/19/2015 14:15

Lab Sample ID: **1505255-03**	Collected By: Justin Graves
Client Sample ID: Bin # E45557	Date Collected: 5/19/2015 1:20:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Metals								
Boron	<5.0	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Iron	16000	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Lithium	6.9	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Manganese	780	1.5	mg/kg		SW846 6010B	5/20/15	5/21/15	SS
Strontium	490	5.0	mg/kg		SW846 6010B	5/20/15	5/21/15	SS

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.

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ZALCO LABORATORIES, INC.

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069
2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125
www.zalcolabs.com

CHAIN OF CUSTODY, ID#

Client PO:
Project ID:
Quote ID:

ANALYSIS REQUESTED 1505255

COMPANY: Envirotech
CONTACT: Jane McNaboe
PHONE: 661-377-0073 Ext. 11 FAX:
ADDRESS: 5400 Rosedale Hwy
Bakewrsfield Ca. 93312
E-MAIL:
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days)
Rush By Working Days
EDT
State Form
EMAIL

LAB #	SAMPLE DESCRIPTION	DATE	TIME	TYPE *	# OF CONTAINERS	Radionuclides	Trace Elements										TEMPERATURE (C)	Notes
1	Bin # E45553	5/19/2015	13:10	S	1	X	X											Please CC:
2	Bin # E45561	5/19/2015	13:15	S	1	X	X											cseneca@jpoil.com
3	Bin # E45557	5/19/2015	13:20	S	1	X	X											
																		26.6
																		Logged in Subbed Printed
																		X

Relinquished By:	Company	Date	Time	Received By:	Company:
Justin Graves	Zalco Laboratories Inc.	05/19/15	1415		Zalco

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

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

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

March 18, 2015

Frank Madrid
J P Oil Company
30540 Imperial St
Shafter, CA 93263

TEL: (661) 978-3771
FAX: (661) 746-8987

Project ID:
RE: 1503055

Dear Frank Madrid:

Zalco Laboratories, Inc. received 3 samples on 3/4/2015 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 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.

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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	TTLC Limits	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Ignitability of Solids									
Screen Test, Ignitability	Non-Flammable Under Test Conditions			N/A		SW-846 EPA 1030	3/6/15	3/6/15	JAH
Burn Rate, Ignitability	Non-Flammable Under Test Conditions			mm/sec		SW-846 EPA 1030	3/6/15	3/6/15	JAH
CAM, Reactivity									
Reactive Cyanide	<1.0	1.0		mg/kg		SW 7.3.3.2	3/12/15	3/12/15	SAM
Reactive Sulfide	210	10		mg/kg	I-02	SW 7.3.4.2	3/11/15	3/11/15	SAM
CAM, Toxicity (17 Metals)									
Antimony	<10	10	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Arsenic	<1.0	1.0	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Barium	580	5.0	*10000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Beryllium	<0.50	0.50	*75*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Chromium	29	2.5	*2500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Cobalt	<5.0	5.0	*8000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Copper	120	2.5	*2500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Lead	44	2.5	*1000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Mercury	0.17	0.050	*20*	mg/kg		SW846 7471A	3/9/15	3/9/15	SS
Molybdenum	15	5.0	*3500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Nickel	28	2.5	*2000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Vanadium	9.0	5.0	*2400*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Zinc	250	2.5	*5000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2,4-Trichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dinitrobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
1-Naphthylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,4,6-Tetrachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4,5-Trichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4,6-Trichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dimethylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrotoluene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dinitrotoluene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Acetylaminofluorene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chloronaphthalene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylnaphthalene	126	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Naphthylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Picoline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dichlorobenzidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dimethylbenzidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Methylcholanthrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,6-Dinitro-2-methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Aminobiphenyl	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Bromophenyl phenyl ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloro-3-methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chlorophenyl phenyl ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
5-Nitro-o-toluidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
7,12-Dimethylbenz(a)anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
alpha-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
a,a-Dimethylphenethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Acenaphthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acenaphthylene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acetophenone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aldrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aramite	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
beta-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(b)fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(ghi)perylene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(k)fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzoic acid	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzyl alcohol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethoxy)methane	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethyl)ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroisopropyl)ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-ethylhexyl)phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Butyl benzyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chlorobenzilate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chrysene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
delta-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-butyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-octyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diallate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,h) anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,j) acridine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenzofuran	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dieldrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diethyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dimethyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diphenylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan I	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan II	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Endosulfan sulfate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endrin aldehyde	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Ethyl Methanesulfonate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluorene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
gamma-BHC (Lindane)	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor epoxide	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobutadiene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorocyclopentadiene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloroethane	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloropropene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Indeno(1,2,3-cd)pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isodrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isophorone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isosafrole	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Kepone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methapyrilene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methoxychlor	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methyl Methanesulfonate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-butylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-propylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodimethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiphenylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomethylethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomorpholine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopiperidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopyrrolidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Naphthalene	49.0	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Nitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
o-Toluidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
p-Dimethylaminoazobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Pentachlorobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachloronitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenacetin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenanthrene	34.2	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pronamide	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyridine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Safrole	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Chloronaphthalene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dinitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dinitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,5,6-Tetrachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Methylnaphthalene	83.1	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Azobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDD	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Carbazole	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3 & 4-Methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDE	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDT	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.0	0-134		3/13/15 11:04
Phenol-d6	63.5	0-140		3/13/15 11:04
Nitrobenzene-d5	77.8	0-157		3/13/15 11:04
2-Fluorobiphenyl	63.0	0-139		3/13/15 11:04
2,4,6-Tribromophenol	82.4	0-140		3/13/15 11:04
Terphenyl-dl4	85.8	0-166		3/13/15 11:04

