



TRANSWESTERN PIPELINE COMPANY  
An ENERGY TRANSFER Company

March 23, 2015

Mr. Dave Cobrain  
New Mexico Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6313

**RE: Submittal of 2014 Groundwater Remediation Activities  
For the Former Surface Impoundments Annual Report**  
Roswell Compressor Station No. 9  
Transwestern Pipeline Company, LLC  
Roswell, Chavez County, New Mexico  
NMOCD Case #GW-052/EPA ID NO. NMD986676955

Dear Messrs. Cobrain and von Gonten:

In general accordance with *Section IX – Reporting Requirements* of the March 2013 *Stipulated Final Order* for Transwestern Pipeline Company, LLC's (Transwestern) Roswell Compressor Station No. 9 (Site), attached for your review is the *2014 Groundwater Remediation Activities for the Former Surface Impoundments Annual Report* for the site.

If you have any questions or comments regarding this submission, please do not hesitate to contact me at 210.870.2725 (office) or JD Haines of EarthCon Consultants, Inc. at (317) 450-6126.

Sincerely,

Stacy Boultinghouse, PG<sub>(TX4889/LA73)</sub>  
Environmental Specialist  
Transwestern Pipeline Company, LLC  
Stacy.Boultinghouse@energytransfer.com

Attachment: 2014 Groundwater Remediation Activities for the Former Surface Impoundments Annual Report

cc: Neelam Dhawan, Hazardous Waste Bureau, New Mexico Environment Department  
Vicky Baca, Hazardous Waste Bureau, New Mexico Environment Department  
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Richard Spell - Transwestern Pipeline Company (Houston, TX)  
Larry Campbell - Transwestern Pipeline Company (Roswell, NM)  
JD Haines - EarthCon Consultants, Inc.

**REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
FORMER SURFACE IMPOUNDMENTS  
TRANSWESTERN COMPRESSOR STATION NO. 9  
(ROSWELL COMPRESSOR STATION)  
6381 NORTH MAIN STREET  
ROSWELL, CHAVES COUNTY, NEW MEXICO  
NMOCD GW-052  
NMED 1656; EPA ID NMD986676955**

**PREPARED FOR:**

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**EarthCon Project No. 02.20120037.00**

**March 23, 2015**

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**Report of 2014 Groundwater Remediation Activities  
Former Surface Impoundments  
Transwestern Compressor Station No. 9  
(Roswell Compressor Station)  
6381 North Main Street  
Roswell, Chaves County, New Mexico  
NMOCD GW-052  
NMED 1656; EPA ID NMD986676955**

**Prepared For:**

**Transwestern Pipeline Company, LLC  
1300 Main  
Houston, TX 77002**

**March 23, 2014**

**EarthCon Project No. 02.20120037.00**

EarthCon Consultants, Inc. is submitting to Transwestern Pipeline Company, LLC (Transwestern) this *Report of 2014 Groundwater Remediation Activities* for the Roswell Compressor Station in Chaves County, New Mexico. This report has been prepared for the exclusive use of and reliance by Transwestern, and may not be relied upon by any other person or entity without the express written authorization of EarthCon.

Any reliance, use, or re-use of this document (or the opinions, findings, conclusions, or recommendations if any represented herein), by parties other than those expressly authorized by EarthCon is at the sole risk of those parties. This report was prepared by or performed under the direction of the EarthCon Professionals listed below and approved by Transwestern.

Signed:

A handwritten signature in blue ink that reads "Stephanie Williams".

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Stephanie Saia Williams, EIT (AL)  
Staff Engineer  
EarthCon Consultants, Inc.

A handwritten signature in black ink, appearing to read "J.D. Haines".

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J.D. Haines, LPG (Indiana)  
Principal Geologist  
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Date: March 27, 2015

Report of 2014 Groundwater Remediation Activities  
Former Surface Impoundments  
Transwestern Compressor Station No. 9  
(Roswell Compressor Station)  
6381 North Main Street  
Roswell, Chaves County, New Mexico  
NMOC DGW-052  
NMED 1656; EPA ID NMD986676955

Prepared For:

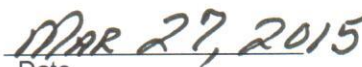
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March 23, 2015

Certification Statement  
40 CFR 270.11(d)(1)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
Richard A. Spell  
Waste, Water, & Remediation Manager  
Transwestern Pipeline Company, LLC

  
Date

## EXECUTIVE SUMMARY

This *Report of 2014 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) for the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property located at 6381 North Main Street in Roswell, New Mexico. On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Order (SO) that governs activities associated with the Former Surface Impoundments. Therefore, this annual groundwater report was developed in general accordance with *Section IX – Reporting Requirements* of the SO.

The remediation system in operation at the Roswell Compressor Station consists of soil vapor extraction (SVE) and treatment, and groundwater/phase separated hydrocarbon (PSH) recovery and treatment using multiphase extraction (MPE). The recovery system well network currently consists of twelve SVE-only wells and 35 MPE wells. A network of 30 monitoring wells (29 installed in the Uppermost Aquifer and one installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

During 2014, the SVE portion of the recovery system operated until early-February, in order to complete expansion and optimization of the system, and the groundwater/PSH recovery portion operated from mid-July to mid-October. The SVE system was shut down in early-February in order to include that portion of the system in the air permit renewal for the facility. Following receipt of the air permit, difficulties in operating the Baker Thermal Oxidizers kept the system shut down through the remainder of the year. The groundwater portion of the system was shut down in mid-October due to cold weather and the potential for that system to freeze.

As part of remediation system operation monthly recovered water samples were collected at different stages of the treatment train to assess treatment efficiency and compliance with discharge requirements; and semiannual groundwater sampling was conducted in April and November to assess groundwater conditions.

The groundwater/PSH recovery system recovered, treated and discharged 111,840 gallons of groundwater and recovered approximately 1,890 gallons of PSH. Groundwater was treated and dispersed on-site via a permitted irrigation system; analytical data indicated that

the Discharge Permit NMOCD GW-052 requirements were met. PSH accumulated in 2014 was removed and sent off-site for recycling, at a permitted facility.

Consistent with previous year's observations the April and November 2014 gauging data identified Northern and a Southeastern components of groundwater flow from a groundwater divide in the vicinity of the former surface impoundments in the Uppermost Aquifer beneath the Project Area.

Analytical data from the semiannual groundwater monitoring events indicated that only Benzene and 1,1-Dichloroethene (1,1-DCE) were detected at concentrations exceeding the applicable cleanup levels, and that delineation to applicable New Mexico Water Quality Control Commission's (NMWQCC) standards and the EPA Maximum Contaminant Levels (MCLs) is maintained within the existing monitoring network.

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## 1.0 INTRODUCTION

This *Report of 2014 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) to document on-going corrective actions associated with the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property, located at 6381 North Main Street in Roswell, New Mexico (see **Figure 1-1, Site Location Map**). For the purposes of this report, the term “Facility” will be used to denote the entire compressor station and “Project Area” will be used to refer to the remediation area including the northeastern corner of the compressor station and the adjacent land leased from the State of New Mexico Trust (see **Figure 1-2, Site Features**).

On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Order (SO) that governs activities conducted within the Project Area. Therefore, this document was developed in general accordance with *Section IX – Reporting Requirements* of the SO.

The Facility is an active natural gas compression station, owned and operated by Transwestern, located approximately 8 miles north of the city center of Roswell, New Mexico along the eastern side of U.S. Highway 285. The Facility occupies approximately 77 acres of land in Section 21 (SW¼ of the SW¼) and Section 28 (NW¼ of the NW¼) of Township 9S and Range 24E, Chaves County, New Mexico (see **Figure 1-1**). Access is via U.S. Highway 285, and the entire Facility is secured by a chain-link fence with locked gates.

The Project Area encompasses a portion of the northwest corner of the Facility, and extends off-site to the northeast and east of the Facility on a portion of a 40-acre easement leased from the New Mexico State Land Office (SLO) State Trust Land for remediation and monitoring purposes (see **Figure 1-2**). A majority of the off-site extraction and monitoring wells are located within a fenced perimeter.

The Facility is located along the Transwestern natural gas pipeline that extends from Texas to the Arizona/California border, and serves as the district offices for Transwestern's New Mexico operations. The compressor station services two 30-inch Mainlines and two 24-inch Lateral pipelines. The primary function of the compressor station is to boost the pressure of the natural gas stream by means of compressors powered by natural gas-fueled internal combustion engines. Additionally, the Facility conducts gas transmission line maintenance operations that generate

waste hydrocarbons, including condensate, pigging and other wastes, which were historically discharged to the Former Surface Impoundments (also referred to as Pits 1 and 2). Wastes generated by current pipeline maintenance activities are temporarily stored in aboveground storage tanks at the Facility for off-site recycling.

Following removal of waste from the Former Surface Impoundments and backfilling with clean soil in 2001, a soil and groundwater remediation system was designed and installed to address dissolved and phase separated hydrocarbons (PSH) detected in groundwater.

The remediation system consists of soil vapor extraction (SVE) and treatment, and groundwater/PSH recovery and treatment (see remediation system layout and components in **Figures 1-3 and 1-4**). Soil vapor is extracted via SVE-only wells and Multi-Phase Extraction (MPE) wells; with the extracted vapors routed to two Baker Furnace thermal oxidizer units for treatment. Groundwater and PSH are recovered via 14 pneumatic pumps installed in MPE wells; the recovered fluids are conveyed to a 90-barrel aboveground storage tank that serves as surge tank and separation unit. Separated groundwater is conveyed to a treatment train consisting of an air stripper, followed by two granulated activated carbon (GAC) units in series. The treated water is then conveyed to an irrigation water tank for dispersal via a permitted irrigation system (Discharge Permit GW-052). PSH separated in the surge tank is removed and sent off-site to a permitted facility for recycling. The SVE portion of the system began operation in March 2003, while operation of the groundwater/PSH recovery portion of the system began operation in April 2004.

The recovery system well network currently consists of twelve SVE-only wells and 35 MPE wells. Currently, a network of 30 monitoring wells (29 installed in the Uppermost Aquifer and one installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

Typically, the SVE portion of the system operates continuously, and groundwater/PSH recovery occurs from spring to fall, with brief shutdowns for repair and maintenance. In addition, the system is shutdown for 48 to 72 hours in preparation for semiannual monitoring. During 2014 the SVE system was shutdown on February 10, 2014. This shutdown was initiated in order to: 1) complete expansion of the soil vapor extraction and groundwater extraction systems to the four new extraction wells installed at the facility in 2013, 2) evaluate and optimize portions of the system already in place, 3) protect the safety of our subcontractors during this process, and 4)

renew the air permit for the augmented system. Air permit received final approval on October 10, 2014, however, since there were difficulties in bringing the Baker Thermal Oxidizers on-line, the system remained shut down through the end of 2014.

During the week of June 30, 2014, the following construction activities took place on site:

- Abandon and remove underground piping for former MPE-1 through MPE-6;
- Dismantle manifold headers for former MPE-1 through MPE-6;
- Install vapor extraction, air, and fluid discharge liens to connect MPE-38 through MPE-41;
- Install leak detector tape for new lines to MPE-38 through MPE-41;
- Install manifold headers for MPE-38 through MPE-41; and,
- Backfill excavations (piping abandonment) to original grade.

This report documents groundwater remediation and monitoring activities conducted at the Project Area during year 2014. Field activities were conducted by CMB Environmental & Geologic Services, Inc. (CMB) of Roswell, New Mexico. Document organization is as follows: **Section 1** (this section) contains introductory information; **Section 2** lists the scope of activities documented; **Section 3** identifies the regulatory criteria used in the data evaluations; **Section 4** describes semiannual groundwater monitoring results; **Section 5** summarizes recovery system monitoring results; and **Section 6** provides summary and conclusions for the reporting period. Tables, figures, and appendices follow the text of the report.

## 2.0 SCOPE OF ACTIVITIES

The remediation system is monitored 5 to 7 days a week to assess for continued operation of components, identify maintenance needs, and for early detection of potential leaks. As part of remediation system operation the following sampling activities were conducted in 2014:

- During operation of the PSH recovery system, water samples were recovered monthly and collected at different stages of the treatment train to assess treatment efficiency and compliance with discharge requirements;

- Semiannual groundwater sampling was conducted in April/May and November/December, per the existing *Groundwater Monitoring and Sampling Plan* to assess groundwater conditions.

### 3.0 REGULATORY CRITERIA

Groundwater Cleanup Levels were identified for the purpose of evaluating analytical data for groundwater samples collected during the semiannual sampling events, in accordance with Section VI.A. of the March 2013 SO for the Facility. The groundwater cleanup levels shown in **Table 4-4** were identified as described in the following paragraphs.

Cleanup Levels for the target *constituents of concern (COCs)* were identified using the New Mexico Water Quality Control Commission's (NMWQCC) standards and the EPA Maximum Contaminant Levels (MCLs). Where standards exist in both regulations; the lower of the two concentrations was used. If neither a NMWQCC standard nor an MCL was established for a COC, then the cleanup level was identified as the screening level for tap water in Table A-1 of the February 2012 NMED *Risk Assessment Guidance for Site Investigation and Remediation*, or the EPA Region 6 Screening Levels for tap water.

In accordance with the January 2012 Discharge Permit (GW-052) for the Facility, the analytical data for effluent samples from the groundwater treatment system were evaluated by comparison against the NMWQCC standards of 10 ug/L for Benzene, 750 ug/L for Ethylbenzene and Toluene, and of 620 ug/L for Xylenes.

### 4.0 GROUNDWATER MONITORING & CHEMICAL ANALYTICAL DATA RESULTS

The water bearing units at the site consist of a Perched Aquifer within the area of the former Surface Impoundments, an Uppermost Aquifer within which most of the monitoring and remedial activities take place, and the deeper San Andres Formation Aquifer. To-date, the deeper San Andres Formation Aquifer has not been impacted by the release associated with the former Surface Impoundments. A network of 30 monitoring wells, of which 29 are installed in the Uppermost Aquifer and one installed in the deeper regional San Andres Formation Aquifer, is used to assess

groundwater conditions within the Project Area. Well locations are illustrated in **Figure 1-5** and a summary of well construction information is provided in **Table 4-1**.

In April/May and November 2014, groundwater gauging and sampling activities were conducted by CMB. In order to allow for the groundwater levels to stabilize, the remediation system was shutdown for a period of 48 to 72 hours, prior to gauging and sampling. Copies of the field documentation for these monitoring events are included in **Appendix A**.

Groundwater elevations shown in **Table 4-2** were calculated using the May and November 2014 gauging data and top-of-casing data from a survey conducted by PR Patton & Associates in October 2013. The groundwater elevation maps for the Uppermost Aquifer presented in **Figures 4-1 and 4-2** indicates that groundwater beneath the Project Area flows to both the north and the southeast from a groundwater divide near the northeast corner of the Facility, indicating the presence of a complex water-bearing unit with areas of preferential flow. This pattern is consistent with previous years' observations. It should be noted, that some wells were not used in the contouring on the potentiometric maps due to inconsistencies in the water levels obtained from those locations.

Based on the November 2014 gauging data, a groundwater gradient of 0.015 ft/ft was calculated for the Northern component of groundwater flow, between monitoring wells MW-12 and MW-40, while a gradient of 0.005 ft/ft was calculated for the Southeastern component of groundwater flow, between monitoring wells MW-16 and MW-35. A review of historical gauging data for the current monitoring wells in **Table 4-2** indicates that between 2009 and 2014 the Uppermost Aquifer has experienced an overall drop in water level ranging from 0.02 ft in MW-21 to 5.02 ft in MW-7, with a general average drop of 1.18 ft. The water level in MW-24D, installed in the regional aquifer has experienced a drop of 4.29 ft between 2009 and 2014.

A review of gauging data in **Table 4-2** indicates that for the November 2014 event, the average PSH thickness was 1.17 ft, with a maximum of 7.35 ft measured in MPE-24. Data in **Table 4-2** also indicates that only one (SVE-23) of the nine SVE wells installed in the Perched Zone continues to exhibit PSH. The areal distribution of PSH in the Uppermost Aquifer, as measured during the April/May and November 2014 monitoring events is depicted in **Figures 4-3 and 4-4**.

Groundwater samples were collected from selected monitoring wells in accordance with the schedule included in the *Sampling and Analysis Plan (SAP)* for the Facility, and shown in **Table 4-3**. Groundwater samples were analyzed for Benzene, Toluene, Ethylbenzene and

Xylenes (BTEX) via EPA method 8021B or for volatile organic compounds (VOCs) via EPA method 8260B in accordance with the *SAP*. Analytical results for are summarized in **Table 4-4** and laboratory data packages are included in **Appendix B**. Purged groundwater and equipment decontamination water were collected in a clean 55-gallon drum during sampling and then transferred to the surge tank for on-site treatment and disposal as described above.

Quality control samples including sample duplicates, field blanks, equipment blanks, rinsate blanks and trip blanks were collected during the semiannual sampling events. Analytical results for the blanks are included in the laboratory data packages in **Appendix B**, and indicate that there were no target analyte detections. The relative percent difference (RPD) of the reported concentrations between the original samples and the duplicates were calculated for BTEX during both events in MW-16, and for 1,1-DCA and 1,1-DCE in MW-26 and MW-39. The RPD for BTEX were generally above 20% except for Benzene during the December 2014 sampling event. Monitoring well MW-16 is near the easternmost edge of the PSH detected in MW-17 which likely contributed to the variability observed in the duplicate sample results. The RPD for both 1,1 DCA and 1,1 DCE were below 20%. These RPD calculations are also included in **Appendix B**.

Transwestern implemented additional groundwater sampling in monitoring wells (or MPE wells) that accumulate PSH for the purpose of assessing loading of the dissolved plume via the PSH. Groundwater samples were collected from selected wells immediately after bailing the wells to remove the PSH. The results of these samples are provided on **Table 4-5**, and shown on **Figures 4-5** through **4-8**. Laboratory data packages are included in **Appendix C**.

Analytical data indicates that only Benzene and 1,1-Dichloroethene (1,1-DCE) were detected at concentrations exceeding the applicable cleanup levels, and that both of these COCs remain delineated within the Project Area. The areal distribution of Benzene, BTEX and 1,1-DCE as measured during the May and November 2014 monitoring events is depicted in **Figures 4-5** through **4-10**.

Available analytical data for Benzene, BTEX and 1,1-DCE for the 1997-2014 period was evaluated to assess overall plume stability. **Figures 2** and **4** in **Appendix D** illustrate that plume stability analyses for the benzene plume resulted in the identification of a decreasing trend for plume area, average concentration and mass indicator. Similarly, evaluation of the BTEX plume in **Figures 3** and **5** in **Appendix D** also illustrate a decreasing trend for plume area



and mass indicator. The average plume concentration for BTEX is stable. **Figures 4-9 and 4-10** show that the 1,1-DCE plume has remained localized within the northern portion of the Project Area. As shown on **Figure 1 in Appendix D**, the plume calculations indicate an initial increase from the 1997 values to the observed maximum area and average concentration in 2001 and 2005, respectively, followed by decreasing values after implementation of the remediation system. Between 2001 and 2014 plume stability analyses using data for the 2001-2014 period resulted in the identification of a decreasing trend for the 1,1-DCE plume. These results confirm that the operation of the combined remediation system has been effective in reducing the area of the release over time.

## 5.0 RECOVERY SYSTEM MONITORING

During 2014, the SVE portion of the recovery system was operational until early-February, and the groundwater/PSH recovery portion operated from mid-July to mid-October. As discussed before, SVE system operations were suspended in February in order to complete expansion and optimization of the system, as well as renew the air permit for the equipment.

As noted in the *Report of 2013 Groundwater Remediation Activities* dated March 11, 2014, the groundwater/PSH recovery portion of the remediation system was suspended in late July 2013 to allow for the acquisition of additional water rights required by the New Mexico State Engineers Office (SEO). A water lease was obtained and the recovery system operation resumed on July 18, 2014 after construction of the new lines to/from the new wells and lasted through mid-October, when the hoses for additional pumps arrived.

Air samples were not collected during 2014 because the SVE system remained shut down for the rest of the year to allow for system modifications/maintenance and the air permit renewal. Monthly air sampling will continue once the system is fully operational again. Future air samples from the influent stream to the Baker Furnaces will be analyzed using EPA method TO-15, as requested in NMED's response dated June 24, 2014 to the *2013 Groundwater Remediation Activities Report*.

Operation records for the irrigation system presented in **Table 5-1** indicate that the volume of groundwater recovered, treated and discharged in 2014 was 111,840 gallons. In addition, approximately 1,890 gallons of PSH accumulated in the surge tank in 2014. On December 30,

2014, approximately 1,890 gallons (60 barrels) of PSH, accumulated during system operation in 2014, were removed from the surge tank and transported to Gandy Corporation's plant in Lovington, New Mexico, for recycling via fuel blending (see removal documentation in **Appendix E**).

Monthly samples were collected in July, August, September and October from the groundwater treatment system at four locations or stages in the train: at the inlet of the air-stripper (or pre-treatment); at the outlet of the air stripper; at the outlet of the first GAC unit; and at the outlet of the irrigation water holding tank (or post-treatment). Samples from the first three treatment stages were analyzed for BTEX via method 8021B, and the post-treatment sample was analyzed for anions via EPA method 300.0, dissolved metals via EPA method 200.7, and VOCs via EPA method 8260B. Analytical data is summarized in **Table 5-2** and laboratory data packages are included in **Appendix F**. The analytical data for these samples demonstrates that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater. Further, analytical data for the post-treatment sample indicate that Benzene, Ethylbenzene, Toluene and Xylenes were reported as not detected above the laboratory reporting limits (RLs). Since the RLs for Benzene, Ethylbenzene, Toluene and Xylenes are lower than the NMWQCC standards, the remediation system met the groundwater Discharge Permit requirements.

