AP - 63

ANNUAL MONITORING REPORT

YEAR(S): 2008

2008
ANNUAL MONITORING REPORT

34 JUNCTION SOUTH STATION

LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 2, TOWNSHIP 17 SOUTH, RANGE 36 EAST
PLAINS SRS NUMBER: 2005-00138
NMOCD Reference 1R-0456

AP-63

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February 2009

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ENCLOSED ON DATA DISK

2008 Annual Monitoring Report
2008 Tables 1, 2 and 3 – Groundwater Elevation, BTEX, TPH and PAH Concentration Data
2008 Figures 1, 2A-2D, and 3A-3D
Electronic Copies of Laboratory Reports
Historic Table 1 and 2 – Groundwater Elevation and BTEX, TPH, PAH Concentration Tables
Historic Table 1 and 2 – Groundwater Elevation and BTEX, TPH, PAH Concentration Tables

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on or about August 8, 2006, project management responsibilities were assumed by NOVA, having previously been managed by Basin Environmental Service Technologies, LLC, (Basin). This report is intended to be viewed as a complete document with text, figures, tables and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2008 only. However, historic data tables as well as 2008 laboratory analytical reports are provided on the enclosed data disk. A site location map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2008 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were sampled as per a NMOCD directive.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is NW¼, SW¼, Section 2, Township 17 South, Range 36 East. The site is located on property owned by the State of New Mexico. The site latitude is 32° 51' 42.4" North and the site longitude is 103° 19' 54.4" West. Please reference Figure 1 for a Site Location Map. On June 10, 2005, Basin responded to a pipeline release on behalf of Plains. The release occurred as a result of the mechanical malfunction of an air eliminator check valve at an operational secondary metering station. Emergency response activities included the repair of the affected check valve and excavation of the hydrocarbon impacted soil. Approximately 15 barrels of crude oil were released from the pipeline and 0.5 barrels were recovered, resulting in a net loss of 14.5 barrels. The visibly stained surface area covers an area approximately 20 feet long by 20 feet wide. Excavation activities during the initial response activities covered an area within the fenced station approximately 20 feet long by 20 feet wide and one to four feet below ground surface (bgs). Approximately 100 cubic yards (cy) of excavated soil was placed on a polyethylene liner for future remedial activities. Please reference Appendix B for The Release Notification and Corrective Action (Form C-141).

Currently, there are fourteen (14) monitor wells and one (1) recovery well (RW-1) on site. An automated PSH recovery system, consisting of pneumatic skimmer pumps installed in monitor wells MW-3 and MW-9 and recovery well RW-1 was operational during the reporting period of 2008. Recovered PSH is temporarily stored in a poly tank and periodically re-injected into the Plains Pipeline transportation system located at the 34 Junction Metering Station.

A *Stage 1 and Stage 2 Abatement Plan* was submitted to the NMOCD in October 2006. The NMOCD has accepted the Abatement Plan as administratively complete and public notice approval is pending.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor wells MW-3, MW-4, MW-8, MW-9, and MW-10 and in recovery well RW-1 during the 2008 reporting period. The average thickness of PSH in monitor and recovery wells containing PSH during 2008 was 1.45 feet, with a maximum thickness of 7.95 feet occurring in recovery well RW-1 on November 11, 2008. Approximately 111 gallons (approximately 2.8 barrels) of PSH was recovered from the site during the 2008 reporting period. Approximately 2,459 gallons (approximately 61.5 barrels) of PSH have been recovered since the project inception. Measurable thicknesses of PSH are recorded in Table 1 and Figures 3A through 3D.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule.

NMOCD APPROVED SAMPLING SCHEDULE					
Location	**Schedule**	**Location**	**Schedule**	**Location**	**Schedule**
MW-1	Quarterly	MW-6	Quarterly	MW-11	Quarterly
MW-2	Quarterly	MW-7	Quarterly	MW-12	Quarterly
MW-3	Quarterly	MW-8	Quarterly	MW-13	Quarterly
MW-4	Quarterly	MW-9	Quarterly	MW-14	Quarterly
MW-5	Quarterly	MW-10	Quarterly	RW-1	Quarterly

The site monitor wells were gauged and sampled on February 11, May 12, August 13, and November 11, 2008. During each sampling event, sampled monitor wells were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four (4) quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data for 2008 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.007 feet/foot to the east-northeast as measured between monitor wells MW-2 and MW-5. This is consistent with data presented from earlier in the year. The corrected groundwater elevation has ranged between 3,788.92 and 3,791.38 feet above mean sea level, in monitor wells MW-12 on November 11, 2008 and MW-2 on February 11, 2008, respectively.

LABORATORY RESULTS

Monitor wells MW-3, MW-4, MW-8, MW-9 and MW-10 and recovery well RW-1 contained PSH during all four quarters of the reporting period. Monitor wells MW-3, MW-9 and recovery

well RW-1 were not sampled during the 4th quarter of the reporting period due to insufficient water volume in the wells. Plains, at the request of the NMOCD, collected groundwater samples below PSH levels in all monitor wells containing PSH.

Groundwater samples obtained during the quarterly sampling events of 2008 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2008 are summarized in Table 2 and the PAH constituent concentrations for 2008 are summarized in Table 3. Copies of the laboratory reports generated for 2008 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below laboratory method detection limits (MDL) and the NMOCD regulatory standards of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 mg/L for xylene during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-3 is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4th quarter due to insufficient water volume in the well. PSH thicknesses of 0.66 feet, 0.77 feet and 5.04 feet were reported during the 2nd, 3rd and 4th quarters of 2008, respectively. Monitor well MW-3 was inadvertently not gauged during the 1st quarter sampling event.

Monitor well MW-4 is monitored / sampled on a quarterly schedule. Monitor well MW-4 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.25 feet, 0.79 feet and 1.05 feet were reported during the 1st, 2nd and 3rd quarters of 2008, respectively. Benzene concentrations were above the NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 1.780 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 1.870 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 0.4030 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4th quarter of the reporting period with a concentration of 1.170 mg/L. Analytical results indicated a total TPH result of 82.50 mg/L. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.0853 mg/L), 1-methylnaphthalene (0.177 mg/L) and 2-methylnaphthalene (0.222 mg/L). Additional PAH

constituents detected above MDLs include fluorene (0.0136 mg/L) and phenanthrene (0.0149 mg/L), which are below WQCC standards.

Monitor well MW-5 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 6.470 mg/L during the 4th quarter to 9.040 mg/L during the 2nd quarter of 2008. Benzene concentrations were above NMOCD regulatory standards during all four quarters of the reporting period. Toluene concentrations ranged from <0.050 mg/L during the 2nd and 3rd quarters to 0.236 mg/L during the 4th quarter of 2008. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.220 mg/L during the 3rd quarter to 0.820 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from <0.050 mg/L during the 3rd quarter to 1.090 mg/L during the 4th quarter of 2008. Xylene concentrations were below NMOCD regulatory standards, with the exception of the 4th quarter of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above MDLs for naphthalene (0.00143 mg/L), 1-methylnaphthalene (0.00401 mg/L), 2-methylnaphthalene (0.0032 mg/L), dibenzofuran (0.000337 mg/L), fluorine (0.000526 mg/L), and phenanthrene (0.00042 mg/L), which are below WQCC standards.

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-8 is monitored / sampled on a quarterly schedule. Monitor well MW-8 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.18 feet, 0.60 feet and 0.74 feet were reported during the 1st, 2nd and 3rd quarters of 2008, respectively. Analytical results from groundwater samples collected during the 4th quarter indicate benzene concentrations were above the NMOCD regulatory standard with a concentration of 2.470 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4th quarter with a concentration of 4.340 mg/L. Ethylbenzene concentrations were below NMOCD regulatory standards during the 4th quarter with a concentration of 0.7080 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4th quarter with a concentration of 1.960 mg/L. Analytical results indicated a total TPH result of 249.50 mg/L. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.124 mg/L), 1-methylnaphthalene (0.270 mg/L) and 2-methylnaphthalene (0.334 mg/L). Additional PAH constituents detected above MDLs include fluorene (0.0332 mg/L) and phenanthrene (0.0301 mg/L), which are below WQCC standards.

Monitor well MW-9 is monitored on a quarterly schedule. Monitor well MW-9 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period due to the presence of PSH in the monitor well and was not sampled during the 4th quarter due to insufficient water volume in

the well. PSH thicknesses of 7.89 feet, 7.72 feet and 7.79 feet were reported during the 2nd, 3rd and 4th quarters of 2008, respectively. Monitor well MW-9 was inadvertently not gauged during the 1st quarter sampling event.

Monitor well MW-10 is monitored / sampled on a quarterly schedule. Monitor well MW-10 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.15 feet, 0.13 feet and 1.67 feet were reported during the 2nd, 3rd and 4th quarters of 2008, respectively. Monitor well MW-10 was inadvertently not gauged during the 1st quarter sampling event. Analytical results from groundwater samples collected during the 4th quarter indicate benzene concentrations were above the NMOCD regulatory standard with a concentration of 6.54 mg/L. Toluene concentrations were above NMOCD regulatory standards during the 4th quarter with a concentration of 6.41 mg/L. Ethylbenzene concentrations were above NMOCD regulatory standards during the 4th quarter with a concentration of 1.220 mg/L. Xylene concentrations were above NMOCD regulatory standards during the 4th quarter with a concentration of 3.710 mg/L. Analytical results indicated a total TPH result of 373.80 mg/L. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.308 mg/L), 1-methylnaphthalene (0.773 mg/L) and 2-methylnaphthalene (0.987 mg/L). Additional PAH constituents detected above MDLs include dibenzofuran (0.0194 mg/L), fluorene (0.0618 mg/L) and phenanthrene (0.0709 mg/L), which are below WQCC standards.