Volatile Organic Compounds								
Ethyl Acetate	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acetone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrolein	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrylonitrile	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Benzene	22500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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

J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Bromobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromodichloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromoform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Butanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butyl alcohol	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Butylbenzene	2410	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
sec-Butylbenzene	1540	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butylbenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon disulfide	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon Tetrachloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chloroethyl vinyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromo-3-chloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromoethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,4-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dichlorodifluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Di-isopropyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Ethyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Ethyl Benzene	23600	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Hexachlorobutadiene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Hexanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Iodomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Isopropylbenzene	4010	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Isopropyltoluene	3430	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methylene Chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Methyl-2-pentanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Naphthalene	26200	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Propylbenzene	4580	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Styrene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tert-Amyl Methyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tetrachloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Toluene	70000	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichlorofluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trimethylbenzene	27000	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3,5-Trimethylbenzene	7420	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl acetate	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
o-Xylene	41400	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Xylenes, total	140000		ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-01**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #1	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
m,p-Xylene	98500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	72-154		3/17/15 9:39
Toluene-d8	96.1	70-125		3/17/15 9:39
4-Bromofluorobenzene	111	52-153		3/17/15 9:39

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Ignitability of Solids									
Screen Test, Ignitability	Non-Flammable Under Test Conditions			N/A		SW-846 EPA 1030	3/6/15	3/6/15	JAH
Burn Rate, Ignitability	Non-Flammable Under Test Conditions			mm/sec		SW-846 EPA 1030	3/6/15	3/6/15	JAH
CAM, Reactivity									
Reactive Cyanide	<1.0	1.0		mg/kg		SW 7.3.3.2	3/12/15	3/12/15	SAM
Reactive Sulfide	42	10		mg/kg	I-02	SW 7.3.4.2	3/11/15	3/11/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<10	10	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Arsenic	<1.0	1.0	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Barium	210	5.0	*10000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Beryllium	<0.50	0.50	*75*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Chromium	8.0	2.5	*2500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Cobalt	<5.0	5.0	*8000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Copper	26	2.5	*2500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Lead	10	2.5	*1000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Mercury	<0.050	0.050	*20*	mg/kg		SW846 7471A	3/9/15	3/9/15	SS
Molybdenum	<5.0	5.0	*3500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Nickel	11	2.5	*2000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Vanadium	<5.0	5.0	*2400*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Zinc	51	2.5	*5000*	mg/kg		SW846 6010B	3/6/15	3/9/15	SS
Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2,4-Trichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dinitrobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dichlorobenzene	<24.8	24.8		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
1-Naphthylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,4,6-Tetrachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4,5-Trichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4,6-Trichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dimethylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrotoluene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dichlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dinitrotoluene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Acetylaminofluorene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chloronaphthalene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylnaphthalene	511	248	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Naphthylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Picoline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dichlorobenzidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dimethylbenzidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Methylcholanthrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,6-Dinitro-2-methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Aminobiphenyl	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Bromophenyl phenyl ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloro-3-methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chlorophenyl phenyl ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitroaniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitrophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
5-Nitro-o-toluidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
7,12-Dimethylbenz(a)anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
alpha-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
a,a-Dimethylphenethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Acenaphthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acenaphthylene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acetophenone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aldrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aniline	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aramite	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
beta-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(b)fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(ghi)perylene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(k)fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzoic acid	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzyl alcohol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethoxy)methane	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethyl)ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroisopropyl)ether	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-ethylhexyl)phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Butyl benzyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chlorobenzilate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chrysene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
delta-BHC	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-butyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-octyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diallate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,h) anthracene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,j) acridine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenzofuran	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dieldrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diethyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dimethyl phthalate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diphenylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan I	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan II	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	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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FAX (661) 395-3069