## 6.0 RECOVERY SYSTEM MODIFICATIONS

During late-June 2014, Transwestern commenced construction activities associated with piping modifications to dismantle MPE-1 through MPE-6 and incorporate the new MPE wells (MPE-38 through MPE-41) to the extraction/recovery system. Piping modifications included adding valves at locations that will allow independent operation and monitoring of wells or groups of wells. Proposed changes in recovery pump locations to better address PSH removal will be implemented when system operation resumes in the spring of 2015.



## 7.0 SUMMARY OF FINDINGS AND CONCLUSIONS

Based on the information presented in the previous sections regarding the operation of the remediation system installed at the Project Area, the following findings and conclusions are offered:

- The November 2014 gauging data identified a Northern component of groundwater flow with a gradient of 0.015 ft/ft, and a Southeastern component of groundwater flow with a gradient of 0.005 ft/ft. This pattern is consistent with previous years' observations.
- Historical gauging data indicates that between 2009 and 2014, monitoring wells in the Uppermost Aquifer have experienced an average drop of 1.18 ft in water level, while the water level drop in the deep well is 4.29 ft.
- Analytical data from the semiannual groundwater monitoring events indicates that only Benzene and 1,1-Dichloroethene were detected at concentrations exceeding the applicable cleanup levels, and that delineation is maintained within the existing monitoring network.
- During 2014, the SVE portion of the recovery system operated until early-February, and the groundwater/PSH recovery portion operated from mid-July to mid-October.
- The groundwater/PSH recovery system recovered, treated and discharged 111,840 gallons of groundwater in 2014.
- The groundwater/PSH recovery system recovered approximately 1,890 gallons of PSH in 2014.
- The area of the Benzene, BTEX and 1,1-DCE groundwater plumes remain either stable or decreasing indicating that the remediation system is effective in addressing COCs and PSH in groundwater.
- Samples collected in July, August, September and October 2014 from the groundwater treatment system demonstrate that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater.
- Further, the post-treatment sample indicates that the Discharge Permit's requirements for Benzene, Ethylbenzene, Toluene and Xylenes were met.
- The addition of the new extraction wells and re-distribution of recovery pumps are expected to have a positive impact in further reducing the Benzene/BTEX and 1,1-DCE plumes in the northern and central portions portion of the Project Area.

## 8.0 RECOMENDATIONS

Semi-annual groundwater sampling will continue as noted on **Table 4-3**. Groundwater sampling in the wells that accumulate PSH will serve to assess trends in loading of dissolved constituents. Transwestern plans to include monitoring wells MW-39 through MW-42 to the first semiannual sampling event going forward.

Given the extent of data on the vapor stream obtained from the SVE/MPE influent to the Baker Furnaces, Transwestern proposes to move from monthly sampling of the vapor influent to quarterly sampling. Monthly sampling from the groundwater treatment system at the four locations or stages in the train will continue in 2015 to ensure compliance with the Discharge Permit and the NMWQCC standards.

## TABLES

**Table 4-1. Summary of Well Completion Details**  
**Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MW-1B	04/21/93	65.5	64.65	Flush Mount	2	55-65	53
MW-2	04/21/93	65	61.61	Flush Mount	2	55-65	53
MW-3	04/26/93	72.5	na	Flush Mount	2	60-70	58
MW-5	04/28/93	70	69.35	Flush Mount	2	60-70	58
MW-6	12/01/94	79	na	Flush Mount	2	59.9-74.9	57.1
MW-7	08/22/95	70.5	na	Flush Mount	2	50-70	48.1
MW-8	08/16/95	76.8	73.80	Flush Mount	2	59-74	57.2
MW-9	08/18/95	70	69.75	Flush Mount	2	50-70	47.9
MW-10	09/10/96	74.5	72.15	Flush Mount	2	57-72	55.3
MW-11	09/16/96	72	68.30	Flush Mount	2	54-69	51.5
MW-12	09/11/96	64	na	Flush Mount	2	44-64	42
MW-13	09/13/96	72	na	Flush Mount	2	57-72	55
MW-14	09/10/96	64.5	na	Flush Mount	2	49.5-64.5	48
MW-15	09/20/96	68.5	na	Flush Mount	2	38.5-68.5	37
MW-16	09/19/96	71.4	71.46	Flush Mount	2	46.4-71.4	45.5
MW-17	09/21/96	70	na	Flush Mount	2	53-68	50.9
MW-18	09/25/96	71	na	Flush Mount	2	54-69	51.6
MW-19	09/26/96	69.5	na	Flush Mount	2	54.5-69.5	51
MW-20	08/04/97	64	na	Flush Mount	2	46.8-61.8	43.9
MW-21	08/06/97	75	na	Flush Mount	2	54-74	51.7
MW-22	08/04/97	68	na	Flush Mount	2	50-65	49
MW-26	09/01/98	65	na	Flush Mount	2	43-63	41
MW-27	09/02/98	75	na	Flush Mount	2	55-75	53
MW-28	11/14/00	75	74.81	Flush Mount	2	60-75	58
MW-29	11/18/00	75	74.45	Flush Mount	2	60-75	58
MW-30	11/16/00	75	74.70	Flush Mount	2	60-75	58
MW-31	09/21/01	75	74.55	Flush Mount	2	60-75	58
MW-32	09/23/01	75	74.20	Flush Mount	2	60-75	58
MW-33	09/22/01	75	74.60	Flush Mount	2	60-75	58
MW-34	01/06/03	79	75.75	Flush Mount	2	49-79	46
MW-35	01/07/03	79	76.71	Flush Mount	2	49-79	46
MW-36	09/29/03	75	74.35	Flush Mount	2	55-75	53
MW-37	09/29/03	70	69.61	Flush Mount	2	50-70	48
MW-38	09/30/03	68	67.76	Flush Mount	2	48-68	46
MW-39	08/06/13	70	70.00	Flush Mount	2	50-70	48
MW-40	08/05/13	70	70.25	Flush Mount	2	50-70	48
MW-41	08/05/13	70	70.20	Flush Mount	2	50-70	48
MW-42	08/06/13	75	75.93	Flush Mount	2	55-75	51
MW-23D	07/29/97	194	na	Flush Mount	4	167-187	164
MW-24D	09/10/98	180	na	Flush Mount	4	146-176	143
MW-25D	09/09/98	150	na	Flush Mount	4	119-149	117
SVE-1A	09/21/96	30	29.65	Flush Mount	2	20-30	19
SVE-2A	09/20/96	30	29.83	Flush Mount	2	20-30	17.5
SVE-3	09/16/96	62.3	61.90	Flush Mount	2	32.0-62.3	29.5
SVE-22	11/07/02	35	33.20	Flush Mount	2	25-35	23

**Table 4-1. Summary of Well Completion Details**  
**Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
SVE-23	11/07/02	39	36.70	Flush Mount	2	25-35	22
SVE-24	11/13/02	30	28.85	Flush Mount	2	20-30	18
SVE-25	11/04/02	34	53.30	Flush Mount	2	24-34	21.6
SVE-26	11/05/02	35	32.45	Flush Mount	2	24-34	22
SVE-27	11/01/02	35	33.90	Flush Mount	2	20-35	18
SVE-28	10/29/02	35	36.00	Flush Mount	2	25-35	23
SVE-30	10/25/02	45	44.00	Flush Mount	2	20-45	18
SVE-31	10/28/02	35	33.95	Flush Mount	2	25-35	23
MPE-1	12/06/02	79	75.60	Flush Mount	4	54-74	49
MPE-2	12/24/02	79	71.75	Flush Mount	4	54-79	51
MPE-3	12/21/02	79	75.95	Flush Mount	4	54-79	51
MPE-4	12/19/12	79	78.30	Flush Mount	4	54-79	51
MPE-5	12/16/02	79	77.70	Flush Mount	4	59-79	56
MPE-6	12/17/02	79	75.00	Flush Mount	4	54-79	51
MPE-7	12/13/02	79	78.41	Flush Mount	4	54-74	51
MPE-8	12/14/02	79	77.55	Flush Mount	4	59-79	50
MPE-9	12/18/02	79	73.60	Flush Mount	4	54-74	51
MPE-10	12/09/02	79	75.30	Flush Mount	4	54-74	50
MPE-11	12/07/02	79	79.05	Flush Mount	4	54-74	50
MPE-12	12/06/02	79	75.40	Flush Mount	4	54-74	51
MPE-13	12/03/02	79	77.60	Flush Mount	4	54-74	50.7
MPE-14	11/25/02	79	76.80	Flush Mount	4	54-74	51
MPE-15	11/22/02	79	79.25	Flush Mount	4	59-74	54
MPE-16	11/27/02	79	78.20	Flush Mount	4	54-74	49
MPE-17	11/20/02	75	76.10	Flush Mount	4	55-70	49
MPE-18	11/21/02	79	78.68	Flush Mount	4	58-73	55
MPE-19	11/26/02	79	74.12	Flush Mount	4	49-74	46
MPE-20	11/20/02	78	77.60	Flush Mount	4	48-73	42
MPE-21	11/19/02	69	68.90	Flush Mount	4	44-64	41.9
MPE-22	11/07/02	80	77.52	Flush Mount	4	55-80	52
MPE-23	11/06/02	80	78.41	Flush Mount	4	55-80	52
MPE-24	11/13/02	74	73.77	Flush Mount	4	49-74	46
MPE-25	11/04/02	80	77.45	Flush Mount	4	54-79	51
MPE-26	11/06/02	84	77.35	Flush Mount	4	54-84	49
MPE-27	10/31/02	79	79.40	Flush Mount	4	54-79	48
MPE-28	10/31/02	82	77.67	Flush Mount	4	46-76	43
MPE-29	11/02/02	79	78.35	Flush Mount	4	54-79	51
MPE-30	10/25/02	80	77.96	Flush Mount	4	59-79	56
MPE-31	10/28/02	80	78.80	Flush Mount	4	59-79	58
MPE-32	11/19/02	79	78.30	Flush Mount	4	44-74	39.2
MPE-33	11/18/02	79	78.00	Flush Mount	4	44-79	41.6
MPE-34	10/24/02	80	77.52	Flush Mount	4	59-79	56
MPE-35	11/15/02	79	79.21	Flush Mount	4	54-74	51
MPE-36	11/14/02	74	71.31	Flush Mount	4	44-74	41
MPE-37	11/15/02	74	73.60	Flush Mount	4	44-74	41

**Table 4-1. Summary of Well Completion Details**  
**Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MPE-38	08/07/13	75	75.00	Flush Mount (pending)	4	55-75	53
MPE-39	08/08/13	75	74.30	Flush Mount (pending)	4	55-75	53
MPE-40	08/08/13	75	72.60	Flush Mount (pending)	4	55-75	53
MPE-41	08/07/13	75	74.95	Flush Mount (pending)	4	55-75	53

Note:

Light blue denote well plugged and abandoned (P&A) in August 2013

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-1 B	03/10/09	3609.96	60.46	62.20	1.74	3549.08
	10/08/09		sheen	64.18	sheen	3545.78
	01/26/10		60.32	60.60	0.28	3549.57
	03/22/10		59.82	61.86	2.04	3549.65
	04/17/11		60.18	62.05	1.87	3549.33
	12/22/11		61.01	63.24	2.23	3548.41
	04/17/12		60.65	62.45	1.80	3548.88
	10/18/12	3610.74 (h)	61.88	64.21	2.33	3547.52
	01/22/13		61.38	63.55	2.17	3548.06
	04/15/13		61.24	63.10	1.86	3548.27
	11/03/13		62.19	63.35	1.16	3548.27
	04/30/14		61.50	62.73	1.23	3548.94
	11/19/14		61.87	64.03	2.16	3548.35
MW-2	03/10/09	3611.76	(a)	59.10	(a)	3552.66
	10/08/09		(a)	60.39	(a)	3551.37
	03/22/10		(a)	59.66	(a)	3552.10
	04/17/11		(a)	59.77	(a)	3551.99
	12/22/11		(a)	59.79	(a)	3551.97
	04/17/12		(a)	60.30	(a)	3551.46
	10/18/12		(a)	61.30	(a)	3550.46
	01/22/13	3612.62 (h)	(a)	61.07	(a)	3550.69
	04/15/13		(a)	61.30	(a)	3550.46
	11/03/13		(a)	60.77	(a)	3551.85
	04/30/14		(a)	60.48	(a)	3552.14
MW-3	11/19/14		(a)	60.60	(a)	3552.02
	03/10/09	3614.87	(a)	66.23	(a)	3548.64
	10/08/09		(a)	66.77	(a)	3548.10
	03/22/10		(a)	66.37	(a)	3548.50
	04/17/11		(a)	66.39	(a)	3548.48
	12/22/11		(a)	66.86	(a)	3548.01
	04/17/12		(a)	66.67	(a)	3548.20
	10/18/12		(a)	67.28	(a)	3547.59
	01/22/13	3615.75 (h)	(a)	67.22	(a)	3547.65
	04/15/13		(a)	67.11	(a)	3547.76
	11/03/13		(a)	67.47	(a)	3548.28
	04/30/14		(a)	67.31	(a)	3548.44
MW-7	11/19/14		(a)	67.74	(a)	3548.01
	03/10/09	3599.20	(a)	58.24	(a)	3540.96
	10/08/09		(a)	62.12	(a)	3537.08
	03/22/10		(a)	58.68	(a)	3540.52
	04/17/11		(a)	59.42	(a)	3539.78
	12/22/11		(a)	63.09	(a)	3536.11
	04/17/12		(a)	62.30	(a)	3536.90
	10/18/12		(a)	66.14	(a)	3533.06
	01/22/13	3599.96 (h)	(a)	64.40	(a)	3534.80
	04/15/13		(a)	63.71	(a)	3535.49
	11/03/13		(a)	66.07	(a)	3533.89
	04/30/14		(a)	64.30	(a)	3535.66
MW-7	11/19/14		(a)	64.02	(a)	3535.94

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-10	03/10/09	3617.85	(a)	68.49	(a)	3549.36
	10/08/09		(a)	69.18	(a)	3548.67
	03/22/10		(a)	68.85	(a)	3549.00
	04/17/11		(a)	68.85	(a)	3549.00
	12/22/11		(a)	69.32	(a)	3548.53
	04/17/12		(a)	69.19	(a)	3548.66
	10/18/12		(a)	69.78	(a)	3548.07
	01/22/13		(a)	69.79	(a)	3548.06
	04/15/13		(a)	69.70	(a)	3548.15
	11/03/13		(a)	70.04	(a)	3548.77
	04/30/14		(a)	69.93	(a)	3548.88
	11/19/14		(a)	70.23	(a)	3548.58
MW-11	03/10/09	3613.31	(a)	64.30	(a)	3549.01
	10/08/09		(a)	65.39	(a)	3547.92
	03/22/10		(a)	64.69	(a)	3548.62
	04/17/11		(a)	64.55	(a)	3548.76
	12/22/11		(a)	65.36	(a)	3547.95
	04/17/12		(a)	64.97	(a)	3548.34
	10/18/12		(a)	66.03	(a)	3547.28
	01/22/13		(a)	65.69	(a)	3547.62
	04/15/13		(a)	65.45	(a)	3547.86
	11/03/13		(a)	65.95	(a)	3548.13
	04/30/14		(a)	65.71	(a)	3548.37
	11/19/14		(a)	66.47	(a)	3547.61
MW-12	03/10/09	3606.38	56.16	56.57	0.41	3550.12
	10/08/09		57.17	57.18	0.01	3549.21
	01/26/10		(a)	56.95	(a)	3549.43
	03/22/10		56.34	58.23	1.89	3549.59
	04/17/11		56.00	57.47	1.47	3550.03
	12/22/11		57.01	57.18	0.17	3549.33
	04/17/12		56.75	59.72	2.97	3548.92
	10/15/12		57.33	58.28	0.95	3548.82
	01/22/13		54.93	57.30	2.37	3550.88
	04/15/13		57.28	60.74	3.46	3548.27
	11/03/13		57.71	60.15	2.44	3548.68
	04/30/14		57.57	62.68	5.11	3548.18
	11/19/14		56.9	59.91	3.01	3549.36
		3606.98 (h)				
MW-13	03/10/09	3612.46	(a)	63.76	(a)	3548.70
	10/08/09		(a)	64.35	(a)	3548.11
	01/26/10		(a)	64.05	(a)	3548.41
	03/22/10		(a)	63.78	(a)	3548.68
	04/17/11		(a)	63.65	(a)	3548.81
	12/22/11		(a)	64.64	(a)	3547.82
	04/17/12		(a)	64.31	(a)	3548.15
	10/18/12		(a)	64.99	(a)	3547.47
	01/22/13		(a)	64.70	(a)	3547.76
	04/15/13		(a)	64.59	(a)	3547.87
	11/03/13		(a)	64.70	(a)	3548.49
	04/30/14		(a)	64.91	(a)	3548.28
	11/19/14		(a)	65.27	(a)	3547.92
		3613.19 (h)				



**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-14	03/10/09	3604.83	(a)	54.43	(a)	3550.40
	10/08/09		(a)	54.57	(a)	3550.26
	03/22/10		(a)	54.23	(a)	3550.60
	04/17/11		(a)	54.72	(a)	3550.11
	12/22/11		(a)	55.43	(a)	3549.40
	04/17/12		(a)	55.27	(a)	3549.56
	10/15/12		(a)	55.52	(a)	3549.31
	01/22/13		(a)	55.63	(a)	3549.20
	04/15/13	3605.55 (h)	(a)	55.61	(a)	3549.22
	11/03/13		(a)	55.89	(a)	3549.66
	04/30/14		(a)	56.03	(a)	3549.52
	11/19/14		(a)	56.08	(a)	3549.47
MW-15	03/10/09	3610.43	(a)	59.30	(a)	3551.13
	10/08/09		(a)	58.82	(a)	3551.61
	03/22/10		(a)	58.43	(a)	3552.00
	04/17/11		(a)	58.94	(a)	3551.49
	12/22/11		(a)	59.26	(a)	3551.17
	04/17/12		(a)	59.45	(a)	3550.98
	10/15/12		(a)	59.65	(a)	3550.78
	01/22/13		(a)	59.88	(a)	3550.55
	04/15/13	3611.24 (h)	(a)	59.99	(a)	3550.44
	11/03/13		(a)	60.10	(a)	3551.14
	04/30/14		(a)	60.36	(a)	3550.88
	11/19/14		(a)	60.38	(a)	3550.86
MW-16	03/10/09	3612.41	65.25	65.26	0.01	3547.16
	10/08/09		65.91	65.92	0.01	3546.50
	01/26/10		(a)	65.57	(a)	3546.84
	03/22/10		(a)	65.19	sheen	3547.22
	04/17/11		(a)	65.36	(a)	3547.05
	12/22/11		(a)	65.99	sheen	3546.42
	04/17/12		65.58	65.59	0.01	3546.83
	10/15/12		(a)	66.55	(a)	3545.86
	01/22/13	3613.16 (h)	(a)	66.32	(a)	3546.09
	04/15/13		(a)	66.17	(a)	3546.24
	11/03/13		(a)	66.48	(a)	3546.68
	04/30/14		(a)	66.20	(a)	3546.96
	11/19/14		66.8	66.91	0.11	3546.25
MW-17	03/10/09	3608.43 (d)	(a)	61.20	(a)	3547.23
	10/08/09		(a)	61.64	(a)	3546.79
	03/22/10		(a)	60.95	(a)	3547.48
	04/17/11		(a)	61.11	(a)	3547.32
	12/22/11		(a)	61.42	(a)	3547.01
	04/17/12		(a)	61.43	(a)	3547.00
	10/15/12		(a)	61.95	(a)	3546.48
	01/22/13		(a)	62.17	(a)	3546.26
	04/15/13	3609.20 (h)	(a)	61.97	(a)	3546.46
	11/03/13		(a)	62.23	(a)	3546.97
	04/30/14		(a)	62.12	(a)	3547.08
	11/19/14		(a)	62.40	(a)	3546.80

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-20	03/10/09	3600.65	(a)	52.08	(a)	3548.57
	10/08/09		(a)	58.30	(a)	3542.35
	10/09/09		(a)	55.57	(a)	3545.08
	03/22/10		(a)	52.62	(a)	3548.03
	04/17/11		(a)	52.43	(a)	3548.22
	12/22/11		(a)	58.35	(a)	3542.30
	04/17/12		(a)	53.50	(a)	3547.15
	10/15/12	3601.34 (h)	(a)	54.92	(a)	3545.73
	01/22/13		(a)	54.13	(a)	3546.52
	04/15/13		(a)	53.90	(a)	3546.75
	11/03/13		(a)	54.35	(a)	3546.99
	04/30/14		(a)	54.28	(a)	3547.06
	11/19/14		(a)	55.82	(a)	3545.52
MW-21	03/10/09	3611.99 (d)	(a)	65.43	(a)	3546.56
	10/08/09		(a)	66.30	(a)	3545.69
	01/26/10		(a)	65.79	(a)	3546.20
	03/22/10		(a)	65.31	(a)	3546.68
	04/17/11		(a)	65.02	(a)	3546.97
	12/22/11		(a)	65.28	(a)	3546.71
	04/17/12		(a)	65.44	(a)	3546.55
	10/15/12	3612.71 (h)	(a)	65.57	(a)	3546.42
	01/22/13		(a)	65.51	(a)	3546.48
	04/15/13		(a)	65.54	(a)	3546.45
	11/03/13		(a)	66.08	(a)	3546.63
	04/30/14		(a)	65.82	(a)	3546.89
	11/19/14		(a)	66.17	(a)	3546.54
MW-22	03/10/09	3606.04	(a)	57.14	(a)	3548.90
	10/08/09		(a)	58.25	(a)	3547.79
	03/22/10		(a)	57.33	(a)	3548.71
	04/17/11		(a)	57.38	(a)	3548.66
	12/22/11		(a)	58.65	(a)	3547.39
	04/17/12		(a)	57.88	(a)	3548.16
	10/15/12	3606.62 (h)	(a)	58.93	(a)	3547.11
	01/22/13		(a)	58.60	(a)	3547.44
	04/15/13		(a)	58.36	(a)	3547.68
	11/03/13		(a)	58.94	(a)	3547.68
	04/30/14		(a)	58.49	(a)	3548.13
	11/19/14		(a)	59.38	(a)	3547.24
MW-26	03/10/09	3597.75 (c)	(a)	50.11	(a)	3547.64
	10/08/09		(a)	52.35	(a)	3545.40
	03/22/10		(a)	50.52	(a)	3547.23
	04/17/11		(a)	50.45	(a)	3547.30
	12/22/11		(a)	51.70	(a)	3546.05
	04/17/12		(a)	51.24	(a)	3546.51
	10/15/12	3598.43 (h)	(a)	52.55	(a)	3545.20
	01/22/13		(a)	51.95	(a)	3545.80
	04/15/13		(a)	51.70	(a)	3546.05
	11/03/13		(a)	52.22	(a)	3546.21
	04/30/14		(a)	51.86	(a)	3546.57
	11/19/14		(a)	52.21	(a)	3546.22