Monitor well MW-11 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0054 mg/L during the 1st quarter to 0.5440 mg/L during the 4th quarter of 2008. Benzene concentrations were above NMOCD regulatory standards during the 2nd, 3rd and 4th quarters of the reporting period. Toluene concentrations ranged from 0.0124 mg/L during the 1st quarter to 0.269 mg/L during the 2nd quarter of 2008. Toluene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0319 mg/L during the 1st quarter to 0.1620 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. Xylene concentrations ranged from 0.1350 mg/L during the 1st quarter to 0.454 mg/L during the 2nd quarter of 2008. Xylene concentrations were below NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-12 is sampled on a quarterly schedule and analytical results indicate BTEX constituent concentrations were below MDL and the NMOCD regulatory standards during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-13 was installed in July 2008 and is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from <0.005 mg/L during the 3rd quarter to 0.752 mg/L during the 4th quarter of 2008. Benzene concentrations were above NMOCD regulatory standards during the 4th quarter of the reporting period. Toluene concentrations were below the MDL and the NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. Ethylbenzene concentrations were below the MDL and the NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 3rd quarter to 0.0042 mg/L during the 4th

quarter of 2008. Xylene concentrations were below NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Monitor well MW-14 was installed in July 2008 and is sampled on a quarterly schedule. Analytical results indicate benzene concentrations ranged from <0.005 mg/L during the 3rd quarter to 0.0013 mg/L during the 4th quarter of 2008. Benzene concentrations were below NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. Toluene, ethylbenzene and xylene concentrations were below NMOCD regulatory standards during the 3rd and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations were detected above the respective MDLs.

Recovery well RW-1 is monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the 1st, 2nd and 3rd quarters of the reporting period, due to the presence of PSH in the monitor well and was not sampled during the 4th quarter due to insufficient water volume in the well. PSH thicknesses of 7.26 feet, 7.63 feet and 7.95 feet were reported during the 2nd, 3rd and 4th quarters of 2008, respectively. Recovery well RW-1 was inadvertently not gauged during the 1st quarter sampling event.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of monitoring activities for the 2008 annual monitoring period. Fourteen (14) groundwater monitor wells (MW-1 through MW-14) and one (1) PSH recovery wells (RW-1) are currently on-site. An automated recovery system was operational during the 2008 reporting period. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of 0.007 feet/foot to the east-northeast.

Five monitor wells and one recovery well (MW-3, MW-4, MW-8, MW-9, MW-10 and RW-1) contained measurable thicknesses of PSH during the reporting period. The average thickness of PSH in monitor and recovery wells exhibiting PSH during 2008 was 1.45 feet. Approximately 111 gallons (approximately 2.8 barrels) of PSH was recovered from the site during the 2008 reporting period. Approximately 2,459 gallons (approximately 61.5 barrels) of PSH have been recovered since the project inception.

Review of laboratory analytical results of the groundwater samples obtained during the 2008 monitoring period indicates the BTEX constituent concentrations are below applicable NMOCD standards in six of the fourteen monitor wells and one recovery wells currently on-site. Monitor wells MW-3, MW-4, MW-8, MW-9 and MW-10 and recovery well RW-1 consistently exhibited measurable thicknesses of PSH during gauging events. Dissolved phase and phase separated hydrocarbon impact appears to be limited to monitor wells MW-5, MW-11, MW-13 and MW-14. Groundwater samples from monitor wells MW-4, MW-8 and MW-10 exhibited elevated TPH concentrations for GRO and DRO. Analytical results on groundwater samples collected indicate PAH distributions mirrored those of BTEX distributions over the site.

ANTICIPATED ACTIONS

Groundwater monitoring and groundwater sampling will continue in 2009. The onsite automated recovery system will continue to operate and may be modified, as conditions require. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2010. Based on the most recent analytical data, Plains is currently evaluating the need for an additional monitor well(s) downgradient of monitor wells MW-13 and MW-14 and north of MW-11.

A *Stage 1 and Stage 2 Abatement Plan* was submitted to the NMOCD in October 2006. The NMOCD has accepted the Abatement Plan as administratively complete and public notice approval is pending.

LIMITATIONS

NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

DISTRIBUTION

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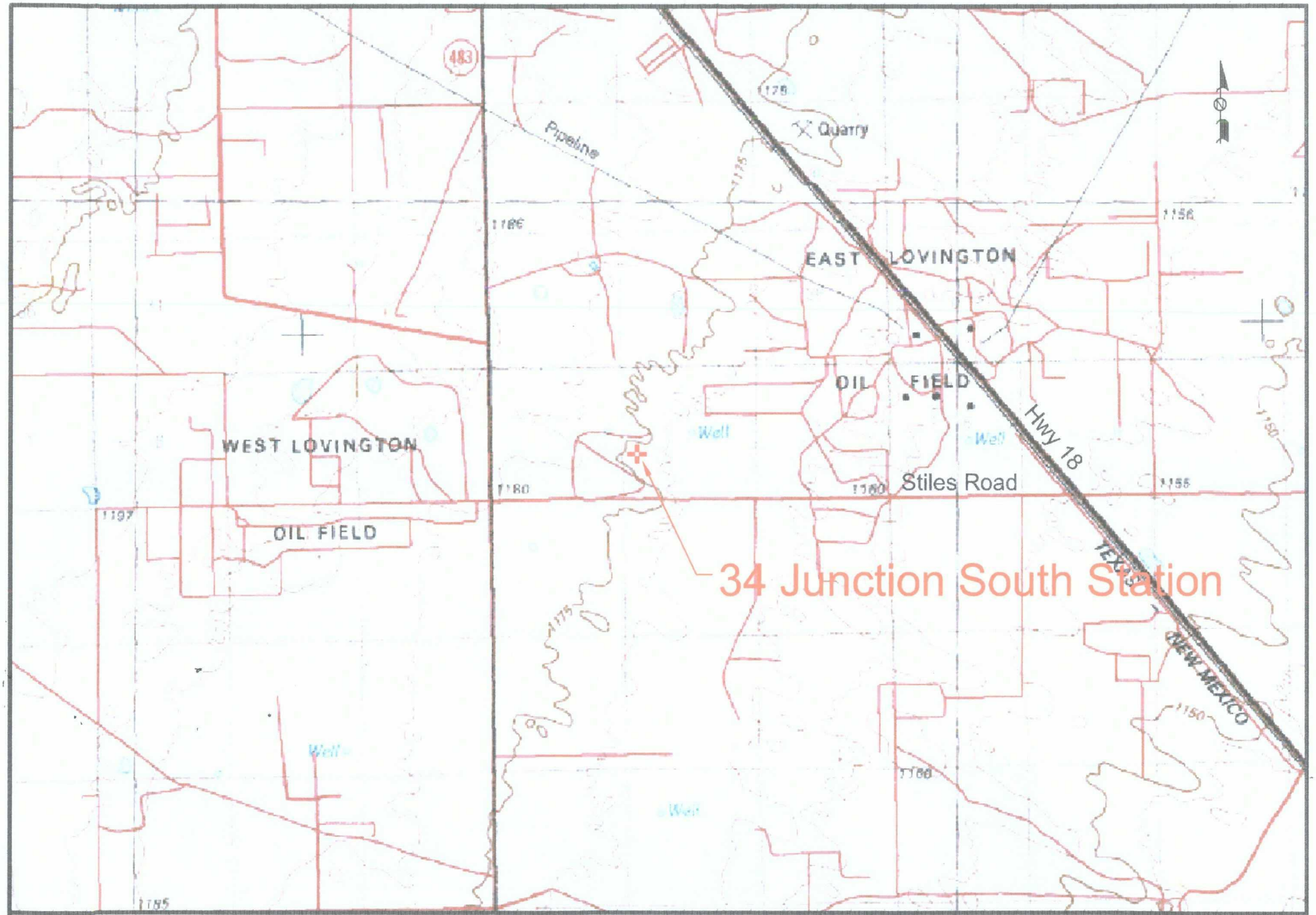
FIGURES