J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Endosulfan sulfate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endrin aldehyde	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Ethyl Methanesulfonate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluoranthene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluorene	35.7	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
gamma-BHC (Lindane)	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor epoxide	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobutadiene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorocyclopentadiene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloroethane	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloropropene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Indeno(1,2,3-cd)pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isodrin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isophorone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isosafrole	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Kepone	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methapyrilene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methoxychlor	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methyl Methanesulfonate	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-butylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-propylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodimethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiphenylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomethylethylamine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomorpholine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopiperidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopyrrolidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Naphthalene	186	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Nitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
o-Toluidine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
p-Dimethylaminoazobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Pentachlorobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachloronitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenacetin	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenanthrene	93.2	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pronamide	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyrene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyridine	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Safrole	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Chloronaphthalene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dinitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dinitrobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,5,6-Tetrachlorophenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Methylnaphthalene	336	248	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Azobenzene	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDD	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Carbazole	32.9	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3 & 4-Methylphenol	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDE	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDT	<24.8	24.8	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	40.8	0-134		3/13/15 11:04
Phenol-d6	50.6	0-140		3/13/15 11:04
Nitrobenzene-d5	81.8	0-157		3/13/15 11:04
2-Fluorobiphenyl	65.8	0-139		3/13/15 11:04
2,4,6-Tribromophenol	58.6	0-140		3/13/15 11:04
Terphenyl-dl4	70.8	0-166		3/13/15 11:04

Volatile Organic Compounds								
Ethyl Acetate	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acetone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrolein	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrylonitrile	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Benzene	50200	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Bromobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromodichloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromoform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Butanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butyl alcohol	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Butylbenzene	7010	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
sec-Butylbenzene	4800	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butylbenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon disulfide	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon Tetrachloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chloroethyl vinyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromo-3-chloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromoethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,4-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dichlorodifluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Di-isopropyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Ethyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Ethyl Benzene	42500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Hexachlorobutadiene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Hexanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Iodomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Isopropylbenzene	10800	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Isopropyltoluene	5830	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methylene Chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Methyl-2-pentanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Naphthalene	71800	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Propylbenzene	14800	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Styrene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tert-Amyl Methyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tetrachloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Toluene	260000	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichlorofluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trimethylbenzene	129000	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3,5-Trimethylbenzene	27100	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl acetate	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
o-Xylene	99400	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Xylenes, total	324000		ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-02**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #2	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
m,p-Xylene	225000	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag		
1,2-Dichloroethane-d4	116	72-154		3/17/15	9:39
Toluene-d8	87.0	70-125		3/17/15	9:39
4-Bromofluorobenzene	97.9	52-153		3/17/15	9:39

