PARAGON
CONSULTING GROUP

"Service, Quality, and Innovation"

Remediation # 3858

1103 Oak Park Drive, Suite 110
Fort Collins, CO 80525
Phone (970) 377-1600
Fax (970) 377-1880
www.paragoncg.com

David M. Rau, P.E., BCEE
Scott A. Rutherford, P.E.
Brick Smith, P.E.
Brad C. Wohler
Amy D. Weber, P.E.
Heather S. Alderman
David L. Walker

SENT VIA EMAIL (robert.chesson@state.co.us)

March 31, 2010

Mr. Robert Chesson
Colorado Oil & Gas Conservation Commission, Department of Natural Resources
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

RE: February 2010 Quarterly Monitoring Report
Berger Tank Battery (API Number 05-123-08554)
County Road 11 and County Road 20
Frederick, Weld County, Colorado
Project Number 1007004

Dear Mr. Chesson:

Enclosed is the February 2010 Quarterly Monitoring Report for the above-referenced site. Please read the attached report for a summary of the sampling activities performed at the site. If you have any questions or require additional information, please contact us.

Sincerely,
PARAGON CONSULTING GROUP, INC.

Amy Weber, P.E.
Project Engineer

David M. Rau, P.E., BCEE
Principal Engineer

ADW/DMR:adw1

enc: February 2010 Quarterly Monitoring Report

cc: Mr. Andy Peterson/Peterson Energy Management (via email)
Mr. Neil Rehkop/SBC Global (via email)
Machii-Ross Petroleum Company

PARAGON
CONSULTING GROUP

"SERVICE, QUALITY, AND INNOVATION"

1103 Oak Park Drive, Suite 110
Fort Collins, CO 80525
Phone (970) 377-1600
Fax (970) 377-1880
www.paragoncg.com

DAVID M. RAU, P.E., BCEE
SCOTT A. RUTHERFORD, P.E.
BRICK SMITH, P.E.
BRAD C. WOHLER
AMY D. WEBER, P.E.
HEATHER S. ALDERMAN
DAVID L. WALKER

March 23, 2010

Machii-Ross Petroleum Company
2901 28th Street, Suite 205
Santa Monica, California 90405

RE: Remediation Activities and Quarterly Groundwater Sampling
Segal Tank Battery
NW ¼ of Section 24, T4N, R66W
Weld County, Colorado
Project Number 1006006

Dear Machii-Ross Petroleum Company:

The purpose of this letter is to present several options for remedial activities for the above-referenced project. The above-referenced site is the location of Machii-Ross Segal Tank Battery site. A. G. Wassenaar, Inc. (AGW) performed site assessment activities at the site in December 2005 which included the drilling and sampling of six (6) monitoring wells. Paragon performed additional assessment activities at the site in 2007, 2008 and 2009.

Soil excavation activities were performed near the water vault and near the aboveground storage tanks (ASTs) in March 2009 and were summarized in the May 4, 2009 Soil Abatement Report. Approximately 684 loose cubic yards of contaminated soil were excavated and transported to Buffalo Ridge Landfill for disposal. The soil was transported by Bellio Trucking to Waste Management's Buffalo Ridge Landfill in Keenesburg, Colorado. Approximately 120 barrels (5,040 gallons) of groundwater were removed from the water-vault excavation and disposed of at a Colorado Oil and Gas Conservation Commission (COGCC)-approved disposal well operated by Conquest Disposal Service. Monitoring well TB-6 was destroyed during excavation activities. The total recoverable petroleum hydrocarbons (TRPH) concentration observed in soil sample AST Lead Pipe collected from the excavation at the outlet of the pipe from the ASTs exceeded the

the Allowable Concentration for total recoverable petroleum hydrocarbons (TRPH). The soil in this area was removed during the initial abatement activities. Groundwater samples were collected by ENVIRON from probes SB-3 through SB-6 for BTEX analyses. BTEX concentrations observed in the groundwater samples collected from SB-3 and SB-5 exceeded the Allowable Concentrations. It should be noted that probe water samples are generally considered qualitative since they were not collected from completed and developed groundwater monitoring wells.

Laboratory results for split groundwater samples BTB-SB-3 and BTB-4 collected during ENVIRON site assessment activities on January 9, 2007 are summarized in Table 2 attached to this letter. BTB-SB-3 and BTB-4 were collected from ENVIRON's probes SB-3 and SB-4, respectively, on January 9, 2007. BTEX concentrations were observed at relatively low concentrations in groundwater sample BTB-4 collected from SB-4 on January 9, 2007. Relatively high BTEX concentrations were observed in the groundwater sample collected by Paragon from probe SB-3 on January 9, 2007. BTEX concentrations observed in BTB-4 collected by Paragon from SB-4 in January 2007 were not observed above the Allowable Concentrations. The BTEX concentrations observed in the groundwater sample collected by Paragon from probe SB-3 exceeded the Allowable Concentrations. It should be noted that probe water samples are generally considered qualitative since they were not collected from completed and developed groundwater monitoring wells.

1.2 Abatement Activities

During a routine site inspection on January 7, 2007, Machii-Ross Petroleum Company personnel observed crude oil (product) in the bermed area for the southern aboveground storage tank (AST). The leak from the AST was repaired on January 7, 2007. It was estimated by Machii-Ross Petroleum Company personnel that approximately 70 barrels (bbls) of oil were released. Key Energy was mobilized to the site to recover the product on January 8, 2007 using a vacuum truck. Excavation activities were also initiated on January 8, 2007. Soil abatement activities consisting of the excavation and off-site disposal of contaminated soil was performed at the site by Flint Energy Services, Inc. (Flint) between January 8, 2007 and January 16, 2007. The approximate limits of the excavation are shown on Figure 3 attached to this letter.

A subsurface drain located to the west of the tank battery was impacted and subsequently excavated. The drain was replaced and the former drain was connected to riser to be used as groundwater recovery points if necessary. In the excavation trench performed during removal of the subsurface drain, four (4) separate slotted horizontal drain lines were installed with risers extending approximately three (3) feet above ground surface. These remedial drains were constructed with two (2) and three (3) inch diameter PVC pipe. The trenches were excavated below observed hydrocarbon impact into what appeared to be a relatively

impermeable, hard and dry siltstone. During the trench excavation, oil/groundwater was removed by a vacuum truck directly from the excavation and from the risers once installed.

On January 11, 2007 following interviews with the property owners, it was discovered that the subsurface drain was connected to an unnamed creek located to the west of the site. Product was then observed on the creek and the release was reported to the National Response Center, the COGCC and the Colorado Department of Public Health and Environment on January 11, 2007.

Paragon and Peterson Energy Management personnel installed booms at the outlet of the subsurface drain to the creek and at several other locations downstream. The booms were maintained and periodically replaced by Peterson Energy Management. Periodically, vacuum trucks were used to remove product from the creek and from vegetation near the creek. On January 12, 2007, the subsurface drain was flushed with approximately 500 gallons of BioSolve and the mixture was recovered from the downstream end of the pipe.

Approximately 100 cubic yards of contaminated soil were excavated from the subsurface drain area. The soil was transported by Flint to the Denver Regional Landfill in Erie, Colorado. Groundwater encountered in the bottom of the excavation during the abatement activities was removed using a vacuum truck. Approximately 10 bbls of oil were recovered during abatement activities. The excavation was backfilled with imported soil.

Seven (7) soil samples, T-1 through T-7, and 12 surface water samples were collected during the abatement process. The TRPH concentration observed in soil sample T-1 exceeded the Allowable Concentration. The excavation area could not be increased to the east of sample location T-1 due to the location of the ASTs. The TRPH concentrations observed in the remaining soil samples collected from the excavation were not observed above the Allowable Concentration. Six (6) Creek Samples were collected from an area of the creek located to the north of County Road 20. Three (3) Tile Drain samples were collected approximately 60 feet upgradient of where the subsurface drain flowed into the creek. Three (3) Drain Outlet samples were collected from the subsurface drain outfall into the creek. BTEX concentrations observed in the surface water samples collected near the site in January and February 2007 were not observed above the Surface Water Standards.