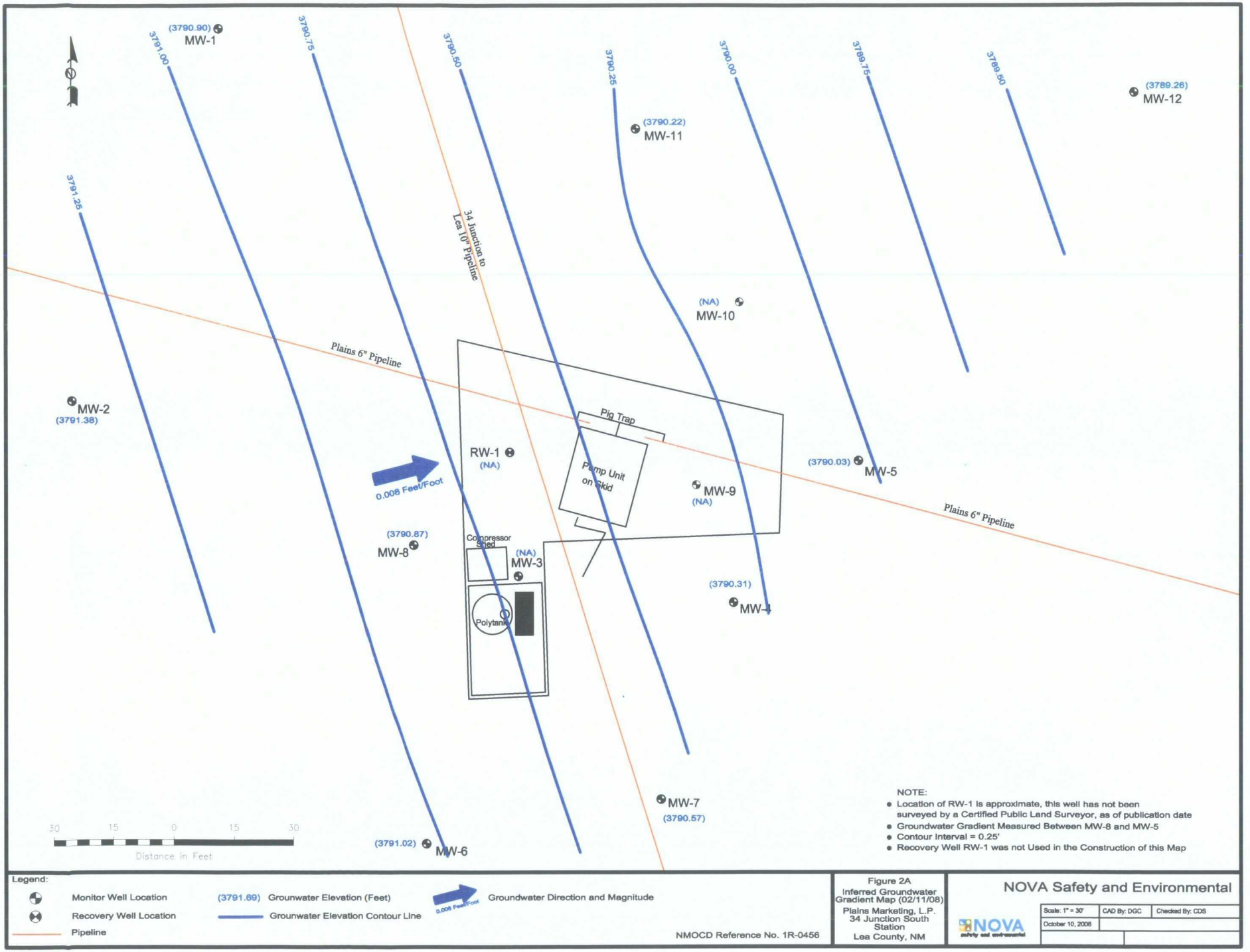
NMOCD Reference #1R-0456

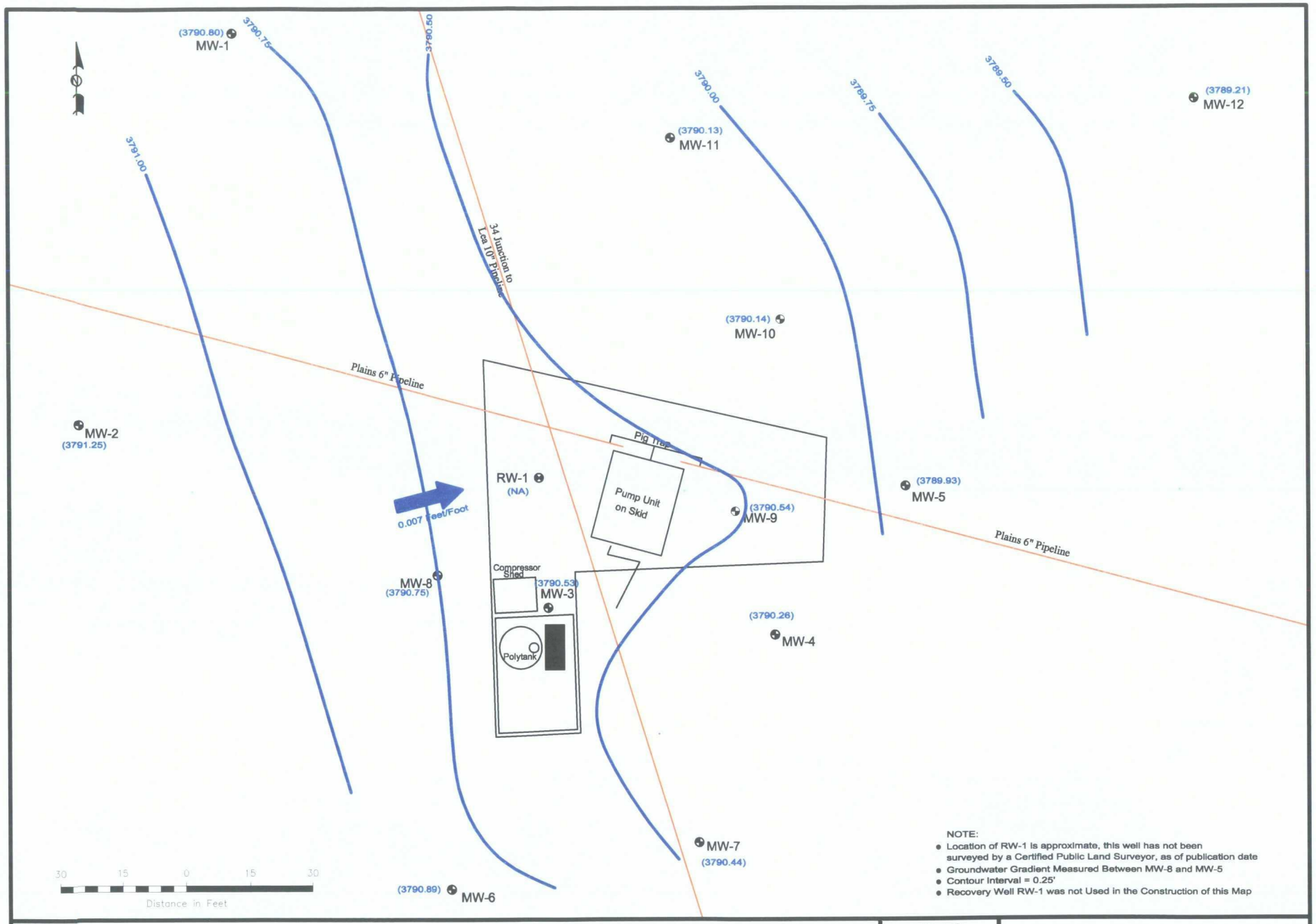
Figure 1
Site Location
Map
Plains Marketing, L.P.
34 Junction South
Station
Lea County, NM