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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Reactivity									
Cyanide	<1.0	1.0		mg/kg		SW 7.3.3.2	3/12/15	3/12/15	SAM
Reactive Sulfide	<10	10		mg/kg	I-02	SW 7.3.4.2	3/12/15	3/12/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<20.0	20.0	*500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Arsenic	<2.0	2.0	*500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Barium	<10	10	*10000*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Beryllium	<1.0	1.0	*75*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Cadmium	<1.0	1.0	*100*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Chromium	<5.0	5.0	*2500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Cobalt	<10	10	*8000*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Copper	19	5.0	*2500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Lead	<5.0	5.0	*1000*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Mercury	<0.050	0.050	*20*	mg/kg		SW846 7471A	3/9/15	3/9/15	SS
Molybdenum	<10	10	*3500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Nickel	23	5.0	*2000*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Selenium	<5.0	5.0	*100*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Silver	<2.0	2.0	*500*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Thallium	<50	50	*700*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Vanadium	<10	10	*2400*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Zinc	38	5.0	*5000*	mg/kg		SW846 6010B	3/10/15	3/13/15	SS
Petroleum Chemistry									
Flash Point	> 200°	20		°F		ASTM D 93	3/10/15	3/10/15	JAH
Semivolatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2,4-Trichlorobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dichlorobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dichlorobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,3-Dinitrobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dichlorobenzene	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Naphthylamine	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,4,6-Tetrachlorophenol	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4,5-Trichlorophenol	<25.0	25.0		mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
2,4,6-Trichlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dichlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dimethylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,4-Dinitrotoluene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dichlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,6-Dinitrotoluene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Acetylaminofluorene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chloronaphthalene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Chlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylnaphthalene	70.3	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Methylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Naphthylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitroaniline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Nitrophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2-Picoline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dichlorobenzidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3,3'-Dimethylbenzidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Methylcholanthrene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Methylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
3-Nitroaniline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,6-Dinitro-2-methylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Aminobiphenyl	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Bromophenyl phenyl ether	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloro-3-methylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chloroaniline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Chlorophenyl phenyl ether	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Methylphenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitroaniline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4-Nitrophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
5-Nitro-o-toluidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
7,12-Dimethylbenz(a)anthracene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
alpha-BHC	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
a,a-Dimethylphenethylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acenaphthene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Acenaphthylene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Acetophenone	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aldrin	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aniline	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Anthracene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Aramite	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
beta-BHC	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)anthracene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(a)pyrene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(b)fluoranthene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(ghi)perylene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzo(k)fluoranthene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzoic acid	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Benzyl alcohol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethoxy)methane	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroethyl)ether	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-chloroisopropyl) ether	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Bis(2-ethylhexyl) phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Butyl benzyl phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chlorobenzilate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Chrysene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
delta-BHC	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-butyl phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Di-n-octyl phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diallate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,h) anthracene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenz (a,j) acridine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dibenzofuran	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dieldrin	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diethyl phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Dimethyl phthalate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Diphenylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan I	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan II	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endosulfan sulfate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Endrin	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Endrin aldehyde	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Ethyl Methanesulfonate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluoranthene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Fluorene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
gamma-BHC (Lindane)	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Heptachlor epoxide	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorobutadiene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachlorocyclopentadiene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloroethane	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Hexachloropropene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Indeno(1,2,3-cd)pyrene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isodrin	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isophorone	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Isosafrole	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Kepone	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methapyrilene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methoxychlor	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Methyl Methanesulfonate	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-butylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodi-n-propylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiethylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodimethylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosodiphenylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomethylethylamine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosomorpholine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopiperidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
N-Nitrosopyrrolidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Naphthalene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Nitrobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
o-Toluidine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
p-Dimethylaminoazobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachlorobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	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

J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Pentachloronitrobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pentachlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenacetin	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenanthrene	45.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Phenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pronamide	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyrene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Pyridine	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
Safrole	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Chloronaphthalene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,4-Dinitrobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1,2-Dinitrobenzene	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
2,3,5,6-Tetrachlorophenol	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
1-Methylnaphthalene	47.6	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDD	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDE	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM
4,4'-DDT	<25.0	25.0	mg/kg		SW846 8270C	3/11/15	3/13/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	33.8	0-134		3/13/15 11:47
Phenol-d6	42.2	0-140		3/13/15 11:47
Nitrobenzene-d5	47.4	0-157		3/13/15 11:47
2-Fluorobiphenyl	43.4	0-139		3/13/15 11:47
2,4,6-Tribromophenol	49.0	0-140		3/13/15 11:47
Terphenyl-dl4	55.0	0-166		3/13/15 11:47