1.3 Paragon Site Assessment Activities

Based on the soil and water contamination observed during excavation activities, additional site assessment was performed at the site in February 2007. Four (4) monitoring wells, PMW-1 through PMW-4, and three (3) direct-push probes, PB-1 through PB-3, were installed at the site on February 12 and 14, 2007 to obtain information regarding potential petroleum hydrocarbon contamination. The approximate locations of the monitoring wells

and direct-push probes are shown on Figure 3 attached to this letter. The TRPH concentration observed in the soil sample analyzed from PB-2 exceeded the Allowable Concentration. The TRPH concentrations in soil samples analyzed from PMW-1, PMW-2, PMW-3, PMW-4, PB-1 and PB-3 were not observed above the Allowable Concentration of 1,000 mg/Kg.

2. GEOHYDROLOGY

Groundwater elevations in wells PMW-1, PMW-2, PMW-3 and PMW-4 were measured by Paragon on February 5, 2010. Groundwater elevation data for the site is summarized in Table 1 which is attached to this report. Groundwater was observed in wells PMW-1, PMW-2, PMW-3 and PMW-4 to range from approximately 6.4 to 7.7 feet below the top of casings on February 5, 2010. Free-phase product was not observed in monitoring wells PMW-1 through PMW-4 on February 5, 2010.

A piezometric surface diagram for groundwater elevations observed during the February 2010 sampling event is attached to this report as Figure 3. The piezometric surface was estimated using the Surfer® software distributed by Golden Software based on groundwater table measurements in wells PMW-1, PMW-2, PMW-3 and PMW-4. As seen from Figure 3, the general groundwater flow direction appeared to be towards the northwest. The hydraulic gradient observed at the site on February 5, 2010 was estimated to range from approximately 0.02 to 0.03. The groundwater flow direction and hydraulic gradient estimated for February 2010 are similar to previous observations at the site. It should be noted that local geohydrologic characteristics may change due to variations in precipitation, recharge, stratigraphy or conditions not apparent at the time of sampling.

3. GROUNDWATER QUALITY RESULTS

Information collected during the February 2010 sampling event relative to groundwater quality at the site is summarized below. That information includes temperature, electrical conductance and pH measurements, dissolved oxygen (DO) measurements, and laboratory results.

3.1 Field Data

Groundwater temperature, electrical conductance and pH measurements were performed on February 5, 2010 during purging of wells PMW-1 through PMW-4 prior to collecting groundwater samples for laboratory analysis. Purging of monitoring wells prior to sampling was accomplished using clean disposable bailers. Measurements were recorded during the removal of water from the wells. The wells were considered purged when temperature, electrical conductance, and pH measurements stabilized to within ten (10) percent for three

(3) consecutive measurements and a minimum of three (3) well volumes were removed from the well or after the well was purged essentially dry. The wells were allowed to recharge prior to sampling.

DO measurements were performed in wells PMW-1 through PMW-4 on February 5, 2010. DO monitoring results are summarized in Table 2 attached to this report. As seen from Table 2, DO concentrations were observed to range from approximately 0.9 to 1.3 milligrams per liter (mg/L) during the February 2010 sampling episode. In general, an obvious correlation was not observed between BTEX concentrations observed in groundwater samples and DO measurements in February 2010.

3.2 Groundwater Analytical Results

Groundwater samples were collected from monitoring wells PMW-1 through PMW-4 on February 5, 2010 for laboratory analysis. Groundwater samples were transported under standard chain-of-custody procedures to Technology Laboratory, Inc. (TLI) in Fort Collins, Colorado for BTEX analysis by EPA Method 8260B. Groundwater sample results are summarized in Table 2 attached to this letter. The approximate locations of PMW-1 through PMW-4 and T-1 through T-5 are shown on Figure 4 attached to this letter. Recovery trench wells T-1 through T-5 were scheduled to be sampled every other event. The recovery trench wells were not sampled in February 2010 per that schedule. The TLI laboratory report for wells PMW-1 through PMW-4 is also attached to this letter.

BTEX concentrations were not observed above the laboratory detection limit of 1.0 micrograms per liter (µg/L) in the groundwater samples collected from PMW-1 through PMW-4 on February 5, 2010. In general, the BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 in February 2010 were similar to previous sample results.

BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 on February 2010 were not observed above the Concentration Levels.

4. VACUUM-ENHANCED RECOVERY EVENTS

A vacuum-enhanced recovery (VER) event using a Key Energy vacuum truck was performed at the recovery trenches, T-1 through T-5, on November 24, 2009. Even though T-1 riser pipe is damaged, Key Energy was still able to recover from this riser pipe location. As seen from Table 3, approximately 268,800 gallons of groundwater have been recovered from recovery wells T-1 through T-5 between March 2007 and November 2009. The recovered groundwater was transported to a COGCC-approved disposal well operated by Conquest Disposal Service. The Key Energy work ticket is attached to this report.

5. CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are made based on information obtained during the quarterly sampling event.

1. Groundwater was observed in wells PMW-1, PMW-2, PMW-3 and PMW-4 to range from approximately 6.4 to 7.7 feet below the top of casings on February 5, 2010. Free-phase product was not observed in monitoring wells PMW-1 through PMW-4 on February 5, 2010.
2. The general groundwater flow direction on February 5, 2010 appeared to be towards the northwest. The hydraulic gradient observed at the site on February 5, 2010 was estimated to range from approximately 0.02 to 0.03. The groundwater flow direction and hydraulic gradient estimated for February 5, 2010 are similar to previous observations at the site.
3. In general, the BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 in February 2010 were similar to previous sample results.
4. BTEX concentrations observed in the groundwater samples collected from PMW-1 through PMW-4 on February 5, 2010 were not observed above the Concentration Levels.
5. The extent of groundwater impacts at the site appears to be limited and bracketed.
6. Approximately 268,800 gallons of groundwater have been recovered from recovery wells T-1 through T-5 between March 2007 and November 2009. The recovered groundwater was transported to a COGCC-approved disposal well operated by Conquest Disposal Service.

The following recommendations are made based on information obtained during the quarterly sampling event.

1. The groundwater monitoring wells and recovery trench locations should be sampled on a quarterly basis. Enhanced-fluid recovery events should be performed at the recovery trench locations the day prior to the sampling events. The results of future sampling events should be used to evaluate the need for additional actions at the site.

6. GENERAL COMMENTS

The analyses and opinions expressed in this report are based on data obtained from the indicated locations along with other information described in the report. The report does not

reflect any variations in subsurface geohydrology or contaminant distribution which may occur between sample locations and or across the site. Actual subsurface conditions may vary and may not become evident without further exploration. Due to the dynamic nature of groundwater flow and contaminant migration, subsurface conditions will vary with time.

This report was prepared for the exclusive use of Machii-Ross Petroleum Company for specific application to the subject property and has been prepared in accordance with generally accepted geo-environmental engineering practices. No warranties, either express or implied, are intended or made. In the event that changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed and the opinions of this report are modified and verified in writing by Paragon.

If you have questions or require additional information regarding this site, please do not hesitate to contact us.

Sincerely,
PARAGON CONSULTING GROUP, INC.