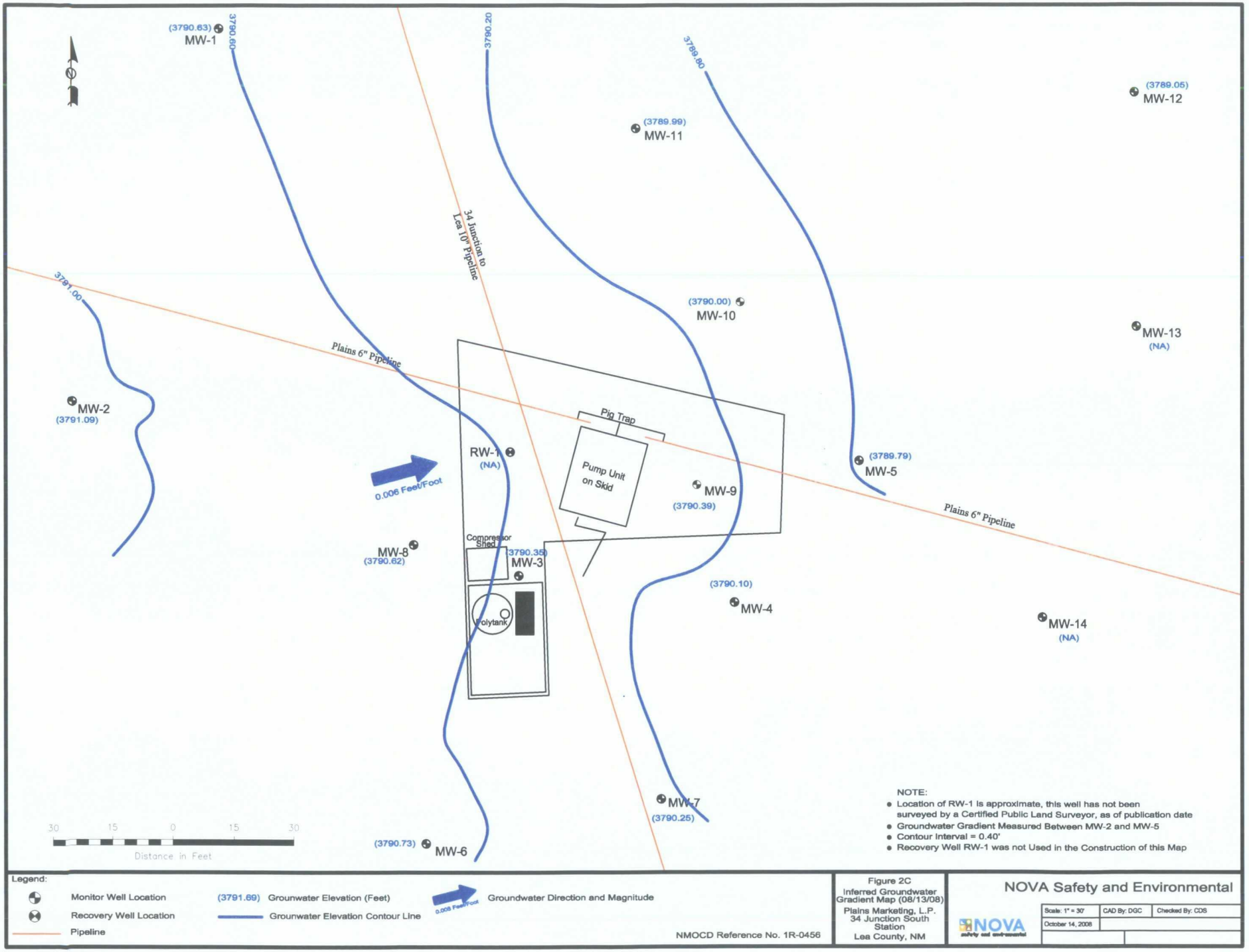
NOVA Safety and Environmemntal

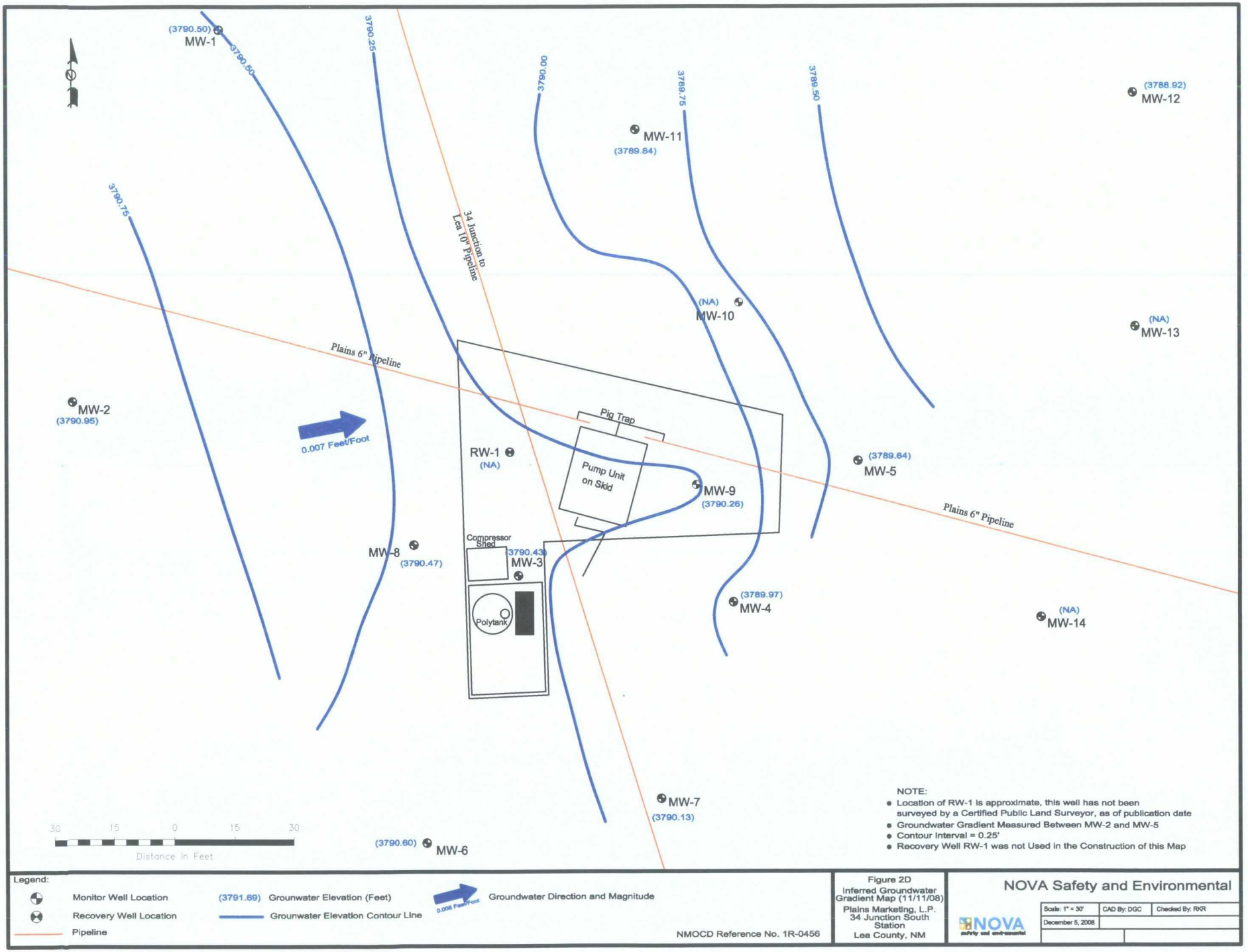
NOVA safety and environmental

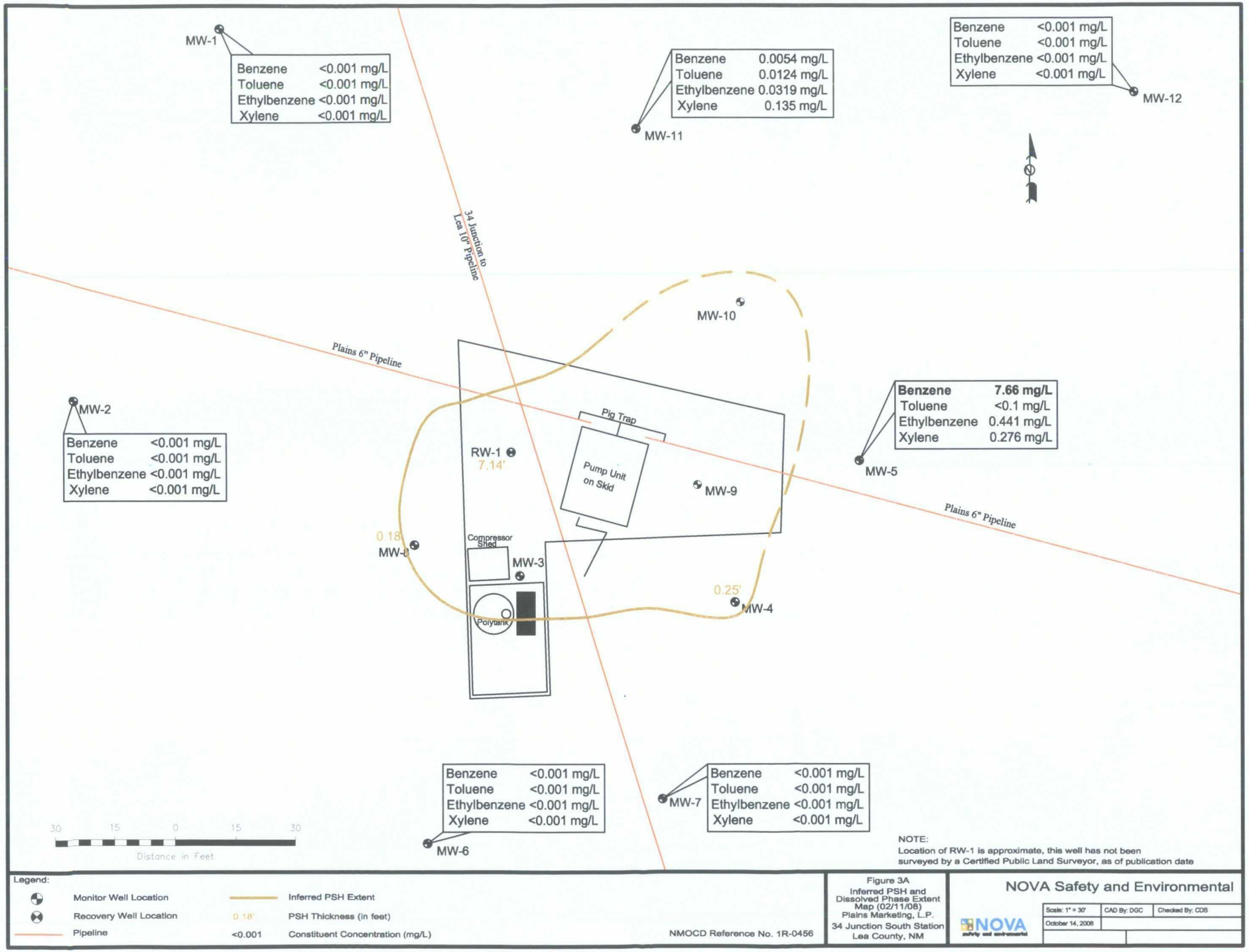
Scale: 1" = 4000'	Prep By: CDS	Checked By: TKC
October 17, 2008	Lat. 32° 51' 42.4"N Long. 103° 19' 54.4"	