Volatile Organic Compounds								
Ethyl Acetate	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acetone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrolein	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Acrylonitrile	<1000	1000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Benzene	6260	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromodichloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Bromoform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Bromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Butanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butyl alcohol	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Butylbenzene	2830	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
sec-Butylbenzene	1650	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
tert-Butylbenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon disulfide	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Carbon Tetrachloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chloroethyl vinyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloroform	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Chloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Chlorotoluene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromochloromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromo-3-chloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dibromoethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dibromomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,4-Dichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Dichlorodifluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,2-Dichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2,2-Dichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Di-isopropyl ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
cis-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
trans-1,3-Dichloropropene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Ethyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Ethyl Benzene	9770	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Hexachlorobutadiene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
2-Hexanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Iodomethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Isopropylbenzene	2700	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Isopropyltoluene	3150	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methylene Chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
4-Methyl-2-pentanone	<2500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Methyl tert-Butyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Naphthalene	178000	25000	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
n-Propylbenzene	3850	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Styrene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tert-Amyl Methyl Ether	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2,2-Tetrachloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Tetrachloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Toluene	33900	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trichlorobenzene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,1-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloroethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichloroethene	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Trichlorofluoromethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,3-Trichloropropane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,2,4-Trimethylbenzene	39600	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,3,5-Trimethylbenzene	10300	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl acetate	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Vinyl chloride	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
o-Xylene	20500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
Xylenes, total	63000		ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
m,p-Xylene	42500	2500	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<250	250	ug/kg		SW846 8260B	3/17/15	3/17/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag

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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J P Oil Company	Project: Master	Work Order No.: **1503055**
30540 Imperial St	Project #:	Reported: 03/18/2015
Shafter, CA 93263	Attention: Frank Madrid	Received: 03/04/2015 13:15

Lab Sample ID: **1503055-03**	Collected By: JP Oil
Client Sample ID: Rio Bravo Kern Co Sump #3	Date Collected: 3/3/2015 12:00:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds									
1,2-Dichloroethane-d4		112	72-154					3/17/15 9:39	
Toluene-d8		85.4	70-125					3/17/15 9:39	
4-Bromofluorobenzene		101	52-153					3/17/15 9:39	

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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CHAIN OF CUSTODY, ID# 1503055

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID:

REPORT INFO	INVOICE INFO
Client: JP OIL	Invoice To: Same as Client ☐
Address: 3050 IMPERIAL ST.	Address:
City, State, Zip: SHAFTER CA. 93263	City, State, Zip:
Attention: FRANK MADRID	Attention:
Phone: Results ☐	Phone:
Fax: Results ☐	Fax:
Email: Results ☒	Email:

SAMPLED BY: JP OIL **EMPLOYED BY:**

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 _____

Sample No.*	Sample Description	Date	Sample Time	Type*	# OF CONTAINERS	CAM 17	REACTIVITY	IGNITABILITY	FISH BIOASSAY	8260C	8270C			TEMPERATURE (C°)
1	RIOBRAVO KERNCO SUMP #1	3/3/15	12:00	RS	1	X	X	X	X	X	X			19
2	RIOBRAVO KERNCO SUMP #2	3/3/15	12:00	RS	1	X	X	X	X	X	X			
3	RIOBRAVO KERNCO SUMP #3	3/3/15	12:00	PS	1	X	X	X	X	X	X			

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Frank Madrid	Frank Madrid	JP Oil Co	3/4/15			J. GRAVES
	J. GRAVES	ZALCO	3/4/15	1315		K. Springman

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

NALCO Champion Water Analysis Report

An Ecolab Company

Attention: **Jared.Phillips@CHAMP-TECH.com**

Customer: **JP Oil**

Location Code: **161046**
Sample ID: **AD15705**
Login Batch: **12-15-14_LMM_ICPWET**
Collection Date: **12/10/2014**
Receive Date: **12/15/2014**
Report Date: **12/30/1899**

