1R - 400

GENERAL CORRESPONDENCE

YEAR(S):

2002 - 2007

OCD DCP Midstream LP. Sites Discussion Meeting
(Stephen Weathers, Daniel Dick, et. al) February 1, 2007

GPM Artesia GP (GW-23)

On 5/26/2006, Stephen Weathers PG 303-605-1718 (swweathers@duke-energy.com) submitted a Flare Pit Soil Remediation & Closure Work plan by Conestoga-Rovers & Assoc. to Mike Bratcher. Upon your approval, DEFS will move forward w/ the closure activities. One hard copy of the work plan will also be mailed next week (OCD Santa Fe never received it).

Stephen Weathers, et al. will present the info. during the 1/31/2007 meeting in Santa Fe.

Lee Compressor Station (GW-227) (Also known as the Gillespie/Feagan)
A-24-T17 S 35 E

Closure work plan dated 9/5/2006 mailed to Ben Stone to complete a site closure.

The work plan was develop. Based on DEFS decision to cancel the discharge plan GW-227 and close the site. The closure plan is submitted to the OCD for approval.

Closure Activities: DEFS will remove all remaining equip. from site. The site will be visually inspected to determine if hydrocarb. impacted soil is present at the site. If no HC impacted soils are encountered, the site will be leveled and reseeded with native grass. If HC impacted soils are encountered, the impact soil will be remediated following NMOCD Guidelines for Remed. of Leaks, Spills, & Releases, 8/1993 and using: Benz (10 ppm), BTEX (50 ppm), and TPH (100 ppm). A PID might be used to screen potential HC impacted soil. If headspace is <= 100 ppm, the PID reading will be used as a substitute to lab analysis for benz./BTEX. If the PID is not used for screening confirm. soil samples will be analyzed for BTEX using EPA 8021B.

HC impact soils that are found to be greater than cleanup criteria will be excavated and properly disposed at an NMOCD approved facility. Confirmation soil samples will then be collected within the base and sidewalls of the excavation to confirm that the HC impacted soils have been removed to below the NMOCD cleanup stds. for this site.

After confirmation soil samples confirm the impacted soils has been removed to below the NMOCD cleanup Stds., the excavation will be backfilled with clean fill mtl. and the area reseeded w/ native grass. A closure report will be completed summarizing all field activities and analytical results. The closure report will also request that no further action will be needed at this site. Upon approval of this work plan, field activities will be scheduled. A 48 hr. notice will be given to the NMOCD Hobbs DO informing them of the start up of the field activities.

LEE GP (GW-2)

Dick Daniel (DIDick@dcpmidstream.com)

Received Q4 2006 GW Monitor Rpt. On 1/30/07 w/ recommendations for certain activities, i.e., free-product recovery in MWs 5 and 15 w/ restart analysis on MW-8 recommended.

Expired DP and OCD msg. to Ruth Lang on 12/21/06: the Lee Compressor Station (GW-227) correspondence dated 12/28/06 indicates that the facility will remain inactive and follow the closure plan to permanently close the facility. Upon receipt of the closure plan info. and verification that contamination exists at the facility with some photos to display what the site currently looks like, the OCD may close the DP?

DUKE LINAM RANCH GP (GW-15)

Third Qtr. 2006 GW Monitoring Report dated January 30, 2007.

GW conditions remain stable. Next monitor event is scheduled for first qtr. 2007. Next annual report for site will be prepared following completion of first qtr. 2007 monitor activities.

On 11/1/2006 Dick Daniel (didick@duke-energy.com) submitted the Annual GW Rpt. 2005-2006. The summary rpt. for Q3 2005 and Q1 2006 GW sampling event. The data indicate that GW conditions remain stable. The next monitor event was performed in 9/2006. The next annual rpt. for the site will be prepared following the completion of the Q1 2007 monitor activities & review & validation of the analytical results. The water tables rose substantially more in MW-1 and 2 than in MW-3, 7 & 9. MW-1 & 2 are located in or adjacent to a natural drainage swale that has been blocked in the S part of site to produce an internally drained condition. The other 3 wells are outside of this area. Unusually high precip in 2004-2005 resulted in more GW mounding beneath the closed drain swale than the rest of the site. The water table in MWs 1 & 2 began to recede after the precip. patterns returned to normal. Water tables in the other 3 wells continue to rise suggesting a more dampened relationship between the precipitation and resulting chgs. in the water table elevations.

MW-7 was not included in the piezometer maps. The level in MW-7 was not included in these maps. Including this well results in a water-table configuration that suggests radial flow from the center of the property. MW-7 has never contained measurable BTEX. This suggests the relatively higher water table in the central part of site is localized so contours should not be carried to the NW. FPH thick measurements for 9/29/2005 (MW-4=0.68 in & MW-6=4.23 in.) and 3/22/2006 (MW-4=0.76 & MW-6=3.69 in.). Only MWs 10 & 10D exceeded BTEX Stds. Any dissolved phase BTEX that emanate from FPH at MW-4 & MW-6 attenuate to below the method reporting limits before migrating to the vicinity of MW-1 (cross gradient) or MW-8 (down gradient). BTEX measured at MW-10 and 10D attenuate to concentrations that are slightly above MW-9 or below the reporting limits (MW-12 & 13) at the interior down gradient wells. The above have remained constant since ~ 6/2001. This indicates that BTEX distribution and attenuating mechanism that controls it are equilibrated.

The affected areas are min. of 1,000 ft. from the nearest down gradient property boundary. Wells containing FPH are in an active gas processing area so the safety risks inherent to restarting FPH collection more than offsets the environmental benefits that would be associated with the activity. The data establishes that dissolved phase releases from the FPH that is present in this area are attenuated approx. 1,000 ft. from the nearest down-gradient property boundary. The next semi-annual GW monitor event is scheduled for the Q3 2006. Contact Michael Stewart PE 303-948-7733 if you have questions.

HOBBS BOOSTER CS (GW-44)

Project Summary: Hobbs Booster Station, (Discharge Plan GW-044)
(Units C and D, Section 4, Township 19 South, Range 38 East)

Summary date: October 10, 2006

Project history:

DEFS inherited Hobbs Booster Station (Former Gas Plant) when it acquired the assets of GPM. Site investigation activities began in July 1999. Plume delineation was completed in June 2003.

Two remediation systems are present at the site. An air sparge system was installed in January 2004 to control cross-gradient off site migration of dissolved phase hydrocarbons. It has operated on a near continual basis except for a couple of periods when it was under repair, and the groundwater data verifies that it is controlling off-site migration.

A free phase hydrocarbon (FPH) collection system became operational in January 2005 in the center of the site. It has operated on a regular schedule except for a couple of brief periods when it was down for repairs. The system has effectively remove FPH since it was started. The system is inspected and maintained on a regular basis DEFS is currently evaluating the potential of adding vacuum to the system to increase the production rate and capture zone of each well.

Current Project Status:

The hydrocarbon plume has been delineated to below the method detection limits. There is no evidence of plume expansion. Operation of the air sparge system is necessary to control dissolved-phase hydrocarbon releases to the south. FPH collection will continue indefinitely.

Detection level Groundwater monitoring continues at the site on a quarterly basis. Operation of the air sparge and the FPH collection system will continue indefinitely.

On 12/17/06 Michael Stewart & Steve Weathers notified OCD that Trident Environmental will conduct quarterly monitor well gauging & GW sampling and the following: SWLs in MW, RW and temp. wells using an oil/water interface problem; Collect GW samples for BTEX w/ QA/QC; Purge water disposed at NMOCD approved facility. Project site location: 1625 W. Marland, Hobbs (C&D 4-19S-36E). Sampling will begin on 12/20/06.

On 10/30/06, Stephen Weathers 303-605-1718 (swweathers@duke-energy.com) submitted additional vacuum enhancement testing for the free phase hydrocarbon extraction system located at C&D 4-19S-38E. DEFS would like to complete this test early next week. Upon completion of the field activities DEFS will complete an assessment report summarizing the results of the test.

The AEC 10/30/06 summary of initial assessment activities & recom. for further evaluation of adding vacuum enhancement to the free phase hydrocarbon extraction system. Depth (BTOC) is about 50 feet. The above SWL indicate that recent heavy rains have not affected the water table in a fashion similar to 2004 precip. This fact is important because the WT historically declined at a rate of about 1 ft/yr. this trend should continue to expose more of the screened interval in these wells to make them available to vacuum effects.

FPH thickness ranges from about 0.43 in. to 10.63 in. in TW-C, OW-25W & 50W, OW-100W, OW-25S, OW-50S, OW-25 E & OW-25 N. There is a gravel interval at about 34 to 64 feet BGL.

On 10/23/2006, Stephen Weathers 4-303-605-1718 (swweathers@duke-energy.com) submitted an electronic copy of the 2005-2006 Annual GW Monitor Rpt. along w/ a cover letter.

The report is missing & OCD should request another copy.

DUKE APEX CS (GW-163)

old conoco

Trisha Elizondo (ARCADIS) (Trisha.elizondo@arcadis-us.com)

On 1/17/07, notification that ARCADIS will be conducting mo. Product recovery and PCA Junction on 1/22-23/07. Routine product recovery is on-going at site through hand-bailing. MWs at 2 locations will be surveyed to help w/ GW flow & potentiometric surface.

DUKE HOBBS GP (GW-175)

old conoco
Stephen Weathers (SWWeathers@dcpmidstream.com)

Project Summary: Hobbs Gas Plant
Unit G, Section 36 Township 18 South, Range 36 East

Summary date: October 10, 2006

Project history:

DEFS acquired the Hobbs Gas Plant in March of 2004. Ground water monitoring wells (6 wells) were installed at the site during the due diligence phase of the acquisition. Benzene was identified above the WQCC standards in one of the groundwater monitoring wells.

Current Project Status:

Groundwater monitoring continues at the site on a quarterly basis.

On 1/29/07, 4Q 2006 GW monitor rpt. submitted. Two MWs exhibit elevated benzene levels. SE and E-central portions of site adjacent to process equip. Qtly sampling continues. Results of Q1 2007 sampling will be reported in A1 2007 GW monitor report. Potentiometric surface maps for site in future reports can be expected.

Remediation Sites

C-line Release Site (1RP-401-0)

Project Summary: C-line Release site (1RP-401-0)
(Unit O, Section 31, Township 19 South, Range 37 East)

Summary date: October 10, 2006

Project history: Pipeline Release

Duke Energy Field Services C-Line Pipeline Release occurred in May of 2002. The release occurred on New Mexico State Land. Environmental Plus, Inc. was contracted to complete the soil remediation. Approximately 3,868 cubic yards of impacted soil was excavated. 2,707 cubic yards of impacted soils was properly disposed and the remaining impacted soil was blended/shredded until below cleanup standards and placed back into the excavation. During the soil remediation, groundwater was determined to be impacted with hydrocarbons. The groundwater characterization activities began in fourth quarter 2002. A total of 9 groundwater monitor wells were installed. Active free phase hydrocarbon (FPH) removal initiated in November 2003. A soil vapor extraction system was installed in October 2004. The system was expanded to include a second well in June 2005. No FPH has been measured since March 2006 even after the SVE system was turned off (but remains at the site) in June 2006.