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-27	03/10/09	3615.11 (d)	67.85	68.18	0.33	3547.18
	10/08/09		68.38	68.89	0.51	3546.61
	01/26/10		68.48	68.88	0.40	3546.53
	03/22/10		68.31	68.73	0.42	3546.70
	04/17/11		68.10	68.26	0.16	3546.97
	12/22/11		68.21	68.35	0.14	3546.87
	04/17/12		67.38	67.52	0.14	3547.70
	10/15/12		68.31	68.54	0.23	3546.74
	01/22/13		68.45	68.67	0.22	3546.61
	04/15/13		65.92	67.07	1.15	3548.91
	05/16/13		68.47	69.77	1.30	3546.33
	11/03/13	3615.76 (h)	(a)	68.19	(a)	3547.57
	11/13/13		68.29	68.30	0.01	3547.47
	04/30/14		68.61	68.63	0.02	3547.15
	11/19/14		68.96	68.97	0.01	3546.80
MW-28	03/10/09	3615.90 (d)	(a)	68.70	(a)	3547.20
	10/08/09		(a)	68.94	(a)	3546.96
	03/22/10		(a)	68.71	(a)	3547.19
	04/17/11		(a)	68.95	(a)	3546.95
	12/22/11		(a)	69.01	(a)	3546.89
	04/17/12		(a)	69.20	(a)	3546.70
	10/15/12		(a)	69.30	(a)	3546.60
	01/22/13		(a)	69.48	(a)	3546.42
	04/15/13	3616.62 (h)	(a)	69.57	(a)	3546.33
	11/03/13		(a)	69.61	(a)	3547.01
	04/30/14		(a)	69.78	(a)	3546.84
	11/19/14		(a)	69.82	(a)	3546.80
MW-29	03/10/09	3613.54 (d)	(a)	67.86	(a)	3545.68
	10/08/09		(a)	68.82	(a)	3544.72
	03/22/10		(a)	68.04	(a)	3545.50
	04/17/11		(a)	67.78	(a)	3545.76
	12/22/11		(a)	68.15	(a)	3545.39
	04/17/12		(a)	68.41	(a)	3545.13
	10/15/12		(a)	68.10	(a)	3545.44
	01/22/13		(a)	68.33	(a)	3545.21
	04/15/13		(a)	68.34	(a)	3545.20
	11/03/13	3614.22 (h)	(a)	69.47	(a)	3544.75
	04/30/14		(a)	69.53	(a)	3544.69
	11/19/14		(a)	69.67	(a)	3544.55
MW-30	03/10/09	3612.63 (d)	(a)	65.83	(a)	3546.80
	10/08/09		(a)	65.97	(a)	3546.66
	03/22/10		(a)	65.81	(a)	3546.82
	04/17/11		(a)	66.13	(a)	3546.50
	12/22/11		(a)	66.20	(a)	3546.43
	04/17/12		(a)	66.30	(a)	3546.33
	10/15/12		(a)	66.48	(a)	3546.15
	01/22/13		(a)	66.61	(a)	3546.02
	04/15/13		(a)	66.57	(a)	3546.06
	11/03/13	3613.33 (h)	(a)	66.84	(a)	3546.49
	04/30/14		(a)	66.86	(a)	3546.47
	11/19/14		(a)	66.97	(a)	3546.36

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-32	03/10/09	3608.73 (e)	(a)	65.01	(a)	3543.72
	10/08/09		(a)	66.29	(a)	3542.44
	03/22/10		(a)	65.44	(a)	3543.29
	04/17/11		(a)	65.15	(a)	3543.58
	12/22/11		(a)	65.42	(a)	3543.31
	04/17/12		(a)	66.03	(a)	3542.70
	10/15/12	3609.49 (h)	(a)	65.59	(a)	3543.14
	01/22/13		(a)	65.94	(a)	3542.79
	04/15/13		(a)	66.33	(a)	3542.40
	11/03/13		(a)	66.95	(a)	3542.54
	04/30/14		(a)	67.41	(a)	3542.08
	11/19/14		(a)	67.34	(a)	3542.15
MW-33	03/10/09	3610.55 (e)	(a)	63.81	(a)	3546.74
	10/08/09		(a)	63.95	(a)	3546.60
	03/22/10		(a)	63.94	(a)	3546.61
	04/17/11		(a)	64.28	(a)	3546.27
	12/22/11		(a)	64.42	(a)	3546.13
	04/17/12		(a)	64.57	(a)	3545.98
	10/15/12	3611.37 (h)	(a)	64.63	(a)	3545.92
	01/22/13		(a)	64.76	(a)	3545.79
	04/15/13		(a)	64.82	(a)	3545.73
	11/03/13		(a)	64.86	(a)	3546.51
	04/30/14		(a)	65.05	(a)	3546.32
	11/19/14		(a)	65.08	(a)	3546.29
MW-34	03/10/09	3605.05 (f)	(a)	61.57	(a)	3543.48
	10/08/09		(a)	62.61	(a)	3542.44
	03/22/10		(a)	61.93	(a)	3543.12
	04/17/11		(a)	61.98	(a)	3543.07
	12/22/11		(a)	62.49	(a)	3542.56
	04/17/12		(a)	62.77	(a)	3542.28
	10/15/12	3605.76 (h)	(a)	62.80	(a)	3542.25
	01/22/13		(a)	63.14	(a)	3541.91
	04/15/13		(a)	63.25	(a)	3541.80
	11/03/13		(a)	63.81	(a)	3541.95
	04/30/14		(a)	63.99	(a)	3541.77
	11/19/14		(a)	64.08	(a)	3541.68
MW-35	03/10/09	3601.87 (f)	(a)	58.40	(a)	3543.47
	10/08/09		(a)	59.42	(a)	3542.45
	03/22/10		(a)	58.85	(a)	3543.02
	04/17/11		(a)	58.89	(a)	3542.98
	12/22/11		(a)	59.60	(a)	3542.27
	04/17/12		(a)	59.76	(a)	3542.11
	10/15/12	3602.61 (h)	(a)	59.91	(a)	3541.96
	01/22/13		(a)	60.14	(a)	3541.73
	04/15/13		(a)	60.28	(a)	3541.59
	11/03/13		(a)	60.81	(a)	3541.80
	04/30/14		(a)	61.17	(a)	3541.44
	11/19/14		(a)	61.01	(a)	3541.60

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-37	03/10/09	3599.86 (g)	(a)	56.53	(a)	3543.33
	10/08/09		(a)	57.46	(a)	3542.40
	03/22/10		(a)	56.98	(a)	3542.88
	04/17/11		(a)	57.06	(a)	3542.80
	12/22/11		(a)	57.58	(a)	3542.28
	04/17/12		(a)	57.88	(a)	3541.98
	10/15/12		(a)	58.18	(a)	3541.68
	01/22/13	3600.58 (h)	(a)	58.43	(a)	3541.43
	04/15/13		(a)	58.47	(a)	3541.39
	11/03/13		(a)	58.99	(a)	3541.59
	11/13/13		(a)	58.96	(a)	3541.62
	04/30/14		(a)	59.20	(a)	3541.38
	11/19/14		(a)	59.20	(a)	3541.38
MW-39	08/16/13	3597.38 (h)	(a)	51.64	(a)	3545.74
	11/03/13		(a)	51.08	(a)	3546.30
	04/30/14		(a)	50.74	(a)	3546.64
	11/19/14		(a)	50.69	(a)	3546.69
MW-40	08/16/13	3596.48 (h)	(a)	54.25	(a)	3542.23
	11/03/13		(a)	54.21	(a)	3542.27
	04/30/14		(a)	53.78	(a)	3542.70
	11/19/14		(a)	54.23	(a)	3542.25
MW-41	08/16/13	3601.73 (h)	(a)	56.57	(a)	3545.16
	11/03/13		(a)	56.63	(a)	3545.10
	04/30/14		(a)	56.76	(a)	3544.97
	11/19/14		(a)	56.96	(a)	3544.77
MW-42	08/16/13	3595.21 (h)	(a)	56.42	(a)	3538.79
	11/03/13		(a)	56.28	(a)	3538.93
	04/30/14		(a)	55.16	(a)	3540.05
	11/19/14		(a)	55.25	(a)	3539.96
MW-24 D	03/10/09	3595.95 (c)	(a)	56.62	(a)	3539.33
	10/08/09		(a)	61.13	(a)	3534.82
	03/22/10		(a)	56.22	(a)	3539.73
	04/17/11		(a)	58.73	(a)	3537.22
	12/22/11		(a)	60.28	(a)	3535.67
	04/17/12		(a)	61.39	(a)	3534.56
	10/15/12		(a)	65.33	(a)	3530.62
	01/22/13	3596.80 (h)	(a)	61.26	(a)	3534.69
	04/15/13		(a)	62.76	(a)	3533.19
	11/03/13		(a)	64.42	(a)	3532.38
	04/30/14		(a)	62.91	(a)	3533.89
	11/19/14		(a)	61.76	(a)	3535.04

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-7	03/10/09	NA	(a)	67.79	(a)	NA
	10/08/09		(a)	69.75	(a)	NA
	03/22/10		(a)	67.62	(a)	NA
	04/17/11		(a)	67.15	(a)	NA
	12/22/11		(a)	67.07	(a)	NA
	04/17/12		(a)	67.50	(a)	NA
	10/15/12		(a)	67.44	(a)	NA
	04/15/13		(a)	67.63	(a)	NA
	11/03/13	3614.16 (h)	(a)	67.93	(a)	3546.23
	05/01/14		(a)	68.07	(a)	3546.09
	11/20/14		(a)	68.21	(a)	3545.95
MPE-8	03/10/09	NA	(a)	65.06	(a)	NA
	10/08/09		(a)	65.79	(a)	NA
	03/22/10		(a)	65.53	(a)	NA
	04/17/11		(a)	65.30	(a)	NA
	12/22/11		(a)	65.58	(a)	NA
	04/17/12		(a)	65.71	(a)	NA
	10/15/12		(a)	65.62	(a)	NA
	04/15/13		(a)	65.41	(a)	NA
	11/03/13	3612.35 (h)	(a)	66.55	(a)	3545.80
	05/01/14		(a)	66.47	(a)	3545.88
	11/20/14		(a)	66.76	(a)	3545.59
MPE-9	03/10/09	NA	(a)	67.24	(a)	NA
	10/08/09		(a)	67.79	(a)	NA
	01/26/10		67.92	67.93	0.01	NA
	03/22/10		(a)	67.82	(a)	NA
	04/17/11		(a)	67.49	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	04/17/12		(a)	67.87	(a)	NA
	10/15/12		(a)	67.70	(a)	NA
	04/15/13		(a)	67.92	(a)	NA
	11/03/13	3615.40 (h)	(a)	67.32	(a)	3548.08
	05/01/14		(a)	68.11	(a)	3547.29
	11/20/14		(a)	68.34	(a)	3547.06
MPE-10	03/10/09	NA	65.58	66.45	0.87	NA
	03/22/10		(a)	66.20	(a)	NA
	04/17/11		65.41	66.85	1.44	NA
	12/22/11		65.74	66.48	0.74	NA
	04/17/12		66.05	66.22	0.17	NA
	10/15/12		66.03	66.88	0.85	NA
	04/15/13		65.96	66.95	0.99	NA
	11/03/13	3613.85 (h)	65.71	67.08	1.37	3547.81
	05/01/14		66.35	66.36	0.01	3547.50
	11/20/14		66.64	67.39	0.75	3547.03

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-11	03/10/09	NA	(a)	63.02	(a)	NA
	10/08/09		(a)	63.81	(a)	NA
	04/17/11		(a)	62.92	(a)	NA
	12/22/11		(a)	63.21	(a)	NA
	04/17/12		(a)	63.44	(a)	NA
	10/15/12		(a)	63.73	(a)	NA
	04/15/13		(a)	63.63	(a)	NA
	11/03/13	3610.37 (h)	(a)	64.11	(a)	3546.26
	05/01/14		(a)	64.06	(a)	3546.31
	11/20/14		(a)	64.35	(a)	3546.02
MPE-12	03/10/09	NA	64.30	64.60	0.30	NA
	10/08/09		65.24	65.45	0.21	NA
	01/26/10		64.75	65.12	0.37	NA
	03/22/10		64.55	64.60	0.05	NA
	04/17/11		64.32	64.47	0.15	NA
	12/22/11		(a)	64.61	(a)	NA
	04/17/12		(a)	64.78	(a)	NA
	10/15/12		(a)	65.11	(a)	NA
	04/15/13		64.81	64.83	0.02	NA
	11/03/13	3612.51 (h)	(a)	64.81	(a)	3547.70
	05/01/14		65.14	65.15	0.01	3547.36
	11/20/14		67.07	67.27	0.20	3545.24
MPE-13	03/10/09	NA	62.93	63.90	0.97	NA
	10/08/09		63.65	64.00	0.35	NA
	01/26/10		63.44	63.75	0.31	NA
	03/22/10		62.93	63.15	0.22	NA
	04/17/11		63.08	63.27	0.19	NA
	12/22/11		(a)	63.32	(a)	NA
	04/17/12		63.51	63.93	0.42	NA
	10/15/12		63.91	64.27	0.36	NA
	04/15/13		63.93	64.19	0.26	NA
	11/03/13	3610.91 (h)	64.07	64.21	0.14	3546.81
	05/01/14		64.15	64.45	0.30	3546.69
	11/20/14		64.55	64.66	0.11	3546.33
MPE-14	03/10/09	NA	63.70	63.83	0.13	NA
	10/08/09		(a)	64.27	(a)	NA
	01/26/10		(a)	64.08	(a)	NA
	03/22/10		(a)	63.57	(a)	NA
	04/17/11		(a)	63.70	(a)	NA
	12/22/11		(a)	64.05	(a)	NA
	04/17/12		(a)	64.12	(a)	NA
	10/15/12		(a)	64.75	(a)	NA
	04/15/13		64.40	64.94	0.54	NA
	11/03/13	3611.31 (h)	64.40	65.87	1.47	3546.56
	05/01/14		64.54	65.49	0.95	3546.54
	11/21/14		65.20	65.48	0.28	3546.04

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-15	03/10/09	NA	(a)	62.40	(a)	NA
	10/08/09		(a)	62.59	(a)	NA
	03/22/10		(a)	62.36	(a)	NA
	04/17/11		(a)	62.20	(a)	NA
	12/22/11		(a)	62.75	(a)	NA
	04/17/12		(a)	63.05	(a)	NA
	10/15/12		(a)	63.05	(a)	NA
	04/15/13		(a)	63.19	(a)	NA
	11/03/13	3612.40 (h)	(a)	63.45	(a)	3548.95
	05/01/14		(a)	63.70	(a)	3548.70
	11/21/14		(a)	63.73	(a)	3548.67
MPE-16	03/10/09	NA	64.32	65.75	1.43	NA
	10/08/09		65.63	Tagged pump	NA	NA
	01/26/10		64.64	66.30	1.66	NA
	03/22/10		64.27	66.21	1.94	NA
	04/17/11		64.25	65.18	0.93	NA
	12/22/11		64.61	65.79	1.18	NA
	04/17/12		64.74	67.17	2.43	NA
	10/15/12		64.89	67.41	2.52	NA
	04/15/13		64.80	66.55	1.75	NA
	11/03/13	3613.14 (h)	64.65	67.06	2.41	3547.91
	05/01/14		65.27	67.19	1.92	3547.41
	11/20/14		65.96	67.84	1.88	3546.73
MPE-17	03/10/09	NA	64.80	65.07	0.27	NA
	10/08/09		65.48	65.55	0.07	NA
	01/26/10		65.19	65.22	0.03	NA
	03/22/10		(a)	64.77	(a)	(a)
	04/17/11		(a)	64.93	(a)	(a)
	12/22/11		(a)	65.37	(a)	(a)
	04/17/12		65.22	65.37	0.15	(a)
	10/15/12		65.95	66.81	0.86	(a)
	04/15/13		65.62	66.06	0.44	(a)
	11/03/13	3612.75 (h)	65.63	67.49	1.86	3546.67
	05/01/14		65.75	66.45	0.70	3546.83
	11/21/14		66.15	66.64	0.49	3546.48
MPE-18	03/10/09	NA	(a)	61.65	(a)	NA
	10/08/09		(a)	61.93	(a)	NA
	03/22/10		(a)	61.44	(a)	NA
	04/17/11		(a)	61.70	(a)	NA
	12/22/11		(a)	62.19	(a)	NA
	04/17/12		(a)	62.39	(a)	NA
	10/15/12		(a)	62.78	(a)	NA
	04/15/13		(a)	62.64	(a)	NA
	11/03/13	3611.12 (h)	(a)	62.93	(a)	3548.19
	05/01/14		(a)	63.07	(a)	3548.05
	11/21/14		(a)	63.04	(a)	3548.08



**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-19	03/10/09	NA	(a)	65.02	(a)	NA
	10/08/09		(a)	65.54	(a)	NA
	03/22/10		(a)	65.14	(a)	NA
	04/17/11		(a)	65.11	(a)	NA
	12/22/11		(a)	65.54	(a)	NA
	04/17/12		(a)	65.53	(a)	NA
	10/15/12		(a)	65.91	(a)	NA
	04/15/13		(a)	66.03	(a)	NA
	11/03/13	3614.46 (h)	(a)	66.05	(a)	3548.41
	05/01/14		(a)	66.08	(a)	3548.38
	11/21/14		(a)	66.62	(a)	3547.84
MPE-20	03/10/09	NA	62.58	64.52	1.94	NA
	10/08/09		62.45	65.34	2.89	NA
	01/26/10		62.28	65.10	2.82	NA
	03/22/10		61.58	64.81	3.23	NA
	04/17/11		62.10	64.45	2.35	NA
	12/22/11		62.70	64.58	1.88	NA
	04/17/12		63.09	64.86	1.77	NA
	10/15/12		64.41	65.23	0.82	NA
	04/15/13		63.52	64.98	1.46	NA
	11/03/13	3611.40 (h)	63.37	64.28	0.91	3547.81
	05/01/14		63.64	65.23	1.59	3547.38
	11/21/14		65.59	66.47	0.88	3545.60
MPE-21	03/10/09	NA	(a)	56.57	(a)	NA
	10/08/09		(a)	57.13	(a)	NA
	01/26/10		(a)	57.71	(a)	NA
	03/22/10		(a)	57.68	(a)	NA
	04/17/11		(a)	57.30	(a)	NA
	12/22/11		(a)	57.82	(a)	NA
	04/17/12		58.20	58.31	0.11	NA
	10/15/12		58.02	58.07	0.05	NA
	04/15/13		57.73	59.11	1.38	NA
	11/03/13	3607.52 (h)	56.94	57.82	0.88	3550.37
	05/01/14		58.32	58.75	0.43	3549.10
	11/21/14		58.71	59.97	1.26	3548.51
MPE-22	03/10/09	NA	(a)	67.17	(a)	NA
	10/08/09		(a)	67.68	(a)	NA
	01/26/10		(a)	67.33	(a)	NA
	03/22/10		(a)	66.99	(a)	NA
	04/17/11		(a)	67.25	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	04/17/12		(a)	67.44	(a)	NA
	10/18/12		(a)	68.20	(a)	NA
	04/15/13		(a)	67.87	(a)	NA
	11/03/13	3616.80 (h)	(a)	68.28	(a)	3548.52
	05/01/14		(a)	68.12	(a)	3548.68
	11/21/14		(a)	68.59	(a)	3548.21

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-23	03/10/09	NA	62.85	64.00	1.15	NA
	10/08/09		62.58	64.90	2.32	NA
	01/26/10		62.84	63.98	1.14	NA
	03/22/10		61.94	62.58	0.64	NA
	04/17/11		62.31	62.78	0.47	NA
	12/22/11		62.45	64.70	2.25	NA
	04/17/12		62.57	64.58	2.01	NA
	10/18/12		63.35	65.36	2.01	NA
	04/15/13		62.78	65.30	2.52	NA
	11/03/13	3612.44 (h)	63.45	65.52	2.07	3548.49
	05/01/14		63.41	64.65	1.24	3548.73
	11/21/14		63.97	65.57	1.6	3548.09
MPE-24	03/10/09	NA	57.55	58.93	1.38	NA
	10/08/09		57.20	59.52	2.32	NA
	01/26/10		57.65	59.92	2.27	NA
	03/22/10		57.41	59.75	2.34	NA
	04/17/11		57.57	59.57	2.00	NA
	12/22/11		58.27	60.95	2.68	NA
	04/17/12		58.43	61.11	2.68	NA
	10/15/12		58.10	64.85	6.75	NA
	04/15/13		58.08	63.22	5.14	NA
	11/03/13	3608.45 (h)	58.33	62.96	4.63	3549.01
	05/01/14		58.61	63.91	5.30	3548.57
	11/21/14		58.58	65.93	7.35	3548.11
MPE-25	03/10/09	NA	(a)	67.13	(a)	NA
	10/08/09		(a)	67.79	(a)	NA
	01/26/10		(a)	67.40	(a)	NA
	03/22/10		(a)	67.07	(a)	NA
	04/17/11		(a)	67.32	(a)	NA
	12/22/11		(a)	67.79	(a)	NA
	04/17/12		(a)	67.50	(a)	NA
	10/18/12		(a)	68.32	(a)	NA
	04/15/13		(a)	68.03	(a)	NA
	11/03/13	3616.99 (h)	(a)	68.46	(a)	3548.53
	05/01/14		(a)	68.20	(a)	3548.79
	11/21/14		(a)	68.74	(a)	3548.25
MPE-26	03/10/09	NA	64.54	64.86	0.32	NA
	10/08/09		65.30	65.70	0.40	NA
	01/26/10		64.84	65.32	0.48	NA
	03/22/10		64.46	65.04	0.58	NA
	04/17/11		(a)	64.70	(a)	NA
	12/22/11		65.19	65.63	0.44	NA
	04/17/12		64.92	65.48	0.56	NA
	10/15/12		65.60	66.10	0.50	NA
	04/15/13		65.54	66.05	0.51	NA
	11/03/13	3614.30 (h)	65.78	65.82	0.04	3548.51
	05/01/14		65.71	65.96	0.25	3548.53
	11/21/14		66.28	66.63	0.35	3547.94