Region: **Rio Bravo Field**
Location: **KernCo Lease**
System: **Water Disposal System**
Equipment: **North KernCo Sump**
Lab ID: **ABU-1031**
Sample Point: **Sump**

Analyses	Result	Unit
Specfic Gravity	**1.014**	

Cations	Result	Unit
Iron	**2.415**	mg/L
Manganese	**0.383**	mg/L
Barium	**3.584**	mg/L
Strontium	**30.68**	mg/L
Calcium	**416.3**	mg/L
Magnesium	**71.44**	mg/L
Sodium	**7985**	mg/L

Anions	Result	Unit
CHLORIDE	**13017.07**	mg/L
SULFATE	**31.1**	mg/L

Scale Type	Result
Saturation Index Calculation (Tomson-Oddo Model)	

Comments: "DOMESTIC"
Silicon: 27.78 mg/L
Boron: 45.42 mg/L
Phosphorus: 10.18 mg/L
Potassium: 284.8 mg/L

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NALCO Champion Water Analysis Report

An Ecolab Company

Attention: **Jared.Phillips@CHAMP-TECH.com**

Customer: **JP Oil**

Location Code: **161046**
Sample ID: **AD15706**
Login Batch: **12-15-14_LMM_ICPWET**
Collection Date: **12/11/2014**
Receive Date: **12/15/2014**
Report Date: **12/30/1899**

Region: **Rio Bravo Field**
Location: **KernCo Lease**
System: **Water Disposal System**
Equipment: **North KernCo Sump**
Lab ID: **ABU-1031**
Sample Point: **Sump**

Analyses	Result	Unit

Analyses	Result	Unit
Specfic Gravity	**1.013**	

Cations	Result	Unit
Iron	**1.913**	mg/L
Manganese	**0.583**	mg/L
Barium	**2.444**	mg/L
Strontium	**17.97**	mg/L
Calcium	**212.1**	mg/L
Magnesium	**55.22**	mg/L
Sodium	**7474**	mg/L

Anions	Result	Unit
CHLORIDE	**12417.2**	mg/L
SULFATE	**25.3**	mg/L

Scale Type	Result

Saturation Index Calculation (Tomson-Oddo Model)

Comments: "FOREIGN"
Silicon: 14.14 mg/L
Boron: 33.96 mg/L
Phosphorus: 1.756 mg/L
Potassium: 265.1 mg/L

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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

May 7, 2015

Cal Seneca
J P Oil Company
P O Box 52584
La Fayette, LA 70505

TEL: (337) 258-3003
FAX: (337) 234-9891

Project ID:
RE: 1505081

Dear Cal Seneca:

Zalco Laboratories, Inc. received 1 samples on 5/7/2015 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 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.

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ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

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

J P Oil Company P O Box 52584 La Fayette, LA 70505	Project: Master Project #: Attention: Cal Seneca	Work Order No.: **1505081** Reported: 05/07/2015 Received: 05/07/2015 12:00

Lab Sample ID: **1505081-01**	Collected By: Cal Seneca
Client Sample ID: Centrifuge Cake	Date Collected: 5/7/2015 12:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Reactivity								
Reactive Sulfide	1800	50	mg/kg		SW 7.3.4.2	5/7/15	5/7/15	SAM

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CHAIN OF CUSTODY, ID# 150581

Page _____ of _____

Zalco Lab # _____

Client PO # _____

PROJECT ID: _____

QUOTE ID:

REPORT INFO	INVOICE INFO
Client: JP Oil	Invoice To: Same as Client ❑
Address: [illegible]	Address:
City, State, Zip: [illegible]	City, State, Zip:
Attention: [illegible]	Attention:
Phone: Results ❑ [illegible]	Phone:
Fax: Results ❑	Fax:
Email: Results ❑	Email:

SAMPLED BY: **EMPLOYED BY:**

Sample No.*	Sample Description	Sample Date	Sample Time	Type*	# OF CONTAINERS	Vanadine Sulfide	Carbon Tetrachloride	Chlorinated Solvents							TEMPERATURE (C°)
1	Carriage Cove	5/7		S	1	X	X								2.8

ANALYSIS

COMMENTS:

Turnaround Time:
Routine _____ working days ❑

Rush By _____ working days

Send Copy to State of CA?
Yes ❑ No ❑

Attention To: _____

Send Copy to County?
Yes ❑ No ❑

County _____

RUSH!