3/31/10

Amy D. Weber, P.E.
Colorado No. 37665

David M. Rau, P.E., BCEE
Principal Engineer

ADW/DMR:adw1

enc: Figure 1 - General Location Diagram
Figure 2 - Vicinity Map
Figure 3 - Piezometric Surface Diagram
Figure 4 - Groundwater Sample Results Diagram
Table 1 - Summary of Groundwater Elevation Data
Table 2 - Summary of Water Quality Results
Table 3 - Groundwater Recovery
Laboratory Report
Key Energy Work Ticket

cc: Mr. Neil Rehkop/SBC Global (via email)
Mr. Robert Chesson/COGCC (via email)
Mr. Andy Peterson/Peterson Energy Management (via email)

(FTC)N:\2007\PROJECTS\1007004\REPORTS\1007004FEB10QMR100331.RPT.DOC

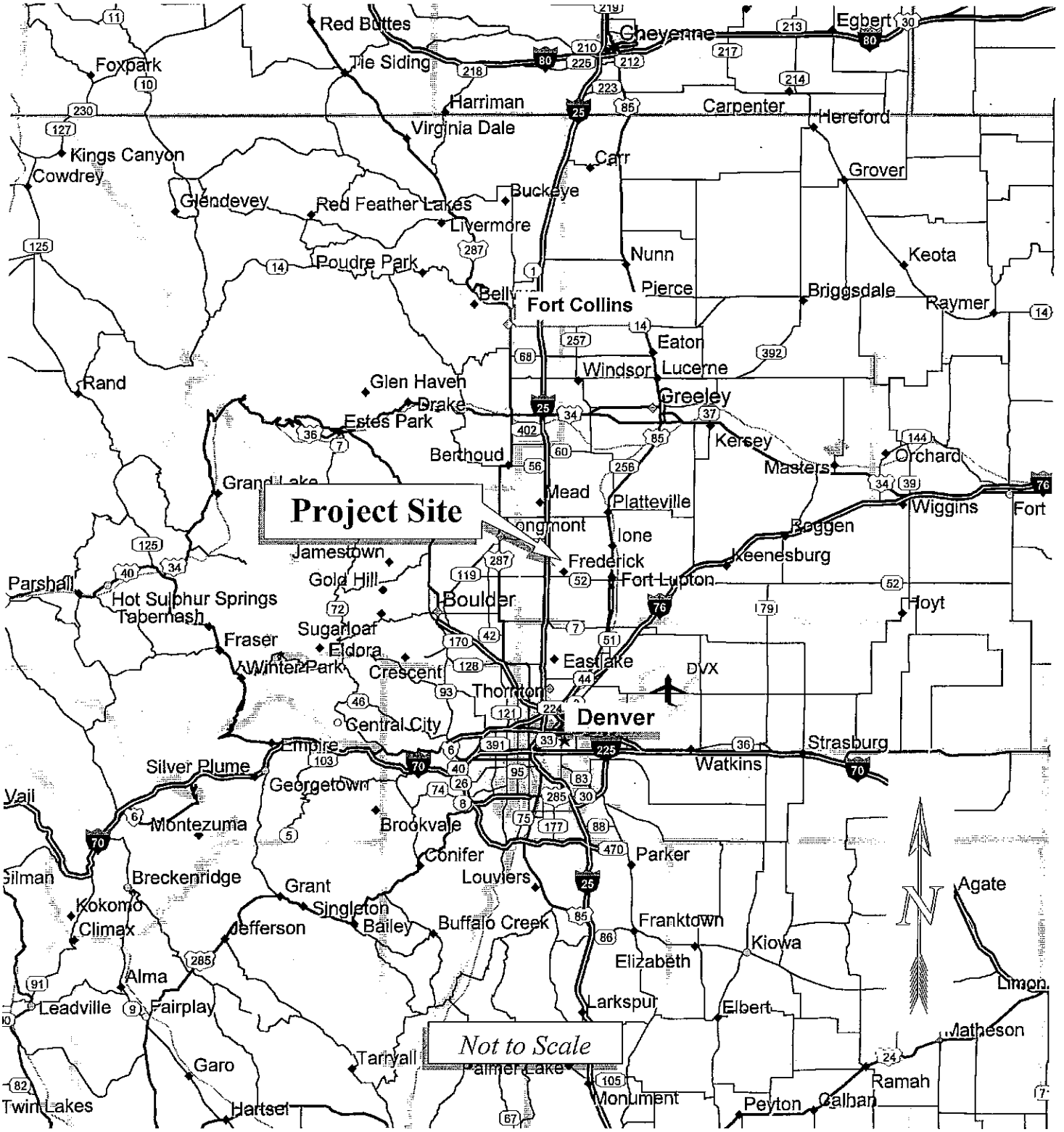


Figure 1 General Location Map
Machii-Ross Petroleum
Weld County Road 11, Weld County, Colorado
Project No. 1007001-1007004 March 2007 Drawn by PJH(04fig1)