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-27	03/10/09	NA	62.65	64.96	2.31	NA
	10/08/09		63.05	69.05	6.00	NA
	01/26/10		(a)	62.92	(a)	NA
	03/22/10		62.60	64.38	1.78	NA
	04/17/11		62.54	tag top of pump	NA	NA
	12/22/11		(a)	62.81	(a)	NA
	04/17/12		63.34	63.63	0.29	NA
	10/15/12		64.62	65.38	0.76	NA
	04/15/13		(a)	tag top of pump	NA	NA
	11/03/13	3612.96 (h)	62.92	65.70	2.78	3549.37
	05/01/14		63.75	67.31	3.56	3548.36
	11/21/14		(a)	65.48	(a)	3547.48
MPE-28	03/10/09	NA	55.01	59.20	4.19	NA
	10/08/09		56.72	60.21	3.49	NA
	01/26/10		56.12	59.78	3.66	NA
	03/22/10		55.50	59.20	3.70	NA
	04/17/11		(a)	56.78	(a)	NA
	12/22/11		(a)	58.61	(a)	NA
	04/17/12		(a)	57.45	(a)	NA
	10/15/12		(a)	58.30	(a)	NA
	04/15/13		57.85	57.88	0.03	NA
	11/03/13	3607.49 (h)	(a)	58.39	(a)	3549.10
	05/01/14		58.32	58.40	0.08	3549.09
	11/21/14		(a)	60.74	(a)	3546.75
MPE-29	03/10/09	NA	(a)	67.35	(a)	NA
	10/08/09		(a)	68.38	(a)	NA
	03/22/10		(a)	67.58	(a)	NA
	04/17/11		(a)	67.73	(a)	NA
	12/22/11		(a)	68.38	(a)	NA
	04/17/12		(a)	67.98	(a)	NA
	10/18/12		(a)	68.95	(a)	NA
	04/15/13		(a)	68.44	(a)	NA
	11/03/13	3617.10 (h)	(a)	69.00	(a)	3548.10
	05/01/14		(a)	68.68	(a)	3548.42
	11/21/14		(a)	69.41	(a)	3547.69
MPE-30	03/10/09	NA	(a)	64.92	(a)	NA
	10/08/09		(a)	66.20	(a)	NA
	03/22/10		(a)	65.41	(a)	NA
	04/17/11		(a)	65.25	(a)	NA
	12/22/11		(a)	65.91	(a)	NA
	04/17/12		(a)	65.78	(a)	NA
	10/18/12		(a)	66.46	(a)	NA
	04/15/13		(a)	66.35	(a)	NA
	11/03/13	3616.01 (h)	(a)	66.93	(a)	3549.08
	05/01/14		(a)	66.97	(a)	3549.04
	11/21/14		(a)	67.36	(a)	3548.65

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-31	03/10/09	NA	63.22	63.24	0.02	NA
	10/08/09		(a)	65.28	(a)	NA
	01/26/10		(a)	63.99	(a)	NA
	03/22/10		63.46	63.47	0.01	NA
	04/17/11		(a)	63.41	(a)	NA
	12/22/11		64.22	64.69	0.47	NA
	04/17/12		64.04	64.45	0.41	NA
	10/18/12		65.28	65.82	0.54	NA
	04/15/13		64.16	65.16	1.00	NA
	11/03/13	3613.18 (h)	64.64	65.11	0.47	3548.43
	05/01/14		64.62	65.64	1.02	3548.32
	11/21/14		65.79	66.39	0.60	3547.25
MPE-32	03/10/09	NA	57.01	59.81	2.80	NA
	10/08/09		(a)	62.21	(a)	NA
	01/26/10		57.90	61.23	3.33	NA
	03/22/10		(a)	57.30	(a)	NA
	04/17/11		(a)	57.32	(a)	NA
	12/22/11		(a)	56.62	(a)	NA
	04/17/12		58.55	61.08	2.53	NA
	10/15/12		NA	Tag top of pump	NA	NA
	04/15/13		59.16	59.35	0.19	NA
	11/03/13	3607.41 (h)	(a)	60.03	(a)	3547.38
	05/01/14		59.65	60.53	0.88	3546.88
	11/21/14		(a)	62.50	(a)	3544.91
MPE-33	03/10/09	NA	(a)	53.82	(a)	NA
	10/08/09		(a)	56.63	(a)	NA
	03/22/10		(a)	54.56	(a)	NA
	04/17/11		(a)	54.73	(a)	NA
	12/22/11		(a)	56.65	(a)	NA
	04/17/12		(a)	55.85	(a)	NA
	10/15/12		(a)	58.43	(a)	NA
	04/15/13		(a)	56.43	(a)	NA
	11/03/13	3603.22 (h)	(a)	57.14	(a)	3546.08
	05/01/14		(a)	56.65	(a)	3546.57
	11/21/14		(a)	58.46	(a)	3544.76
MPE-34	03/10/09	NA	(a)	65.24	(a)	NA
	10/08/09		(a)	65.78	(a)	NA
	03/22/10		(a)	65.56	(a)	NA
	04/17/11		(a)	65.40	(a)	NA
	12/22/11		(a)	65.76	(a)	NA
	04/17/12		(a)	65.79	(a)	NA
	10/18/12		(a)	66.15	(a)	NA
	04/15/13		(a)	66.20	(a)	NA
	11/03/13	3616.24 (h)	(a)	66.28	(a)	3549.96
	05/01/14		(a)	66.23	(a)	3550.01
	11/21/14		(a)	65.89	(a)	3550.35

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-35	03/10/09	NA	(a)	59.29	(a)	NA
	10/08/09		(a)	59.96	(a)	NA
	03/22/10		(a)	59.36	(a)	NA
	04/17/11		(a)	59.16	(a)	NA
	12/22/11		(a)	59.67	(a)	NA
	04/17/12		(a)	59.80	(a)	NA
	10/15/12		(a)	60.00	(a)	NA
	04/15/13		(a)	60.08	(a)	NA
	11/03/13	3609.95 (h)	59.96	60.32	0.36	3549.90
	11/13/13		60.04	60.35	0.31	3549.84
	05/01/14		60.08	60.30	0.22	3549.82
	11/21/14		59.51	60.04	0.53	3550.31
MPE-36	03/10/09	NA	(a)	54.45	(a)	NA
	10/08/09		(a)	57.35	(a)	NA
	03/22/10		(a)	55.09	(a)	NA
	04/17/11		(a)	54.78	(a)	NA
	12/22/11		(a)	56.05	(a)	NA
	04/17/12		(a)	55.99	(a)	NA
	10/15/12		(a)	57.20	(a)	NA
	04/15/13		(a)	56.35	(a)	NA
	11/03/13	3604.60 (h)	(a)	56.58	(a)	3548.02
	05/01/14		(a)	56.78	(a)	3547.82
	11/21/14		(a)	53.13	(a)	3551.47
MPE-37	03/10/09	NA	(a)	51.90	(a)	NA
	10/08/09		(a)	56.51	(a)	NA
	03/22/10		(a)	52.40	(a)	NA
	04/17/11		(a)	52.22	(a)	NA
	12/22/11		(a)	53.48	(a)	NA
	04/17/12		(a)	53.26	(a)	NA
	10/15/12		(a)	54.68	(a)	NA
	04/15/13		(a)	53.63	(a)	NA
	11/03/13	3601.20 (h)	(a)	54.05	(a)	3547.15
	05/01/14		(a)	54.03	(a)	3547.17
	11/21/14		(a)	56.17	(a)	3545.03
MPE-38	08/16/13	3613.81 (h)	63.85	68.88	5.03	3548.75
	11/03/13		65.89	68.62	2.73	3547.26
	05/01/14		66.14	69.00	2.86	3546.98
	11/21/14		67.31	69.85	2.54	3545.89
MPE-39	08/16/13	3608.26 (h)	(a)	60.45	(a)	3547.81
	11/03/13		(a)	60.21	(a)	3548.05
	05/01/14		60.35	60.48	0.13	3547.78
	11/21/14		61	61.26	0.26	3547.20
MPE-40	08/16/13	3610.84 (h)	61.52	61.95	0.43	3549.22
	11/03/13		61.95	62.25	0.30	3548.82
	05/01/14		61.80	62.15	0.35	3548.96
	11/21/14		62.81	63.21	0.40	3547.93
MPE-41	08/16/13	3605.49 (h)	60.40	60.90	0.50	3544.97
	11/03/13		56.19	62.74	6.55	3547.73
	11/13/13		56.58	62.72	6.14	3547.44
	05/01/14		56.35	62.85	6.50	3547.58
	11/21/14		60.87	61.23	0.36	3544.53

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
SVE-22	03/10/09	NA	33.00	33.20	0.20	NA
	10/08/09		32.92	33.10	0.18	NA
	01/26/10		33.05	33.05 (TD)	0.00	NA
	03/22/10		33.02	33.02 (TD)	0.00	NA
	04/17/11		32.90	33.00 (TD)	0.10	NA
	12/22/11		(a)	33.04	(a)	NA
	04/17/12		(a)	33.00 (TD)	(a)	NA
	10/18/12		(a)	33.00 (TD)	(a)	NA
	04/15/13		(a)	32.98	(a)	NA
	11/03/13		(a)	33.08	(a)	3583.68
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
SVE-23	03/10/09	NA	32.78	36.75	3.97	NA
	10/08/09		33.01	33.79	0.78	NA
	01/26/10		33.12	36.98 (TD)	3.86	NA
	03/22/10		32.09	33.65	1.56	NA
	04/17/11		33.00	33.30	0.30	NA
	12/22/11		33.60	34.05	0.45	NA
	04/17/12		33.62	34.10	0.48	NA
	10/18/12		34.11	34.68	0.57	NA
	04/15/13		33.65	33.92	0.27	NA
	11/03/13		33.73	36.52	2.79	3578.05
	05/01/14		33.78	36.80	3.02	3577.95
	11/21/14		32.15	32.84	0.69	3580.13
SVE-24	03/10/09	NA	(a)	dry	(a)	NA
	10/08/09		(a)	dry	(a)	NA
	01/26/10		(a)	dry	(a)	NA
	03/22/10		(a)	dry	(a)	NA
	04/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	04/15/13		(a)	dry	(a)	NA
	11/03/13		(a)	dry	(a)	NA
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
SVE-25	03/10/09	NA	(a)	32.70	(a)	NA
	10/08/09		(a)	31.40	(a)	NA
	01/26/10		(a)	dry	(a)	NA
	03/22/10		(a)	32.80	(a)	NA
	04/17/11		(a)	32.23	(a)	NA
	12/22/11		(a)	32.65	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	32.70	(a)	NA
	04/15/13		(a)	dry	(a)	NA
	11/03/13		(a)	32.72	(a)	3584.30
	05/01/14		(a)	32.70	(a)	3584.32
	11/21/14		(a)	dry	(a)	NA

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
SVE-26	03/10/09	NA	(a)	dry	(a)	NA
	10/08/09		(a)	dry	(a)	NA
	01/26/10		(a)	dry	(a)	NA
	03/22/10		(a)	dry	(a)	NA
	04/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	04/15/13		(a)	dry	(a)	NA
	11/03/13		(a)	dry	(a)	NA
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
SVE-27	03/10/09	NA	(a)	32.92	(a)	NA
	10/08/09		(a)	33.63	(a)	NA
	01/26/10		(a)	dry	(a)	NA
	03/22/10		(a)	33.70	(a)	NA
	04/17/11		(a)	33.70	(a)	NA
	12/22/11		(a)	33.83	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	04/15/13		(a)	33.82	(a)	NA
	11/03/13		(a)	dry	(a)	NA
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	33.01	(a)	3580.18
SVE-28	03/10/09	NA	(a)	28.60	(a)	NA
	10/08/09		(a)	28.95	(a)	NA
	01/26/10		(a)	dry	(a)	NA
	03/22/10		(a)	29.07	(a)	NA
	04/17/11		(a)	29.17	(a)	NA
	12/22/11		(a)	29.65	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	04/15/13		(a)	33.58	(a)	NA
	11/03/13		(a)	dry	(a)	NA
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	28.59	(a)	3579.25
SVE-30	03/10/09	NA	(a)	39.32	(a)	NA
	10/08/09		(a)	39.29	(a)	NA
	03/22/10		(a)	40.28	(a)	NA
	04/17/11		(a)	40.11	(a)	NA
	12/22/11		(a)	41.11	(a)	NA
	04/17/12		(a)	41.65	(a)	NA
	10/18/12		(a)	41.42	(a)	NA
	04/15/13		(a)	41.67	(a)	NA
	11/03/13		(a)	43.02	(a)	3572.98
	05/01/14		(a)	43.35	(a)	3572.65
	11/21/14		(a)	43.30	(a)	3572.70

**Table 4-2. Summary of Groundwater Surface Elevations  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Groundwater (ft)	PSH (ft)	Groundwater Surface Elevation (ft)
SVE-31	03/10/09	NA	(a)	30.45	(a)	NA
	10/08/09		(a)	30.43	(a)	NA
	01/26/10		(a)	30.55	(a)	NA
	03/22/10		(a)	31.49	(a)	NA
	04/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	28.50	(a)	NA
	04/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	04/15/13		(a)	dry	(a)	NA
	11/03/13	3612.67 (h)	(a)	dry	(a)	NA
	05/01/14		(a)	dry	(a)	NA
	11/21/14		(a)	30.27	(a)	3582.40
RW-1	03/10/09	NA	(a)	33.17	(a)	NA
	10/08/09		(a)	33.48	(a)	NA
	03/22/10		(a)	33.62	(a)	NA
	04/17/11		(a)	33.80	(a)	NA
	12/22/11		(a)	34.26	(a)	NA
	04/17/12		(a)	34.57	(a)	NA
	10/18/12		(a)	35.16	(a)	NA
	04/15/13		(a)	35.77	(a)	NA
	11/03/13	3612.72 (h)	(a)	34.95	(a)	3577.77
	04/30/14		(a)	35.48	(a)	3577.24
	11/19/14		(a)	32.46	(a)	3580.26

Notes:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for PSH is calculated assuming a specific gravity of 0.76

(NA) Information not available

(a) Not applicable since no measurable thickness of PSH is present

(b) Elevation based on survey by Wagener Engineering dated 5/6/98

(c) Elevation based on survey by Wagener Engineering dated 9/17/98

(d) Elevation based on survey by Wagener Engineering dated 11/29/00

(e) Elevation based on survey by Wagener Engineering dated 10/03/01

(f) Elevation based on survey by Cypress Engineering dated 03/14/03

(g) Elevation based on survey by Cypress Engineering dated 06/23/07

(h) Elevation based on survey by PR Patton & Associates dated 10/01/13

Historical data before 2009 is presented in previous reports

Historical data for wells that were plugged and abandoned is not shown.



**Table 4-3. Sampling and Analysis Plan**  
**Transwestern Compressor Station No. 9 - Roswell, NM**

Well ID	1st Semiannual Event Analytical Requirements	2nd Semiannual Event Analytical Requirements	Date of Most Recent Sample	Benzene (ppb) Most Recent Sample	Consecutive Events < NMWQCC Standard or EPA MCL	Comments
MW-1B	---	---	na	na	na	PSH in well
MW-2	---	---	na	na	na	Insufficient water to sample
MW-3	---	---	09/16/08	<1	20	clean perimeter well
MW-7	---	---	09/11/08	<1	21	clean perimeter well
MW-10	---	---	09/16/08	<1	18	clean perimeter well
MW-11	---	---	09/11/08	<1	18	clean perimeter well
MW-12	---	---	na	na	na	PSH in well
MW-13	---	BTEX	12/01/14	<1	18	Previously contained elevated benzene
MW-14	---	BTEX	12/01/14	<1	7	Previously contained elevated benzene
MW-15	---	---	09/11/08	<1	18	clean perimeter well
MW-16	BTEX	BTEX	12/01/14	610	0	Previously contained PSH in well
MW-17	---	---	09/11/08	<1	18	clean perimeter well
MW-20	VOCs	VOCs	12/01/14	6.7 (DCE)	0	COCs: DCA, DCE, TCA
MW-21	---	BTEX	12/01/14	<1	17	Previously contained elevated benzene
MW-22	VOCs	VOCs	12/01/14	1.5 (DCE)	24	COCs: DCA, DCE, TCA
MW-24D	---	BTEX	12/01/14	<1	4	clean deep well
MW-26	VOCs	VOCs	12/01/14	52 (DCE)	0	COCs: DCA, DCE, TCA
MW-27	BTEX	BTEX	12/29/14	<100	2	PSH in well
MW-28	---	---	09/10/08	<1	12	clean perimeter well
MW-29	BTEX	BTEX	12/01/14	<1	10	Previously contained elevated benzene
MW-30	---	---	09/16/08	<1	12	clean perimeter well
MW-32	BTEX	BTEX	11/25/14	<1	16	Previously contained elevated benzene
MW-33	---	---	09/10/08	<1	9	clean perimeter well
MW-34	BTEX	BTEX	12/01/14	<1	2	Elevated benzene
MW-35	BTEX	BTEX	11/25/14	<1	25	clean downgradient well
MW-37	BTEX	BTEX	11/25/14	<1	15	clean downgradient well
MW-39	VOCs	VOCs	12/01/14	26 (DCE)	0	COCs: DCA, DCE, TCA
MW-40	VOCs	VOCs	12/01/14	<1 (DCE)	3	clean downgradient well
MW-41	VOCs	VOCs	12/01/14	1.1 (DCE)	3	COCs: DCA, DCE, TCA
MW-42	VOCs	VOCs	12/01/14	<1 (DCE)	3	clean downgradient well

Notes:

- 1) Non-detect results are shown with the "<" symbol followed by the reporting limit
- 2) na - not available; well is not part of the sampling plan
- 3) BTEX (Benzene, Toluene, Ethylbenzene and Xylenes) and VOCs (Volatile Organic Compounds) to be analyzed by EPA method 8260

**Table 4-4. Summary of Groundwater Analytical Results  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
NMWQCC Standard:		10	750	750	620	25	5
USEPA MCL:		5	1000	700	10000	none	7
MW-13	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/24/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-14	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-16	10/21/12	<b>1000</b>	< 50	270	<b>2300</b>	NA	NA
	04/17/13	<b>650</b>	< 50	210	<b>2400</b>	NA	NA
	11/18/13	<b>320</b>	50	210	<b>1900</b>	NA	NA
	05/04/14	<b>400</b>	< 10	310	<b>2300</b>	NA	NA
	12/02/14	<b>610</b>	16	180	<b>2100</b>	NA	NA
MW-20	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	14	<b>35</b>
	10/07/09	2.8	< 1.0	< 1.0	< 1.5	7.2	<b>13</b>
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	13	<b>28</b>
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	4.6	<b>9.7</b>
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	14	<b>22</b>
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	5.1	<b>6.4</b>
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.4	<b>8.6</b>
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	2.9	<b>8.1</b>
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	3.2	4.5
	11/18/13	< 1.0	< 1.0	< 1.0	< 1.5	1.8	1.6
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	4.8	3.9
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	8.0	<b>6.7</b>

**Table 4-4. Summary of Groundwater Analytical Results  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
NMWQCC Standard:		10	750	750	620	25	5
USEPA MCL:		5	1000	700	10000	none	7
MW-21	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/25/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-22	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1
	09/23/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.6
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1
	10/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.2
	11/18/13	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 2.0
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.5
	12/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.5
MW-23D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/21/12	1.6	8.1	2.8	10	NA	NA
	12/14/12	< 1.0	1.4	< 1.0	< 2.0	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
*Well Plugged 08/2013							
MW-24D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/21/12	< 1.0	2.1	1.0	3.5	NA	NA
	12/14/12	<b>9.6</b>	17	4.9	14	NA	NA
	01/21/13	< 1.0	< 1.0	3.3	6.0	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/26/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA

**Table 4-4. Summary of Groundwater Analytical Results  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
NMWQCC Standard:		10	750	750	620	25	5
USEPA MCL:		5	1000	700	10000	none	7
MW-25D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/21/12	< 1.0	1.2	< 1.0	2.2	NA	NA
	12/14/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/17/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
*Well Plugged 08/2013							
MW-26	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	4.2	<b>43</b>
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	5.5	<b>42</b>
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	5.5	<b>60</b>
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	6.2	<b>50</b>
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	5.9	<b>60</b>
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	7.8	<b>57</b>
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.7	<b>53</b>
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	5.6	<b>54</b>
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	6.2	<b>53</b>
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	6.0	<b>45</b>
	05/04/14	< 1.0	< 1.0	< 1.0	< 3.0	10.0	<b>65</b>
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	7.6	<b>52</b>
MW-29	03/11/09	4.1	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	<b>8.4</b>	< 1.0	< 1.0	< 3.0	NA	NA
	03/30/10	1.4	< 1.0	< 1.0	< 2.0	NA	NA
	09/23/10	1.3	< 1.0	< 1.0	< 3.0	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA

**Table 4-4. Summary of Groundwater Analytical Results  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
NMWQCC Standard:		10	750	750	620	25	5
USEPA MCL:		5	1000	700	10000	none	7
MW-32	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	01/02/12	1.8	< 1.0	< 1.0	< 2.0	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-34	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	04/19/11	<b>20</b>	< 1.0	< 1.0	< 2.0	NA	NA
	01/02/12	<b>210</b>	< 1.0	< 1.0	< 2.0	NA	NA
	04/18/12	<b>210</b>	< 1.0	< 1.0	< 2.0	NA	NA
	10/19/12	<b>140</b>	< 1.0	< 1.0	< 2.0	NA	NA
	04/16/13	<b>60</b>	< 1.0	< 1.0	< 2.0	NA	NA
	11/14/13	<b>7.2</b>	< 1.0	< 1.0	< 2.0	NA	NA
	05/02/14	5.0	< 1.0	< 1.0	< 3.0	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-35	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
MW-37	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA

**Table 4-4. Summary of Groundwater Analytical Results  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
NMWQCC Standard:		10	750	750	620	25	5
USEPA MCL:		5	1000	700	10000	none	7
MW-39	08/16/13	2.8	< 1.0	< 1.0	< 1.5	2.0	<b>19</b>
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	1.6	<b>15</b>
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	3.0	<b>26</b>
MW-40	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0
MW-41	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	11/24/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.1
MW-42	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0

Notes:

Only constituents detected in one or more groundwater samples are shown in this table

All results reported above the applicable standard are shown in bold type

NA - Not analyzed; constituent is not part of the sampling plan

Historical data before 2009 is presented in previous reports

**Table 4-5. Summary of Groundwater Analytical Results  
for Samples Below PSH  
Transwestern Compressor Station No. 9 - Roswell, NM**

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)
NMWQCC Standard:		10	750	750	620
USEPA MCL:		5	1000	700	10000
MW-27	05/14/14	< 20.0	< 20.0	36	72
	12/29/14	< 100	< 100	< 100	< 300
MPE-13	05/14/14	<b>5.2</b>	< 2.0	10	35
MPE-31	05/14/14	<b>130</b>	< 20.0	370	460
	12/29/14	< 100	150	< 100	< 300
MPE-39	12/29/14	<b>4700</b>	<b>1400</b>	<b>240</b>	<b>1900</b>

Notes:

All results reported above the applicable standard are shown in bold type

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
12/31/03										2003-2008
11/18/08					1,241,140					1,241,140
05/01/09	1200	CB	964480	15,180	15,180	164.0	164.0	93	0.06	
05/16/09	1200	CB	976370	11,890	27,070	15.0	179.0	793	0.55	
05/20/09	1200	CB	985920	9,550	36,620	4.0	183.0	2388	1.66	
05/25/09	1200	CB	1003890	17,970	54,590	5.0	188.0	3594	2.50	
05/29/09	1200	CB	1014750	10,860	65,450	4.0	192.0	2715	1.89	
05/31/09	1200	CB	1019820	5,070	70,520	2.0	194.0	2535	1.76	
06/04/09	1200	CB	1030720	10,900	81,420	4.0	198.0	2725	1.89	
06/08/09	1200	CB	1040710	9,990	91,410	4.0	202.0	2498	1.73	
06/15/09	1200	CB	1055760	15,050	106,460	7.0	209.0	2150	1.49	
06/20/09	1200	CB	1064810	9,050	115,510	5.0	214.0	1810	1.26	
06/25/09	1200	CB	1068440	3,630	119,140	5.0	219.0	726	0.50	
07/04/09	1200	CB	1074550	6,110	125,250	9.0	228.0	679	0.47	
07/07/09	1200	CB	1082120	7,570	132,820	3.0	231.0	2523	1.75	
07/13/09	1200	CB	1094120	12,000	144,820	6.0	237.0	2000	1.39	
07/17/09	1200	CB	1098480	4,360	149,180	4.0	241.0	1090	0.76	
07/21/09	1200	CB	1105500	7,020	156,200	4.0	245.0	1755	1.22	
07/27/09	1200	CB	1107950	2,450	158,650	6.0	251.0	408	0.28	
07/31/09	1200	CB	1110600	2,650	161,300	4.0	255.0	663	0.46	
08/04/09	1200	CB	1112060	1,460	162,760	4.0	259.0	365	0.25	
08/10/09	1200	CB	1124810	12,750	175,510	6.0	265.0	2125	1.48	
08/13/09	1200	CB	1130140	5,330	180,840	3.0	268.0	1777	1.23	
08/17/09	1200	CB	1137560	7,420	188,260	4.0	272.0	1855	1.29	
08/21/09	1200	CB	1145780	8,220	196,480	4.0	276.0	2055	1.43	
08/28/09	1200	CB	1158470	12,690	209,170	7.0	283.0	1813	1.26	
09/01/09	1200	CB	1158960	490	209,660	4.0	287.0	123	0.09	
09/07/09	1200	CB	1162130	3,170	212,830	6.0	293.0	528	0.37	
09/14/09	1200	CB	1163840	1,710	214,540	7.0	300.0	244	0.17	
09/21/09	1200	CB	1165080	1,240	215,780	7.0	307.0	177	0.12	
09/25/09	1200	CB	1165680	600	216,380	4.0	311.0	150	0.10	
09/30/09	1200	CB	1166290	610	216,990	5.0	316.0	122	0.08	
10/06/09	1200	CB	1176620	10,330	227,320	6.0	322.0	1722	1.20	
10/12/09	1200	CB	1177250	630	227,950	6.0	328.0	105	0.07	
10/22/09	1200	CB	1180690	3,440	231,390	10.0	338.0	344	0.24	
10/26/09	1200	CB	1180920	230	231,620	4.0	342.0	58	0.04	



**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
10/31/09	1200	CB	1187620	6,700	238,320	5.0	347.0	1340	0.93	
11/05/09	1200	CB	1196570	8,950	247,270	5.0	352.0	1790	1.24	
11/16/09	1200	CB	1214350	17,780	265,050	11.0	363.0	1616	1.12	2009
11/23/09	1200	CB	1223480	9,130	274,180	7.0	370.0	1304	0.91	274,180
06/20/10	1200	CB	1223490	10	274,190	209.0	579.0	0	0.00	
06/24/10	1200	CB	1224100	610	274,800	4.0	583.0	153	0.11	
06/30/10	1200	CB	1227190	3,090	277,890	6.0	589.0	515	0.36	
07/07/10	1200	CB	1232290	5,100	282,990	7.0	596.0	729	0.51	
07/14/10	1200	CB	1235080	2,790	285,780	7.0	603.0	399	0.28	
07/19/10	1200	CB	1236340	1,260	287,040	5.0	608.0	252	0.18	
07/26/10	1200	CB	1242910	6,570	293,610	7.0	615.0	939	0.65	
07/30/10	1200	CB	1248140	5,230	298,840	4.0	619.0	1308	0.91	
08/05/10	1200	CB	1248520	380	299,220	6.0	625.0	63	0.04	
08/10/10	1200	CB	1250320	1,800	301,020	5.0	630.0	360	0.25	
08/19/10	1200	CB	1252630	2,310	303,330	9.0	639.0	257	0.18	
08/23/10	1200	CB	1258090	5,460	308,790	4.0	643.0	1365	0.95	
08/30/10	1200	CB	1265630	7,540	316,330	7.0	650.0	1077	0.75	
09/06/10	1200	CB	1274270	8,640	324,970	7.0	657.0	1234	0.86	
09/14/10	1200	CB	1279310	5,040	330,010	8.0	665.0	630	0.44	
09/20/10	1200	CB	1286040	6,730	336,740	6.0	671.0	1122	0.78	
09/21/10	1200	CB	1287050	1,010	337,750	1.0	672.0	1010	0.70	
09/28/10	1200	CB	1288380	1,330	339,080	7.0	679.0	190	0.13	
11/05/10	1200	CB	1288390	10	339,090	38.0	717.0	0	0.00	
11/08/10	1200	CB	1290290	1,900	340,990	3.0	720.0	633	0.44	2010
11/10/10	1200	CB	1292380	2,090	343,080	2.0	722.0	1045	0.73	68,900
06/28/11	1200	CB	1292590	210	343,290	230.0	952.0	1	0.00	
06/30/11	1200	CB	1294730	2,140	345,430	2.0	954.0	1070	0.74	
07/13/11	1200	CB	1297670	2,940	348,370	13.0	967.0	226	0.16	
07/20/11	1200	CB	1303020	5,350	353,720	7.0	974.0	764	0.53	
08/01/11	1200	CB	1304610	1,590	355,310	12.0	986.0	133	0.09	
08/12/11	1200	CB	1312240	7,630	362,940	11.0	997.0	694	0.48	
08/19/11	1200	CB	1313260	1,020	363,960	7.0	1004.0	146	0.10	
08/23/11	1200	CB	1315750	2,490	366,450	4.0	1008.0	623	0.43	
08/30/11	1200	CB	1316650	900	367,350	7.0	1015.0	129	0.09	
09/03/11	1200	CB	1317270	620	367,970	4.0	1019.0	155	0.11	
09/09/11	1200	CB	1319870	2,600	370,570	6.0	1025.0	433	0.30	

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
09/13/11	1200	CB	1321030	1,160	371,730	4.0	1029.0	290	0.20	
09/22/11	1200	CB	1321270	240	371,970	9.0	1038.0	27	0.02	
09/25/11	1200	CB	1326090	4,820	376,790	3.0	1041.0	1607	1.12	
09/28/11	1200	CB	1329140	3,050	379,840	3.0	1044.0	1017	0.71	
09/30/11	1200	CB	1331610	2,470	382,310	2.0	1046.0	1235	0.86	
10/04/11	1200	CB	1336700	5,090	387,400	4.0	1050.0	1273	0.88	
10/10/11	1200	CB	1344310	7,610	395,010	6.0	1056.0	1268	0.88	
10/14/11	1200	CB	1348220	3,910	398,920	4.0	1060.0	978	0.68	
10/17/11	1200	CB	1352830	4,610	403,530	3.0	1063.0	1537	1.07	
10/20/11	1200	CB	1355140	2,310	405,840	3.0	1066.0	770	0.53	
10/25/11	1200	CB	1356640	1,500	407,340	5.0	1071.0	300	0.21	
11/01/11	1200	CB	1357820	1,180	408,520	7.0	1078.0	169	0.12	
11/06/11	1200	CB	1370170	12,350	420,870	5.0	1083.0	2470	1.72	
11/14/11	1200	CB	1378250	8,080	428,950	8.0	1091.0	1010	0.70	
11/19/11	1200	CB	1383060	4,810	433,760	5.0	1096.0	962	0.67	
11/25/11	1200	CB	1388650	5,590	439,350	6.0	1102.0	932	0.65	2011
11/30/11	1200	CB	1390930	2,280	441,630	5.0	1107.0	456	0.32	98,550
04/20/12	1200	CB	1390930	0	441,630	142.0	1249.0	0	0.00	
04/26/12	1200	CB	1408050	17,120	458,750	6.0	1255.0	2853	1.98	
04/28/12	1200	CB	1411210	3,160	461,910	2.0	1257.0	1580	1.10	
04/30/12	1200	CB	1413930	2,720	464,630	2.0	1259.0	1360	0.94	
05/04/12	1200	CB	1416840	2,910	467,540	4.0	1263.0	728	0.51	
05/07/12	1200	CB	1420770	3,930	471,470	3.0	1266.0	1310	0.91	
05/12/12	1200	CB	1424710	3,940	475,410	5.0	1271.0	788	0.55	
05/17/12	1200	CB	1430680	5,970	481,380	5.0	1276.0	1194	0.83	
05/22/12	1200	CB	1436750	6,070	487,450	5.0	1281.0	1214	0.84	
05/27/12	1200	CB	1442280	5,530	492,980	5.0	1286.0	1106	0.77	
05/31/12	1200	CB	1444830	2,550	495,530	4.0	1290.0	638	0.44	
06/06/12	1200	CB	1450860	6,030	501,560	6.0	1296.0	1005	0.70	
06/14/12	1200	CB	1452950	2,090	503,650	8.0	1304.0	261	0.18	
06/22/12	1200	CB	1453470	520	504,170	8.0	1312.0	65	0.05	
06/27/12	1200	CB	1459530	6,060	510,230	5.0	1317.0	1212	0.84	
07/04/12	1200	CB	1464990	5,460	515,690	7.0	1324.0	780	0.54	
07/11/12	1200	CB	1470150	5,160	520,850	7.0	1331.0	737	0.51	
07/20/12	1200	CB	1474920	4,770	525,620	9.0	1340.0	530	0.37	
07/25/12	1200	CB	1479740	4,820	530,440	5.0	1345.0	964	0.67	

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
07/31/12	1200	CB	1479740	0	530,440	6.0	1351.0	0	0.00	
08/06/12	1200	CB	1482850	3,110	533,550	6.0	1357.0	518	0.36	
08/10/12	1200	CB	1484650	1,800	535,350	4.0	1361.0	450	0.31	
08/15/12	1200	CB	1486280	1,630	536,980	5.0	1366.0	326	0.23	
08/21/12	1200	CB	1491810	5,530	542,510	6.0	1372.0	922	0.64	
08/25/12	1200	CB	1496550	4,740	547,250	4.0	1376.0	1185	0.82	
08/30/12	1200	CB	1498830	2,280	549,530	5.0	1381.0	456	0.32	
09/05/12	1200	CB	1502280	3,450	552,980	6.0	1387.0	575	0.40	
09/09/12	1200	CB	1505820	3,540	556,520	4.0	1391.0	885	0.61	
09/13/12	1200	CB	1509500	3,680	560,200	4.0	1395.0	920	0.64	
09/17/12	1200	CB	1510800	1,300	561,500	4.0	1399.0	325	0.23	
09/25/12	1200	CB	1513290	2,490	563,990	8.0	1407.0	311	0.22	
09/30/12	1200	CB	1519120	5,830	569,820	5.0	1412.0	1166	0.81	
10/03/12	1200	CB	1520950	1,830	571,650	3.0	1415.0	610	0.42	
10/08/12	1200	CB	1522170	1,220	572,870	5.0	1420.0	244	0.17	
10/23/12	1200	CB	1522170	0	572,870	15.0	1435.0	0	0.00	
10/25/12	1200	CB	1524400	2,230	575,100	2.0	1437.0	1115	0.77	
10/31/12	1200	CB	1531100	6,700	581,800	6.0	1443.0	1117	0.78	
11/05/12	1200	CB	1537050	5,950	587,750	5.0	1448.0	1190	0.83	
11/11/12	1200	CB	1540910	3,860	591,610	6.0	1454.0	643	0.45	
11/28/12	1200	CB	1541110	200	591,810	17.0	1471.0	12	0.01	2012
11/30/12	1200	CB	1541170	60	591,870	2.0	1473.0	30	0.02	150,240
04/19/13	1200	CB	1541170	0	591,870	140.0	1613.0	0	0.00	
04/20/13	1200	CB	1542440	1,270	593,140	1.0	1614.0	1270	0.88	
04/22/13	1200	CB	1545800	3,360	596,500	2.0	1616.0	1680	1.17	
04/30/13	1200	CB	1553090	7,290	603,790	8.0	1624.0	911	0.63	
05/23/13	1200	CB	1576010	22,920	626,710	23.0	1647.0	997	0.69	
05/29/13	1200	CB	1576100	90	626,800	6.0	1653.0	15	0.01	
05/31/13	1200	CB	1577610	1,510	628,310	2.0	1655.0	755	0.52	
06/30/13	1200	CB	1614920	37,310	665,620	30.0	1685.0	1244	0.86	2013
07/24/13	1200	CB	1641540	26,620	692,240	24.0	1709.0	1109	0.77	100,370
07/24/14	800	MB	1641550	10	692,250	364.8	2073.8	0	0.00	
07/27/14	1030	MB	1642070	520	692,770	3.1	2076.9	168	0.12	
07/28/14	800	MB	1643170	1,100	693,870	0.9	2077.8	1217	0.84	
07/29/14	1700	MB	1644160	990	694,860	1.4	2079.2	720	0.50	
07/30/14	730	MB	1644640	480	695,340	0.6	2079.8	806	0.56	

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
07/31/14	900	MB	1645550	910	696,250	1.1	2080.9	850	0.59	
08/01/14	830	MB	1646660	1,110	697,360	1.0	2081.8	1143	0.79	
08/02/14	800	MB	1648100	1,440	698,800	1.0	2082.8	1458	1.01	
08/03/14	700	MB	1648880	780	699,580	1.0	2083.8	814	0.57	
08/04/14	900	MB	1649150	270	699,850	1.1	2084.9	249	0.17	
08/05/14	830	MB	1649990	840	700,690	1.0	2085.8	865	0.60	
08/06/14	800	MB	1651230	1,240	701,930	1.0	2086.8	1256	0.87	
08/07/14	800	MB	1651230	0	701,930	1.0	2087.8	0	0.00	
08/08/14	800	MB	1652880	1,650	703,580	1.0	2088.8	1650	1.15	
08/09/14	800	MB	1653900	1,020	704,600	1.0	2089.8	1020	0.71	
08/10/14	1030	MB	1654670	770	705,370	1.1	2090.9	703	0.49	
08/11/14	730	MB	1654910	240	705,610	0.9	2091.8	274	0.19	
08/12/14	700	MB	1655830	920	706,530	1.0	2092.8	932	0.65	
08/13/14	930	MB	1656750	920	707,450	1.1	2093.9	840	0.58	
08/14/14	900	MB	1658060	1,310	708,760	1.0	2094.9	1327	0.92	
08/15/14	830	MB	1658840	780	709,540	1.0	2095.8	803	0.56	
08/16/14	830	MB	1659880	1,040	710,580	1.0	2096.8	1040	0.72	
08/17/14	1045	MB	1660910	1,030	711,610	1.1	2097.9	945	0.66	
08/18/14	1445	MB	1661940	1,030	712,640	1.2	2099.1	883	0.61	
08/19/14	630	MB	1662750	810	713,450	0.7	2099.8	1226	0.85	
08/20/14	800	MB	1663590	840	714,290	1.1	2100.8	784	0.54	
08/21/14	700	MB	1664360	770	715,060	1.0	2101.8	803	0.56	
08/22/14	715	MB	1665400	1,040	716,100	1.0	2102.8	1034	0.72	
08/23/14	1200	MB	1665920	520	716,620	1.2	2104.0	433	0.30	
08/24/14	1200	MB	1666700	780	717,400	1.0	2105.0	780	0.54	
08/25/14	1200	MB	1667720	1,020	718,420	1.0	2106.0	1020	0.71	
08/26/14	1200	MB	1668580	860	719,280	1.0	2107.0	860	0.60	
08/27/14	745	MB	1669290	710	719,990	0.8	2107.8	876	0.61	
08/28/14	845	MB	1670060	770	720,760	1.0	2108.9	739	0.51	
08/29/14	845	MB	1670830	770	721,530	1.0	2109.9	770	0.53	
08/30/14	915	MB	1671600	770	722,300	1.0	2110.9	748	0.52	
08/31/14	1035	MB	1672630	1,030	723,330	1.1	2111.9	981	0.68	
09/01/14	915	MB	1673410	780	724,110	0.9	2112.9	821	0.57	
09/02/14	845	MB	1674300	890	725,000	1.0	2113.9	917	0.64	
09/03/14	545	MB	1675070	770	725,770	0.9	2114.7	880	0.61	
09/04/14	645	MB	1676050	980	726,750	1.0	2115.8	941	0.65	

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
09/05/14	1700	MB	1677130	1,080	727,830	1.4	2117.2	750	0.52	
09/06/14	800	MB	1677390	260	728,090	0.6	2117.8	416	0.29	
09/07/14	1030	MB	1677390	0	728,090	1.1	2118.9	0	0.00	
09/08/14	900	MB	1677390	0	728,090	0.9	2119.9	0	0.00	
09/09/14	900	MB	1677390	0	728,090	1.0	2120.9	0	0.00	
09/10/14	730	MB	1678490	1,100	729,190	0.9	2121.8	1184	0.82	
09/11/14	830	MB	1679550	1,060	730,250	1.0	2122.8	1018	0.71	
09/12/14	730	MB	1680330	780	731,030	1.0	2123.8	814	0.57	
09/13/14	800	MB	1681190	860	731,890	1.0	2124.8	836	0.58	
09/14/14	1030	MB	1682030	840	732,730	1.1	2125.9	767	0.53	
09/15/14	645	MB	1682610	580	733,310	0.8	2126.8	691	0.48	
09/16/14	730	MB	1683180	570	733,880	1.0	2127.8	551	0.38	
09/17/14	900	MB	1683180	0	733,880	1.1	2128.9	0	0.00	
09/18/14	745	MB	1683220	40	733,920	0.9	2129.8	43	0.03	
09/19/14	815	MB	1683420	200	734,120	1.0	2130.8	194	0.13	
09/20/14	720	MB	1683460	40	734,160	1.0	2131.8	42	0.03	
09/21/14	1035	MB	1683460	0	734,160	1.1	2132.9	0	0.00	
09/22/14	715	MB	1683760	300	734,460	0.9	2133.8	346	0.24	
09/23/14	700	MB	1683760	0	734,460	1.0	2134.8	0	0.00	
09/25/14	800	MB	1684060	300	734,760	2.0	2136.8	147	0.10	
09/26/14	715	MB	1685810	1,750	736,510	1.0	2137.8	1814	1.26	
09/27/14	800	MB	1687190	1,380	737,890	1.0	2138.8	1333	0.93	
09/28/14	1045	MB	1689190	2,000	739,890	1.1	2139.9	1815	1.26	
09/29/14	715	MB	1690250	1,060	740,950	0.9	2140.8	1229	0.85	
09/30/14	730	MB	1691920	1,670	742,620	1.0	2141.8	1660	1.15	
10/01/14	835	MB	1693890	1,970	744,590	1.0	2142.8	1887	1.31	
10/02/14	632	MB	1695300	1,410	746,000	0.9	2143.8	1540	1.07	
10/03/14	840	MB	1697250	1,950	747,950	1.1	2144.9	1794	1.25	
10/04/14	804	MB	1698900	1,650	749,600	1.0	2145.8	1675	1.16	
10/05/14	1033	MB	1700550	1,650	751,250	1.1	2146.9	1506	1.05	
10/06/14	645	MB	1701930	1,380	752,630	0.8	2147.8	1646	1.14	
10/07/14	630	MB	1703540	1,610	754,240	1.0	2148.8	1620	1.13	
10/08/14	900	MB	1705120	1,580	755,820	1.1	2149.9	1420	0.99	
10/09/14	815	MB	1705120	0	755,820	1.0	2150.8	0	0.00	
10/10/14	1300	MB	1705430	310	756,130	1.2	2152.0	258	0.18	
10/11/14	800	MB	1707150	1,720	757,850	0.8	2152.8	2173	1.51	