ASAP!

Rush ASAP
-KS

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
[illegible]			5/7	1200	[illegible]	[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

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June 25, 2015

Cal Seneca
J P Oil Company
P O Box 52584
La Fayette, LA 70505

TEL: (337) 258-3003
FAX: (337) 234-9891

Project ID:
RE: 1506216

Dear Cal Seneca:

Zalco Laboratories, Inc. received 1 samples on 6/16/2015 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 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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J P Oil Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1506216**
P O Box 52584	Project #:	Reported: 06/25/2015
La Fayette, LA 70505	Attention: Cal Seneca	Received: 06/16/2015 11:45

Lab Sample ID: **1506216-01**	Collected By: Jeremiah Johnson
Client Sample ID: Produced Water From 3 Phase Seperator	Date Collected: 6/16/2015 10:10:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity									
Total Alkalinity	720	10		mg/L		SM 2320B	6/16/15	6/16/15	SAM
Bicarbonate (HCO3)	720	10		mg/L		SM 2320B	6/16/15	6/16/15	SAM
Carbonate (CO3)	<10	10		mg/L		SM 2320B	6/16/15	6/16/15	SAM
Hydroxide (OH)	<10	10		mg/L		SM 2320B	6/16/15	6/16/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<2.0	2.0	*500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Arsenic	<0.20	0.20	*500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Barium	<1.0	1.0	*10000*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Beryllium	<0.10	0.10	*75*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Cadmium	<0.10	0.10	*100*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Chromium	<0.50	0.50	*2500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Cobalt	<1.0	1.0	*8000*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Copper	<0.50	0.50	*2500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Lead	<0.50	0.50	*1000*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Mercury	<0.0020	0.0020	*20*	mg/L		SW846 7470A	6/17/15	6/17/15	SS
Molybdenum	<1.0	1.0	*3500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Nickel	<0.50	0.50	*2000*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Selenium	<0.50	0.50	*100*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Silver	<0.20	0.20	*500*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Thallium	<5.0	5.0	*700*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Vanadium	<1.0	1.0	*2400*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
Zinc	<0.50	0.50	*5000*	mg/L		SW846 6010B	6/17/15	6/18/15	SS
General Chemistry			*MCL Limits*						
Fluoride	<1.0	1.0	*2*	mg/L		EPA 300.0	6/17/15	6/17/15	MSS
Nitrate as NO3	<20.0	20.0	*45*	mg/L		EPA 300.0	6/17/15	6/17/15	MSS
Electrical Conductivity	48	0.010		mmhos/cm		SM 2510B	6/16/15	6/16/15	SAM
Bromide	67	1.0		mg/L		EPA 300.0	6/17/15	6/17/15	MSS
Chloride	17000	2000		mg/L		EPA 300.0	6/17/15	6/17/15	MSS
pH	7.30			pH Units		EPA 150.1	6/16/15	6/16/15	SAM
Sulfate as SO4	1200	500		mg/L		EPA 300.0	6/17/15	6/17/15	MSS
Total Dissolved Solids	30000	10		mg/L		SM 2540C	6/19/15	6/19/15	SAM
Hardness									

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FAX (661) 395-3069

J P Oil Company	Project: RWQCB Oilfield Ponds - 2Q2015	Work Order No.: **1506216**
P O Box 52584	Project #:	Reported: 06/25/2015
La Fayette, LA 70505	Attention: Cal Seneca	Received: 06/16/2015 11:45