PARAGON

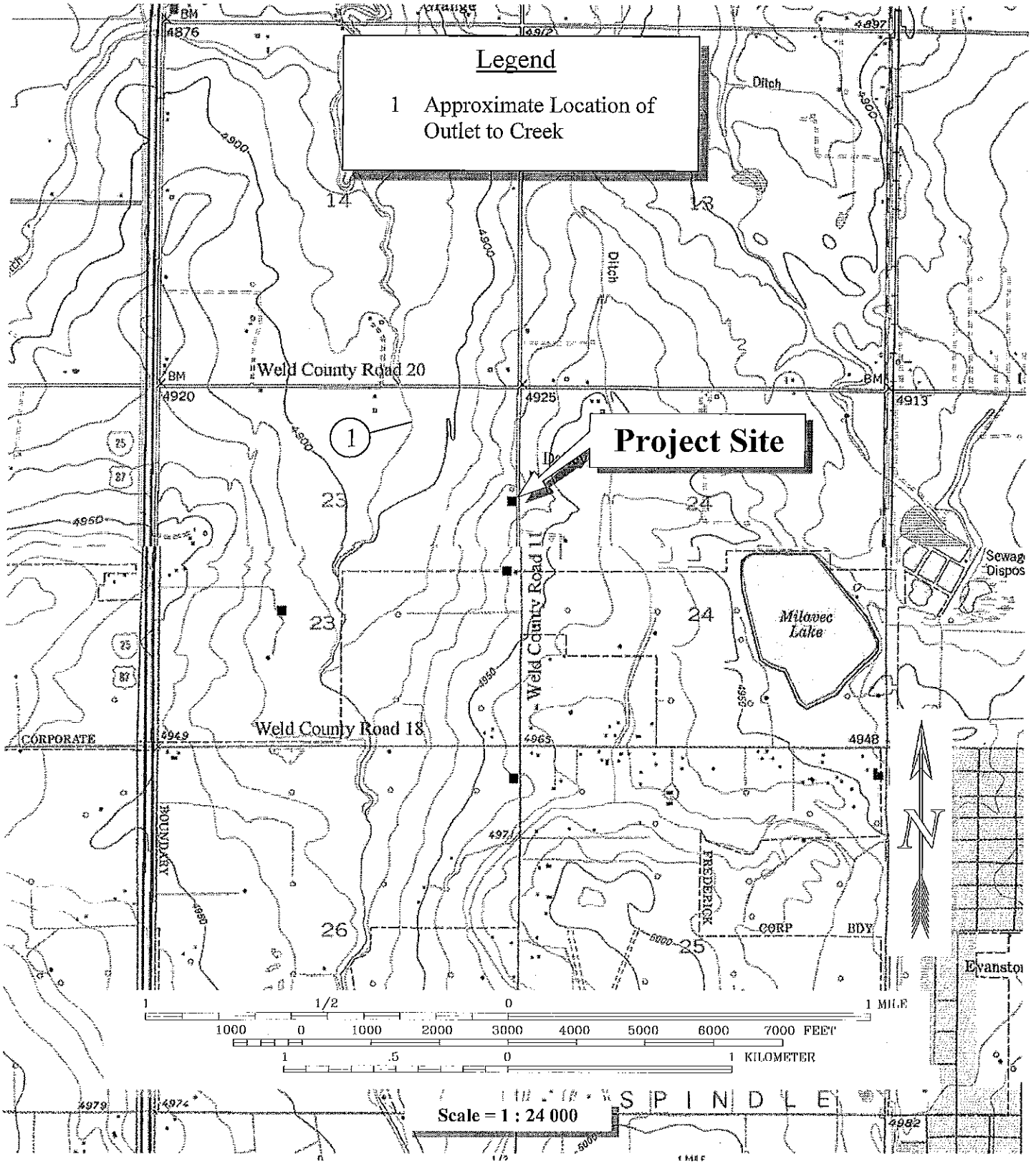
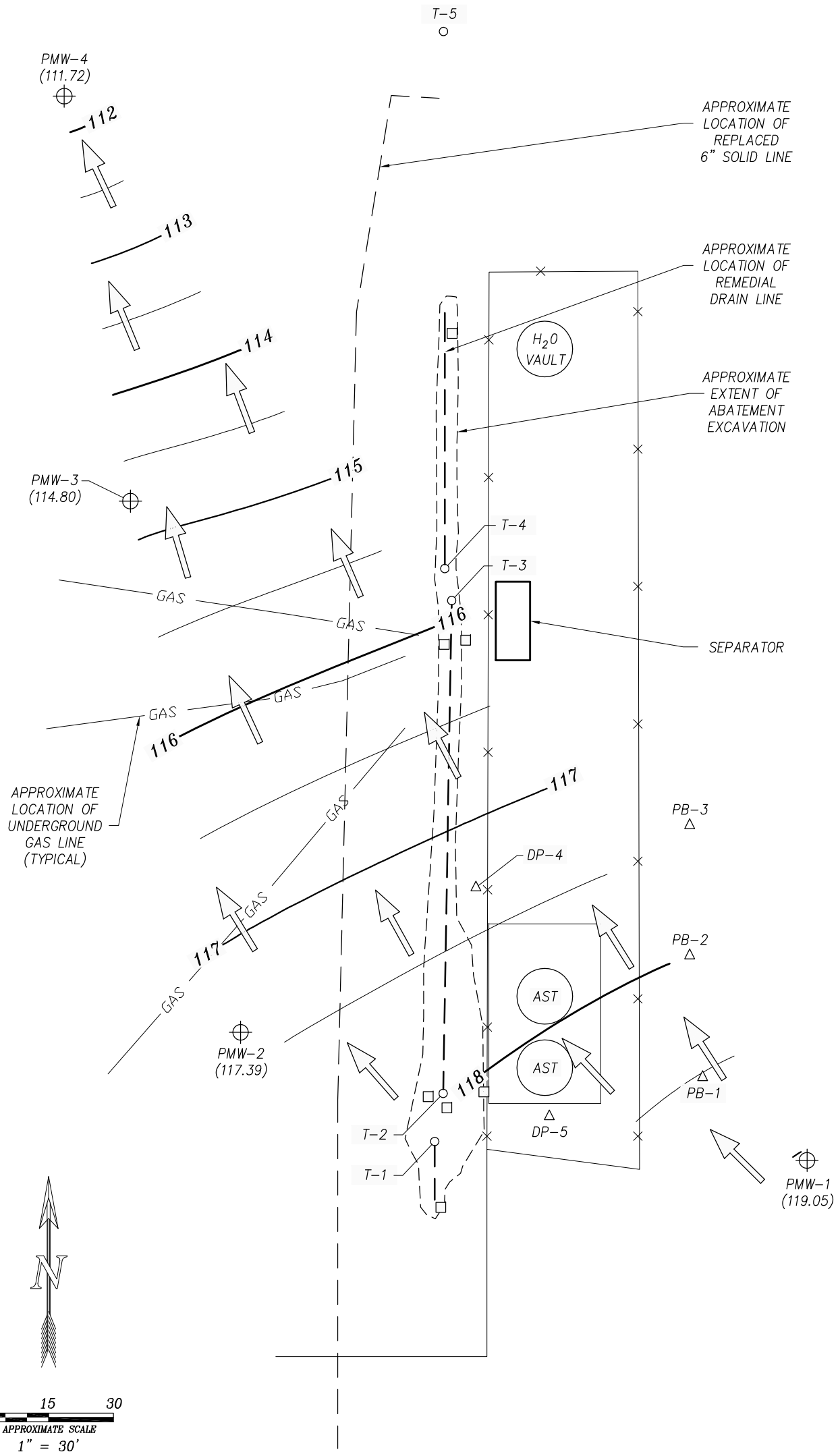


Figure 2 Vicinity Map
Machii-Ross Petroleum – Berger Tank Battery
Weld County Road 11 and Weld County Road 20, Weld County, Colorado
Project No. 1007004 June 2007 Drawn by PJH(04fig2a)

PARAGON



County Road 11

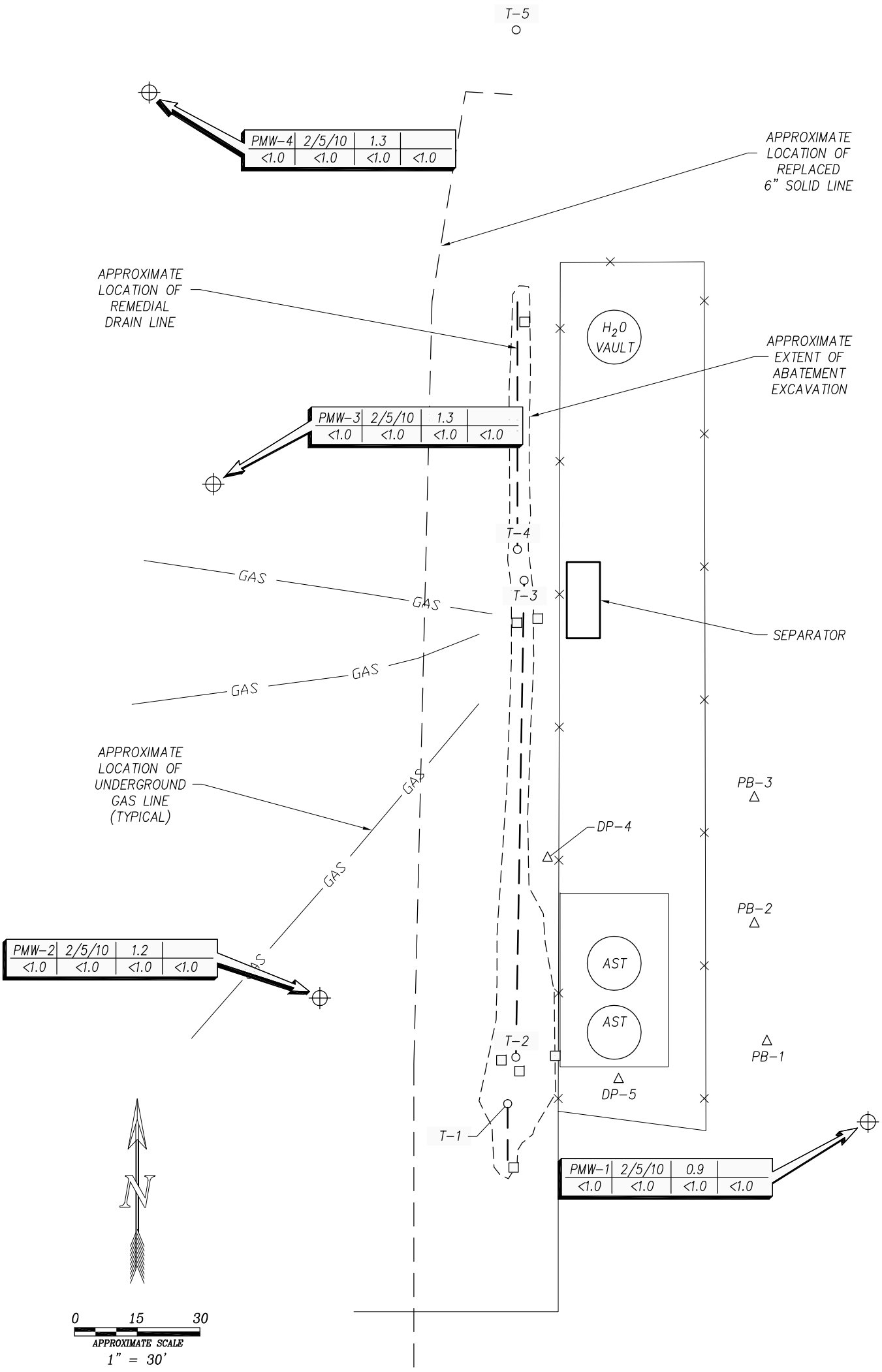
Legend

- ○ APPROXIMATE LOCATION OF REMEDIAL DRAIN LINE RISER
- △ APPROXIMATE LOCATION OF SOIL BORING
- ⊕ APPROXIMATE LOCATION OF MONITORING WELL
- □ APPROXIMATE LOCATION OF SOIL SAMPLE
- ⇦ ESTIMATED DIRECTION OF GROUNDWATER FLOW
- 120 ESTIMATED GROUNDWATER ELEVATION IN FEET ABOVE A COMMON DATUM

NOTE: GROUNDWATER CONTOURS WERE ESTIMATED USING THE "SURFER" PROGRAM FROM GOLDEN SOFTWARE BASED ON DATA COLLECTED FROM WELLS PMW–1, PMW–2, PMW–3, & PMW–4 ON FEBRUARY 5, 2010. ACTUAL CONDITIONS MAY VARY.