**Table 5-1. Summary of Treated Water Irrigation Rates  
Transwestern Compressor Station No. 9 - Roswell, NM**

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
10/12/14	800	MB	1708930	1,780	759,630	1.0	2153.8	1780	1.24	
10/13/14	745	MB	1710700	1,770	761,400	1.0	2154.8	1812	1.26	
10/14/14	720	MB	1712440	1,740	763,140	1.0	2155.8	1758	1.22	
10/15/14	720	MB	1714440	2,000	765,140	1.0	2156.8	2000	1.39	
10/16/14	545	MB	1716450	2,010	767,150	0.9	2157.7	2168	1.51	
10/17/14	845	MB	1718740	2,290	769,440	1.1	2158.9	2036	1.41	
10/18/14	930	MB	1720630	1,890	771,330	1.0	2159.9	1825	1.27	
10/19/14	1100	MB	1722680	2,050	773,380	1.1	2161.0	1914	1.33	
10/20/14	1010	MB	1724770	2,090	775,470	1.0	2161.9	2171	1.51	
10/21/14	730	MB	1726430	1,660	777,130	0.9	2162.8	1879	1.31	
10/22/14	830	MB	1728230	1,800	778,930	1.0	2163.8	1728	1.20	
10/23/14	845	MB	1729980	1,750	780,680	1.0	2164.9	1739	1.21	
10/24/14	800	MB	1731690	1,710	782,390	1.0	2165.8	1743	1.21	
10/25/14	800	MB	1733390	1,700	784,090	1.0	2166.8	1700	1.18	
10/26/14	800	MB	1734960	1,570	785,660	1.0	2167.8	1570	1.09	
10/27/14	1000	MB	1736660	1,700	787,360	1.1	2168.9	1569	1.09	
10/28/14	910	MB	1738180	1,520	788,880	1.0	2169.9	1579	1.10	
10/29/14	845	MB	1739900	1,720	790,600	1.0	2170.9	1768	1.23	
10/30/14	930	MB	1741340	1,440	792,040	1.0	2171.9	1391	0.97	
10/31/14	830	MB	1743050	1,710	793,750	1.0	2172.8	1784	1.24	
11/01/14	830	MB	1744480	1,430	795,180	1.0	2173.8	1430	0.99	
11/02/14	800	MB	1745900	1,420	796,600	1.0	2174.8	1438	1.00	
11/03/14	845	MB	1747630	1,730	798,330	1.0	2175.9	1698	1.18	
11/04/14	915	MB	1749080	1,450	799,780	1.0	2176.9	1409	0.98	
11/05/14	945	MB	1750520	1,440	801,220	1.0	2177.9	1422	0.99	
11/06/14	900	MB	1751960	1,440	802,660	1.0	2178.9	1468	1.02	2014
11/07/14	830	MB	1753390	1,430	804,090	1.0	2179.8	1473	1.02	111,850

**NOTES:**

Irrigated Volume (gallons) = Difference between prior meter reading and current meter reading (gallons)

Cummulative Irrigated Volume (gallons) = Cummulative sum of Irrigated Volume (gallons)

Elapsed Time (days) = Calculated number of days from the prior date and time

Cummulative Elapsed Time (days) = Cummulative sum of Elapsed Time (days)

Average Recovery Rate (GPD) = Irrigated Volume (gallons) / Elapsed Time (days)

Average Recovery Rate (GPM) = Average Recovery Rate (GPD) / 24 (hours/day) / 60 (minutes/hour)

Historical data before 2009 is presented in previous reports

**Table 5-2. Summary of Water Treatment System Analyses  
Transwestern Compressor Station No. 9 - Roswell, NM**

Sample Point	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)
NMWQCC Standard:		10	750	750	620
Post-Treatment	05/25/09	< 1.0	< 1.0	< 1.0	< 1.5
	06/22/09	< 1.0	< 1.0	< 1.0	< 1.5
	07/21/09	< 1.0	< 1.0	< 1.0	< 1.5
	08/24/09	< 1.0	< 1.0	< 1.0	< 1.5
	09/28/09	< 1.0	< 1.0	< 1.0	< 1.5
	10/29/09	< 1.0	< 1.0	< 1.0	< 1.5
	11/18/09	4.8	1.3	< 1.0	< 1.5
	06/30/10	5.6	< 1.0	< 1.0	< 1.5
	07/31/10	< 1.0	< 1.0	< 1.0	< 1.5
	08/30/10	< 1.0	< 1.0	< 1.0	< 1.5
	11/10/10	< 1.0	< 1.0	< 1.0	< 1.5
	08/10/11	< 1.0	< 1.0	< 1.0	< 1.5
	10/09/11	< 1.0	< 1.0	< 1.0	< 1.5
	11/03/11	< 1.0	< 1.0	< 1.0	< 1.5
	04/30/12	< 1.0	< 1.0	< 1.0	< 1.5
	06/05/12	1.2	< 1.0	< 1.0	< 1.5
	06/28/12	1.7	< 1.0	< 1.0	< 1.5
	07/25/12	< 1.0	< 1.0	< 1.0	< 1.5
	08/15/12	< 1.0	< 1.0	< 1.0	< 1.5
	09/23/12	< 1.0	< 1.0	< 1.0	< 1.5
	10/25/12	< 1.0	< 1.0	< 1.0	< 1.5
	11/28/12	< 1.0	< 1.0	< 1.0	< 1.5
	05/16/13	< 1.0	< 1.0	< 1.0	< 1.5
	06/17/13	< 1.0	< 1.0	< 1.0	< 1.5
	07/17/13	< 1.0	< 1.0	< 1.0	< 1.5
	07/31/14	< 1.0	< 1.0	< 1.0	< 3.0
	08/25/14	< 1.0	< 1.0	< 1.0	< 3.0
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0
Between GACs	06/22/09	<b>350</b>	570	16	210
	07/21/09	< 1.0	< 1.0	< 1.0	< 2.0
	08/24/09	< 1.0	< 1.0	< 1.0	< 2.0
	09/28/09	< 1.0	< 1.0	< 1.0	< 2.0
	10/29/09	< 1.0	< 1.0	< 1.0	< 2.0
	11/18/09	9.3	3.3	< 1.0	< 2.0
	06/30/10	2.1	< 1.0	< 1.0	< 2.0
	07/31/10	<b>200</b>	200	12	150
	08/30/10	<b>300</b>	440	22	280
	11/10/10	< 1.0	< 1.0	< 1.0	< 3.0
	08/10/11	< 1.0	< 1.0	< 1.0	< 2.0
	10/09/11	3.2	1.6	< 1.0	< 2.0
	11/03/11	2.8	1.6	< 1.0	< 2.0
	04/30/12	3.6	< 1.0	< 1.0	< 2.0

**Table 5-2. Summary of Water Treatment System Analyses  
Transwestern Compressor Station No. 9 - Roswell, NM**

Sample Point	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)
NMWQCC Standard:		10	750	750	620
Between GACs -continued-	06/05/12	3.9	< 1.0	< 1.0	< 2.0
	06/28/12	4.7	< 1.0	< 1.0	< 2.0
	07/25/12	1.8	< 1.0	< 1.0	< 2.0
	08/15/12	1.7	< 1.0	< 1.0	< 2.0
	09/23/12	1.7	< 1.0	< 1.0	< 2.0
	10/25/12	1.5	< 1.0	< 1.0	< 2.0
	11/28/12	1.5	< 1.0	< 1.0	< 2.0
	05/16/13	3.3	< 1.0	< 1.0	< 2.0
	06/17/13	4.0	< 1.0	< 1.0	< 2.0
	07/17/13	3.2	1.8	< 1.0	< 2.0
	07/31/14	5.5	3.4	< 1.0	4
	08/25/14	6.4	< 1.0	< 1.0	< 3.0
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0
Post-Air Stripper	05/25/09	<b>260</b>	680	33	<b>790</b>
	06/22/09	<b>960</b>	<b>1,600</b>	63	<b>830</b>
	07/21/09	<b>280</b>	500	< 20	280
	08/24/09	<b>230</b>	350	13	220
	09/28/09	<b>290</b>	72	19	240
	10/29/09	<b>450</b>	670	42	430
	11/18/09	<b>200</b>	470	18	300
	06/30/10	<b>450</b>	460	13	250
	07/31/10	<b>190</b>	200	11	140
	08/30/10	<b>450</b>	660	31	450
	11/10/10	<b>59</b>	97	< 10	65
	08/10/11	1.4	2.7	< 1	3.0
	10/09/11	<b>21</b>	37	2.0	22
	11/03/11	<b>30</b>	66	3.4	47
	04/30/12	< 1	1.3	< 1	2.2
	06/05/12	< 1	1.0	< 1	< 2
	06/28/12	< 1	< 1	< 1	< 2
	07/25/12	<b>170</b>	270	12	130
	08/15/12	<b>13</b>	16	< 5	10
	09/23/12	< 5	< 5	< 5	< 10
	10/25/12	< 5	< 5	< 5	< 10
	11/28/12	5.1	8.4	< 5	< 10
	05/16/13	< 5	< 5	< 5	< 10
	06/17/13	< 5	< 5	< 5	< 10
	07/17/13	< 5	< 5	< 5	< 10
	07/31/14	< 1	< 1	< 1	< 3
	08/25/14	< 1	< 1	< 1	< 3
	09/17/14	< 1	< 1	< 1	< 3
	10/15/14	5	11	< 1	10



**Table 5-2. Summary of Water Treatment System Analyses  
Transwestern Compressor Station No. 9 - Roswell, NM**

Sample Point	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)
NMWQCC Standard:		10	750	750	620

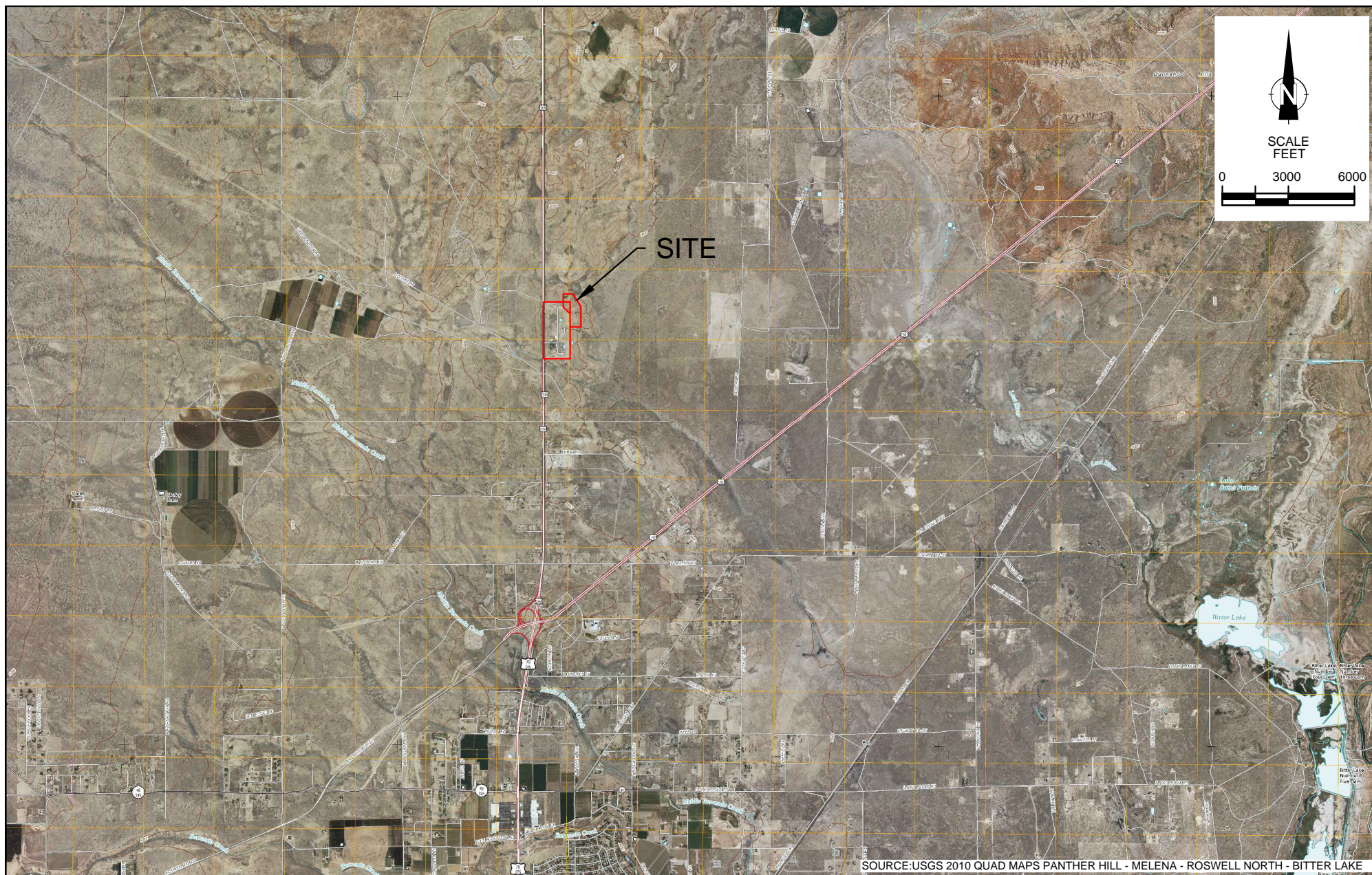
Pre-Treatment	05/25/09	<b>640</b>	<b>1,700</b>	99	<b>1,900</b>
	06/22/09	<b>2,700</b>	<b>4,500</b>	210	<b>2,400</b>
	07/21/09	<b>2,500</b>	<b>4,600</b>	210	<b>2,600</b>
	08/24/09	<b>2,700</b>	<b>4,000</b>	200	<b>2,500</b>
	09/28/09	<b>2,900</b>	<b>910</b>	220	<b>2,200</b>
	10/29/09	<b>3,000</b>	<b>4,100</b>	280	<b>2,700</b>
	11/18/09	<b>1,400</b>	<b>3,300</b>	140	<b>2,000</b>
	06/30/10	<b>2,700</b>	<b>2,800</b>	120	<b>1,500</b>
	07/31/10	<b>1,900</b>	<b>2,000</b>	140	<b>1,300</b>
	08/30/10	<b>1,800</b>	<b>2,600</b>	150	<b>1,800</b>
	11/10/10	<b>2,400</b>	<b>3,900</b>	220	<b>2,100</b>
	08/10/11	<b>970</b>	<b>1,900</b>	130	<b>1,400</b>
	10/09/11	<b>3,000</b>	<b>4,800</b>	240	<b>2,500</b>
	11/03/11	<b>2,400</b>	<b>4,900</b>	260	<b>2,800</b>
	04/30/12	<b>3,100</b>	<b>3,400</b>	200	<b>2,100</b>
	06/05/12	<b>2,600</b>	<b>3,900</b>	220	<b>2,200</b>
	06/28/12	<b>3,000</b>	<b>4,500</b>	250	<b>2,300</b>
	07/25/12	<b>2,900</b>	<b>4,600</b>	260	<b>2,700</b>
	08/15/12	<b>2,900</b>	<b>3,500</b>	270	<b>2,300</b>
	09/23/12	<b>2,600</b>	<b>3,600</b>	270	<b>2,400</b>
	10/25/12	<b>3,200</b>	<b>4,400</b>	280	<b>2,600</b>
	11/28/12	<b>2,300</b>	<b>3,700</b>	230	<b>2,300</b>
	05/16/13	<b>2,800</b>	<b>4,900</b>	260	<b>2,600</b>
	06/17/13	<b>2,500</b>	<b>4,500</b>	260	<b>2,500</b>
	07/17/13	<b>3,000</b>	<b>5,300</b>	270	<b>2,600</b>
	07/31/14	<b>570</b>	<b>1,500</b>	< 100	<b>2,100</b>
	08/25/14	<b>1,200</b>	<b>1,600</b>	110	<b>1,500</b>
	09/17/14	<b>2,100</b>	<b>3,100</b>	180	<b>1,900</b>
	10/15/14	<b>2,200</b>	<b>3,900</b>	200	<b>2,200</b>

Notes:

Results reported above the NMWQCC standard are shown in bold type  
Historical data before 2009 is presented in previous reports

## FIGURES





REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
 TRANSWESTERN PIPELINE COMPANY, LLC  
 TRANSWESTERN COMPRESSOR STATION No. 9  
 (ROSWELL COMPRESSOR STATION)  
 ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.20120037.00

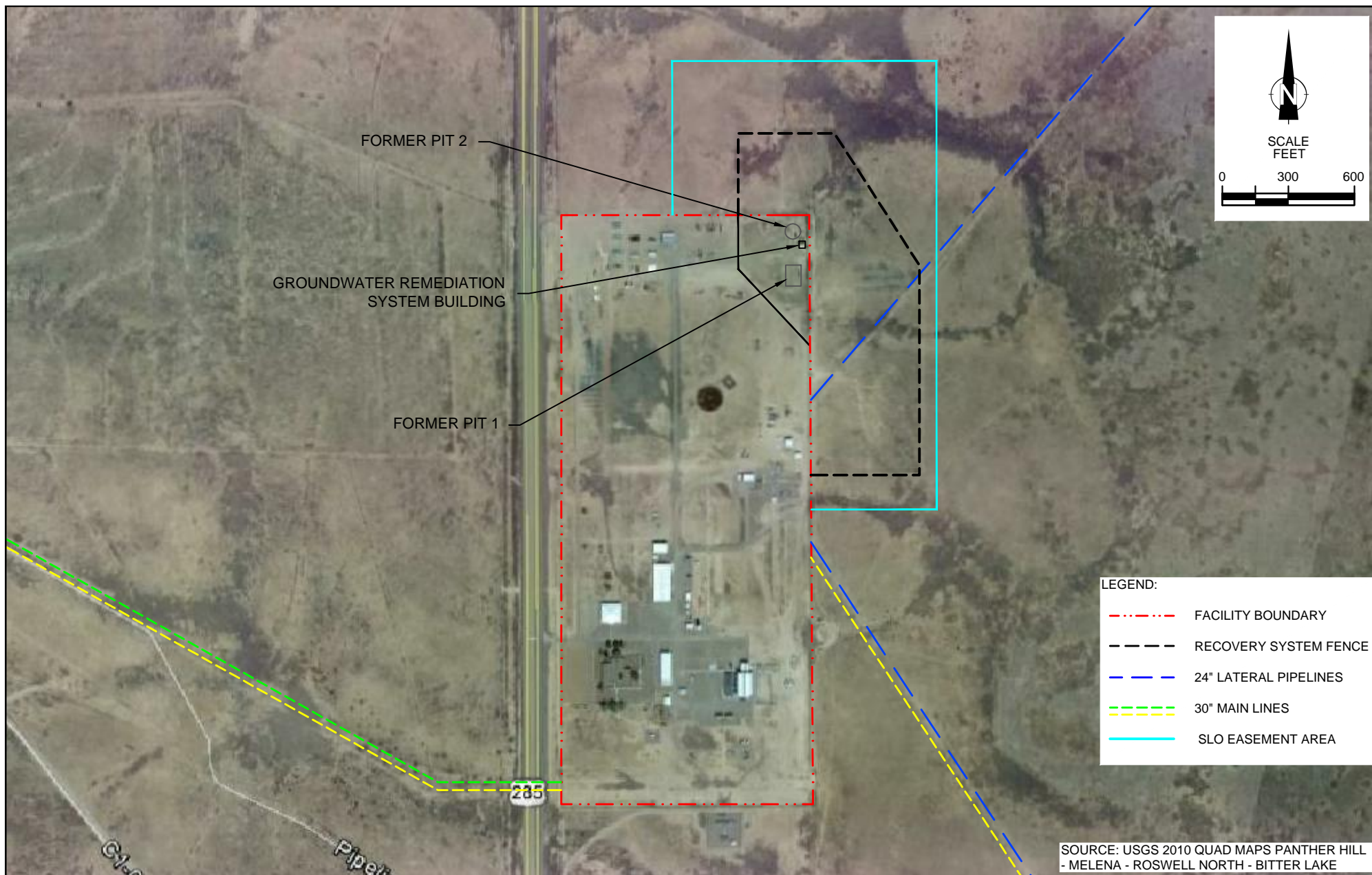


14405 Walters Rd, Suite 700  
 Houston, TX 77014

SITE LOCATION MAP

DRAWN:	LDG	CHECKED:	GPF	DATE:	03/14	FIGURE:	1-1
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SOURCE: USGS 2010 QUAD MAPS PANTHER HILL  
- MELENA - ROSWELL NORTH - BITTER LAKE

REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION No. 9  
(ROSWELL COMPRESSOR STATION)  
ROSWELL, CHAVES COUNTY, NEW MEXICO