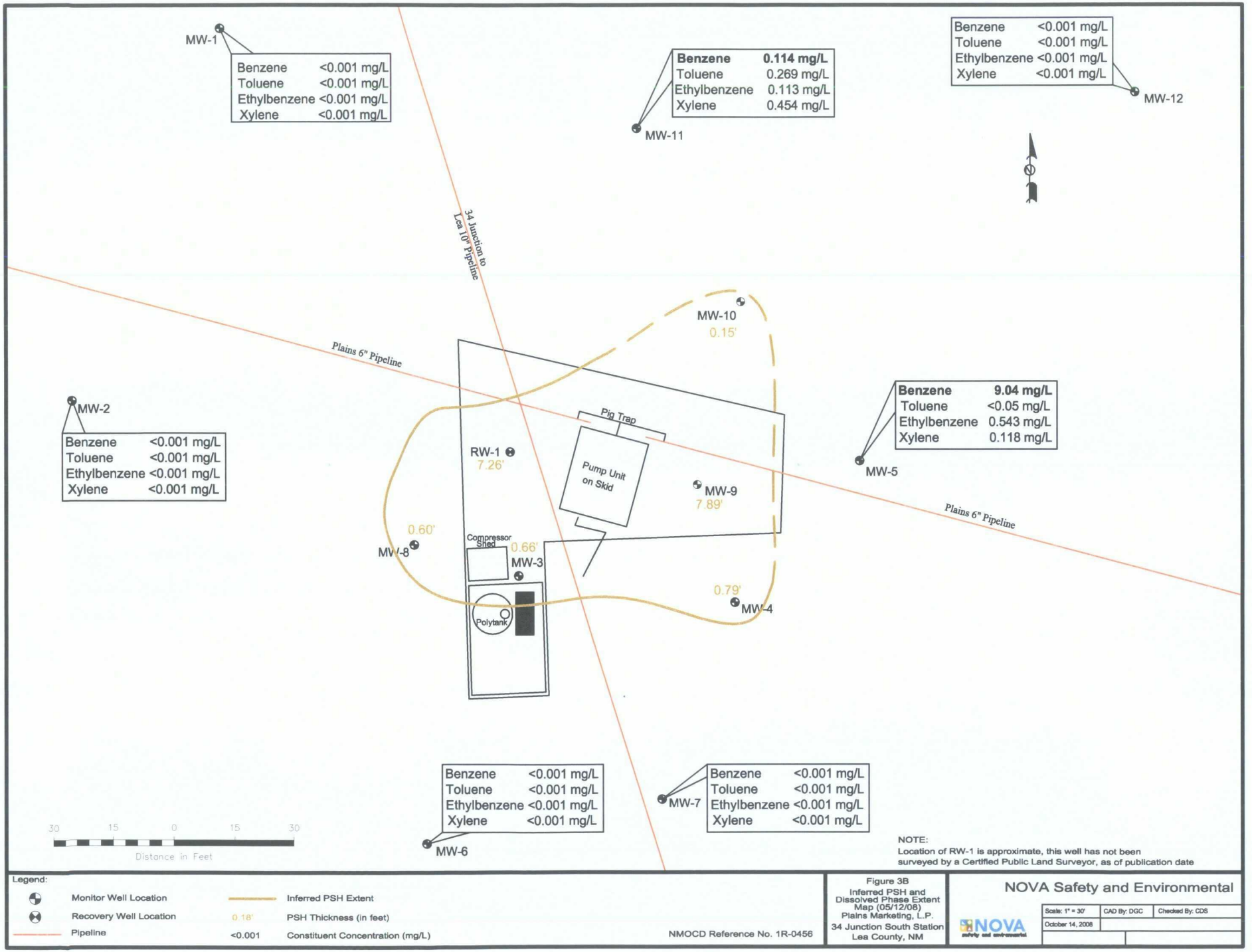

(3790.90)
MW-1
3791.00
3790.75
3790.50
3790.25
3790.00
3789.75
3789.50
(3789.26)
MW-12
(3790.22)
MW-11
3791.25
34 Junction to Lea 10" Pipeline
(NA)
MW-10
Plains 6" Pipeline
MW-2
(3791.38)
Pig Trap
RW-1
(NA)
Pump Unit on Skid
(3790.03)
MW-5
MW-9
(NA)
0.008 Feet/Foot
Plains 6" Pipeline
(3790.87)
MW-8
Compressor Shed
(NA)
MW-3
(3790.31)
MW-4
Polytank
MW-7
(3790.57)
30 15 0 15 30
Distance in Feet
(3791.02)
MW-6
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Groundwater Gradient Measured Between MW-8 and MW-5
Contour Interval = 0.25'
Recovery Well RW-1 was not Used in the Construction of this Map
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
(3791.69) Grounwater Elevation (Feet)
Grounwater Elevation Contour Line
0.008 Feet/Foot
Groundwater Direction and Magnitude
NMOCD Reference No. 1R-0456
Figure 2A
Inferred Groundwater Gradient Map (02/11/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 10, 2008

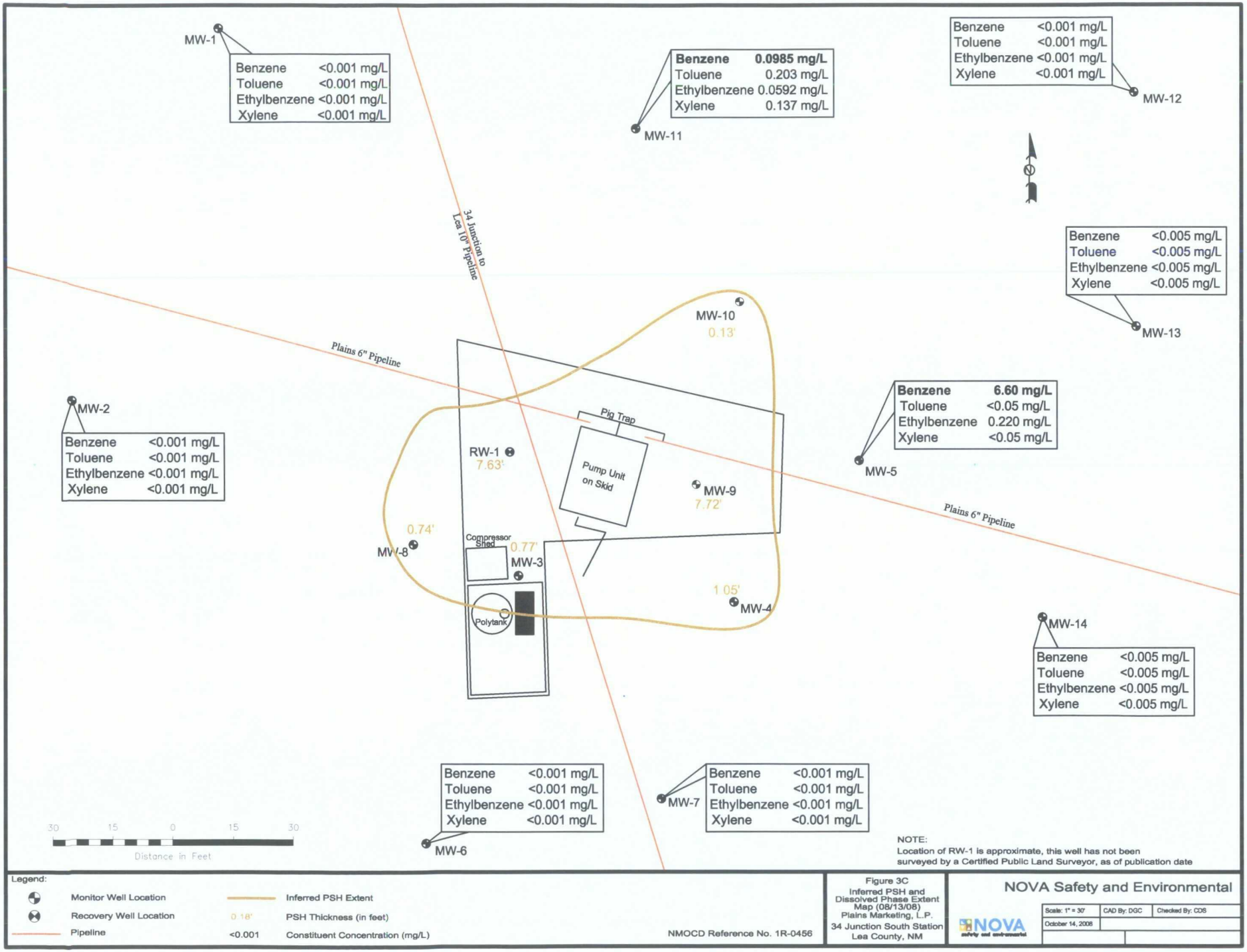

(3790.80)
MW-1
3790.75
3790.50
3790.00
3789.75
3789.50
(3789.21)
MW-12
(3790.13)
MW-11
3791.00
34 Junction to Lea 10" Pipeline
(3790.14)
MW-10
Plains 6" Pipeline
MW-2
(3791.25)
Pig Trap
RW-1
(NA)
Pump Unit on Skid
(3790.54)
MW-9
(3789.93)
MW-5
0.007 Feet/Foot
Plains 6" Pipeline
Compressor Shed
MW-8
(3790.75)
(3790.53)
MW-3
(3790.26)
MW-4
Polytank
MW-7
(3790.44)
(3790.89)
MW-6
30 15 0 15 30
Distance in Feet
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Groundwater Gradient Measured Between MW-8 and MW-5
Contour Interval = 0.25'
Recovery Well RW-1 was not Used in the Construction of this Map
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
(3791.69) Grounwater Elevation (Feet)
Grounwater Elevation Contour Line
0.008 Feet/Foot
Groundwater Direction and Magnitude
NMOCD Reference No. 1R-0456
Figure 2B
Inferred Groundwater Gradient Map (05/12/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 14, 2008