Current Project Status:

All FPH has been removed as discussed above. The hydrocarbon plume has been delineated. There is no evidence of plume expansion, and, in fact, the plume may actually be contracting.

Groundwater monitoring continues at the site on a quarterly basis. Site monitoring could be decreased to semi-annual.

Received Q3 2006 GW monitor rpt. from Stephen Weathers on 12/18/06.

Eldridge Ranch (AP-33)

Stephen Weathers (SWWeathers@dcpmidstream.com)

Project Summary: Eldridge Ranch, (Abatement Plan AP-33)
(Unit P, Section 21, Township 19 South, Range 37 East)

Summary date: October 10, 2006

Project history: Pipeline Release

DEFS initiated investigative activities in June 2002 following notification by NMOCD. Site characterization activities were largely completed by the fourth quarter of 2003. The boundaries of detectable hydrocarbons have been delineated.

DEFS submitted the Stage 1 Abatement Site Investigation Report (ASIR) on February 11, 2004 to the New Mexico Oil Conservation Division (OCD). In the ASIR, DEFS committed to continuing two activities (groundwater monitoring and free phase hydrocarbon (FPH) removal) independent of the ASIR review timeframe. The OCD has not commented on the ASIR. Groundwater monitoring and FPH removal activities continue on a regular basis.

Current Project Status:

FPH recovery has been attempted at the site with limited results. The FPH at the site is generally limited in thickness to less than one foot. In addition, the FPH appears to be relatively immobile based upon the inability of the automatic collection systems to collect the liquids.

The hydrocarbon plume has been delineated to below the method detection limits. There is no evidence of plume expansion; however, concentrations the interior of the plume appears to exhibit nominal increases and decrease in response to seasonal precipitation.

Groundwater monitoring continues at the site on a quarterly basis. Site monitoring could be decreased to semi-annual without jeopardizing environmental impacts. FPH removal continues as site conditions warrant.

On 1/26/07, received Q4 2006 GW monitor rpt. for AP-33 near Monument NM. Some conclusions: FPH mobility appears to be limited based on historic bail down/recovery tests and failure to reappear; FPH thick is less than 0.8 ft. in six wells and less than 0.1 ft in 2 of 6 wells. FPH is relatively immobile at thick less than 1 ft. FH continues to decline in MW-EE from max. thick. of 0.83 ft. in 9/2005. FPH thick in other wells (excepting MW-CC) also exhibit decreasing trends. Benzene horiz. distrib. remain unchanged over duration of project. The benz level in the former house well continues to remain below NM WQCC GW std. Summer 2006 rains did not create a spike in levels at MWs like the heavy 2004-2005 rains. No evidence of plume expansion exists ; thus, natural attenuation stabilizes and removes hydrocarbs as they migrate away from area.

AEC recommends that Q1 2007 monitoring be completed and data reviewed to evaluate changes in GW flow patterns in S-central part of study area.

On 12/22/06, received Q3 2006 GW monitor report conclusions: FPH remains in 4 wells in W-central part of study area. FPH thick decrease in 3 of 4 wells. FPH present to N in MW-EE at 0.35 ft. FPH continues to decline from max thick of 0.83 ft. in 9/2005. FPH was not measured anywhwere else within study area. FPH mobility appears to be limited based on historic bail down/recovery tests and its failure to reappear in previously affected wells to S. Benz distrib. unchg. over duration of project. Temporal benz distrib. - see charts.

On 10/24/06, Stephen Weathers 303-605-1718 (swweathers@duke-energy.com) submitted GW monitor rpt. for Q2 2006. The former NMG-148C Study Area was combined with the Eldridge Ranch Study Area beginning w/ the Q1 2006. The areas were combined after estab. that hydrocarb plume orig. from NMG-148C had migrated into the Eldridge Ranch Study Area before it attenuated. The combined sites will be treated as a single entity in all subsequent sample events. Activities are governed under AP-33. DEFS submitted the Stage 1 Abatement Site Investigation Rpt. (ASIR) on 2/11/2004 to the OCD. In that rpt., DEFS is committed to continuing 2 activities independ. of the ASIR review timeframe. The activities include GW monitor. & free phase hydrocarb. (FPH) removal when practicable.

GW Monitor activities were completed on 6/19 and 20, 2006 abiding by the OCD approved SAP. SWLs, FPH tick measurements, and GW sampling were completed (see report). The conclusions were: The interpretations are grouped accord. to GW flow, product thick and GW chemistry. 6/2006: data from newly installed MW-28-31 continues to indicate that GW flow beneath the northern part of the Huston property is southward rather than toward the SE.

The WT continues to decline at a uniform rate across the site from a high in 12/2004. The vertical gradient measured between MWs 1s & 1d has not varied substantially over the duration of the project.

Conclusions are: FPH is present in 5 MWs in the w-central part of the study area. The FPH mobility appears to be limited based upon historic bail down/recovery tests & its failure to reappear in previously affected wells to the S. FPH was also present to the N in MW-EE at 0.35 ft. FPH has now declined from a max. thick of 0.83 ft. in 9/2005. FPH was not measured anywhere else within the study area. The Benz distribution has remained essentially unchg. over the duration of the project. MWs 28, 30 & 31 installed in 3/2006 did not contain detectable concentrations of BTEX constituents when they were sampled a second time. MW-29 has detected BTEX. The northernmost NMG-148C plume and moves south. The pattern indicates that the areal extent of the dissolved phase plume assoc. w/ NMG release is not expanding.

The concern. in MW-e & MW-1 located in the S part of this area continue to decline. Samples from the other 4 wells (MW-M, O, Q & M) produced concentrations that were at or slightly higher than the 3/2006 values. This indicates that the S part of the dissolved phase plume in this area appears to be contracting to the N while the remainder of the plume in this area remains constant. None of the data indicates that the plume is expanding.

Benz time concent. for the wells located immed. adjacent to MW-1 or on the Eldridge property (irrigation wells, house well) are shown in Fig. 9. The concentrations in MW-1 and the irrig. well leveled out after an apprec. 1-yr decline. The concent. in the house well has remained consistent over the past 3 sample events. The pattern does not indicate that the dissolved phase plume is expanding in this area. Wells MW-A, 4 & 5 located N of the Huston-Eldridge boundary, remained relatively consistent.

All of the above relationships indicate that natural attenuation is stabilizing & removing hydrocarbs as they migrate away form the src. areas. There is no evidence of plume expansion.

Recommendations:

AEC recommends that a Q3 monitoring be completed and evaluated. The monitor freq. should then be decreased from qtly. to semi-annual if the data results do not vary appreciably. The potential for FPH removal will be evaluated based upon info. gathered during the Q3 monitor event. Recommendations on FPH will be provided as necessary separate from the monitor report. Michael Stewart PE (303-948-7733).

J-4-2 Release Site

Project Summary: J-4-2 Release Site
Unit C, Section 27 Township 19 South, Range 35 East

Summary date: October 10, 2006

Project history: Pipeline Leak

The release at this site was discovered in August 2005. EPI completed a limited soil cleanup and preliminary groundwater investigations between August 2005 and the first quarter of 2006.

A work plan proposing additional site characterization activities was submitted to the NMOCD. The site activities were completed in September 2006 and a report is currently being generated.

Current Project Status:

Preliminary evaluation of the data indicates that the groundwater plume has been defined beyond the limit of detectable concentrations. Additional activities will be proposed as necessary in the pending investigative report.

On 12/28/06, Stephen Weathers e-mailed a AEC Consultants site investigation rpt. (12/26/07). Water table elevations rose by 0.45 to 1 ft. FPH thickness in MW-2 declined from 0.57 to 0.15 between 2/06 and 9/06. Probably due to high precip. summer 2006. I~ 0.006 toward SE. Head at MW-2 slightly higher than at other wells. K~ 90 ft/day based on pump test. n! 0.15. Estimated GW velocity !3.6 ft/day or 1,310 ft/yr. All develop. and purge water was disposed of at the Linam Ranch facility by EPI. All cuttings generated during the drilling process will be stockpiled

and sampled and then disposed of in an appropriate fashion. Unaffected cuttings will be spread thin.

Final field activity completed was to measure physical properties of saturated mtls. Slug tests were completed on all wells that don't contain FPH to estim. saturated K.

Following recommendations from AEC (Michael Stewart 303-948-7733):

A passive bailer should be installed in MW-2 to attempt to remove mobile FPH. GW monitoring should be completed 3 more times on a qtly. basis to compile a data base based upon 4 seasons of measurements; Qtly repts should be generated based upon the results of the 4th qtr. 2006 and Q1 2007 monitor events; A comprehensive report will be compiled follow. completion of Q2 2007 monitor episode. This report. include recom. of both long-term monitor and , if necessary, implementation of active remediation; Additional charact. activities & active remediation activities will not be completed during this time interval unless data indicates hydrocarb. plume is expanding; the next GW monitor event is scheduled fro the Q4 2006.

On 12/20/06, John Furgerson (jmfergerson@grandecom.net) sent msg. that Trident Environ. a subcontractor of Duke's will be conducting monitor well gauging & GW sampling at 1300 MST Thursday, Dec. 21, 2006. They will measure SWLs in all MWs using an oil/water interface probe; purge non-product MW/RWs. Collect GW samples for BTEX; ship samples using COC protocol; and purge water will be disposed at a NMOCD approved facility.

X-line Site (1RP-400)

Project Summary: X line Release Site (1RP-400)
Unit B, Section 7 Township 15 South, Range 34 East

Summary date: October 10, 2006

Project history: Pipeline Release

The release at this site was discovered in January 2002. EPI completed soil cleanup and preliminary groundwater investigations the first quarter of 2002. A preliminary groundwater investigation was completed in May 2002.

The following remediation components were installed at the site:

· A free phase hydrocarbon (FPH) removal system was installed in MW-8 in July 2003. The system continued to function until the mobile FPH was removed.

· An air sparge (AS) system became operational in June 2003. The system was operated until hydrocarbon concentrations in the wells (except for the FPH collection well) were all measured below the method detection limits.

· A soil vapor extraction (SVE) system was also installed in June 2003. The SVE system operated regularly until August 2006. No FPH was present in the extraction well in September 2006.

Quarterly monitoring is completed at the site. The last monitoring episode was conducted in September 2006.

Current Project Status:

A report detailing the September 2006 activities at this site will be prepared when the analytical data is received and verified.