Figure 3 Piezometric Surface Diagram
Berger Tank Battery
Machii-Ross Petroleum Company
Weld County Road 11 & 20
Weld County, Colorado

Project Mngr: ADW	PARAGON Consulting Group	Project No: 1007004
Designed by:	Environmental Engineering and Geohydrology	Scale: As Shown
Drawn by: PJH	6901 Broadway	File No: 04feb10
Checked by: ADW	Denver, Colorado 80221	Date: Feb 2010
Approved by: DMR		Sheet No:



County Road 11

Legend

- ○ APPROXIMATE LOCATION OF REMEDIAL DRAIN LINE RISER
- △ APPROXIMATE LOCATION OF SOIL BORING
- ⊕ APPROXIMATE LOCATION OF MONITORING WELL
- □ APPROXIMATE LOCATION OF SOIL SAMPLE

WHERE:	SAMPLE NAME	SAMPLE DATE	DO	
	B	T	E	X

B = BENZENE CONCENTRATION IN µg/L.
T = TOLUENE CONCENTRATION IN µg/L.
E = ETHYLBENZENE CONCENTRATION IN µg/L.
X = TOTAL XYLENES CONCENTRATION IN µg/L.
DO = DISSOLVED OXYGEN CONCENTRATION IN mg/L.
NM = NOT MEASURED.

Figure 4 Groundwater Quality Results Diagram
Berger Tank Battery
Machii-Ross Petroleum Company
Weld County Road 11 & 20
Weld County, Colorado

Project Mngr: ADW	PARAGON Consulting Group	Project No: 1007004
Designed by:	Environmental Engineering and Geohydrology	Scale: As Shown
Drawn by: PJH	6901 Broadway	File No: 04w0210
Checked by: ADW	Denver, Colorado 80221	Date: Feb 2010
Approved by: DMR		Sheet No:

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

Well Name	PMW-1	PMW-2	PMW-3	PMW-4
Casing Elevation (feet)	125.44	124.82	121.50	119.41
Date Measured: March 1, 2007				
Depth to Water (feet)	11.38	3.96	7.02	10.42
Groundwater Elevation (feet)	114.06	120.86	114.48	108.99
Date Measured: April 9, 2007				
Depth to Water (feet)	3.99	7.60	6.71	9.61
Groundwater Elevation (feet)	121.45	117.22	114.79	109.80
Date Measured: June 13, 2007				
Depth to Water (feet)	4.11	4.70	7.20	10.61
Groundwater Elevation (feet)	121.33	120.12	114.30	108.80
Date Measured: September 28, 2007				
Depth to Water (feet)	3.85	8.25	8.00	11.18
Groundwater Elevation (feet)	121.59	116.57	113.50	108.23
Date Measured: January 28, 2008				
Depth to Water (feet)	4.90	7.96	NM	9.79
Groundwater Elevation (feet)	120.54	116.86	NM	109.62
Date Measured: April 30, 2008				
Depth to Water (feet)	4.68	7.60	6.80	9.52
Groundwater Elevation (feet)	120.76	117.22	114.70	109.89
Date Measured: July 21, 2008				
Depth to Water (feet)	4.15	8.49	7.54	10.89
Groundwater Elevation (feet)	121.29	116.33	113.96	108.52
Date Measured: October 6, 2008				
Depth to Water (feet)	3.82	8.26	7.08	9.58
Groundwater Elevation (feet)	121.62	116.56	114.42	109.83
Date Measured: May 12, 2009				
Depth to Water (feet)	3.95	7.45	6.39	8.03
Groundwater Elevation (feet)	121.49	117.37	115.11	111.38
Date Measured: August 6, 2009				
Depth to Water (feet)	3.11	8.13	6.94	8.78
Groundwater Elevation (feet)	122.33	116.69	114.56	110.63
Date Measured: November 3, 2009				
Depth to Water (feet)	3.92	7.60	6.88	8.53
Groundwater Elevation (feet)	121.52	117.22	114.62	110.88
Date Measured: February 5, 2010				
Depth to Water (feet)	6.39	7.43	6.70	7.69
Groundwater Elevation (feet)	119.05	117.39	114.80	111.72

Notes:

1. Approximate well locations are shown on Figure 3.
2. NM = Mot Measured.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
(Page 1 of 4)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

Sample Point Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Dissolved Oxygen (mg/L)
PMW-1[11.]	03/01/07	<0.5	<0.5	<0.5	<0.5	2.6
PMW-1	04/09/07	NS	NS	NS	NS	1.1
PMW-1	06/13/07	<0.5	<0.5	<0.5	<0.5	0.7
PMW-1	09/28/07	<0.5	<0.5	<0.5	<0.5	0.1
PMW-1	01/28/08	<0.5	<0.5	<0.5	<0.5	0.8
PMW-1	04/30/08	<0.5	<0.5	<0.5	<0.5	NM
PMW-1	07/21/08	<0.5	<0.5	<0.5	<0.5	0.9
PMW-1	10/06/08	<1.	<1.	<1.	<1.	1.0
PMW-1	05/12/09	<1.	<1.	<1.	<1.	0.8
PMW-1	08/06/09	<1.	<1.	<1.	<1.	0.9
PMW-1	11/03/09	<1.	<1.	<1.	<1.	1.3
PMW-1	02/05/10	<1.	<1.	<1.	<1.	0.9
PMW-2	03/01/07	NS	NS	NS	NS	1.2
PMW-2	04/09/07	<0.5	<0.5	<0.5	<0.5	1.1
PMW-2	06/13/07	<0.5	<0.5	<0.5	<0.5	0.9
PMW-2	09/28/07	<0.5	<0.5	<0.5	<0.5	0.3
PMW-2	01/28/08	<0.5	<0.5	<0.5	<0.5	0.7
PMW-2	04/30/08	<0.5	<0.5	<0.5	<0.5	NM
PMW-2	07/21/08	<0.5	<0.5	<0.5	<0.5	1.0
PMW-2	10/06/08	<1.	<1.	<1.	<1.	1.1
PMW-2	05/12/09	<1.	<1.	<1.	<1.	1.1
PMW-2	08/06/09	<1.	<1.	<1.	<1.	1.3
PMW-2	11/03/09	<1.	<1.	<1.	<1.	1.0
PMW-2	02/05/10	<1.	<1.	<1.	<1.	1.2
Concentration Levels		5.0	560.	700.	1,400.	NR

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
(Page 2 of 4)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