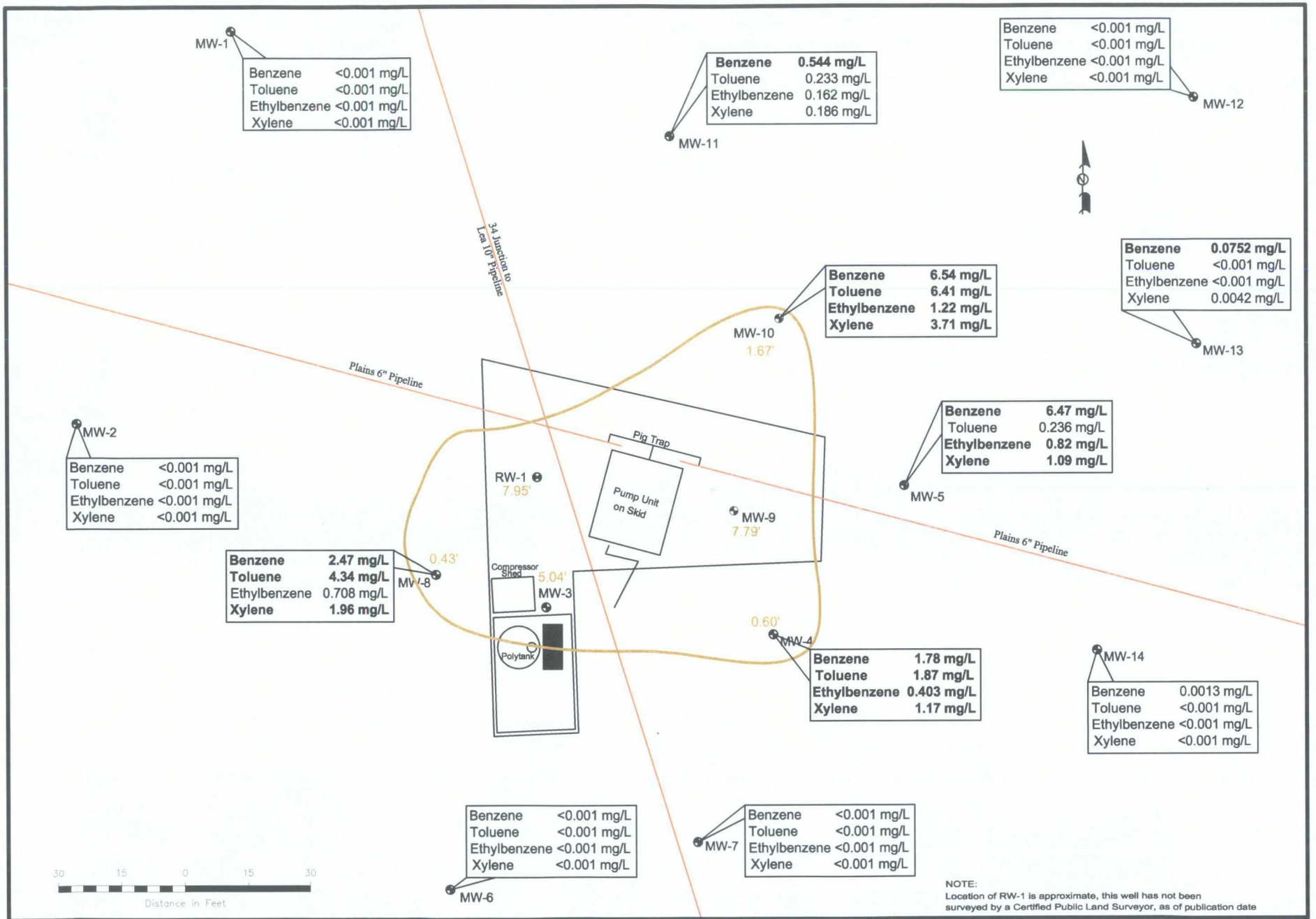

(3790.63)
MW-1
3790.60
3790.20
3789.80
(3789.05)
MW-12
(3789.99)
MW-11
34 Junction to
Lea 10" Pipeline
3791.00
(3790.00)
MW-10
MW-13
(NA)
Plains 6" Pipeline
MW-2
(3791.09)
Pig Trap
Pump Unit
on Skid
RW-1
(NA)
(3789.79)
MW-5
MW-9
(3790.39)
0.006 Feet/Foot
Plains 6" Pipeline
Compressor
Shed
MW-8
(3790.62)
(3790.35)
MW-3
(3790.10)
MW-4
Polytank
MW-14
(NA)
MW-7
(3790.25)
30 15 0 15 30
Distance in Feet
(3790.73)
MW-6
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Groundwater Gradient Measured Between MW-2 and MW-5
Contour Interval = 0.40'
Recovery Well RW-1 was not Used in the Construction of this Map
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
(3791.69) Grounwater Elevation (Feet)
Grounwater Elevation Contour Line
0.006 Feet/Foot
Groundwater Direction and Magnitude
NMOCD Reference No. 1R-0456
Figure 2C
Inferred Groundwater Gradient Map (08/13/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 14, 2008


(3790.50)
MW-1
3790.50
3790.25
3790.00
3789.75
3789.50
(3788.92)
MW-12
MW-11
(3789.84)
3790.75
34 Junction to Lea 10" Pipeline
(NA)
MW-10
(NA)
MW-13
Plains 6" Pipeline
MW-2
(3790.95)
0.007 Feet/Foot
Pig Trap
RW-1
(NA)
Pump Unit on Skid
MW-9
(3790.26)
(3789.64)
MW-5
Plains 6" Pipeline
Compressor Shed
MW-8
(3790.47)
(3790.43)
MW-3
Polytank
(3789.97)
MW-4
(NA)
MW-14
MW-7
(3790.13)
30 15 0 15 30
Distance in Feet
(3790.60)
MW-6
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Groundwater Gradient Measured Between MW-2 and MW-5
Contour Interval = 0.25'
Recovery Well RW-1 was not Used in the Construction of this Map
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
(3791.69) Grounwater Elevation (Feet)
Grounwater Elevation Contour Line
0.008 Feet/Foot
Groundwater Direction and Magnitude
NMOCD Reference No. 1R-0456
Figure 2D
Inferred Groundwater Gradient Map (11/11/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
NOVA safety and environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: RKR
December 5, 2008


MW-1
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-11
Benzene 0.0054 mg/L
Toluene 0.0124 mg/L
Ethylbenzene 0.0319 mg/L
Xylene 0.135 mg/L
MW-12
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
34 Junction to Lea 10" Pipeline
MW-10
Plains 6" Pipeline
MW-2
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
Pig Trap
RW-1
7.14'
Pump Unit on Skid
MW-9
MW-5
Benzene 7.66 mg/L
Toluene <0.1 mg/L
Ethylbenzene 0.441 mg/L
Xylene 0.276 mg/L
Plains 6" Pipeline
0.18'
MW-8
Compressor Shed
MW-3
0.25'
MW-4
Polytank
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-6
MW-7
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
30 15 0 15 30
Distance in Feet
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
Inferred PSH Extent
0.18' PSH Thickness (in feet)
<0.001 Constituent Concentration (mg/L)
NMOCD Reference No. 1R-0456
Figure 3A
Inferred PSH and Dissolved Phase Extent Map (02/11/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 14, 2008


MW-1
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-11
Benzene 0.114 mg/L
Toluene 0.269 mg/L
Ethylbenzene 0.113 mg/L
Xylene 0.454 mg/L
MW-12
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
34 Junction to Lea 10" Pipeline
Plains 6" Pipeline
MW-10
0.15'
MW-2
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
Pig Trap
RW-1
7.26'
Pump Unit on Skid
MW-9
7.89'
MW-5
Benzene 9.04 mg/L
Toluene <0.05 mg/L
Ethylbenzene 0.543 mg/L
Xylene 0.118 mg/L
Plains 6" Pipeline
0.60'
MW-8
Compressor Shed
0.66'
MW-3
0.79'
MW-4
Polytank
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-6
MW-7
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
30 15 0 15 30
Distance in Feet
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
Inferred PSH Extent
0.18' PSH Thickness (in feet)
<0.001 Constituent Concentration (mg/L)
NMOCD Reference No. 1R-0456
Figure 3B
Inferred PSH and Dissolved Phase Extent Map (05/12/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 14, 2008


MW-1
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-11
Benzene 0.0985 mg/L
Toluene 0.203 mg/L
Ethylbenzene 0.0592 mg/L
Xylene 0.137 mg/L
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-12
N
34 Junction to Lea 10" Pipeline
Benzene <0.005 mg/L
Toluene <0.005 mg/L
Ethylbenzene <0.005 mg/L
Xylene <0.005 mg/L
MW-13
MW-10
0.13'
Plains 6" Pipeline
Pig Trap
Pump Unit on Skid
RW-1
7.63'
MW-9
7.72'
Benzene 6.60 mg/L
Toluene <0.05 mg/L
Ethylbenzene 0.220 mg/L
Xylene <0.05 mg/L
MW-5
MW-2
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
Plains 6" Pipeline
0.74'
MW-8
Compressor Shed
0.77'
MW-3
1.05'
MW-4
Polytank
MW-14
Benzene <0.005 mg/L
Toluene <0.005 mg/L
Ethylbenzene <0.005 mg/L
Xylene <0.005 mg/L
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-6
MW-7
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
30 15 0 15 30
Distance in Feet
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
Inferred PSH Extent
0.18' PSH Thickness (in feet)
<0.001 Constituent Concentration (mg/L)
NMOCD Reference No. 1R-0456
Figure 3C
Inferred PSH and Dissolved Phase Extent Map (08/13/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: CDS
October 14, 2008


MW-1
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-11
Benzene 0.544 mg/L
Toluene 0.233 mg/L
Ethylbenzene 0.162 mg/L
Xylene 0.186 mg/L
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-12
34 Junction to Lea 10" Pipeline
Benzene 0.0752 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene 0.0042 mg/L
MW-13
Benzene 6.54 mg/L
Toluene 6.41 mg/L
Ethylbenzene 1.22 mg/L
Xylene 3.71 mg/L
MW-10
1.67'
Plains 6" Pipeline
MW-2
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
Pig Trap
RW-1
7.95'
Pump Unit on Skid
MW-9
7.79'
Benzene 6.47 mg/L
Toluene 0.236 mg/L
Ethylbenzene 0.82 mg/L
Xylene 1.09 mg/L
MW-5
Plains 6" Pipeline
Benzene 2.47 mg/L
Toluene 4.34 mg/L
Ethylbenzene 0.708 mg/L
Xylene 1.96 mg/L
0.43'
MW-8
Compressor Shed
5.04'
MW-3
0.60'
MW-4
Polytank
Benzene 1.78 mg/L
Toluene 1.87 mg/L
Ethylbenzene 0.403 mg/L
Xylene 1.17 mg/L
MW-14
Benzene 0.0013 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-6
Benzene <0.001 mg/L
Toluene <0.001 mg/L
Ethylbenzene <0.001 mg/L
Xylene <0.001 mg/L
MW-7
30 15 0 15 30
Distance in Feet
NOTE:
Location of RW-1 is approximate, this well has not been surveyed by a Certified Public Land Surveyor, as of publication date
Legend:
Monitor Well Location
Recovery Well Location
Pipeline
Inferred PSH Extent
0.18' PSH Thickness (in feet)
<0.001 Constituent Concentration (mg/L)
NMOCD Reference No. 1R-0456
Figure 3D
Inferred PSH and Dissolved Phase Extent Map (11/11/08)
Plains Marketing, L.P.
34 Junction South Station
Lea County, NM
NOVA Safety and Environmental
Scale: 1" = 30'
CAD By: DGC
Checked By: RKR
December 15, 2008