DEFS will evaluate the feasibility of initiating air sparge in the FPH recovery well to complete source recovery provided no additional FPH is measured in the well.

Received 4th qtr 2006 GW monitor report for pipeline release on January 30, 2007.

Received Q3 2006 GW monitor report from Stephen Weathers 303-605-1718)) for pipeline release on 12/18/06. X-Line pipeline release on the Etcheverry Ranch at 33 deg 02 min 11 sec, 103 deg 32 min 48 sec. MWs 1 through 8 sampled. SWLs reassured. Unfiltered samples were collected for BTEX. MW-8 is not included in hydrograph because casing elev. has not been established (see report for conclusions, etc.).

On 9/8/2006, Stephen Weathers (swweathers@duke-energy.com) sent Ben Stone the Q2 2006 GW monitor report located on the Etcheverry Ranch near Lovington, NM.

The report is missing and OCD needs another copy.

RR Ext, (AP-55)

Project Summary: RR Ext, (Abatement Plan AP-55)
Unit C, Section 19 Township 20 South, Range 37 East

Summary date: October 10, 2006

Project history:

DEFS initiated cleanup activities after a December 13, 2005 release. The spill was remediated, and a temporary well was drilled to groundwater during the first quarter of 2006. A sample from the well contained dissolved-phase hydrocarbons.

The NMOCD assigned the site an abatement plan number based upon the groundwater sample. A Stage 1 Abatement Plan Proposal was submitted to the NMOCD on or about May 26, 2006.

Current Project Status:

DEFS is waiting for approval for the Stage 1 Abatement Plan Proposal. DEFS will initiate the required activities following receipt of that approval

PCA Junction

Trisha Elizondo (ARCADIS) (Trisha.elizondo@arcadis-us.com)

On 1/17/07, notification that ARCADIS will be conducting mo. Product recovery and PCA Junction on 1/22-23/07. Routine product recovery is on going at site through hand bailing. MWs at 2 locations will be surveyed to help w/ GW flow & potentiometric surface.

Monument Booster Station (Gas Compression Facility)

Q3 2006 GW Monitor activities completed on 9/20/06 & submitted 1/30/07. Next monitor event Q1 2007. Next annual rpt. Prepared following completion of Q1 2007.
No measurable free-product was detected in any MWs. However, in the submittal is shows MWs 1 and 5 have free product at 1.6 and 0.55 inches? No BTEX detected in down-gradient boundary wells MW-3 and 4. No BTEX in up gradient MWs 1D and 2. MW-6 showed anomalously high levels of BEX. Will keep in mind next sample event for continuing trend.

On 11/1/2006, Daniel Dick 303-605-1893 (didick@duke-energy.com) submitted Annual GW Monitor Rpt. 2005-2006. A copy of the summary report for Q3 2005 and Q1 2006 GW sampling effort. Data indicates that the GW conditions remain stable. The next monitor episode was performed 9/2006. The next annual report for the site will be prepared following the completion of the Q1 2007 monitor activities & review & validation of he analytical results. FPH thick measurements on 3/16/06 for period since passive FPH collectors were removed at MW-1 (0.37 in.) and MW-5 (0.39). FPH thick may be declining in MW-1 and is stable at MW-5. None of the BTEX constituents were detected in downgrade boundary wells MW-3 and MW-4. BTEX was also not detected in upgrade wells MW-1D & 2. Hydrocarbs were detected in MW-7, but benz was only constituent above WQCC Stds. No sample has exceeded the WQCC Stds for TEX. Only MW-7 samples have exceeded for benz. Since 2/2000. Benz detection sporadic in all wells except MW-7 since 2/2000. BTX concentrations in MW-7 continue to fluctuate.

Further src. control activities should be postponed given the decreasing product thick in MW-1. The Next semi-annual gw monitor event is scheduled for Q3 2006. Reporting will continue on an annual basis unless unusual conditions warrant notification after the Q3 sampling event.

Attachment: DCP Midstream LP Related Facilities

Application No.	Application Type	Order No. (ex., GW-##)	Applicant	Facility	Environmental Permit Status	Rcvd	Order	Exp	legal	County	Reviewer	District	IssuingOff	Notes	Cleanup Status
pENV000GW0 0154	Discharge Plan Permit	143	DCP MIDSTREAM L.P.	DUKE CAL-MON CS	A	03/29/1993	05/14/1993	05/14/2008	J-35-23 S-31 E	Eddy	Chavez	Artesia	Santa Fe		
pENV000GW0 0242	Discharge Plan Permit	227	DCP MIDSTREAM L.P.	LG&E HADSON GILLESPIE/F EAGAN CS	I		12/28/1995	12/28/2005	A-24-17 S-35 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0331	Discharge Plan Permit	316	DCP MIDSTREAM L.P.	DUKE PAIGE CS	A	08/17/1999	01/06/2000	01/06/2005	O-4-21 S-32 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0326	Discharge Plan Permit	311	DCP MIDSTREAM L.P.	RAPTOR COTTON DRAW	A	01/15/1999	01/06/2000	01/06/2005	C-18-25 S-32 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0187	Discharge Plan Permit	176	DCP MIDSTREAM L.P.	DUKE BOOTLEG CS	A	10/27/1994	01/20/1995	01/20/2005	J-18-22 S-33 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0163	Discharge Plan Permit	152	DCP MIDSTREAM L.P.	DUKE WHITE CITY C.S.	C		12/13/1993		-10-24 S-26 E	Eddy	Chavez	Artesia	Santa Fe	Site is shut down-Llano to submit closure	
pENV000GW0 0228	Discharge Plan Permit	213	DCP MIDSTREAM L.P.	DUKE STRATA CS	A	07/18/1995	08/30/1995	08/30/2000	A-22-23 S-34 E	Lea	Chavez	Hobbs	Santa Fe	closure requested need picture and TPH analysis	
pENV000GW0 0156	Discharge Plan Permit	145	DCP MIDSTREAM L.P.	DUKE ZIA GAS PLANT & ZIA BOOSTER STATION	A		07/06/1993	07/06/2008	A-19-19 S-32 E	Lea	Chavez	Hobbs	Santa Fe	3 below grade tanks registered	
pENV000GW0 0303	Discharge Plan Permit	288	DCP MIDSTREAM L.P.	DUKE PARDUE CS	A	10/06/1997	11/24/1997	11/24/2007	J-10-23 S-28 E	Eddy	Chavez	Artesia	Santa Fe	need $400 fee + sign-off	
pENV000GW0 0178	Discharge Plan Permit	167	DCP MIDSTREAM L.P.	DUKE P & P Malaga CS	A	05/19/1994	07/25/1994	07/25/2004	G-3-24 S-28 E	Eddy	Chavez	Artesia	Santa Fe	need sign-offs	
pENV000GW0 0173	Discharge Plan Permit	162	DCP MIDSTREAM L.P.	DUKE ANTELOPE RIDGE GP	A	01/21/1994	04/04/1994	03/23/2004	O-15-23 S-34 E	Lea	Chavez	Hobbs	Santa Fe	rec DP App + $100 issued PN and Draft DP 1/23/04	
pENV000GW0 0171	Discharge Plan Permit	160	DCP MIDSTREAM L.P.	DUKE BRIGHTM FED CS	C	11/29/1993	01/14/1994		C-21-19 S-33 E	Lea	Chavez	Hobbs	Santa Fe	DP terminated 1/22/04	
pENV000GW0 0161	Discharge Plan Permit	150	DCP MIDSTREAM L.P.	DUKE PURE GOLD "28" CS	A		11/22/1993	11/22/2003	D-28-23 S-31 E	Lea	Chavez	Hobbs	Santa Fe	Rec DP application + $100 issued PN 1/23/04 & Draft DP	
pENV000GW0 0311	Discharge Plan Permit	296	DCP MIDSTREAM L.P.	DUKE CEDAR CANYON CS	A	03/23/1998	07/15/1998	07/15/2008	P-9-24 S-29 E	Eddy	Chavez	Artesia	Santa Fe		
pENV000GW0 0252	Discharge Plan Permit	237	DCP MIDSTREAM L.P.	DUKE PECOS DIAMOND GP	A	02/05/1996	03/29/1996	03/29/2011	G-3-18 S-27 E	Eddy	Chavez	Artesia	Santa Fe		1 below grade tank registered

pENV000GW0 0254	Discharge Plan Permit	239	DCP MIDSTREAM L.P.	Duke QUINN CS	A	03/08/1996	08/09/1996	08/09/2011	L-16-31 N-8 W	San Juan	Chavez	Aztec	Santa Fe	DP w/ filing fee process, renewed, issued with letter mailed out 10/23/2006. Received $1700 fee 10/26/06. Signed DP received 1-11 07 Ok.	
pENV000GW0 0088	Discharge Plan Permit	77	DCP MIDSTREAM L.P.	Duke MIDDLE MESA CS	A	04/10/1991	11/14/1991	11/14/2006	M-10-31 N-7 W	San Juan	Chavez	Aztec	Santa Fe		
pENV000GW0 0002	Discharge Plan Permit	2	DCP MIDSTREAM L.P.	LEE GP	A	11/13/1995	03/16/1981	03/16/2011	N-30-17 S-35 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0009	Discharge Plan Permit	9	DCP MIDSTREAM L.P.	EUNICE CS	C	10/06/1988	10/11/1983		-5-21 S-36 E	Lea	Chavez	Hobbs	Santa Fe	GW-009 vacated and merged into GW-16 OCT 8, 1993	
pENV000GW0 0016	Discharge Plan Permit	15	DCP MIDSTREAM L.P.	DUKE LINAM RANCH GP	A	05/17/1989	04/25/1984	04/25/2009	-6-19 S-37 E	Lea	Chavez	Hobbs	Santa Fe	1 below grade concrete tank registered	
pENV000GW0 0017	Discharge Plan Permit	16	DCP MIDSTREAM L.P.	DUKE EUNICE GP	A	04/13/1989	04/25/1984	04/25/2009	H-5-21 S-36 E	Lea	Chavez	Hobbs	Santa Fe	10 below grade tanks + 1 sulphur pit registered	
pENV000GW0 0024	Discharge Plan Permit	23	DCP MIDSTREAM L.P.	GPM ARTESIA GP	A	01/17/1995	07/01/1985	07/01/2010	-7-18 S-28 E	Eddy	Chavez	Artesia	Santa Fe	call&E-mail 1/07/2000 120 day notice. Late flat fee notice sent 1/11/02. Flat fee received 1/29/02.	1 classifier, 5 sumps, 1 sulphur pit, 2 below grade tanks registered (Flare Pit Soil Remediation & Closure Workplan)
pENV000GW0 0025	Discharge Plan Permit	24	DCP MIDSTREAM L.P.	DUKE AVALON GP	I	06/15/1990	09/18/1985	09/18/2005	J-9-21 S-27 E	Eddy	Chavez	Artesia	Santa Fe	Notice of late flat fee sent 1/11/2002.	
pENV000GW0 0044	Discharge Plan Permit	42	DCP MIDSTREAM L.P.	GPM INDIAN HILLS GP	I		07/20/1987		L-13-21 S-25 E	Eddy	Chavez	Artesia	Santa Fe	Letter from Duke, dated 12/10/01, notifying site is inactive.	
pENV000GW0 0149	Discharge Plan Permit	138	DCP MIDSTREAM L.P.	DUKE TRACHTA CS	C		04/30/1993		-14-23 S-28 E	Eddy	Chavez	Artesia	Santa Fe	Facility is inactive	

