

October 19, 2015

Mr. Zackary Laird WPX Energy, Inc. 210 Park Ave, Suite 700 Oklahoma City, OK 73102

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Dear Mr. Laird:

WPX Energy, Inc. (WPX) retained Enviro Clean Services, LLC (ECS) to collect soil samples at the Brushy Draw Fed 35-6H site located in Section 35, Township 25S, Range 29E, in Eddy County, New Mexico (approximately 32.092512°N, 103.953869°W), following a drilling mud and fracking fluids release. :][i fY % is a site map depicting the area of release and soil sample locations.

The New Mexico Oil Conservation Division's (OCD) Form C-141 was prepared by WPX for this site. This document indicates that in the early morning hours of September 17, 2015, well stimulation operations released 760 barrels (bbls) of drilling mud and fracking fluids, with 600 bbls recovered. The net loss is 160 bbls of drilling mud and fracking fluids.

On September 18, 2015, ECS field personnel collected soil samples from three locations within the impacted area, and three locations representing background locations. Sample depths were from the surface and at one foot below ground surface (bgs) within the impacted area. The samples were transported under chain-of-custody to Permian Basin Environmental Lab, LP in Midland, Texas, using industry standards for care and preservation. All samples were analyzed for Chlorides (EPA method 300.0) and Total Petroleum Hydrocarbons (TPH, EPA method 8015M).

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The affected property is leased from the Bureau of Land Management (BLM). The *Geologic Map of New Mexico* (NMBGMR, 2003) indicates the site's surface geology is comprised primarily of Qep – Quaternary eolian and piedmont deposits (Holocene to middle Pleistocene). This usually is interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. The unit is typically capped by thin eolian deposits. The Natural Resource Conservation Service identifies the local soils as *PA—Pajarito*

S:\ECS Midland\ER&R\PROJECTS\RKI Exploration\RKIRTX0005 N. Bushy Draw Fed 35-6H\RKI Brushy Draw 10-6-2015_estimate.docx

loamy fine sand, 0 to 3 percent slopes, eroded for most of the affected area originating at the source, while the far end enters soils of the *RE*—*Reagan-Upton association, 0 to 9 percent slopes*. Although the Reagan soil's name indicated a steepening of the slope, the description of the soil indicates a 0 to 3 percent slope, which is consistent with the area. These soils are mixed alluvium and/or eolian sands, typically with a profile of loamy fine sand at the surface, with well drained gravelly loam to a depth of five feet or more. These descriptions are consistent with site observations.

The OCD Recommended Remediation Action Levels (RRALs) are a ranking system used to evaluate regulatory requirements. RRALs are based on depth to water, wellhead protection area distance, and the distance to surface water bodies. The nearest water well is almost three miles away, with a depth to water reported at 162 feet bgs, and a static head of 60 feet bgs. State Land Office Point of Diversion reports are attached for review. The nearest surface water is about three miles southwest of the site.

Using the site specific data, the RRALs for the site are 10 parts per million (ppm, or mg/Kg) benzene, 50 ppm BTEX, and 5,000 ppm TPH. All of the surface sample locations exhibited elevated levels of chlorides when compared to this standard, with decreasing concentrations at one foot bgs. **HUV'Y'%**summarizes the analytical results, and the laboratory analytical report and chain of custody documentation are attached for your records.

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All values are in milligrams per kilogram (mg/Kg, ppm). Analyte detections are Vc`XYX.									
Values that exc	eed the Recor	mmended Ren	nediation Ac	tion Levels ar	e shaded				

HUV`Y`%Ë`5 bU`mhjWU`FYgi`hg`GiaaUfmi

*Chloride values are site specific; 1,000 is a regionally accepted target value.

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Additional subsurface chloride vertical delineation (soil samples) will be performed in all "fingers" of the spill area. Additional sample results will be evaluated and appropriate remediation efforts taken accordingly.