TABLES

TABLE 1

2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO. 1R-0456

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	*02/11/08*	3,850.68	-	59.78	0.00	3,790.90
MW - 1	*05/12/08*	3,850.68	-	59.88	0.00	3,790.80
MW - 1	*08/13/08*	3,850.68	-	60.05	0.00	3,790.63
MW - 1	*11/11/08*	3,850.68	-	60.18	0.00	3,790.50
MW - 2	*02/11/08*	3,850.67	-	59.29	0.00	3,791.38
MW - 2	*05/12/08*	3,850.67	-	59.42	0.00	3,791.25
MW - 2	*08/13/08*	3,850.67	-	59.58	0.00	3,791.09
MW - 2	*11/11/08*	3,850.67	-	59.72	0.00	3,790.95
MW - 3	*02/11/08*	3,850.43	Did Not Gauge			
MW - 3	*05/12/08*	3,850.43	59.80	60.46	0.66	3,790.53
MW - 3	*08/13/08*	3,850.43	59.96	60.73	0.77	3,790.35
MW - 3	10/02/08	3,850.43	60.09	63.64	3.55	3,789.81
MW - 3	*11/11/08*	3,850.43	59.24	64.28	5.04	3,790.43
MW - 4	01/04/08	3,850.26	59.75	60.21	0.46	3,790.44
MW - 4	01/10/08	3,850.26	59.92	60.22	0.30	3,790.30
MW - 4	01/16/08	3,850.26	59.79	60.36	0.57	3,790.38
MW - 4	01/18/08	3,850.26	59.81	60.30	0.49	3,790.38
MW - 4	01/22/08	3,850.26	59.84	60.34	0.50	3,790.35
MW - 4	02/07/08	3,850.26	59.92	60.67	0.75	3,790.23
MW - 4	*02/11/08*	3,850.26	59.91	60.16	0.25	3,790.31
MW - 4	02/20/08	3,850.26	59.85	60.28	0.43	3,790.35
MW - 4	02/27/08	3,850.26	59.86	60.39	0.53	3,790.32
MW - 4	03/13/08	3,850.26	59.82	60.72	0.90	3,790.31
MW - 4	03/20/08	3,850.26	59.82	60.53	0.71	3,790.33
MW - 4	03/22/08	3,850.26	59.86	60.52	0.66	3,790.30
MW - 4	04/03/08	3,850.26	59.88	60.47	0.59	3,790.29
MW - 4	04/09/08	3,850.26	59.91	60.48	0.57	3,790.26
MW - 4	04/16/08	3,850.26	59.91	60.40	0.49	3,790.28
MW - 4	04/23/08	3,850.26	59.90	60.46	0.56	3,790.28
MW - 4	05/01/08	3,850.26	59.89	60.70	0.81	3,790.25
MW - 4	*05/12/08*	3,850.26	59.88	60.67	0.79	3,790.26
MW - 4	05/29/08	3,850.26	59.94	60.71	0.77	3,790.20
MW - 4	06/06/08	3,850.26	59.07	60.65	1.58	3,790.95
MW - 4	06/11/08	3,850.26	60.02	60.47	0.45	3,790.17
MW - 4	06/18/08	3,850.26	59.59	60.64	1.05	3,790.51
MW - 4	06/24/08	3,850.26	60.00	60.66	0.66	3,790.16
MW - 4	07/01/08	3,850.26	60.02	60.56	0.54	3,790.16
MW - 4	07/15/08	3,850.26	60.06	60.57	0.51	3,790.12
MW - 4	07/23/08	3,850.26	60.03	60.74	0.71	3,790.12
MW - 4	08/02/08	3,850.26	60.02	60.83	0.81	3,790.12
MW - 4	*08/13/08*	3,850.26	60.00	61.05	1.05	3,790.10
MW - 4	09/11/08	3,850.26	59.95	61.57	1.62	3,790.07
MW - 4	09/22/08	3,850.26	60.10	60.98	0.88	3,790.03
MW - 4	10/02/08	3,850.26	60.08	60.92	0.84	3,790.05
MW - 4	10/17/08	3,850.26	60.16	60.94	0.78	3,789.98
MW - 4	10/21/08	3,850.26	60.20	60.70	0.50	3,789.99
MW - 4	*11/11/08*	3,850.26	60.20	60.80	0.60	3,789.97

TABLE 1

2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO. 1R-0456

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	*02/11/08*	3,849.77	-	59.74	0.00	3,790.03
MW - 5	*05/12/08*	3,849.77	-	59.84	0.00	3,789.93
MW - 5	*08/13/08*	3,849.77	-	59.98	0.00	3,789.79
MW - 5	*11/11/08*	3,849.77	-	60.13	0.00	3,789.64
MW - 6	*02/11/08*	3,851.10	-	60.08	0.00	3,791.02
MW - 6	*05/12/08*	3,851.10	-	60.21	0.00	3,790.89
MW - 6	*08/13/08*	3,851.10	-	60.37	0.00	3,790.73
MW - 6	*11/11/08*	3,851.10	-	60.50	0.00	3,790.60
MW - 7	*02/11/08*	3,847.03	-	56.46	0.00	3,790.57
MW - 7	*05/12/08*	3,847.03	-	56.59	0.00	3,790.44
MW - 7	*08/13/08*	3,847.03	-	56.78	0.00	3,790.25
MW - 7	*11/11/08*	3,847.03	-	56.90	0.00	3,790.13
MW - 8	01/04/08	3,851.00	60.30	60.49	0.19	3,790.67
MW - 8	01/10/08	3,851.00	60.23	60.24	0.01	3,790.77
MW - 8	01/16/08	3,851.00	60.06	60.30	0.24	3,790.90
MW - 8	01/18/08	3,851.00	60.10	60.17	0.07	3,790.89
MW - 8	01/22/08	3,851.00	60.09	60.23	0.14	3,790.89
MW - 8	02/07/08	3,851.00	60.36	60.51	0.15	3,790.62
MW - 8	*02/11/08*	3,851.00	60.10	60.28	0.18	3,790.87
MW - 8	02/20/08	3,851.00	60.06	60.44	0.38	3,790.88
MW - 8	02/27/08	3,851.00	60.10	60.44	0.34	3,790.85
MW - 8	03/13/08	3,851.00	60.06	60.74	0.68	3,790.84
MW - 8	03/20/08	3,851.00	60.11	60.47	0.36	3,790.84
MW - 8	03/22/08	3,851.00	60.12	60.46	0.34	3,790.83
MW - 8	04/03/08	3,851.00	60.10	60.64	0.54	3,790.82
MW - 8	04/09/08	3,851.00	60.17	60.47	0.30	3,790.79
MW - 8	04/16/08	3,851.00	60.15	60.53	0.38	3,790.79
MW - 8	04/23/08	3,851.00	60.15	60.58	0.43	3,790.79
MW - 8	05/01/08	3,851.00	60.14	60.73	0.59	3,790.77
MW - 8	*05/12/08*	3,851.00	60.16	60.76	0.60	3,790.75
MW - 8	05/29/08	3,851.00	60.20	60.67	0.47	3,790.73
MW - 8	06/06/08	3,851.00	60.21	60.72	0.51	3,790.71
MW - 8	06/11/08	3,851.00	60.24	60.58	0.34	3,790.71
MW - 8	06/18/08	3,851.00	60.23	60.66	0.43	3,790.71
MW - 8	06/24/08	3,851.00	60.26	60.64	0.38	3,790.68
MW - 8	07/01/08	3,851.00	60.25	60.68	0.43	3,790.69
MW - 8	07/15/08	3,851.00	60.31	60.62	0.31	3,790.64
MW - 8	07/23/08	3,851.00	60.28	60.73	0.45	3,790.65
MW - 8	08/02/08	3,851.00	60.31	60.80	0.49	3,790.62
MW - 8	*08/13/08*	3,851.00	60.27	61.01	0.74	3,790.62
MW - 8	09/11/08	3,851.00	60.24	61.33	1.09	3,790.60
MW - 8	09/22/08	3,851.00	60.34	60.99	0.65	3,790.56
MW - 8	10/02/08	3,851.00	60.39	60.94	0.55	3,790.53
MW - 8	10/17/08	3,851.00	60.43	60.79	0.36	3,790.52
MW - 8	10/21/08	3,851.00	60.45	60.79	0.34	3,790.50
MW - 8	*11/11/08*	3,851.00	60.47	60.90	0.43	3,790.47