pENV000GW0 0079	Discharge Plan Permit	69	DCP MIDSTREAM L.P.	DUKE CARLSBAD GP	A	12/28/2006	04/29/1992	04/29/2012	G-10-23 S-28 E	Eddy	Chavez	Artesia	Santa Fe	Public Notice prepared 1/15/02. Request for additional information sent 1/2/02. Received $100 filing fee & renewal on 12/28/06.	4 sumps registered
pENV000GW0 0189	Discharge Plan Permit	178	DCP MIDSTREAM L.P.	DUKE WON TON CS	C		03/21/1995	03/21/2005	I-10-17 S-37 E	Lea	Chavez	Hobbs	Santa Fe	1 below grade tank registered	
pENV000GW0 0138	Discharge Plan Permit	127	DCP MIDSTREAM L.P.	DUKE MAGNUM C.S.(BURTO N FLATS GP)	A	08/10/1992	02/03/1993	02/03/2008	G-9-20 S-29 E	Eddy	Chavez	Artesia	Santa Fe	1 below grade tank registered as sump	
pENV000GW0 0139	Discharge Plan Permit	128	DCP MIDSTREAM L.P.	DUKE PAIGE CS	A	08/11/1992	11/19/1992	11/20/2007	O-4-21 S-32 E	Lea	Chavez	Hobbs	Santa Fe	6 mo. Renewal notice sent 7/10/02; renewal application received	
pENV000GW0 0148	Discharge Plan Permit	137	DCP MIDSTREAM L.P.	DUKE CARRASCO CS	A		04/28/1993	04/28/2008	F-14-23 S-28 E	Eddy	Chavez	Artesia	Santa Fe	1 skid sump registered	
pENV000GW0 0150	Discharge Plan Permit	139	DCP MIDSTREAM L.P.	DUKE CP-1 CS	C		04/28/1993		I-15-23 S-28 E	Eddy	Chavez	Artesia	Santa Fe	Site inactive, requested closure workplan 1/10/03. WP approved, Closure Approved 10/15/2003	
pENV000GW0 0153	Discharge Plan Permit	142	DCP MIDSTREAM L.P.	DUKE SAND DUNES CS	A	03/26/1993	05/17/1993	05/17/2008	P-23-23 S-31 E	Eddy	Chavez	Artesia	Santa Fe	1 below grade tank registered	
pENV000GW0 0155	Discharge Plan Permit	144	DCP MIDSTREAM L.P.	DUKE NORTH (WESTALL) CS	A	05/05/1993	08/19/1993	08/19/2008	E-35-22 S-28 E	Eddy	Chavez	Artesia	Santa Fe	Renewal application dated 4/3/03 - renewal on hold pending legal determination	1 below grade tank registered
pENV000GW0 0179	Discharge Plan Permit	168	DCP MIDSTREAM L.P.	DUKE SOUTH FEAGAN CS	C	07/06/1994	12/28/1994	12/27/2004	N-31-19 S-25 E	Eddy	Chavez	Artesia	Santa Fe	Late filing fee and flat fee notice sent 1/11/02. Flat fee received 1/29/02.	
pENV000GW0 0188	Discharge Plan Permit	177	DCP MIDSTREAM L.P.	DUKE MALJAMAR CS	C		03/21/1995	03/21/2005	I-20-17 S-33 E	Lea	Chavez	Hobbs	Santa Fe		
pENV000GW0 0046	Discharge Plan Permit	44	DCP MIDSTREAM L.P.	HOBBS BOOSTER CS	A		12/23/1987	12/23/2007	-4-19 S-38 E	Lea	Chavez	Hobbs	Santa Fe	renewal notice sent 7/10/02	

pENV000GW0 0270	Discharge Plan Permit	255	DCP MIDSTREAM L.P.	Duke BUENA VISTA CS	A	07/15/1996	09/05/1996	09/05/2011	B-13-30 N-9 W	San Juan	Chavez	Aztec	Santa Fe	DP renewed, issued with letter mailed out 10/23/2006. Received $1700 on 10/26/2006. Signed DP received on 1/11/2007. Ok.	
pENV000GW0 0273	Discharge Plan Permit	258	DCP MIDSTREAM L.P.	Duke CEDAR HILL CS	A	07/30/1996	09/30/1996	09/30/2011	-29-32 N-10 W	San Juan	Chavez	Aztec	Santa Fe	DP renewed, issued with letter mailed out 10/23/2006. Permit fee of $1700 received on 10/26/2006. Signed DP received on 1/11/07. Ok.	
pENV000GW0 0292	Discharge Plan Permit	277	DCP MIDSTREAM L.P.	CSI - BIG EDDY LATERAL#1 CS	A		02/17/1997	02/17/2007	A-19-21 S-28 E	Eddy	Chavez	Artesia	Santa Fe	Taken over by Duke Energy. Received DP renewal letter dated 10/19/2006 w/ $100 filing fee. Mailed out final permit 9/16/06. Awaiting $1700 Compressor Station fee.	1 below grade tank registered
pENV000GW0 0174	Discharge Plan Permit	163	DCP MIDSTREAM L.P.	DUKE APEX CS	A		04/29/1999	04/29/2004	C-36-18 S-36 E	Lea	Chavez	Hobbs	Santa Fe	request GW info and DP renewal by 12/01/04	
pENV000GW0 0186	Discharge Plan Permit	175	DCP MIDSTREAM L.P.	DUKE HOBBS GP	A		01/09/1995	01/09/2005	G-36-18 S-36 E	Lea	Chavez	Hobbs	Santa Fe	Request DP renewal and GW info BY 12/01/04	
	1RP-401-0		DCP MIDSTREAM L.P.	C-line Release Site (1RP-401-0)					O-31-19 S-37 E	Lea	?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	
	AP-33		DCP MIDSTREAM L.P.	Eldridge Ranch					P-21-19 S-37 E	Lea	?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	
			DCP MIDSTREAM L.P.	J-4-2 Pipeline Release Site					C-27-19 S-35 E		?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	
	1RP-400		DCP MIDSTREAM L.P.	X-line Pipeline Site (1RP-400)					B-7-15 S-34 E		?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	

	AP-55		DCP MIDSTREAM L.P.	RR Ext, (AP-55)				C-19-20 S-37 E		?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	
	2R-043		DCP MIDSTREAM L.P.	PCA Junction				11-20 S-30 E		?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	
	1R-156		DCP MIDSTREAM L.P.	Monument Booster Station				B-33-19 S-37 E (32.6238 -103.2550)		?	Hobbs	Santa Fe	Meeting w/ company 2/1/07	

Project Summary: X line Release Site (1RP-400)
Unit B, Section 7 Township 15 South, Range 34 East

Summary date: January 2007

Project history: Pipeline Release

The release at this site was discovered in January 2002. EPI completed soil cleanup and preliminary groundwater investigations the first quarter of 2002. A preliminary groundwater investigation was completed in May 2002.

The following remediation components were installed at the site:

- A free phase hydrocarbon (FPH) removal system was installed in MW-8 in July 2003. The system continued to function until the mobile FPH was removed.

- An air sparge (AS) system became operational in June 2003. The system was operated until hydrocarbon concentrations in the wells (except for the FPH collection well) were all measured below the method detection limits.

- A soil vapor extraction (SVE) system was also installed in June 2003. The SVE system operated regularly until August 2006. No FPH was present in the extraction well in September 2006.

Quarterly monitoring is completed at the site. The last monitoring episode was conducted in September 2006.

Current Project Status:

SVE SYSTEM WAS RESTARTED TO CONTINUE REMOVING THE RESIDUAL FPH IN THE COLLECTION WELL

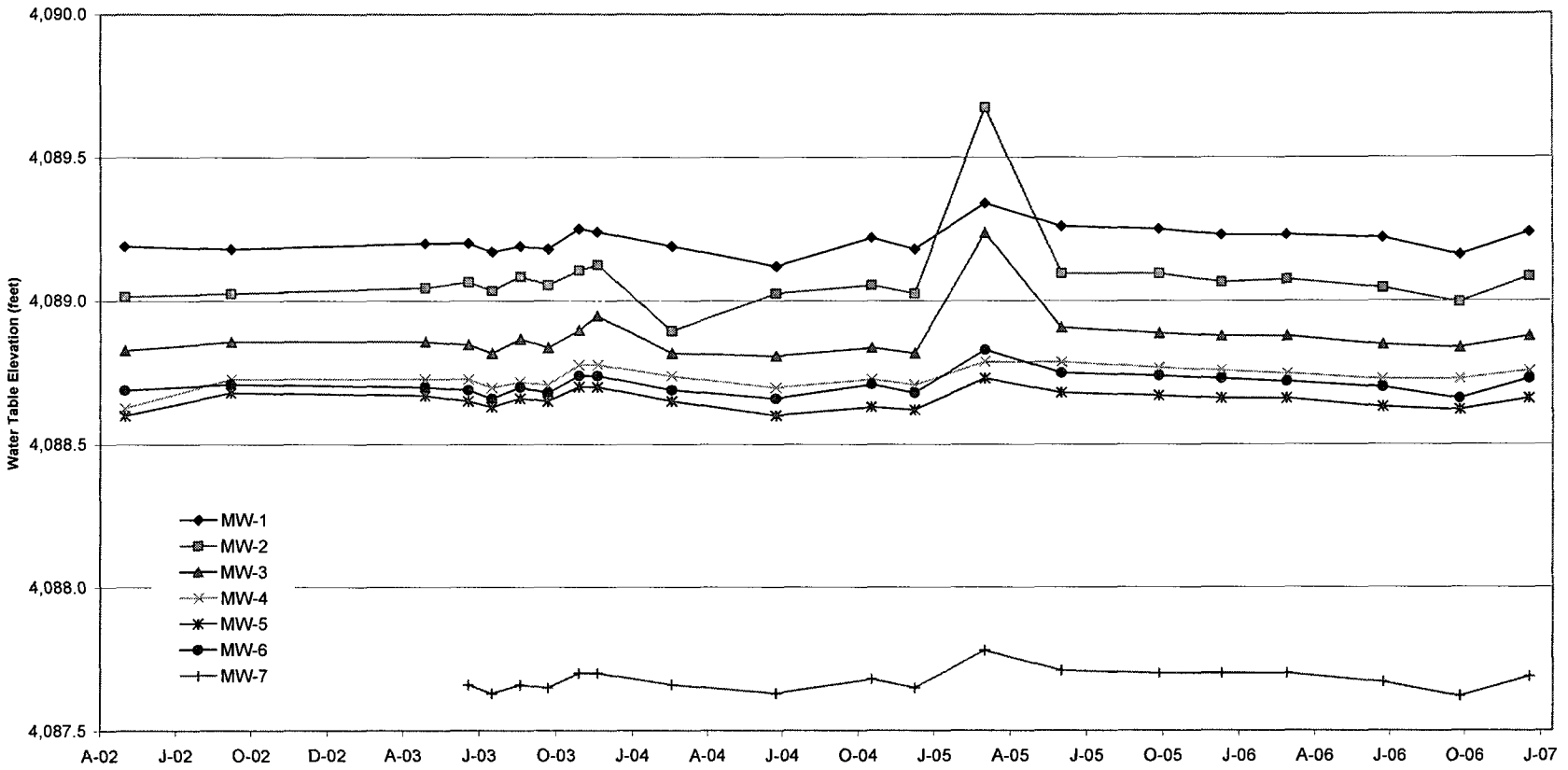


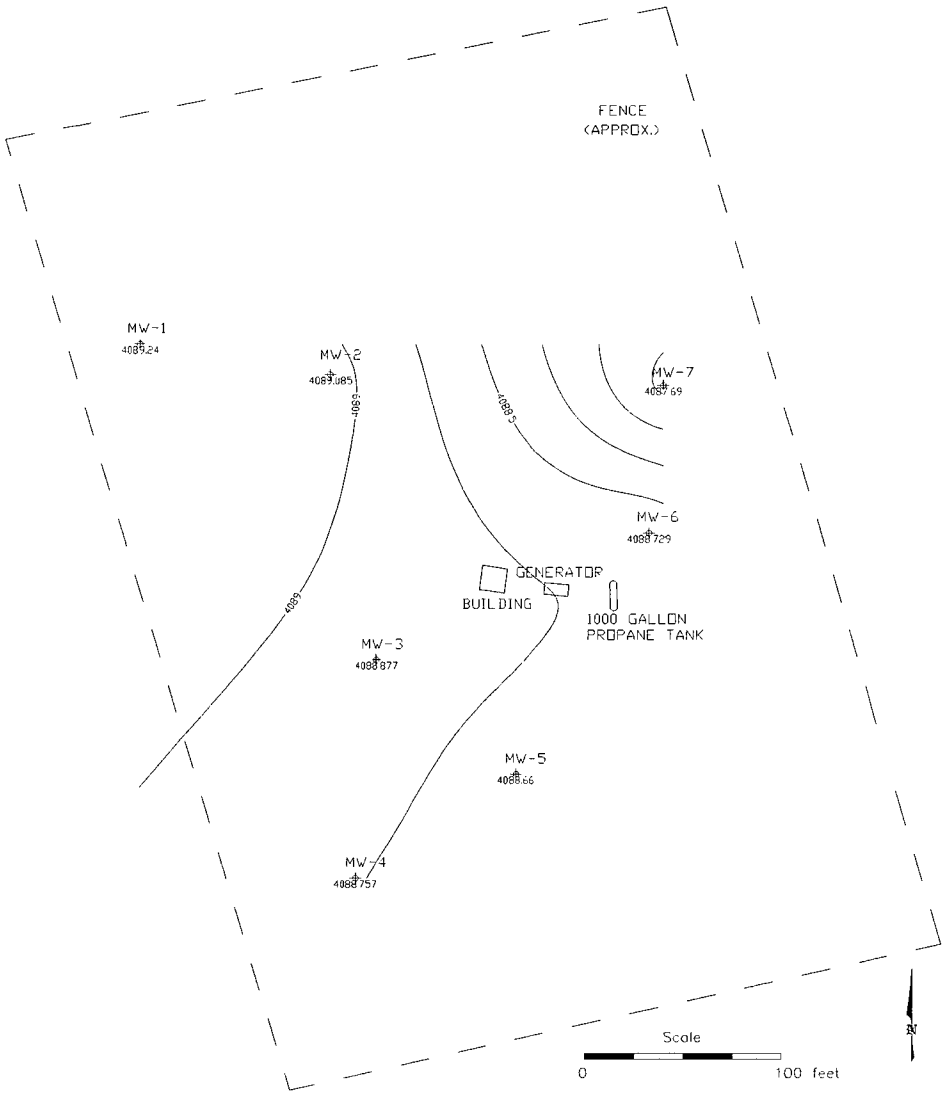
Figure 3 – Well Hydrographs

X-Line Remediation

dcp Midstream.

DRAWN BY: MHS

DATE:1/07



Contour interval is 0.25 feet

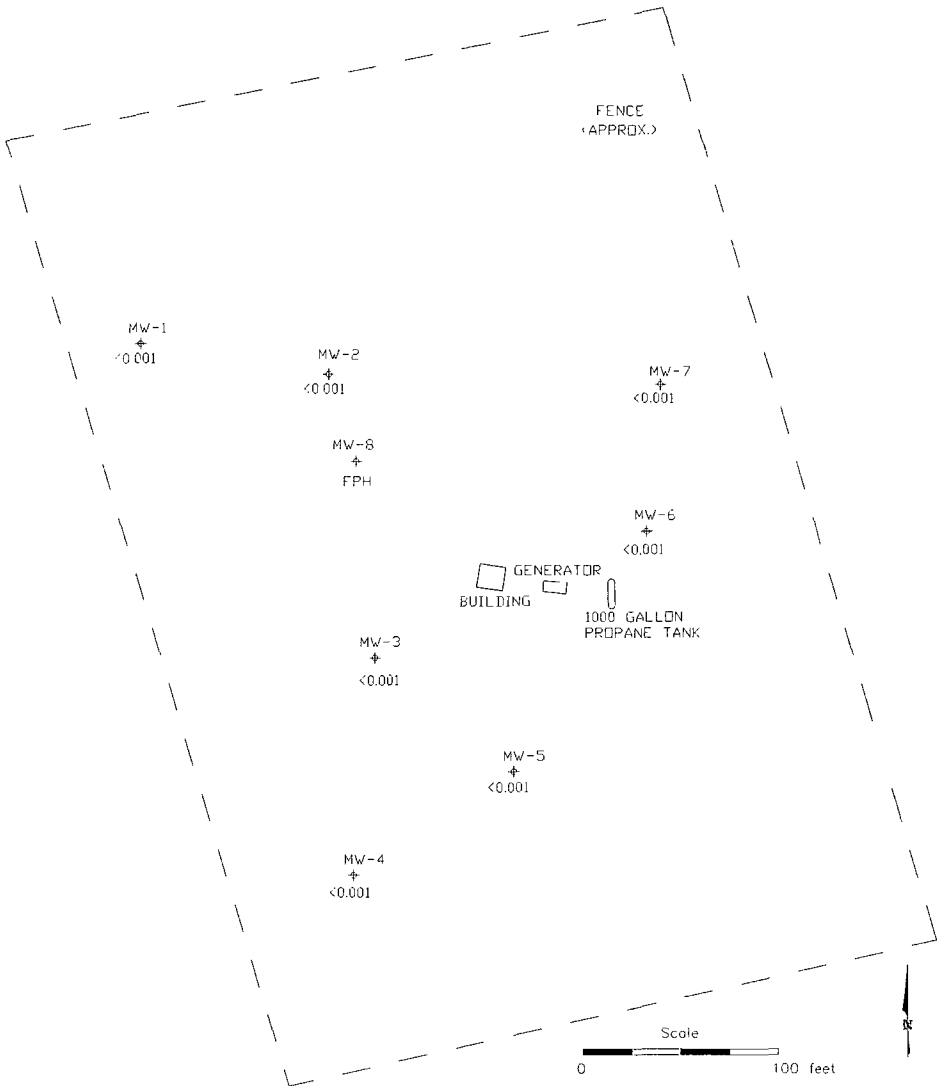
Figure 4 – Sep. 2006 Water Table Contours

X-Line Remediation

dcp Midstream

DRAWN BY: MHS

DATE: 1/07



Units are mg/l

Figure 5 – Dec. 2006 Benzene Concentrations

X-Line Remediation

dcp Midstream

DRAWN BY: MHS

DATE: 1/07

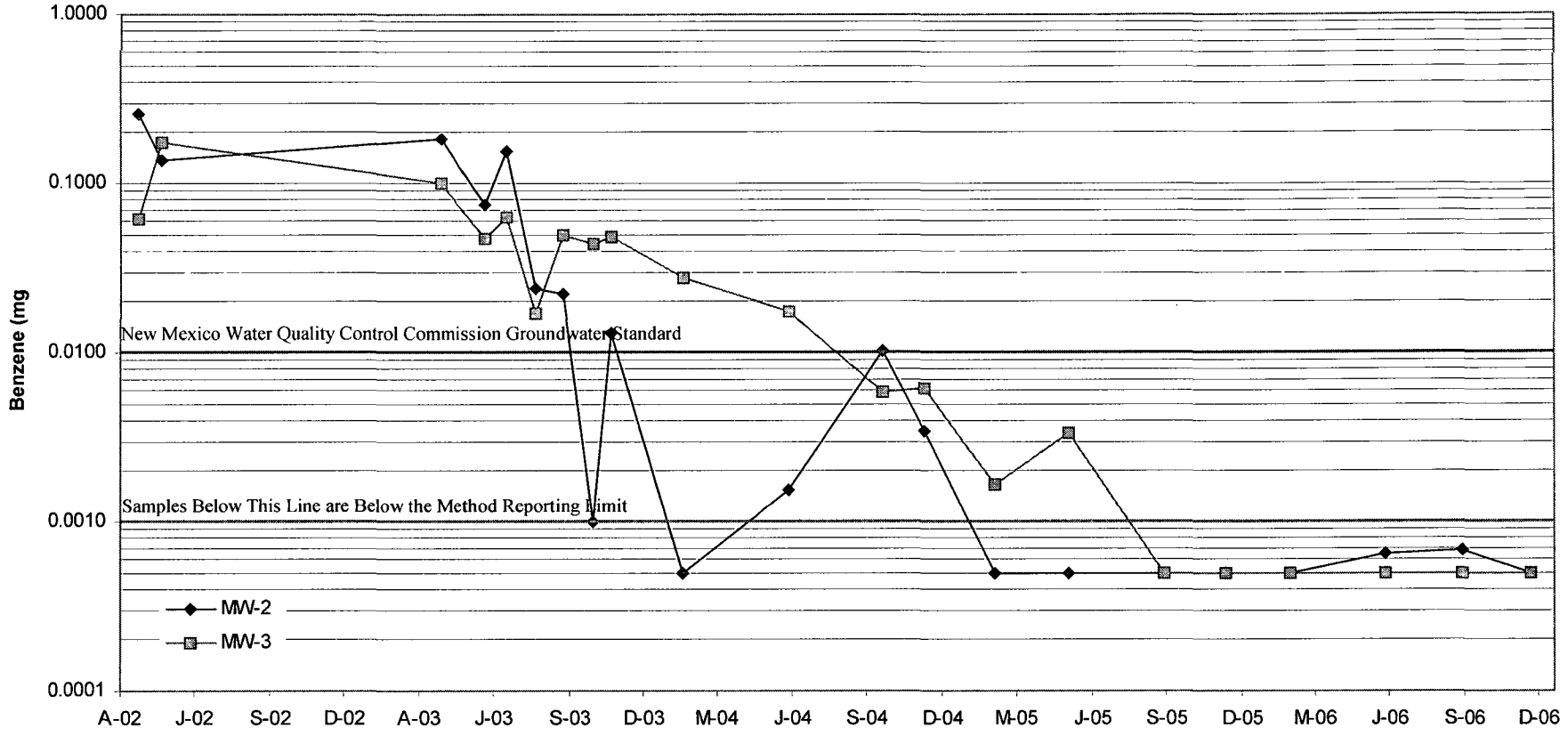


Figure 6 – Benzene Concentrations in MW-2 and MW-3

X-Line Remediation

dcp Midstream.