For vertical delineation ECS recommends field screening with laboratory confirmation that chlorides are below 1,000 ppm chloride, and approaching the 250 ppm New Mexico Water Quality

Control Commission (WQCC) standard. Soil samples will be field screened using an electrical conductivity meter and one-to-one soil-water solution, with laboratory chloride confirmation.

The flow path is narrow and long, approximate 3,000 feet in length. Screening samples will be selected at approximately 100 foot linear intervals, with laboratory samples selected at approximately 500 foot intervals. The results of both field screening and the laboratory analyses will be tabulated in a final report.

Low Surface Impact Remediation Work Plan

In order to reduce the amount of vegetation and area disturbed, ECS recommends tilling the impacted soil with hand tillers and treating with a MicroBind solution rather than excavating and disposing of the impacted soil. The treated area will then be seeded with a 50/50 mixture of BLM Seed Mix 3 and BLM Seed Mix 4. Confirmation samples will be collected from the remediated area approximately 180 days after treatment to determine that Chloride levels are below the OCD action level. Additional tilling and chemical applications will take place as necessary until chlorides are reduced below action levels.

ECS appreciates the opportunity to be of service to WPX. If you have any questions about the information presented in this report, please feel free to contact the undersigned.

Sincerely,

Enviro Clean Services, LLC

ame M. Collin II

James M. Collier III, EIT Field Services Manager 432.301.0176 james.collier@eccgrp.com

Mom J. Willi

Tom Weber, P.E. Texas Regional Manager 432.301.0209 tom.weber@eccgrp.com

Attachments: Figure 1: Area of Release and Soil Sample Locations Initial C-141 State Land Office Point of Diversion Reports Laboratory Analytical Report and Chain of Custody Documentation Photographic Documentation





Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report [Final Report Addross 210 Park Ave Ste. 700, OKC, OK 73 102 Telephone No. 405-987-2213	1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505)	Sa	inta Fe	e, NM 875	05					
OPERATOR Initial Report Final Report Name of Company RKI E&P, LLC Contact Zack Laird Address 210 Park Ave. – Ste. 700, OKC, OKC 73102 Telephone No. 405-987-2213 Facility Name: North Brushy Draw Fed 35-6H Facility Type : Oil and Gas Well Surface Owner: Federal API No. 30-015-42293 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the Feet from the East/West Line County A 35 25S 29E 175 FNL 2290 FEL Eddy Volume Recovered: 600 Bbis Source of Release: Drilling Mud/Frac Fluid Volume Recovered: 600 Bbis Source of Release 5.9" x 9.675" annulus Date and Hour of Occurrence Date and Hour of Occurrence Source of Release 5.9" x 9.675" annulus Date and Hour of Pictorence Date and Hour of Occurrence Date and Hour of Occurrence By Whom? Zack Laird Wes Immediate Notice Given? If YES, Volume Impacting the Watercourse. N/A Was a Watercourse Reached? Yes is No Not Required N/A N/A <t< td=""><td></td><td></td><td></td><td>Rele</td><td>ease Notific</td><td>cation</td><td>and Co</td><td>rrective A</td><td>ction</td><td></td><td></td><td></td><td></td></t<>				Rele	ease Notific	cation	and Co	rrective A	ction				
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Printed Name Zack Laird	I bereby certi	fy that the i	nformation a	iven abov	e is true and comr	lete to ti	he best of my	knowledge and u	nderstand th	at nure	night to NM		lec and
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Signature: Approved by Environmental Specialist: Printed Name. Zack Laird Approved by Environmental Specialist:							OIL CONSERVATION DIVISION						
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Title: Sr. EHS Manager Approval Date: Expiration Date:	Title: Sr. EH	IS Manager					Approval Da	te:	Expi	ration	Date:		
E-mail Address: Zlaird@rkixp.com Conditions of Approval:	E-mail Addre	ess: Zlaird@	@rkixp.com				Conditions of Approval: Attached						
Date: 09/17/15 Phone: 405-987-2213	Date: 09/17	/15	D	hone [,] 405	-987-2213							-	
⁴ Attach Additional Sheets If Necessary	Attach Addi	tional Shee	ets If Necess	sary		Į				,			