TABLE 1

2008 - GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO. 1R-0456

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 9	*02/11/08*	3,851.04	Did Not Gauge			
MW - 9	*05/12/08*	3,851.04	59.32	67.21	7.89	3,790.54
MW - 9	06/06/08	3,851.04	59.37	67.22	7.85	3,790.49
MW - 9	*08/13/08*	3,851.04	59.49	67.21	7.72	3,790.39
MW - 9	*11/11/08*	3,851.04	59.61	67.40	7.79	3,790.26
MW - 10	01/04/08	3,851.07	60.33	62.49	2.16	3,790.42
MW - 10	01/10/08	3,851.07	60.70	60.90	0.20	3,790.34
MW - 10	01/16/08	3,851.07	60.73	60.90	0.17	3,790.31
MW - 10	*02/11/08*	3,851.07	Did Not Gauge			
MW - 10	*05/12/08*	3,851.07	60.91	61.06	0.15	3,790.14
MW - 10	06/06/08	3,851.07	60.71	62.09	1.38	3,790.15
MW - 10	*08/13/08*	3,851.07	61.05	61.18	0.13	3,790.00
MW - 10	*11/11/08*	3,851.07	59.98	61.65	1.67	3,790.84
MW - 11	*02/11/08*	3,850.96	-	60.74	0.00	3,790.22
MW - 11	*05/12/08*	3,850.96	-	60.83	0.00	3,790.13
MW - 11	*08/13/08*	3,850.96	-	60.98	0.00	3,789.98
MW - 11	*11/11/08*	3,850.96	-	61.12	0.00	3,789.84
MW - 12	*02/11/08*	3,850.45	-	61.19	0.00	3,789.26
MW - 12	*05/12/08*	3,850.45	-	61.24	0.00	3,789.21
MW - 12	*08/13/08*	3,850.45	-	61.40	0.00	3,789.05
MW - 12	*11/11/08*	3,850.45	-	61.53	0.00	3,788.92
MW - 13	*08/13/08*			61.22		
MW - 13	*08/22/08*			61.38		
MW - 13	*08/26/08*			61.38		
MW - 13	*11/11/08*			61.50		
MW - 14	*08/13/08*			61.37		
MW - 14	*08/22/08*			61.22		
MW - 14	*08/26/08*			61.22		
MW - 14	*11/11/08*			61.35		
RW - 1	01/16/08	-	58.42	64.78	6.36	-
RW - 1	*02/11/08*	-	Did Not Gauge			
RW - 1	*05/12/08*	-	58.40	65.66	7.26	-
RW - 1	06/06/08	-	58.41	65.76	7.35	
RW - 1	*08/13/08*	-	58.48	66.11	7.63	
RW - 1	10/21/08	-	58.50	66.44	7.94	
RW - 1	*11/11/08*	-	58.52	66.47	7.95	

TABLE 2

2008 - CONCENTRATIONS OF BENZENE AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO. 1R-0456

SAMPLE LOCATION	SAMPLE	EPA SW 846-8015M		METHODS: EPA SW 846-8021B				
		GRO C_6-C_{12}	DRO >C_{12}-C35	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
NMOCD REGULATORY STANDARD				0.0100	0.7500	0.7500	TOTAL XYLENES 0.62	
MW-1	*02/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-1	*05/12/08*			<0.001	<0.001	<0.001	<0.001	
MW-1	*08/13/08*			<0.001	<0.001	<0.001	<0.001	
MW-1	*11/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-2	*02/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-2	*05/12/08*			<0.001	<0.001	<0.001	<0.001	
MW-2	*08/13/08*			<0.001	<0.001	<0.001	<0.001	
MW-2	*11/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-3	*02/11/08*			Not sampled Due to PSH in Well				
MW-3	*05/12/08*			Not sampled Due to PSH in Well				
MW-3	*08/13/08*			Not sampled Due to PSH in Well				
MW-3	*11/11/08*			Not sampled Due to Insufficient Water Volume				
MW-4	*02/11/08*			Not sampled Due to PSH in Well				
MW-4	*05/12/08*			Not sampled Due to PSH in Well				
MW-4	*08/13/08*			Not sampled Due to PSH in Well				
MW-4	*11/11/08*	33.80	48.70	**1.780**	**1.870**	0.4030	**1.170**	
MW-5	*02/11/08*			**7.660**	<0.100	0.4410	0.2760	
MW-5	*05/12/08*			**9.040**	<0.0500	0.5430	0.1180	
MW-5	*08/13/08*			**6.600**	<0.0500	0.2200	<0.0500	
MW-5	*11/11/08*			**6.470**	0.2360	0.820	**1.090**	
MW-6	*02/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-6	*05/12/08*			<0.001	<0.001	<0.001	<0.001	
MW-6	*08/13/08*			<0.001	<0.001	<0.001	<0.001	
MW-6	*11/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-7	*02/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-7	*05/12/08*			<0.001	<0.001	<0.001	<0.001	
MW-7	*08/13/08*			<0.001	<0.001	<0.001	<0.001	
MW-7	*11/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-8	*02/11/08*			Not sampled Due to PSH in Well				
MW-8	*05/12/08*			Not sampled Due to PSH in Well				
MW-8	*08/13/08*			Not sampled Due to PSH in Well				
MW-8	*11/11/08*	27.50	222.0	**2.470**	**4.340**	0.7080	**1.960**	

TABLE 2

2008 - CONCENTRATIONS OF BENZENE AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NO. 1R-0456

SAMPLE LOCATION	SAMPLE	EPA SW 846-8015M		METHODS: EPA SW 846-8021B				
		GRO C_6-C_{12}	DRO >C_{12}-C35	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
NMOCD REGULATORY STANDARD				0.0100	0.7500	0.7500	TOTAL XYLENES 0.62	
MW-9	*02/11/08*			Not sampled Due to PSH in Well				
MW-9	*05/12/08*			Not sampled Due to PSH in Well				
MW-9	*08/13/08*			Not sampled Due to PSH in Well				
MW-9	*11/11/08*			Not sampled Due to Insufficient Water Volume				
MW-10	*02/11/08*			Not sampled Due to PSH in Well				
MW-10	*05/12/08*			Not sampled Due to PSH in Well				
MW-10	*08/13/08*			Not sampled Due to PSH in Well				
MW-10	*11/11/08*	89.80	284.0	**6.540**	**6.410**	**1.220**	**3.710**	
MW-11	*02/11/08*			0.0054	0.0124	0.0319	0.1350	
MW-11	*05/12/08*			**0.1140**	0.2690	0.1130	0.4540	
MW-11	*08/13/08*			**0.0985**	0.2030	0.0592	0.1370	
MW-11	*11/11/08*			**0.5440**	0.2330	0.1620	0.1860	
MW-12	*02/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-12	*05/12/08*			<0.001	<0.001	<0.001	<0.001	
MW-12	*08/13/08*			<0.001	<0.001	<0.001	<0.001	
MW-12	*11/11/08*			<0.001	<0.001	<0.001	<0.001	
MW-13	*08/13/08*			<0.005	<0.005	<0.005	<0.005	
MW-13	*11/11/08*			**0.0752**	<0.001	<0.001	0.0042	
MW-14	*08/13/08*			<0.005	<0.005	<0.005	<0.005	
MW-14	*11/11/08*			0.0013	<0.001	<0.001	<0.001	
RW-1	*02/11/08*			Not sampled Due to PSH in Well				
RW-1	*05/12/08*			Not sampled Due to PSH in Well				
RW-1	*08/13/08*			Not sampled Due to PSH in Well				
RW-1	*11/11/08*			Not sampled Due to Insufficient Water Volume				

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0456

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	—	**0.0001 mg/L**	**0.0007 mg/L**	**0.0002 mg/L**	—	**0.0002 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	—	—	**0.0004 mg/L**	**0.03 mg/L**	—	—	**0.03 mg/L**		—
MW-1	11/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-2	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-4	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0136	<0.000184	**0.0853**	0.0149	<0.000184	**0.177**	**0.222**	<0.000184
MW-5	11/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000526	<0.000183	0.00143	0.00042	<0.000183	0.00401	0.0032	0.000337
MW-6	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-7	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-8	11/11/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	0.0332	<0.000922	**0.124**	0.0301	<0.000922	**0.270**	**0.334**	<0.000922
MW-10	11/11/08	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	<0.000962	0.0618	<0.000962	**0.308**	0.0709	<0.000962	**0.773**	**0.987**	0.0194
MW-11	11/11/08	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192
MW-12	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.
34 JUNCTION SOUTH STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0456

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	—	0.0001 mg/L	0.0007 mg/L	0.0002 mg/L	—	0.0002 mg/L	0.0002 mg/L	0.0003 mg/L	—	—	0.0004 mg/L	0.03 mg/L	—	—	0.03 mg/L		—
MW-13	11/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-14	11/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183

APPENDICES

APPENDIX A:
Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name 34 Junction South Station	Facility Type Meter Facility

Surface Owner State Land Office	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	2	17S	36E					Lea

Latitude 32° 51'42.4" **Longitude** 103° 19'54.4"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 15 barrels	Volume Recovered .5 barrels
Source of Release Malfunction of check valve on air eliminator	Date and Hour of Occurrence 6-10-05 @ 07:00	Date and Hour of Discovery 6-10-05 @ 07:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheely	
By Whom? Camille Reynolds	Date and Hour 6-10-05 @ 13:31	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Mechanical malfunction of check valve on air eliminator resulted in release. Isolated air eliminator off of metering system. The station produces approximately 100 barrels of sweet crude oil per day. The pressure on the line is <10 psi and the gravity on the sweet crude is 42.5, the H2S content is <10 ppm.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 1,620 square feet.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Camille Reynolds	OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: / Attached ☐
Date: 6-13-05 Phone:505-441-0965	

* Attach Additional Sheets If Necessary