DRAWN BY: MHS

DATE: 1/07

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [SWWeathers@dcpmidstream.com]
Sent: Monday, January 15, 2007 9:36 AM
To: Chavez, Carl J, EMNRD
Subject: DCP Midstream Remediation Projects

Carl

I would like to set up a meeting with you to go over DCP Midstream Remediation Projects. What would your availability be for next week possibly on Thursday (January 25) or Mid Week the following week to meet and discuss the projects?

Daniel Dick and myself would attend as well as Mike Stewart the Environmental Consultant that does most of our groundwater remediation projects in NM.

Thanks

Stephen Weathers
Sr. Environmental Specialist
DCP Midstream
303-605-1718 (Office)
303-619-3042 (Cell)

Effective 1/1/07 my email address has changed to swweathers@dcpmidstream.com

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [swweathers@duke-energy.com]
Sent: Monday, December 18, 2006 10:48 AM
To: Chavez, Carl J, EMNRD
Cc: Ward, Lynn C
Subject: DEFS X-Line Pipeline Release Groundwater Report (1RP-400-0)

Mr. Chavez:

Attached you will find the 3rd Quarter, 2006 groundwater monitor report along with a cover letter for the DEFS X-Line Pipeline Leak Project (Etcheverry Ranch) located near Lovington, New Mexico (Unit B, Section 7, T15S R34E).

Larry Johnson of the Hobbs District Office will be provided a copy of the report on CD per his request.

If you have any questions, please give me a call at 303-605-1718.

Thanks

Steve Weathers
Duke Energy Field Services

Duke Energy® Field Services

370 17th Street, Suite 2500
Denver, Colorado 80202
303-595-3331 – main
303-605-1957 – fax

December 18, 2006

Mr. Carl Chavez
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: DEFS 3rd Quarter 2006 Groundwater Monitoring Summary Report
X-Line Pipeline Release (1RP-400-0)
Unit B, Section 7, T15S, R34E (Lat 33° 02' 11", Long 103° 32' 48")

Dear Mr. Chavez:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, an electronic copy of the 3rd Quarter 2006 Groundwater Monitoring Results for the DEFS X-Line Pipeline Release Site located within the Etcheverry Ranch, Lea County, New Mexico.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers, PG
Sr. Environmental Specialist

cc: Larry Johnson, OCD Hobbs District Office (Copy on CD)
Lynn Ward, DEFS Midland Office
Mrs. Etcheverry – Certified Mail **91 7108 2133 3931 3926 3273**
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

December 15, 2006

Mr. Stephen Weathers
Duke Energy Field Services, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Re: Third Quarter 2006 Groundwater Monitoring Summary at the X-Line Pipeline Release, Etcheverry Ranch, Lea County, New Mexico
Unit B, Section 7, Township 15 South, Range 34 East (1RP-400-0)

Dear Mr. Weathers:

This letter summarizes the results of the third quarter 2006 groundwater monitoring activities completed September 28, 2006 for Duke Energy Field Services, LP (DEFS) at the X-Line Pipeline Release on the Etcheverry Ranch at latitude 33 degrees 02 minutes 11 seconds, longitude 103 degrees 32 minutes 48 seconds (Figure 1).

Eight groundwater-monitoring wells, MW-1 through MW-8, were sampled at the site. The well locations are shown on Figure 2. Monitoring well construction information is summarized in Table 1.

The depths to water were initially measured in each well. This data was used to calculate well casing-volume storage.

The wells were then purged and sampled using disposable bailers. Well purging consisted of removing a minimum of three casing volumes of water and then continuing bailing until the field parameters temperature, pH and conductivity stabilized. The field sampling forms are attached.

Unfiltered samples were collected from each well upon stabilization. Each sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX). A field duplicate was collected from well MW-3. A matrix spike/matrix spike duplicate was also collected from MW-4. The laboratory also provided a trip blank as the final quality assurance/quality control measure.

The samples were placed in an ice-filled chest immediately upon collection and documented using standard chain-of-custody protocol. The samples were delivered directly to the Environmental Labs of Texas in Midland Texas. All affected development and purge water was disposed of at the DEFS Linam Ranch facility

The groundwater elevation measurements for all sampling episodes are summarized in Table 2. Hydrographs for wells MW-1 through MW-7 are shown on Figure 3. Well MW-8 is not included because its casing elevation is not established.

Figure 3 shows that the water-table elevations have remained essentially constant in all seven wells between June 2005 and September 2006. A water-table contour map based upon the September 2006 measurements was generated using the Surfer program with a kriging option (Figure 4). The water-table configuration reflects the historical conditions because of the consistent groundwater elevations.

The Free Phase Hydrocarbon (FPH) thickness values measured in MW-8 during the monitoring program are summarized in Table 3. No FPH was measured in September 2006 although the soil vapor extraction (SVE) system had been down for approximately two weeks to provide sufficient time for rebound. Moreover, the FPH thickness over the past year has been less than 0.04 feet indicating that most, if not all, of the mobile FPH has successfully been removed from the subsurface. The SVE system was not restarted after the September sampling to provide additional data on the potential for long-term FPH rebound.

Table 4 summarizes the September 2006 sampling results. A copy of the laboratory report is attached. None of the BTEX constituents were detected above the method reporting limits in wells MW-1 through MW-7. BTEX constituents were measured below the method reporting limits in MW-2 so the concentrations are considered estimates. Ethylbenzene was measured in below the method reporting limit in MW-6. The BTEX constituents were measured in MW-8, the former recovery well, however, as discussed above, this well has generally contained FPH until this monitoring event.

The quality assurance/quality control evaluation is summarized on Table 5. Important facts include:

1. The sample temperature was measured at 2.5° C upon receipt by the laboratory

2. There were no BTEX constituents detected in the trip blank.

3. All of the surrogate spikes fell within their respective control ranges.

4. The duplicate samples from MW-3 could not be evaluated because the measured concentrations in both samples were below the method reporting limits.

5. The matrix spike and the matrix spike duplicate results contained in the attached laboratory report were all within their acceptable ranges.

The above results establish that the samples are suitable for their intended uses.

The September 2006 benzene distribution is shown on Figure 5. The dissolved phase BTEX constituents are confined to a small area in the center of the site. Also, the BTEX constituents rapidly attenuated to below the laboratory reporting limit in the downgradient (eastern) direction.

All of the historical data for benzene, toluene, ethylbenzene and total xylenes are summarized in Tables 6, 7, 8, and 9 respectively. Important facts resulting from the evaluation of the data include:

- None of the seven historic monitoring wells MW-1 through MW-7 contained benzene above the 0.001 mg/l method reporting limit. This is the seventh consecutive sampling episode for MW-2 and the fifth consecutive sampling episode for MW-3 that met this condition. Figure 6 graphs their attenuation histories.

- Nine consecutive monitoring episodes (2 years) have elapsed since benzene was measured above the 0.010 mg/l New Mexico Water Quality Control Commission groundwater standard in historic monitoring wells MW-1 through MW-7 (Figure 6).

- FPH was not measured in MW-8. The dissolved phase sample did contain elevated levels of the BTEX constituents; however, this area should be amenable to treatment using air sparging based upon past air sparge remediation.

AEC recommends that soil vapor extraction (SVE) operation and air sparging (AS) be re-evaluated following receipt of the fourth quarter monitoring results. SVE should restarted if substantial changes in BTEX concentrations are measured in any of the seven historic monitoring wells (MW-1 through MW-7). AS should also be considered for use in MW-8 if no FPH are measured in this well.

The next monitoring episode is scheduled for the fourth quarter of 2006. AEC recommends that the SVE and/or AS system, if operating, be shut down approximately one week prior to sampling to allow sufficient time for FPH recovery and any potential dissolved phase rebound.

Thank you for allowing me to complete these activities. Do not hesitate to contact me if you have any questions or comments on this report.

