



DEC 12 2008

Project 4432
Doc #1942700

Environmental Technologies, Inc.

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Mr. Rick Eggleston
Petro-Canada Resources (USA), Inc.
999 18th Street, Suite 600
Denver, Colorado 80202

**SPILL CLEANUP REPORT
PETRO-CANADA RESOURCES (USA) QUICK #21-13 SITE
TOWNSHIP 5 NORTH, RANGE 65 WEST, SECTION 21
WELD COUNTY, COLORADO**

Western Project #08127

December 10, 2008

Dear Mr. Eggleston:

Western Environmental Technologies, Inc. (Western) managed and documented the cleanup of an accidental petroleum release at the subject site. The site area includes a producing oil and gas well, gathering lines, separator equipment and a tank battery. The site is located approximately 0.6 miles east of the City of Greeley, Colorado. A release of produced water occurred as the result of corrosion of a produced water line.

The suspected leak was first noticed in the tank battery area by Petro-Canada Resources (USA), Inc. (PCR) field personnel on November 13, 2008. The nearby well was immediately shut in. Flow lines were plugged. Separator equipment and a water tank were removed to assess the property to determine if a leak had occurred. A release of produced water was discovered while excavating in the suspected leak location.

SITE ASSESSMENTS AND CLEANUP

Western is under contract to provide environmental cleanup and technical support services to PCR. Western mobilized equipment and personnel to the site on November 14 7, 2008 to manage and document cleanup operations. Petroleum contaminated soil was excavated from the spill area using heavy equipment and was stockpiled on top of sheet plastic. A fence was immediately erected around the cleanup area.

The petroleum contaminated soil was excavated and loaded for transport by C&M Enterprises, Inc. All petroleum soil removed during the cleanup of the site was transported to the PCR Land Farm facility for remediation and recycling. Tandem trucks to haul the contaminated soil to the PCR Land Farm were provided by J&F Services of Fort Lupton, Colorado.

An oily sheen was observed on top of ground water within the soil removal excavation. The ground water and oil sheen were removed by vacuum trucks operated by Ensign Well Services. Ground water pumped from the cleanup area was properly disposed off-site at a permitted PCR

injection well site, located north of the site.

Soil removals began on November 14, 2008 and were completed on November 19, 2008. The final size of the soil cleanup excavation was measured to be 70x75x4 feet. A total of 777 cubic yards of petroleum soil was removed and disposed off site.

CLEANUP AREA SOIL SAMPLING AND TESTING

Western personnel obtained excavation closure samples at the conclusion of the site cleanup. Sampling was performed on November 24, 2008. A soil sample was obtained from each side of the cleanup area and submitted for laboratory testing. Locations of soil sampling points are presented on an attached map. All site samples were obtained using laboratory chain-of-custody documentation.

Each soil sample was analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH). US EPA preparation and analytical Method #418.1 was used for the TRPH analyses. A summary table of soil test results is attached. All soil samples were tested within recommended laboratory holding time limits. Laboratory test and QA/QC data is also attached.

GROUND WATER SAMPLING AND TESTING

A sample of ground water was obtained after soil removals from the cleanup excavation. Samples of ground water were also obtained from seven temporary piezometer monitoring wells installed during environmental assessments while the site cleanup was underway. Each ground water sample was obtained using new pencil well bailers. Technology Laboratory analyzed all site ground water samples using EPA Method #8260B. All water samples were tested within allowable holding times. Results are presented in an attached table.

CLEANUP PROJECT RESULTS

An accidental spill of produced water was discovered at the subject location. PCR personnel immediately responded to prevent further spills and to remediate the site. A total of 777 cubic yards of petroleum contaminated soil was quickly removed from the source area. The site has been restored using clean imported soil. New flow lines have been installed and the tank battery system upgraded and repaired.

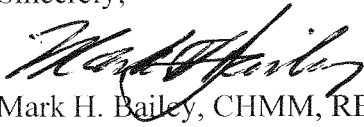
Laboratory testing documents that soil quality goals of the COGCC have been achieved, as a result of removing contaminated soil from the site. Soil quality has been remediated to that of a Sensitive Area site. Ground water within the cleanup excavation and obtained from small piezometer monitoring wells indicates that ground water has been impacted at this location.