Lab Sample ID: **1506216-01**	Collected By: Jeremiah Johnson
Client Sample ID: Produced Water From 3 Phase Seperator	Date Collected: 6/16/2015 10:10:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO3)	2000	2.0	mg/L		SM 2340B	6/18/15	6/18/15	SS
Metals								
Lithium	3.8	1.0	mg/L		EPA 200.7	6/18/15	6/22/15	SS
Metals - As Received								
Magnesium	86	0.50	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Potassium	180	5.0	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Sodium	10000	350	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Calcium	650	0.50	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Iron	<1.0	1.0	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Boron	47	1.0	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Barium	<1.0	1.0	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Copper	<0.50	0.50	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Silica (SiO2)	90	40	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Strontium	40	1.0	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Manganese	<0.30	0.30	mg/L		EPA 200.7	6/18/15	6/18/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	28.0	0.50	mg/L		SW846 8015B	6/19/15	6/19/15	BIG
Gasoline Range Hydrocarbons	23.0	1.25	mg/L		SW846 8015B	6/18/15	6/18/15	HLP
Motor Oil Range Hydrocarbons	37.8	1.50	mg/L		SW846 8015B	6/19/15	6/19/15	BIG

Surrogates	% Recovery	Recovery Limits	Flag		
a,a,a-Trifluorotoluene	98.2	69-125			6/18/15 9:44

Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Naphthalene	215	50.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Acenaphthylene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Acenaphthene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Fluorene	19.3	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Phenanthrene	21.8	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Anthracene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM

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P O Box 52584	Project #:	Reported: 06/25/2015
La Fayette, LA 70505	Attention: Cal Seneca	Received: 06/16/2015 11:45

Lab Sample ID: **1506216-01**	Collected By: Jeremiah Johnson
Client Sample ID: Produced Water From 3 Phase Seperator	Date Collected: 6/16/2015 10:10:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Fluoranthene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Pyrene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	6/17/15	6/24/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	60.0	0-95		6/24/15 9:39
2-Fluorobiphenyl	59.0	0-92		6/24/15 9:39
Terphenyl-dl4	51.7	0-100		6/24/15 9:39

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
m,p-Xylene	1500	25.0	ug/L		SW846 8260B	6/19/15	6/19/15	HLP
Benzene	6960	250	ug/L		SW846 8260B	6/19/15	6/19/15	HLP
Xylenes, total	2160		ug/L		SW846 8260B	6/19/15	6/19/15	HLP
Methyl tert-Butyl Ether	<25.0	25.0	ug/L		SW846 8260B	6/19/15	6/19/15	HLP
Ethylbenzene	264	25.0	ug/L		SW846 8260B	6/19/15	6/19/15	HLP
Toluene	4720	250	ug/L		SW846 8260B	6/19/15	6/19/15	HLP
o-Xylene	661	25.0	ug/L		SW846 8260B	6/19/15	6/19/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	89-165		6/19/15 14:52
Toluene-d8	87.9	65-124		6/19/15 14:52
4-Bromofluorobenzene	99.7	94-114		6/19/15 14:52

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2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125

CHAIN OF CUSTODY, ID#

Client PO:
Project ID:
Quote ID:

ANALYSIS REQUESTED 1506216

COMPANY: JP Oil
CONTACT: Cal Seneca
PHONE: 661-978-3771 FAX
ADDRESS: 30540 Imperial ST.
Shafter CA. 93263
E-MAIL:
SAMPLER (SIGNATURE):

COMMENTS
Turnaround Time:
Routine (# working days)
Rush By X Working Days
EDT
State Form
EMAIL

LAB #	SAMPLE DESCRIPTION	DATE	TIME	Attachment B	Number of Containers	Sample Matrix	Notes
1	Produced Water from 3 Phase Separator	6/16/2015	10:10	X		AQ	Rush
							Plaese see Attached
							RUSH!
							5day per Jan

Relinquished By	Company	Date	Time	Received By	Company
Jjohnson	Zalco Laboratories INC.	06/16/15	11:45		Zalco

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

Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater

ATTACHMENT B

Water Quality Analysis

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

A. Total dissolved solids;

B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);

C. Benzene, toluene, ethylbenzene, and xylenes;

D. Total petroleum hydrocarbons as crude oil;

E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);

F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;

G. Major and minor cations (including sodium, potassium, magnesium, and calcium);

H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);

I. Trace elements (including lithium, strontium, boron, iron, and manganese).

Reporting Requirements

Water Quality information shall be submitted in a technical report that includes at a minimum:

A. Site plan(s) with the location(s) of where the samples were collected;

B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.