Respectfully Submitted,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, P.E.
Principal Engineer

MHS:tbm

TABLES

Table 1 – Monitoring Well Completions

Well	Date Installed	Well Depth	Completion Interval	Top of Sand
MW-1	3/02	91	71-91	68
MW-2	3/02	88	68-88	62
MW-3	3/02	91	71-91	61
MW-4	4/02	91	71-91	68
MW-5	4/02	89	69-89	56
MW-6	4/02	90	70-90	68
MW-7	5/02	85	65-85	59

Notes: Units are Feet
Hydrocarbon extraction well (MW-8) completed between approximately 80 and 100 feet

Table 2- Measured Water Table Elevations

Well	5/1/02	9/6/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/09/04	3/3/05
MW-1	4,088.54	4088.53	4,088.55	4,088.55	4,088.52	4,088.54	4,088.53	4,088.60	4,088.59	4,089.19	4,089.12	4,089.22	4,089.18	4,089.34
MW-2	4,089.02	4089.03	4,089.05	4,089.07	4,089.04	4,089.09	4,089.06	4,089.11	4,089.13	4,088.90	4,089.03	4,089.06	4,089.03	4,089.68
MW-3	4,088.83	4088.86	4,088.86	4,088.85	4,088.82	4,088.87	4,088.84	4,088.90	4,088.95	4,088.82	4,088.81	4,088.84	4,088.82	4,089.24
MW-4	4,088.63	4088.73	4,088.73	4,088.73	4,088.70	4,088.72	4,088.71	4,088.78	4,088.78	4,088.74	4,088.70	4,088.73	4,088.71	4,088.79
MW-5	4,088.60	4088.68	4,088.67	4,088.65	4,088.63	4,088.66	4,088.65	4,088.70	4,088.70	4,088.65	4,088.60	4,088.63	4,088.62	4,088.73
MW-6	4,088.69	4088.71	4,088.70	4,088.69	4,088.66	4,088.70	4,088.68	4,088.74	4,088.74	4,088.69	4,088.66	4,088.71	4,088.68	4,088.83
MW-7	----	----	----	4,088.04	4,088.01	4,088.04	4,088.03	4,088.08	4,088.08	4,087.66	4,087.63	4,087.68	4,087.65	4,087.78

Well	6/3/05	9/28/05	12/12/05	3/1/06	6/26/06	9/28/06
MW-1	4,089.26	4,089.25	4,089.23	4,089.23	4,089.22	4,089.16
MW-2	4,089.10	4,089.10	4,089.07	4,089.08	4,089.05	4,089.00
MW-3	4,088.91	4,088.89	4,088.88	4,088.88	4,088.85	4,088.84
MW-4	4,088.79	4,088.77	4,088.76	4,088.75	4,088.73	4,088.73
MW-5	4,088.68	4,088.67	4,088.66	4,088.66	4,088.63	4,088.62
MW-6	4,088.75	4,088.74	4,088.73	4,088.72	4,088.70	4,088.66
MW-7	4,087.71	4,087.70	4,087.70	4,087.70	4,087.67	4,087.62

Units are feet

Table 3 – Summary of Product Thickness in MW-8

Measurement Date	Product Thickness (feet)
09/06/02	5.20
04/28/03	5.65
06/19/03	4.01
07/17/03	3.93
09/22/03	3.42
10/29/03	1.42
11/20/03	0.79
06/25/04	0.03
10/18/04	3.26[1]
12/09/04	2.71[1]
03/03/05	0.00
06/03/05	0.12
09/28/05	1.01
12/12/05	0.00
03/1/06	0.04
06/26/06	0.03
09/28/06	0.00

Table 4 – September 28, 2006 Groundwater Monitoring Results

Well	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW-1	<0.001	<0.001	<0.001	<0.001
MW-2	0.00068J	0.00137	0.00032J	0.0014J
MW-3	<0.001	<0.001	<0.001	<0.001
MW-3 (duplicate)	<0.001	<0.001	<0.001	<0.001
MW-4	<0.001	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	0.00121	<0.001
MW-7	<0.001	<0.001	<0.001	<0.001
MW-8	0.235	0.791	0.239	2.27
Trip blank	<0.001	<0.001	<0.001	<0.001

Notes: Units are mg/l

J modifier is for estimated values whose measured concentrations fall between the method detection limit and the method reporting limit.

Table 5 – September 28, 2006 Quality Assurance and Quality Control Results

Field Duplicate Relative Percentage Difference Values for MW-3

	Benzene	Toluene	Ethyl Benzene	Xylenes p,m/o
RPD (%)	NA	NA	NA	NA

NA: Calculation could not be completed because constituent was not detected above method reporting limits..

MW-4 Matrix Spike/Matrix Spike Duplicate Results

	Benzene	Toluene	Ethyl Benzene	Xylenes p,m	Xylenes o
Matrix Spike	108	92.4	86.2	95.8	87.4
Matrix Spike Duplicate	109	95.4	88.0	95.8	93.6

Note: Units are percent recovered

Table 6 – Summary of Laboratory Data for Benzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.0255	0.145	0.182	0.074	0.155	0.024	0.022	0.001	0.013	<0.001	0.00156	0.0103	0.00342	<0.001	<0.001	<0.001	<0.001
MW-3	0.061	0.176	0.099	0.047	0.063	0.017	0.049	0.044	0.048	0.0280	0.0173	.00584	0.006137	0.00167	0.00332	<0.001	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	0.561

Well	3/1/06	6/26/06	9/28/06
MW-1	<0.001	<0.001	<0.001
MW-2	<0.001	0.0006	0.0007
MW-3	<0.001	<0.001	<0.001
MW-4	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001
MW-8	FPH	FPH	0.235

Notes: Units are mg/l.
Duplicate sample results were averaged together
Indicators for estimated (J) values not shown
FPH: Free phase hydrocarbons present, no sample collected

Table 7 – Summary of Laboratory Data for Toluene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.107	0.833	0.092	0.066	0.15	0.092	0.051	0.004	0.017	0.00652	0.00108	0.00648	0.00206	<0.001	<0.001	<0.001	<0.001
MW-3	<0.002	0.004	0.005	<0.001	0.002	<0.001	<0.001	<0.001	0.003	<0.001	0.000158	<0.001	<0.001	<0.001	<0.001	0.000482	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	2.98

Well	3/1/06	6/26/06	9/28/06
MW-1	<0.001	<0.001	<0.001
MW-2	<0.001	0.00114	0.00137
MW-3	<0.001	<0.001	<0.001
MW-4	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001
MW-8	FPH	FPH	0.791

Notes: Units are mg/l.
Duplicate sample results were averaged together
Indicators for estimated (J) values not shown
FPH: Free phase hydrocarbons present, no sample collected

Table 8 – Summary of Laboratory Data for Ethylbenzene

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.013	0.062	0.121	0.069	0.112	0.012	0.012	0.002	0.005	0.00301	0.0005	0.00336	0.00122	<0.001	<0.001	<0.001	<0.001
MW-3	0.023	0.023	0.03	0.02	0.023	0.006	0.02	0.018	0.017	0.0138	0.0136	0.00692	0.00884	0.00167	0.00574	0.00101	<0.001
MW-4	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.004	0.002	0.002	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	0.928

Well	3/1/06	6/26/06	9/28/06
MW-1	<0.001	<0.001	<0.001
MW-2	<0.001	<0.001	0.0003
MW-3	<0.001	<0.001	<0.001
MW-4	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	0.001
MW-7	<0.001	<0.001	<0.001
MW-8	FPH	FPH	0.239

Notes: Units are mg/l.
Duplicate sample results were averaged together
Indicators for estimated (J) values not shown
FPH: Free phase hydrocarbons present, no sample collected

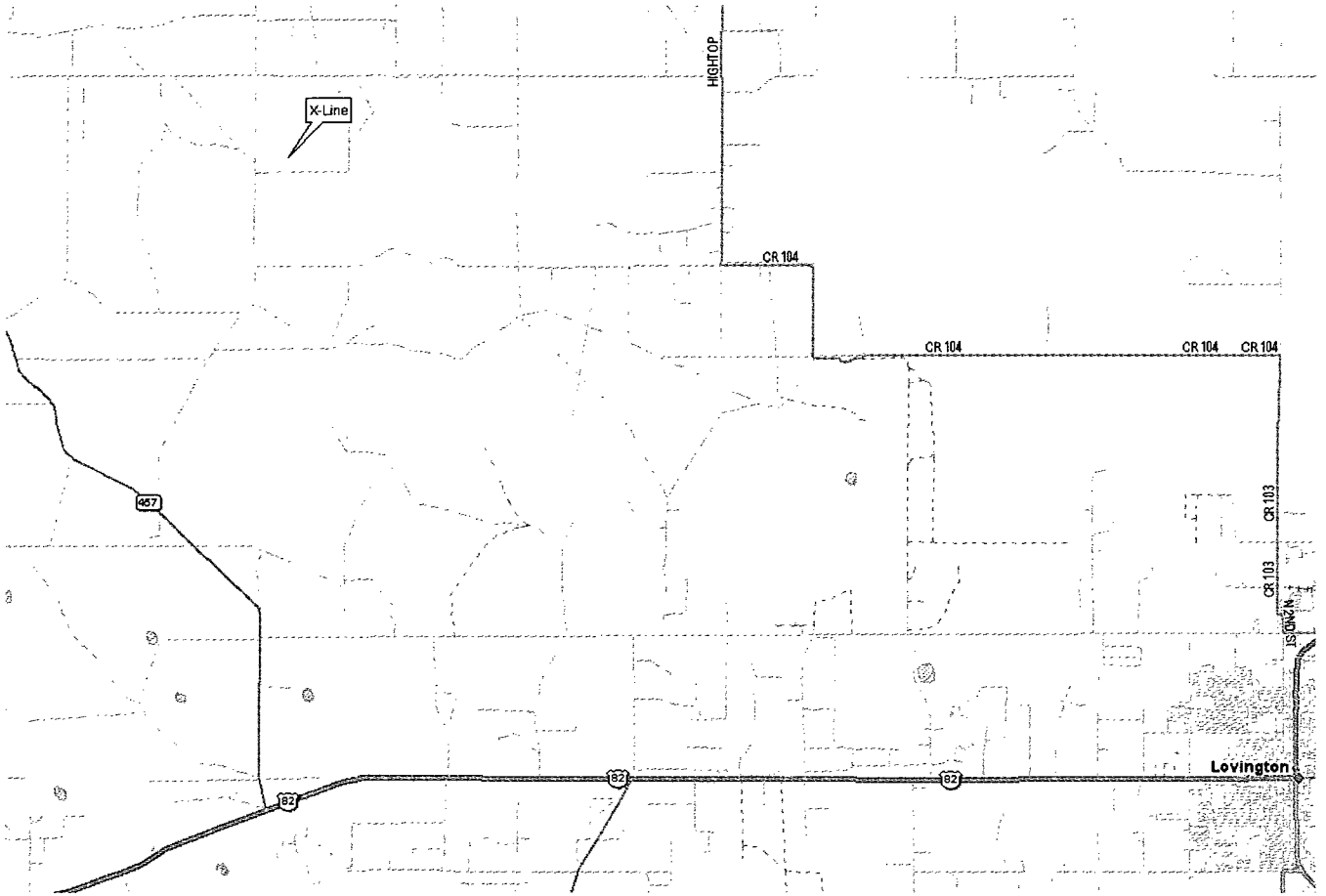
Table 9 – Summary of Laboratory Data for Xylenes

Well	4/24/02	5/21/02	4/28/03	6/19/03	7/17/03	8/20/03	9/22/03	10/29/03	11/20/03	2/18/04	6/25/04	10/18/04	12/9/04	3/3/05	6/3/05	9/28/05	12/12/05
MW-1	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0514	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	0.38	1.27	0.133	0.103	0.186	0.179	0.079	0.017	0.034	0.00067	0.00106	0.0052	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	0.189	0.451	0.039	0.006	0.007	0.001	0.001	0.001	0.004	<0.001	0.000118	0.0015	<0.001	0.00044	0.00173	0.000997	<0.001
MW-4	<0.006	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	0.011	<0.006	0.003	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	0.123	0.047	0.01	<0.001	0.004	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	---	---	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	---	---	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH	NS	FPH	FPH	9.89