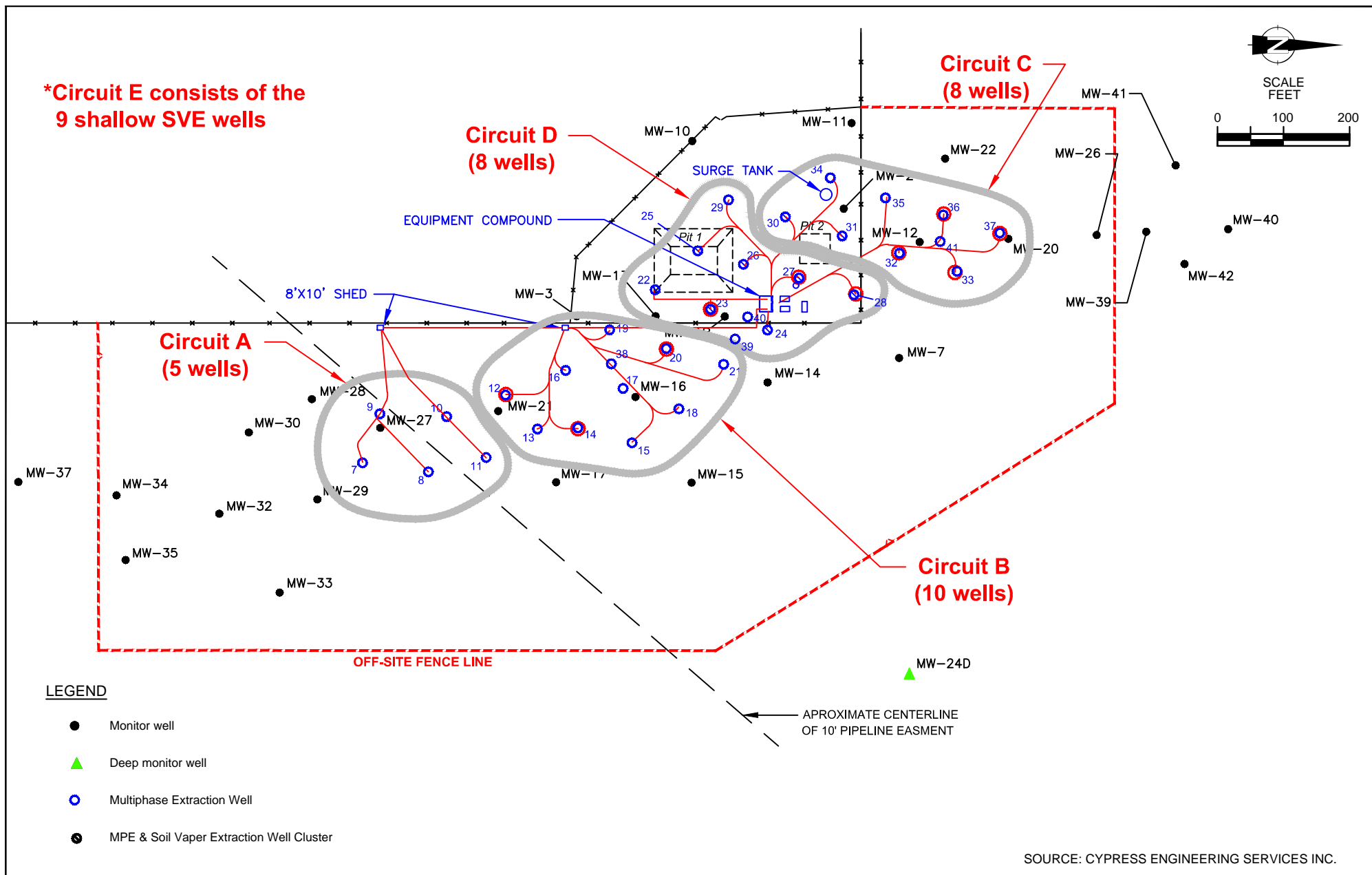
PROJ. NO: 02.20120037.00



14405 Walters RD, Suite 700  
Houston, TX 77014

#### SITE FEATURES

DRAWN:	LDG	CHECKED:	GPF	DATE:	03/14	FIGURE:	1-2
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REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
 TRANSWESTERN PIPELINE COMPANY, LLC  
 TRANSWESTERN COMPRESSOR STATION No. 9  
 (ROSWELL COMPRESSOR STATION)  
 ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.20120037.00



14405 Walters RD, Suite 700  
 Houston, TX 77014

# REMEDIATION SYSTEM LAYOUT

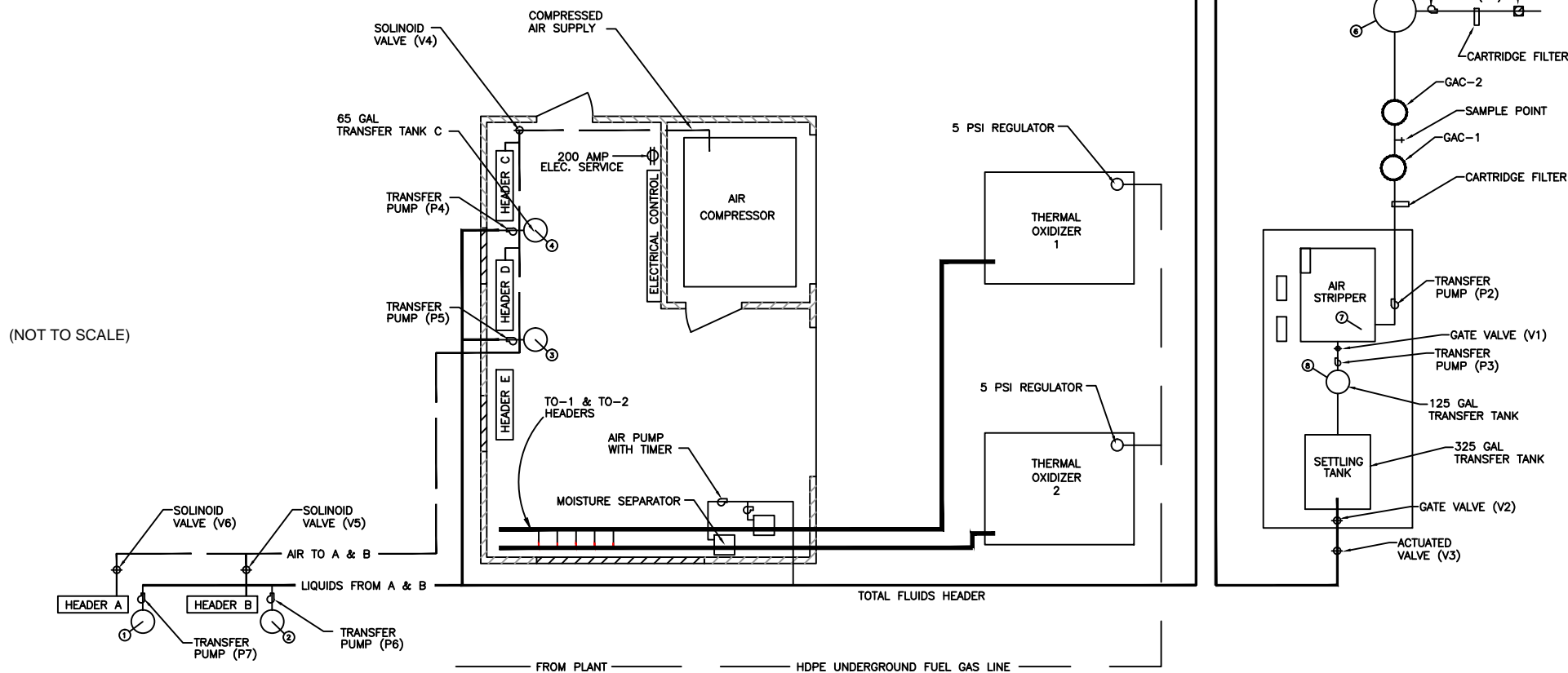
DRAWN: SSW	CHECKED: JDH	DATE: 03/15	FIGURE: 1-3
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# LEGEND FOR CONTROLS

- ① HH:V6-CLOSE; H:P7-ON; L:P7-OFF
- ② HH:V5-CLOSE; H:P6-ON; L:P6-OFF
- ③ HH:V4-CLOSE; H:P5-ON; L:P5-OFF
- ④ HH:V4-CLOSE; H:P4-ON; L:P4-OFF
- ⑤ HH:V4-CLOSE
- ⑥ HH:V3-CLOSE; H:P1-ON; L:P1-OFF
- ⑦ HH:P3-OFF & V3-CLOSE; H:P2-ON; L:P2-OFF
- ⑧ HH:V3-CLOSE; H:P3-ON; L:P3-OFF

# LEGEND FOR ALARM CONDITIONS

- ALARM #1 - UPON V4 CLOSING
- ALARM #2 - UPON V3 CLOSING



SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
 TRANSWESTERN PIPELINE COMPANY, LLC  
 TRANSWESTERN COMPRESSOR STATION No. 9  
 (ROSWELL COMPRESSOR STATION)  
 ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.20120037.00

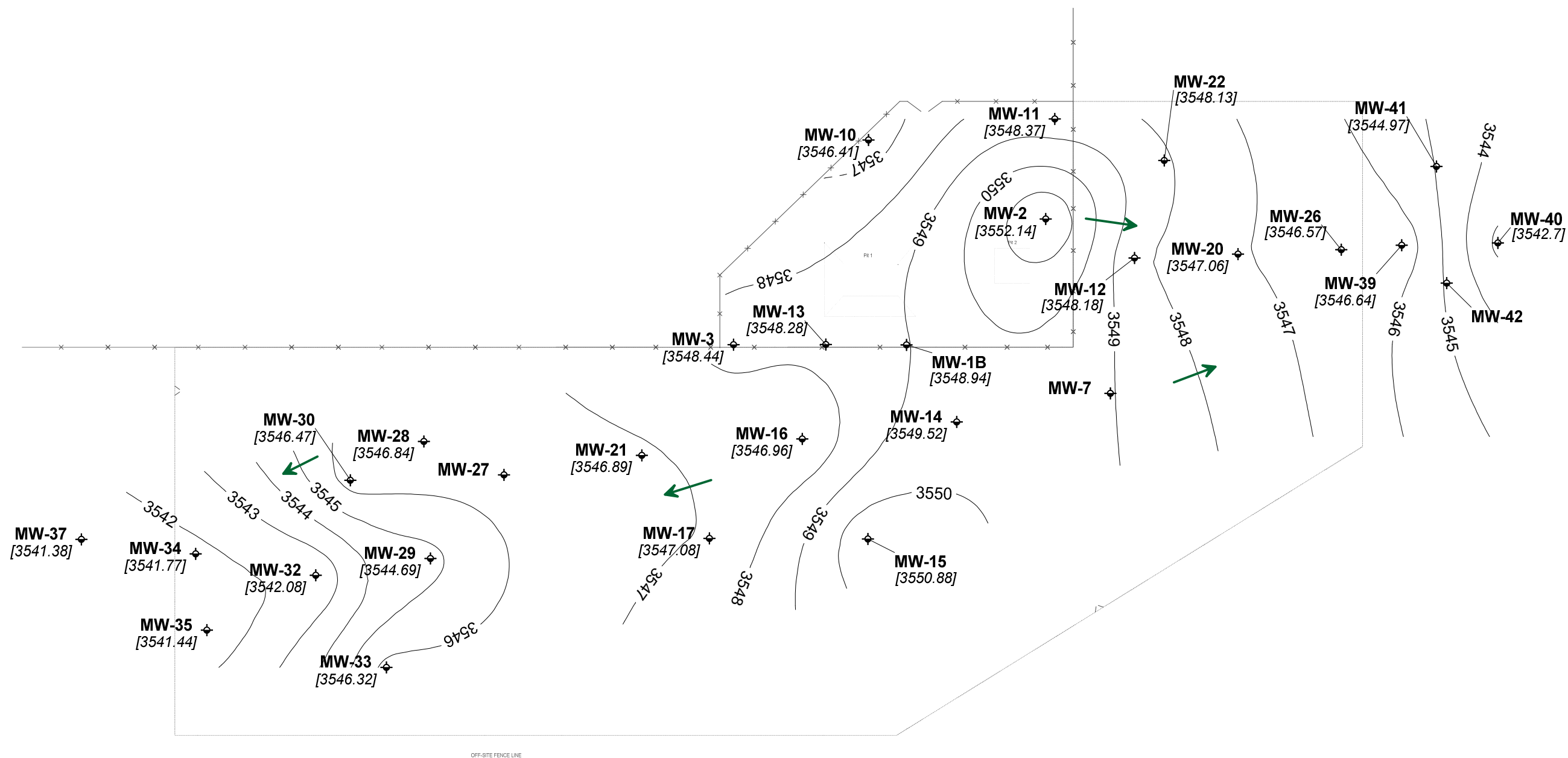
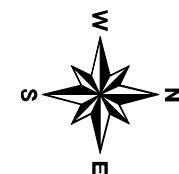
**EARTHCON**  
 EarthCon Consultants Inc.

14405 Walters RD, Suite 700  
 Houston, TX 77014

EQUIPMENT COMPOUND DETAIL

DRAWN: LDG	CHECKED: GPF	DATE: 03/14	FIGURE: 1-4
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#### LEGEND

**MW-37** Monitoring Well with  
Groundwater Elevation (ft MSL)  
[3541.38]

**MPE-31** Multi-Phase Extraction Well

General Direction of  
Groundwater Flow

#### SCALE

0 FT 75 FT 150 FT

REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION NO. 9  
(ROSWELL COMPRESSOR STATION)  
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.2012037.00

**EARTHCON**  
EarthCon Consultants Inc.  
14405 Walters Rd, Suite 700  
Houston, Tx 77014  
Firm 7572

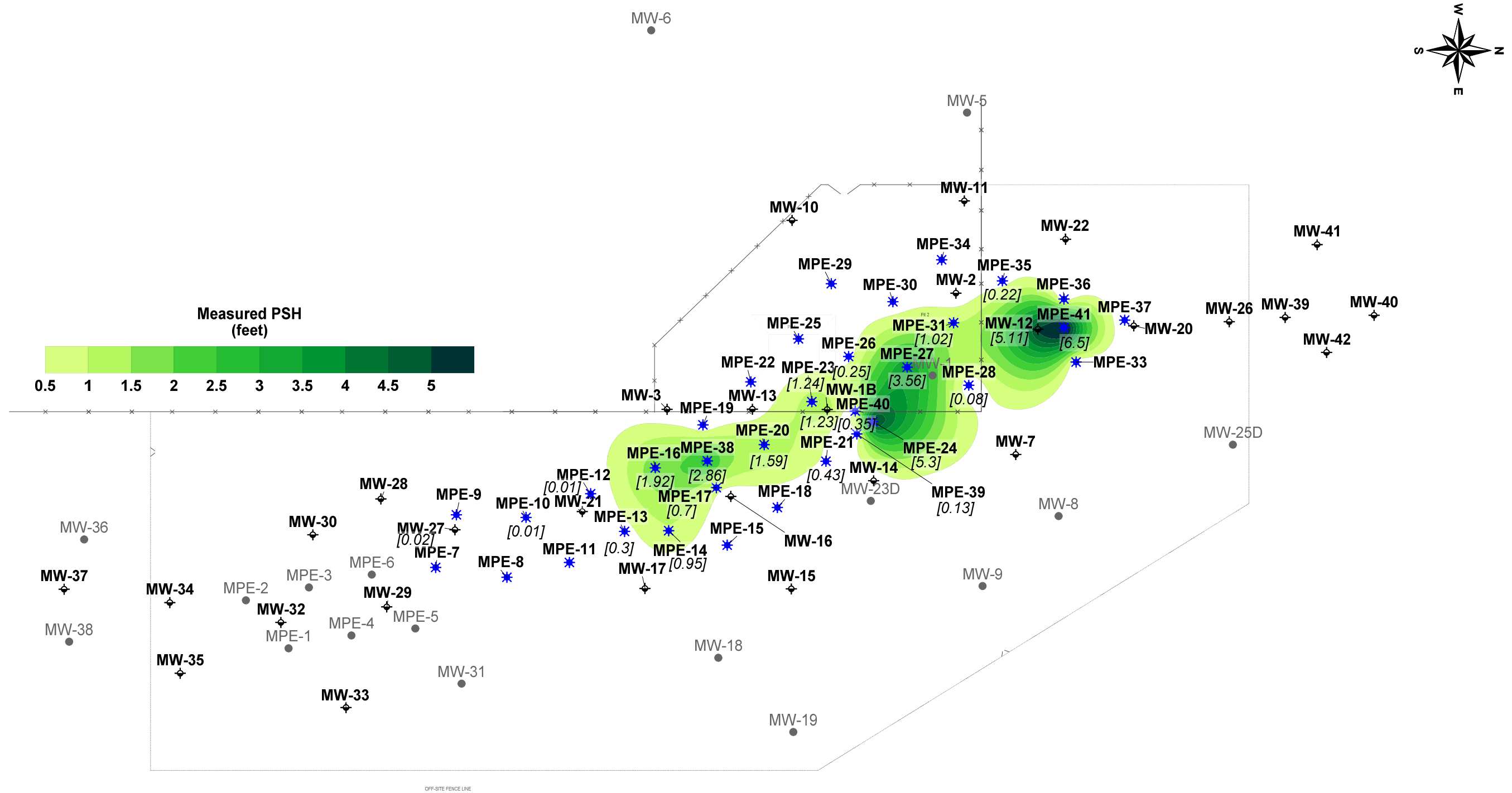
GROUNDWATER SURFACE  
ELEVATIONS IN THE  
UPPERMOST AQUIFER  
APRIL 30, 2014

DRAWN: AB CHECKED: GPF DATE: 03/15 FIGURE: 4-1

FILE NAME: \\







LEGEND

**MW-12** Monitoring Well with  
PSH Thickness (ft)  
[5.11]

**MPE-31** Multi-Phase Extraction Well  
with PSH Thickness (ft)  
[1.02]

**MW-38** Abandoned Well

**SCALE**  
0 FT 75 FT 150 FT

REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION NO. 9  
(ROSWELL COMPRESSOR STATION)  
ROSWELL, CHAVES COUNTY, NEW MEXICO

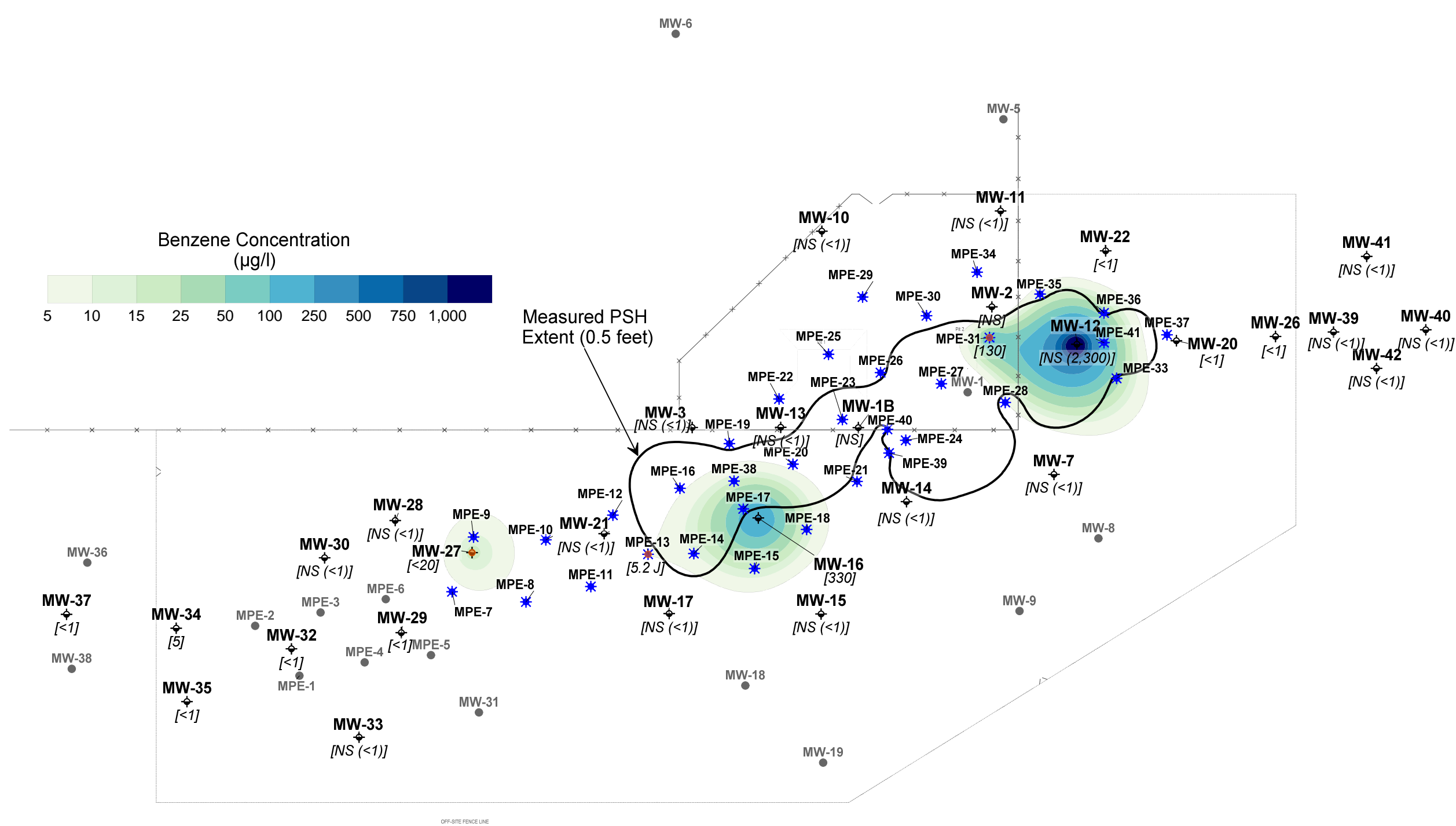
**EARTHCON**  
EarthCon Consultants Inc.  
14405 Walters Rd, Suite 700  
Houston, Tx 77014  
Firm 7572