Sample Point Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Dissolved Oxygen (mg/L)
PMW-3	03/01/07	NS	NS	NS	NS	1.4
PMW-3	04/09/07	<0.5	<0.5	<0.5	<0.5	1.0
PMW-3	06/13/07	<0.5	<0.5	<0.5	<0.5	1.0
PMW-3	09/28/07	<0.5	<0.5	<0.5	<0.5	0.4
PMW-3	01/28/08	<0.5	<0.5	<0.5	<0.5	0.8
PMW-3	04/30/08	<0.5	<0.5	<0.5	<0.5	NM
PMW-3	07/21/08	<0.5	<0.5	<0.5	<0.5	1.1
PMW-3	10/06/08	<1.	<1.	<1.	<1.	1.2
PMW-3	05/12/09	<1.	<1.	<1.	<1.	1.0
PMW-3	08/06/09	<1.	<1.	<1.	<1.	1.1
PMW-3	11/03/09	<1.	<1.	<1.	<1.	1.0
PMW-3	02/05/10	<1.	<1.	<1.	<1.	1.3
PMW-4	03/01/07	NS	NS	NS	NS	1.8
PMW-4	04/09/07	<0.5	<0.5	<0.5	<0.5	1.0
PMW-4	06/13/07	<0.5	<0.5	<0.5	<0.5	1.0
PMW-4	09/28/07	<0.5	<0.5	<0.5	<0.5	2.2
PMW-4	01/28/08	<0.5	<0.5	<0.5	<0.5	0.9
PMW-4	04/30/08	<0.5	<0.5	<0.5	<0.5	NM
PMW-4	07/21/08	<0.5	<0.5	<0.5	<0.5	1.3
PMW-4	10/06/08	<1.	<1.	<1.	<1.	1.0
PMW-4	05/12/09	<1.	<1.	<1.	<1.	1.1
PMW-4	08/06/09	<1.	<1.	<1.	<1.	1.0
PMW-4	11/03/09	<1.	<1.	<1.	<1.	1.2
PMW-4	02/05/10	<1.	<1.	<1.	<1.	1.3
BTB-SB-3	01/09/07	**20,047.**	**97,441.**	**10,824.**	**142,796.**	NM
BTB-4	01/09/07	3.5	65.	6.0	98.	NM
Concentration Levels		5.0	560.	700.	1,400.	NR

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
(Page 3 of 4)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

Sample Point Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Dissolved Oxygen (mg/L)
T-1	06/25/07	**517.**	**1,877.**	11.	**4,397.**	NM
T-1	09/28/07	NS	NS	NS	NS	NM
T-1	01/28/08	NS	NS	NS	NS	NM
T-1	04/30/08	NS	NS	NS	NS	NM
T-1	07/21/08	**134.**	129.	124.	**1,550.**	NM
T-1	10/06/08	NS	NS	NS	NS	NM
T-1	05/12/09	NS	NS	NS	NS	NM
T-1	08/06/09	NS	NS	NS	NS	NM
T-1	11/03/09	1.	<1.	3.	13.	NM
T-1	02/05/10	NS	NS	NS	NS	NM
T-2	06/25/07	**868.**	**775.**	12.	**6,330.**	NM
T-2	09/28/07	NS	NS	NS	NS	NM
T-2	01/28/08	**300.**	49.	<0.5	**1,415.**	NM
T-2	04/30/08	NS	NS	NS	NS	NM
T-2	07/21/08	**289.**	55.	150.	**1,961.**	NM
T-2	10/06/08	NS	NS	NS	NS	NM
T-2	05/12/09	**94.**	65.	32.	663.	NM
T-2	08/06/09	NS	NS	NS	NS	NM
T-2	11/03/09	2.	<1.	4.	2.	NM
T-2	02/05/10	NS	NS	NS	NS	NM
T-3	06/25/07	**394.**	24.	<0.5	**3,449.**	NM
T-3	09/28/07	NS	NS	NS	NS	NM
T-3	01/28/08	**214.**	8.1	<0.5	627.	NM
T-3	04/30/08	NS	NS	NS	NS	NM
T-3	07/21/08	**199.**	3.5	48.	246.	NM
T-3	10/06/08	NS	NS	NS	NS	NM
T-3	05/12/09	<1.	<1.	<1.	<1.	NM
T-3	08/06/09	NS	NS	NS	NS	NM
T-3	11/03/09	7.	<1.	4.	2.	NM
T-3	02/05/10	NS	NS	NS	NS	NM
Concentration Levels		5.0	560.	700.	1,400.	NR

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 2
SUMMARY OF WATER QUALITY RESULTS
(Page 4 of 4)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

Sample Point Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Dissolved Oxygen (mg/L)
T-4	06/25/07	**240.**	2.2	<0.5	**1,270.**	NM
T-4	09/28/07	NS	NS	NS	NS	NM
T-4	01/28/08	**44.**	0.7	<0.5	28.	NM
T-4	04/30/08	NS	NS	NS	NS	NM
T-4	07/21/08	**172.**	6.6	17.	66.	NM
T-4	10/06/08	NS	NS	NS	NS	NM
T-4	05/12/09	<1.	<1.	<1.	<1.	NM
T-4	08/06/09	NS	NS	NS	NS	NM
T-4	11/03/09	**5.**	<1.	<1.	<1.	NM
T-4	02/05/10	NS	NS	NS	NS	NM
T-5	06/25/07	**1,451.**	**692.**	426.	**6,938.**	NM
T-5	09/28/07	NS	NS	NS	NS	NM
T-5	01/28/08	**168.**	<0.5	132.	**1,547.**	NM
T-5	04/30/08	NS	NS	NS	NS	NM
T-5	07/21/08	**177.**	7.5	226.	1,216.	NM
T-5	10/06/08	NS	NS	NS	NS	NM
T-5	05/12/09	**11.**	<1.	40.	165.	NM
T-5	08/06/09	NS	NS	NS	NS	NM
T-5	11/03/09	<1.	<1.	2.	10.	NM
T-5	02/05/10	NS	NS	NS	NS	NM
Concentration Levels		5.0	560.	700.	1,400.	NR

Notes:

1. Approximate sample locations are shown on Figure 4.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. Concentration Levels for groundwater are described in Table 910-1 of Series 900 of the Colorado Oil & Gas Conservation Commission Rules and Regulations established April 1, 2009.
5. **Bold** concentrations indicate an exceedance of the Concentration Levels.
6. NR = Not Regulated.
7. NM = Not Measured.
8. NS = Not Sampled.
9. Groundwater levels did not appear to have stabilized in PMW-1, PMW-2 and PMW-3 since drilling and groundwater samples were not collected from these wells.
10. Groundwater samples BTB-SB-3 and BTB-4 were split samples collected from ENVIRON's probes SB-3 and SB-4, respectively, by Paragon personnel.
11. PMW-1 was inadvertently labeled as PMW-4 during the groundwater sampling performed in March 2007.

TABLE 3
GROUNDWATER RECOVERY
(Page 1 of 3)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