PCR will soon be installing and testing new 2" permanent ground water monitoring wells. The results of the testing from the new wells will be included in a separate report. Reference elevations for the new wells will be surveyed and ground water flow directions determined. Ground water contour maps will be presented in the separate ground water assessment report.

PCR will continue to perform testing of this site. Quarterly ground water sampling will be performed and reported to the COGCC, as requested. The site will be closed after four quarters of testing within ground water quality limits. No further remedial actions are planned.

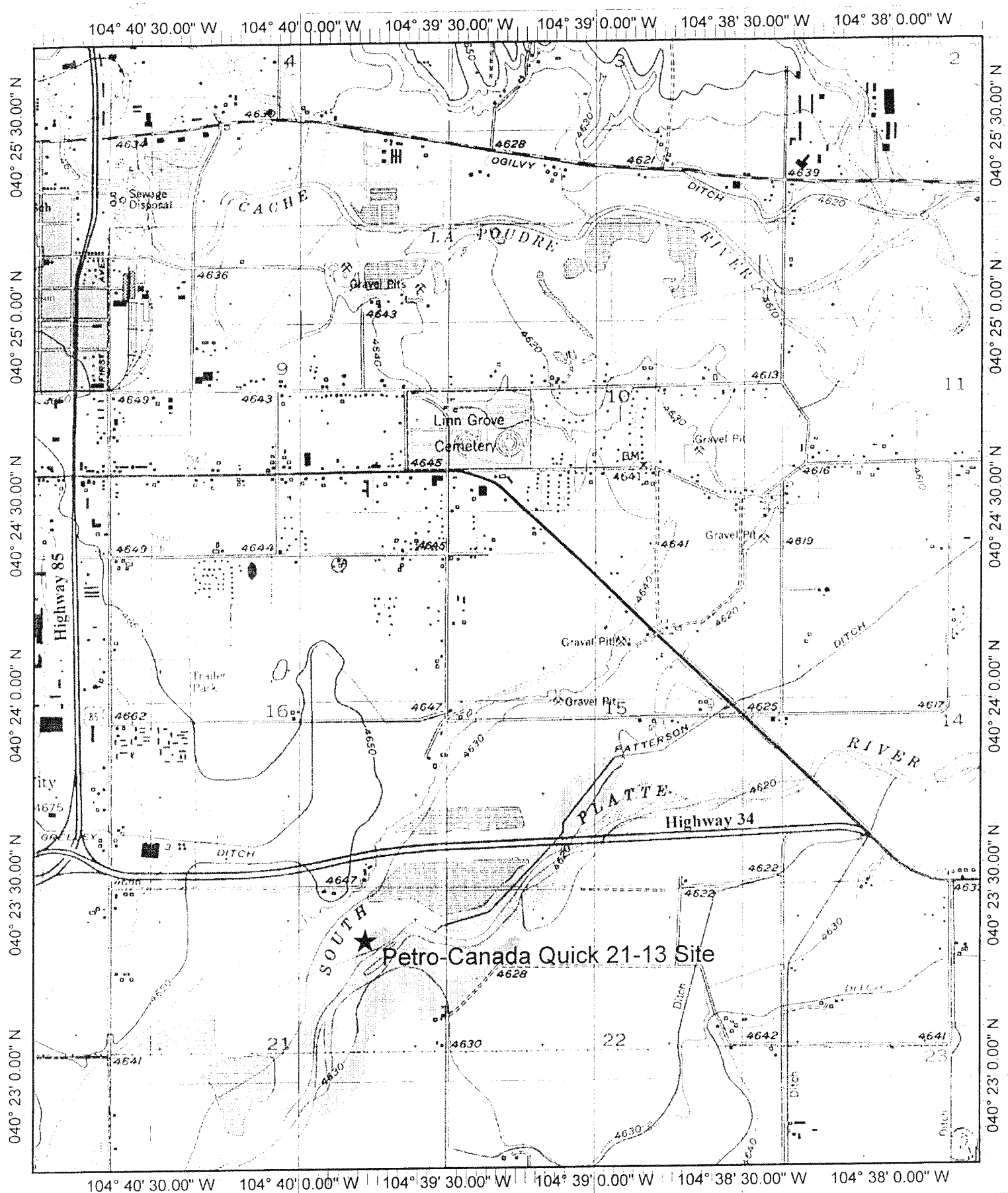
Please contact us with any questions which you may have.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark H. Bailey", is written over the typed name.