DISTRIBUTION OF PSH  
IN THE UPPERMOST AQUIFER  
APRIL/MAY 2014

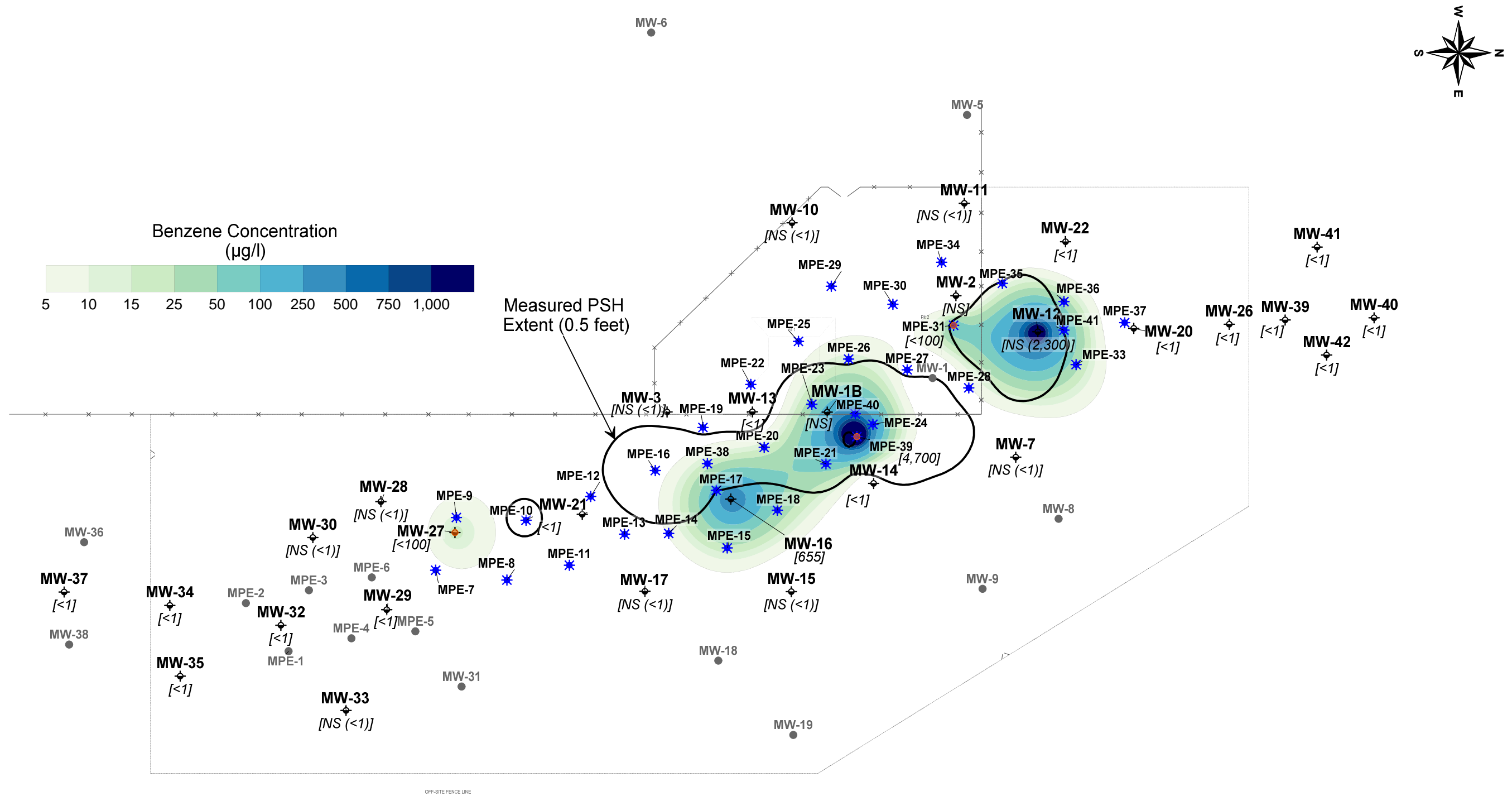
DRAWN: EWL	CHECKED: GPF	DATE: 03/15	FIGURE: 4-3
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FILENAME: 4-3





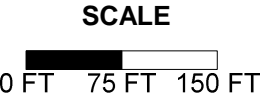
Note: Duplicate samples were averaged.



Note: Duplicate samples were averaged.

LEGEND

- MW-37  
[<1]
- MPE-31
- MW-38
- MW-27
- NS (<1)

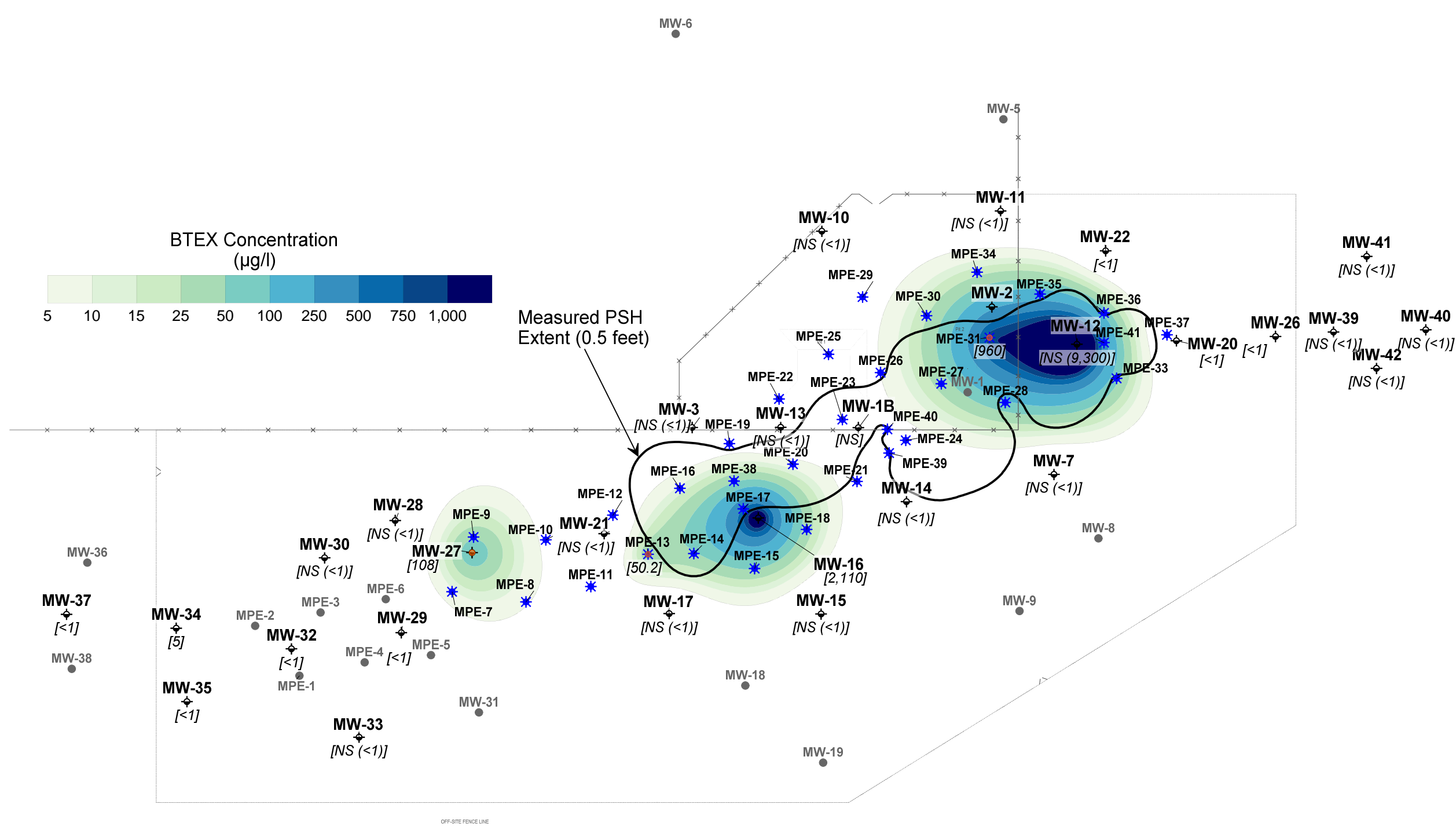


REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION NO. 9  
(ROSWELL COMPRESSOR STATION)  
ROSWELL, CHAVES COUNTY, NEW MEXICO

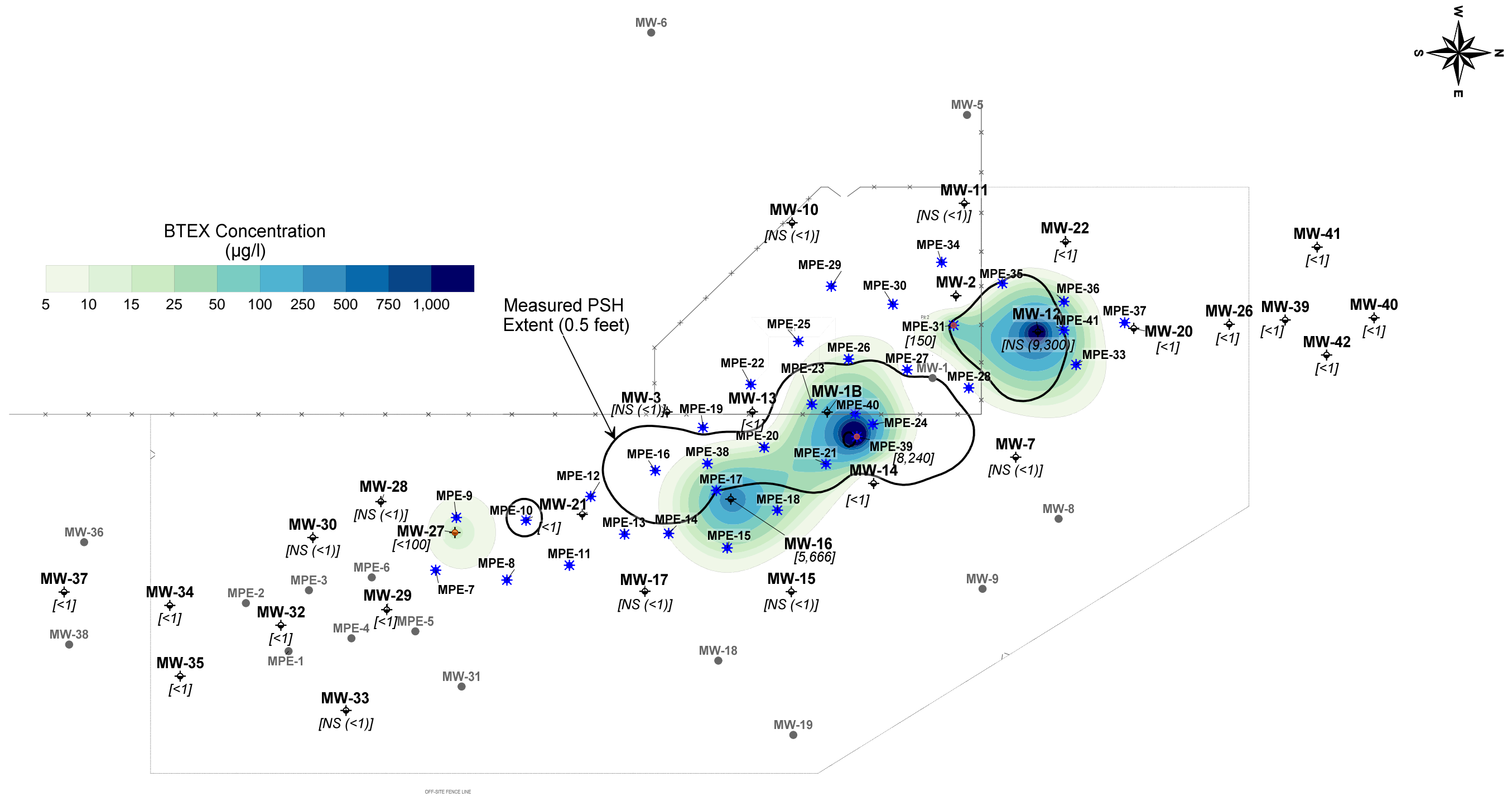
PROJ. NO: 02.2012037.00



DISTRIBUTION OF DISSOLVED BENZENE IN THE UPPERMOST AQUIFER NOVEMBER 2014			
DRAWN: AB	CHECKED: GPF	DATE: 03/15	FIGURE: 4-6



Note: Duplicate samples were averaged.



Note: Duplicate samples were averaged.

LEGEND

- MW-37  
[<1]

Monitoring Well with  
Concentration (µg/l)
- MPE-31

Multi-Phase Extraction Well
- MW-38

Abandoned Well
- Location of Sample Below PSH
- NS (<1) -

Not Sampled Assumed  
Value Shown

SCALE



REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION NO. 9  
(ROSWELL COMPRESSOR STATION)  
ROSWELL, CHAVES COUNTY, NEW MEXICO  
PROJ. NO: 02.2012037.00

EarthCon Consultants Inc.

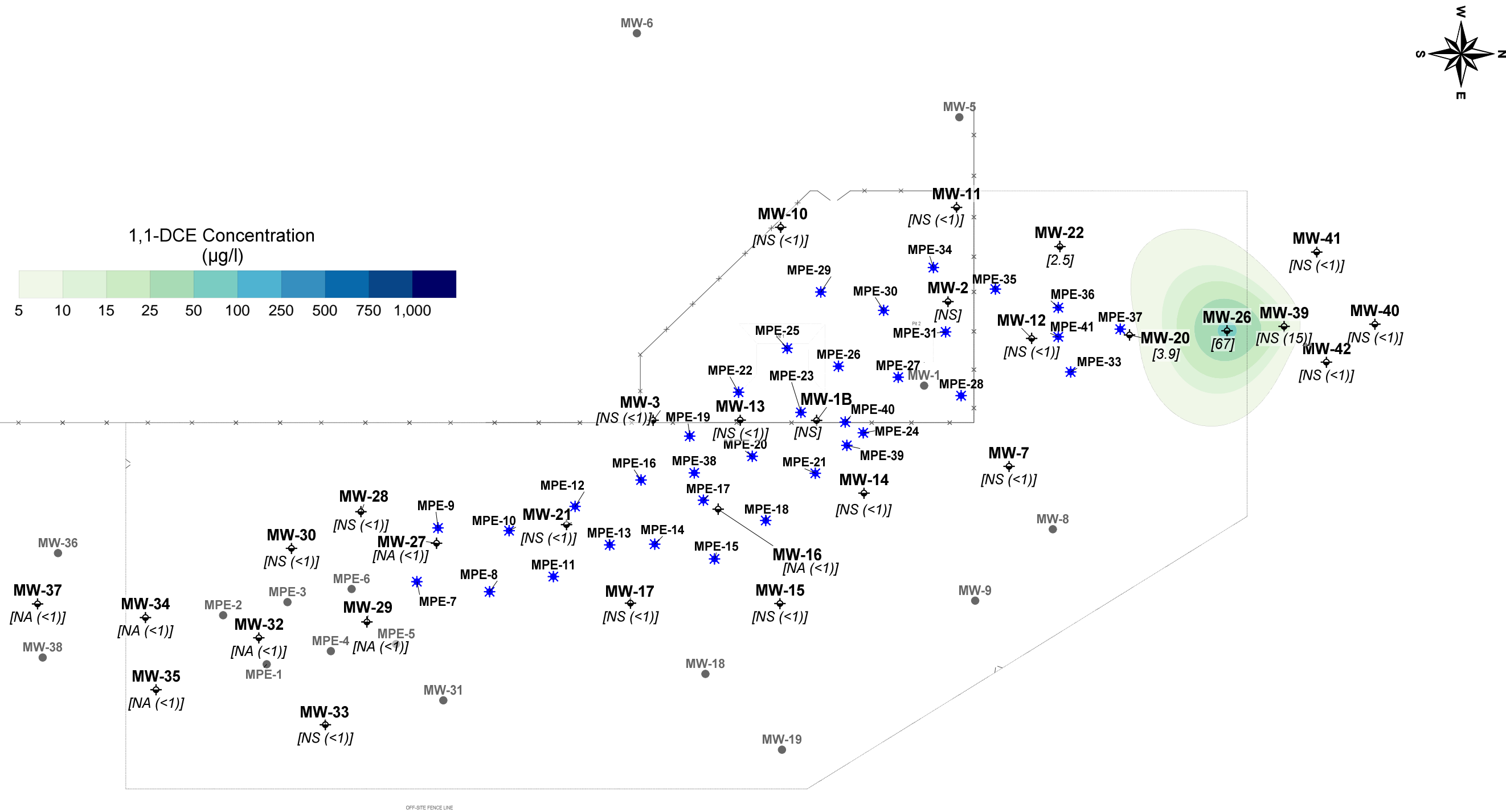
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Houston, Tx 77014

Firm 7572

DISTRIBUTION OF DISSOLVED BTEX IN THE UPPERMOST AQUIFER NOVEMBER 2014			
DRAWN: AB	CHECKED: GPF	DATE: 03/15	FIGURE: 4-8





Note: Duplicate samples were averaged.

**LEGEND**

**MW-37** Monitoring Well with Concentration (µg/l)

**MPE-31** Multi-Phase Extraction Well

**MW-38** Abandoned Well

NA (<1) - Not Analyzed for 1,1-DCE Assumed Value Shown

NS (<1) - Not Sampled Assumed Value Shown

**SCALE**

0 FT 75 FT 150 FT

TRANSWESTERN PIPELINE COMPANY  
COMPRESSOR STATION NO. 9

ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.2012037.00

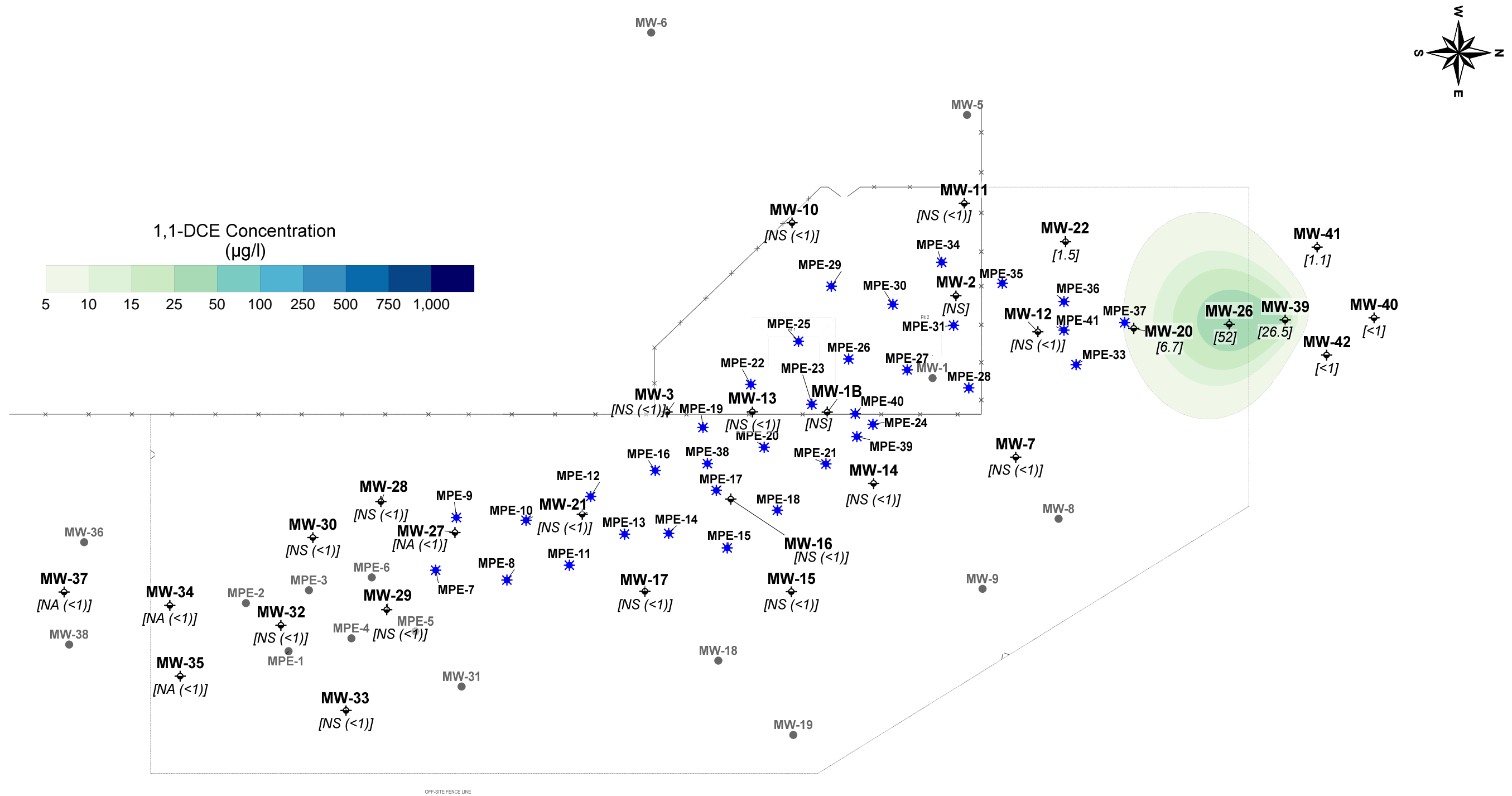
**EARTHCON**

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DISTRIBUTION OF DISSOLVED 1,1-DCE IN THE UPPERMOST AQUIFER  
APRIL/MAY 2014

DRAWN: EWL	CHECKED: GPF	DATE: 03/15	FIGURE: 4-9
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Note: Duplicate samples were averaged.

LEGEND

MW-37  
Monitoring Well with  
Concentration (µg/l)  
[<1]

MPE-31  
Multi-Phase Extraction Well  
MW-38  
Abandoned Well

NA (<1) - Not Analyzed for 1,1-DCE  
Assumed Value Shown  
NS (<1) - Not Sampled  
Assumed Value Shown

SCALE  
0 FT 75 FT 150 FT

REPORT OF 2014 GROUNDWATER REMEDIATION ACTIVITIES  
TRANSWESTERN PIPELINE COMPANY, LLC  
TRANSWESTERN COMPRESSOR STATION NO. 9  
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ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.2012037.00

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DISTRIBUTION OF  
DISSOLVED 1,1-DCE IN THE  
UPPERMOST AQUIFER  
NOVEMBER 2014

DRAWN: AB CHECKED: GPF DATE: 03/15 FIGURE: 4-10

FILENAME: 4-10