DATE	WELL NAME	AMOUNT RECOVERED (gal)	RECOVERY METHOD
3/23/2007	T-1 through T-5	1,050	vacuum extraction truck
5/29/2007	T-1 through T-5	2,310	vacuum extraction truck
5/31/2007	T-1 through T-5	2,100	vacuum extraction truck
6/4/2007	T-1 through T-5	2,310	vacuum extraction truck
7/3/2007	T-1 through T-5	2,730	vacuum extraction truck
7/5/2007	T-1 through T-5	2,310	vacuum extraction truck
7/9/2007	T-1 through T-5	2,310	vacuum extraction truck
7/16/2007	T-1 through T-5	2,520	vacuum extraction truck
7/23/2007	T-1 through T-5	2,184	vacuum extraction truck
7/30/2007	T-1 through T-5	2,730	vacuum extraction truck
8/20/2007	T-1 through T-5	2,520	vacuum extraction truck
8/27/2007	T-1 through T-5	1,890	vacuum extraction truck
9/4/2007	T-1 through T-5	2,730	vacuum extraction truck
9/18/2007	T-1 through T-5	1,680	vacuum extraction truck
10/8/2007	T-1 through T-5	2,100	vacuum extraction truck
10/15/2007	T-1 through T-5	1,680	vacuum extraction truck
10/22/2007	T-1 through T-5	2,730	vacuum extraction truck
10/29/2007	T-1 through T-5	2,184	vacuum extraction truck
11/5/2007	T-1 through T-5	2,730	vacuum extraction truck
11/14/2007	T-1 through T-5	2,730	vacuum extraction truck
11/19/2007	T-1 through T-5	2,730	vacuum extraction truck
12/3/2007	T-1 through T-5	1,470	vacuum extraction truck
12/10/2007	T-1 through T-5	1,722	vacuum extraction truck
12/17/2007	T-1 through T-5	1,638	vacuum extraction truck
12/26/2007	T-1 through T-5	2,940	vacuum extraction truck
1/2/2008	T-1 through T-5	2,520	vacuum extraction truck
1/7/2008	T-1 through T-5	1,974	vacuum extraction truck
1/14/2008	T-1 through T-5	2,520	vacuum extraction truck
1/21/2008	T-1 through T-5	2,646	vacuum extraction truck
1/29/2008	T-1 through T-5	1,764	vacuum extraction truck
2/4/2008	T-1 through T-5	2,730	vacuum extraction truck
2/11/2008	T-1 through T-5	2,520	vacuum extraction truck
2/18/2008	T-1 through T-5	2,520	vacuum extraction truck
3/3/2008	T-1 through T-5	2,730	vacuum extraction truck
3/10/2008	T-1 through T-5	2,940	vacuum extraction truck
3/17/2008	T-1 through T-5	2,730	vacuum extraction truck
3/24/2008	T-1 through T-5	2,730	vacuum extraction truck
3/31/2008	T-1 through T-5	2940	vacuum extraction truck
4/8/2008	T-1 through T-5	2,058	vacuum extraction truck
4/14/2008	T-1 through T-5	2,436	vacuum extraction truck
4/23/2008	T-1 through T-5	2,100	vacuum extraction truck
4/28/2008	T-1 through T-5	NR	vacuum extraction truck
5/5/2008	T-1 through T-5	2,436	vacuum extraction truck
5/15/2008	T-1 through T-5	2,730	vacuum extraction truck
5/19/2008	T-1 through T-5	2,730	vacuum extraction truck
5/27/2008	T-1 through T-5	NR	vacuum extraction truck

Notes:

1) Approximate sample locations are shown on Figure 3.

TABLE 3
GROUNDWATER RECOVERY
(Page 2 of 3)

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

DATE	WELL NAME	AMOUNT RECOVERED (gal)	RECOVERY METHOD
6/2/2008	T-1 through T-5	2,730	vacuum extraction truck
6/10/2008	T-1 through T-5	2,814	vacuum extraction truck
6/16/2008	T-1 through T-5	2,142	vacuum extraction truck
6/24/2008	T-1 through T-5	2,604	vacuum extraction truck
6/30/2008	T-1 through T-5	2,814	vacuum extraction truck
7/7/2008	T-1 through T-5	1,848	vacuum extraction truck
7/14/2008	T-1 through T-5	NR	vacuum extraction truck
7/22/2008	T-1 through T-5	1,974	vacuum extraction truck
7/28/2008	T-1 through T-5	3,066	vacuum extraction truck
8/4/2008	T-1 through T-5	2,940	vacuum extraction truck
8/13/2008	T-1 through T-5	1,680	vacuum extraction truck
8/18/2008	T-1 through T-5	2,940	vacuum extraction truck
8/25/2008	T-1 through T-5	2,940	vacuum extraction truck
9/3/2008	T-1 through T-5	2,940	vacuum extraction truck
9/8/2008	T-1 through T-5	1,848	vacuum extraction truck
9/22/2008	T-1 through T-5	2,940	vacuum extraction truck
9/29/2008	T-1 through T-5	2,310	vacuum extraction truck
10/6/2008	T-1 through T-5	2,730	vacuum extraction truck
10/13/2008	T-1 through T-5	2,940	vacuum extraction truck
11/3/2008	T-1 through T-5	2,520	vacuum extraction truck
11/10/2008	T-1 through T-5	2,940	vacuum extraction truck
11/17/2008	T-1 through T-5	2,730	vacuum extraction truck
11/24/2008	T-1 through T-5	2,730	vacuum extraction truck
12/1/2008	T-1 through T-5	2,520	vacuum extraction truck
12/8/2008	T-1 through T-5	2,310	vacuum extraction truck
12/15/2008	T-1 through T-5	2,268	vacuum extraction truck
12/22/2008	T-1 through T-5	1,974	vacuum extraction truck
12/29/2008	T-1 through T-5	2,520	vacuum extraction truck
1/5/2009	T-1 through T-5	2,520	vacuum extraction truck
1/12/2009	T-1 through T-5	2,058	vacuum extraction truck
1/19/2009	T-1 through T-5	1,680	vacuum extraction truck
1/26/2009	T-1 through T-5	2,310	vacuum extraction truck
2/2/2009	T-1 through T-5	2,142	vacuum extraction truck
2/9/2009	T-1 through T-5	1,680	vacuum extraction truck
2/16/2009	T-1 through T-5	2,142	vacuum extraction truck
2/23/2009	T-1 through T-5	2,142	vacuum extraction truck
3/2/2009	T-1 through T-5	1,890	vacuum extraction truck
3/9/2009	T-1 through T-5	2,436	vacuum extraction truck
3/16/2009	T-1 through T-5	2,730	vacuum extraction truck
3/23/2009	T-1 through T-5	2,730	vacuum extraction truck

Notes:

1) Approximate sample locations are shown on Figure 3.

TABLE 3
GROUNDWATER RECOVERY

PROJECT NAME: Machii Ross/Berger Battery
PROJECT LOCATION: WCR 11 & WCR 20, Weld County, Colorado
PROJECT NUMBER: 1007004

DATE	WELL NAME	AMOUNT RECOVERED (gal)	RECOVERY METHOD
3/30/2009	T-1 through T-5	2,520	vacuum extraction truck
4/6/2009	T-1 through T-5	2,730	vacuum extraction truck
4/13/2009	T-1 through T-5	2,562	vacuum extraction truck
4/20/2009	T-1 through T-5	2,898	vacuum extraction truck
4/27/2009	T-1 through T-5	2,562	vacuum extraction truck
5/4/2009	T-1 through T-5	2,940	vacuum extraction truck
5/11/2009	T-1 through T-5	2,730	vacuum extraction truck
5/18/2009	T-1 through T-5	2,520	vacuum extraction truck
5/26/2009	T-1 through T-5	2,184	vacuum extraction truck
6/1/2009	T-1 through T-5	2,268	vacuum extraction truck
6/8/2009	T-1 through T-5	2,142	vacuum extraction truck
6/15/2009	T-1 through T-5	2,730	vacuum extraction truck
6/22/2009	T-1 through T-5	2,394	vacuum extraction truck
6/29/2009	T-1 through T-5	2,730	vacuum extraction truck
7/6/2009	T-1 through T-5	2,478	vacuum extraction truck
7/13/2009	T-1 through T-5	NR	vacuum extraction truck
7/20/2009	T-1 through T-5	2,562	vacuum extraction truck
7/27/2009	T-1 through T-5	1,806	vacuum extraction truck
8/3/2009	T-1 through T-5	2,730	vacuum extraction truck
8/10/2009	T-1 through T-5	2,940	vacuum extraction truck
8/17/2009	T-1 through T-5	2,940	vacuum extraction truck
8/24/2009	T-1 through T-5	2,940	vacuum extraction truck
8/31/2009	T-1 through T-5	2,268	vacuum extraction truck
9/14/2009	T-1 through T-5	2,940	vacuum extraction truck
9/28/2009	T-1 through T-5	3,150	vacuum extraction truck
10/12/2009	T-1 through T-5	2,268	vacuum extraction truck
10/26/2009	T-1 through T-5	2,436	vacuum extraction truck
11/24/2009	T-1 through T-5	2,520	vacuum extraction truck
TOTAL LIQUID REMOVED		**268,842**	

Notes:

1) Approximate sample locations are shown on Figure 3.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