Mark H. Bailey, CHMM, REP, PG - Senior Environmental Scientist
Western Environmental Technologies, Inc,

Attachments: Site Location And Area Topographic Map	(1 page)
Sample Location and Site Features Map	(1 page)
Piezometer Well Locations and Site Features Map	(1 page)
Analytical Results Summary Tables One & Two	(1 page)
Technology Labs Data Reports	(6 pages)



<Default> - 1 Markers, Length = 0 feet

Petro-Canada Quick 21-13 Site - 040° 23' 21.3" N, 104° 39' 46.3" W

SITE LOCATION AND AREA TOPOGRAPHIC MAP
PETRO-CANADA RESOURCES - QUICK #21-13 SITE
T5N - R65W-SECTION 21, WELD COUNTY, COLORADO
Western Project #08127

Map Scale 1"=2,000 feet

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SAMPLE LOCATION
AND SITE FEATURES MAP
Petro Canada Resources (USA), Inc.
Quick 21-13 Site
T5N, R65W, Sec 21
Weld County, Colorado

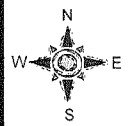
Project No.
08127

Prepared By
CCC

WESTERN
Environmental Technology, Inc.

Date
11/29/08

Reviewed By
MHB



Map Scale
1" = 50 ft.

819n/location/petroquick2.cdr

Farm Fields

Pond

Quick 21-13
Well Head



Meter
House



Wooded
Area

REW-3'

Pipe
Leak



Soil Removal
Excavation

REW-4'

REGW

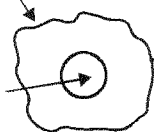
REE-4'

RES-3'

Wooded
Area

Earthen Berm

Oil Tank



Access Road (Gravel)

Wooded
Area

South Platte River



PIEZOMETER WELL LOCATIONS
AND SITE FEATURES MAP

Petro Canada Resources (USA), Inc.
Quick 21-13 Site
T5N, R65W, Sec 21
Weld County, Colorado

Project No.
08127

Prepared By
CCC

WESTERN
Environmental Technology, Inc.

Date
11/24/08

Reviewed By
MHB



Map Scale
1" = 50 ft.

819n/location/petroquick1.cdr

Farm Fields

Pond

Quick 21-13
Well Head



Soil Removal
Excavation

Pipe
Leak

Meter
House

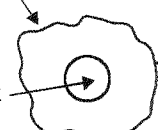


Wooded
Area

Earthen Berm

Wooded
Area

Oil Tank



MW5

MW7

MW4

MW6

MW1

MW2

Access Road (Gravel)

MW3

Wooded
Area

South Platte River



TABLE ONE - DECEMBER, 2008
CLEANUP EXCAVATION SOIL TEST RESULTS SUMMARY TABLE
PETRO-CANADA RESOURCES (USA) QUICK 21-13 SITE, T5N-R65W-SEC 21
WELD COUNTY, COLORADO

Sample Number	Sample Date	Location of Sample	TRPH in mg/Kg
RES-3'	11/24/08	Soil from south side of excavation	20.4
REE-4'	11/24/08	Soil from east side of cleanup excavation	ND*
REW-3'	11/24/08	Soil from bottom of excavation on west side	ND
REN-4'	11/24/08	Soil from north side of cleanup excavation	ND

TABLE TWO - DECEMBER, 2008
EXCAVATION AND TEMPORARY MONITOR WELL GROUND WATER TEST RESULTS TABLE
PETRO-CANADA RESOURCES (USA) QUICK 21-13 SITE, T5N-R65W-SEC 21
WELD COUNTY, COLORADO

Sample Number	Sample Date	Benzene in $\mu\text{g/Kg}$	Toluene in $\mu\text{g/Kg}$	Ethylbenzene in $\mu\text{g/Kg}$	Xylenes in $\mu\text{g/Kg}$
REGW	11/24/08	31	209	ND	2,290
MW1-GW	11/18/08	ND*	ND	ND	ND
MW2-GW	11/18/08	ND	ND	ND	ND
MW3-GW	11/18/08	ND	ND	ND	ND
MW4-GW	11/18/08	2	ND	ND	ND
MW5-GW	11/18/08	ND	ND	ND	ND
MW6-GW	11/18/08	16	ND	ND	ND
MW7-GW	11/18/08	ND	ND	ND	ND

ND* = Compound analyzed for in soil sample, but not detected.