Paragon Consulting Group, Inc.
1103 Oak Park Drive
Fort Collins, CO 80525

Date Received: 02/05/10
Matrix: Water
Project No.: 1007004

Lab ID	Sample ID	Date Sampled	Date Analyzed	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes mg/L
9928-01	PMW-1	02/05/10	02/05/10	< 0.001	< 0.001	< 0.001	< 0.001
9928-02	PMW-2	02/05/10	02/05/10	< 0.001	< 0.001	< 0.001	< 0.001
9928-03	PMW-3	02/05/10	02/05/10	< 0.001	< 0.001	< 0.001	< 0.001
9928-04	PMW-4	02/05/10	02/06/10	< 0.001	< 0.001	< 0.001	< 0.001

BTEX Method: EPA-8260B

Todd Rhea

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK
1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

QA/QC SURROGATE RECOVERY

Paragon Consulting Group, Inc.
1103 Oak Park Drive
Fort Collins, CO 80525

Date Received: 02/05/10
Matrix: Water
Project No.: 1007004

(% Recovery)

Lab ID	Sample ID	Bromofluorobenzene Limits (70-113%)	Dibromofluoromethane Limits (68-120%)	Toluene-d8 Limits (81-128%)
9928-01	PMW-1	107	113	97
9928-02	PMW-2	106	114	97
9928-03	PMW-3	106	116	98
9928-04	PMW-4	107	117	98

Todd Rice

Key Energy Services

Key Energy Services, Inc.
TRUCKING JSA
REMIT TO: PO BOX 201858 DALLAS, TX 75320-1858

T1498534

Date: 11-24-09 S M T W T F S

Work Ticket No. T1498534

Customer Name/No.	Machil-Ross Petroleum Co. 41-23	County/Parish	Weld	State	Co
Contact	Andy	Service Location	(Berger Battery) Non Hot		
Directions to Location	Rd 11/Rd 18 N 6/10 W into				

Yard No.	Unit/Asset No.	Manifest	RCC No.
0327	0106319		

SWD Name ☐ Key SWD ☐ Customer SWD ☐ Public SWD Disposal Ticket No.

WORK TICKET DESCRIPTION:

Start	End	Description	# BBL	Oil/Water	Rec'd By
11:30 Am	3:00 Pm	Vacuum out the 5 PVC Risers around the tank battery, take to Conquest 2 for disposal	60		

Tank No.	Tank No.	Tank No.	Mileage Start	Mileage End
Top Gauge	Top Gauge	Top Gauge		
Bottom Gauge	Bottom Gauge	Bottom Gauge	Ifta ___ State	Ifta ___ State

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB:

☑ Hard Hat ☐ Safety Belts ☐ Safety Harness / Anti Fall Device ☐ Proper Clothing ☐ Hearing Protection
☐ Fire Extinguishers ☑ Steel Toed Boots ☑ Cotton/ Rubber Gloves ☑ Safety Glasses ☐ Other - Explain:
☐ Face Shields / Goggles ☐ Wheel Chock/Cones ☐ Confined Space Permit ☐ Work Permit Required
☐ H2S / Tri-Monitors ☐ Back Support Belts ☐ Lock Out/Tag Out ☐ Ground Cable

PRE-JOB HAZARD ASSESSMENT:

Lifting
Manual Lifting (Body Position) ☐Y ☐N
Mechanical Lifting Equipment ☐Y ☐N
Awkward Body Position ☐Y ☐N
Slip/Trip Potential ☐Y ☐N
Lifting w/Other Employees ☐Y ☐N
Proper Rigging Practices ☐Y ☐N

Access/Exit
Scaffold (properly inspected) ☐Y ☐N
Ladder ☐Y ☐N
Hoisting of Tools/Materials ☐Y ☐N
Secure Footing ☐Y ☐N

Hazards
Proper Tool/Material Placement ☐Y ☐N
Hot/Cold Surface or Material ☐Y ☐N
Inadequate Lighting ☐Y ☐N
Fall Protection/ Anchor Points ☐Y ☐N
Pinch Points ☐Y ☐N
Trenching/Excavation ☐Y ☐N
Hand and Finger Hazards ☐Y ☐N
Electrical Hazards ☐Y ☐N
Welding/Flame Cutting ☐Y ☐N
Mechanical Equipment ☐Y ☐N

Environmental
Pollution (Personal Exposure) ☐Y ☐N

Body Position/Movement
Climbing ☑Y ☐N
Pulling, Pushing ☑Y ☐N
Bending ☑Y ☐N
Twisting Motion ☑Y ☐N
Walking ☑Y ☐N
Swinging ☑Y ☐N
Straining ☑Y ☐N
Stretching ☑Y ☐N
Reaching ☑Y ☐N
Over Extending ☑Y ☐N
Jumping ☑Y ☐N
Crawling ☑Y ☐N

Environmental Condition
☑ Day ☐ Night ☑ Clear
☐ Drizzle ☐ Humid ☐ Rain
☐ Ice ☐ Snow ☐ Dust ☐ Fog
☐ Temp 50 Degrees
☐ Wind ___ mph
☐ Chains Required
☐ Steep Grades
☑ Mud ___ Condition

If YES to any HAZARDS - Identify:

SEQUENCE OF BASIC JOB STEPS	POTENTIAL AT-RISK BEHAVIORS OR OTHER HAZARDS	POTENTIAL HAND AND/OR FINGER HAZARDS	ACTION TAKEN TO ELIMINATE OR REDUCE POTENTIAL HAZARDS
Vacuum Out of the 4 PVC Risers	Pressure, Muddy, Slide into Fence or Risers	Hose, Valves, Camlock Fittings	Close Valves, Chains Fingers Clear
Hose down 4" PVC and Vacuum	Strain, STF, Avd Rotating Shaft		Be Careful, PPC/Footwear
Dispose fluid	Static Chg		Stay away Ground Cable

Key Approval - Date: Kevin Geberth 11-25-09

Customer Approval - Date: ______ ☑ No Signature Required

Asset	Service Code	Description				Qty	Rate	Total
		☐ Transport ☐ Trans/Vac ☐ Vacuum						
		Minimum	☐ 130 BBL	☐ 60-80 BBL	☐ 50 BBL	3.5		
0106319	300143	☑ Hour ☐ Barrel ☐ Load	☐ 130 BBL	☐ 60-80 BBL	☐ 50 BBL		74.00	259.00
		Pump/Kill Truck Minimum	☐ 130 BBL	☐ 60-80 BBL	☐ 50 BBL			
		Pump/Kill Truck Hourly	☐ 130 BBL	☐ 60-80 BBL	☐ 50 BBL			
		Hot Oil Unit Minimum	☐ 130 BBL	☐ 75 BBL				
		Hot Oil Unit Hourly	☐ 130 BBL	☐ 75 BBL				
		Hot Oil by the BBL						
		Propane						
		Winch Truck Minimum	☐ Light Duty	☐ Heavy Duty				
		Winch Truck Hourly	☐ Light Duty	☐ Heavy Duty				
		Haul, Set & Deliver Equipment						
		☐ Swamper	☐ Special Fluid Helper					
		Supervisor ☐ Truck	☐ Acid	☐ Special Fluid				
		Fresh Water Key Owned						
		Fresh Water Non Key						
		Brine Water Key Owned						
		Brine Water Non Key						
		Disposal Key Owned	☐ Solid	☐ B/S				
		Disposal Non Key	☐ Solid	☐ B/S				
		Disposal Key Owned	☐ Produced	☐ Flowback				
		Disposal Non Key	☐ Produced	☐ Flowback				
		Third Party						
		KCL (Potassium Chloride) Powdered						
		KCL Substitute						
		KCL ☐ 2% ☐ 3% ☐ 4% ☐ Other						
		Chemicals - Specify:						
		FUEL ☐ Fuel Surcharge ☐ Fuel Charge						

Sales tax calculated on invoice

Sub Total 259.00

PAYROLL:

Class	Employee No.	Employee Name / Signature	Start	End	Work	Travel	Down	Other	Total Hours
DRIVER	49078	Daniel Diaz / [signature]	11:30 Am	3:00 Pm	3.5	-	-	-	3½
SWAMPER TRAINEE									

DWT-005 8/08

RECEIVED
MAR 4
PARAGON