Well	3/1/06	6/26/06	9/28/06
MW-1	<0.001	<0.001	<0.001
MW-2	<0.001	0.00125J	0.0014
MW-3	<0.001	<0.001	<0.001
MW-4	<0.001	<0.001	<0.001
MW-5	<0.001	<0.001	<0.001
MW-6	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001
MW-8	FPH	FPH	2.27

Notes: Units are mg/l.
Duplicate sample results were averaged together
Indicators for estimated (J) values not shown
FPH: Free phase hydrocarbons present, no sample collected

FIGURES



Scale

0 2 miles

N

Figure 1 - X-Line Location
(33.036°N, 103.547°W)

X-Line Remediation

Duke Energy Field Services

DRAWN BY: MHS

DATE: 2/05

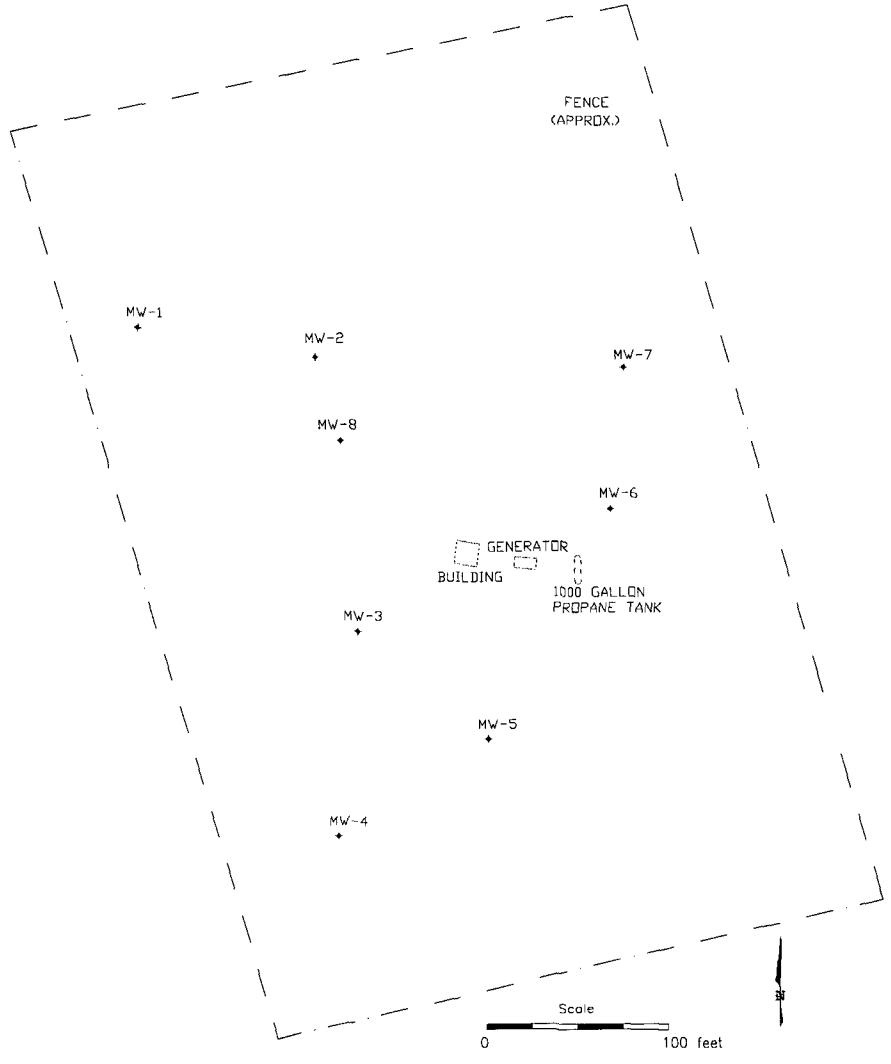


Figure 2 – Facility Configuration

X-Line Remediation

Duke Energy Field Services

DRAWN BY:	MHS
REVISED:	
DATE:	6/04

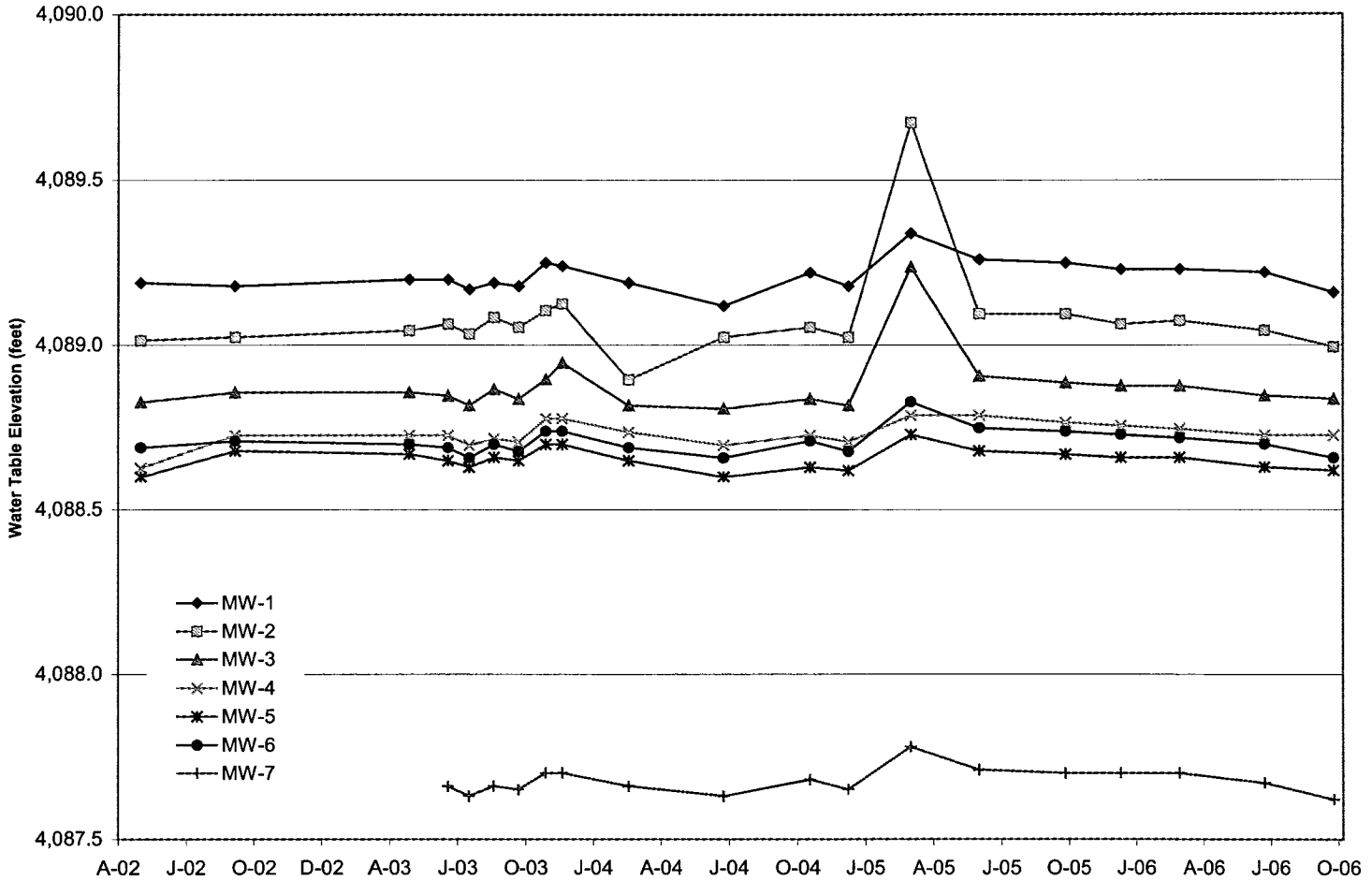


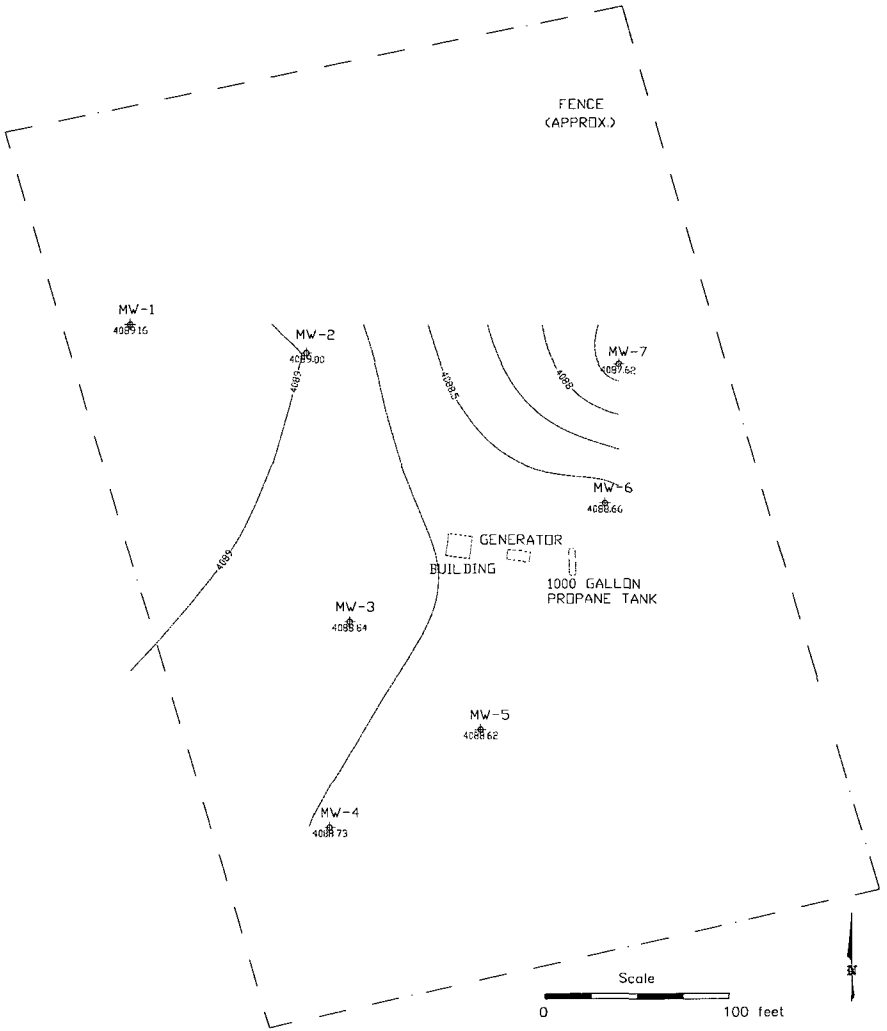
Figure 3 – Well Hydrographs

X-Line Remediation

Duke Energy Field Services

DRAWN BY: MHS

DATE:12/06



Contour interval is 0.25 feet

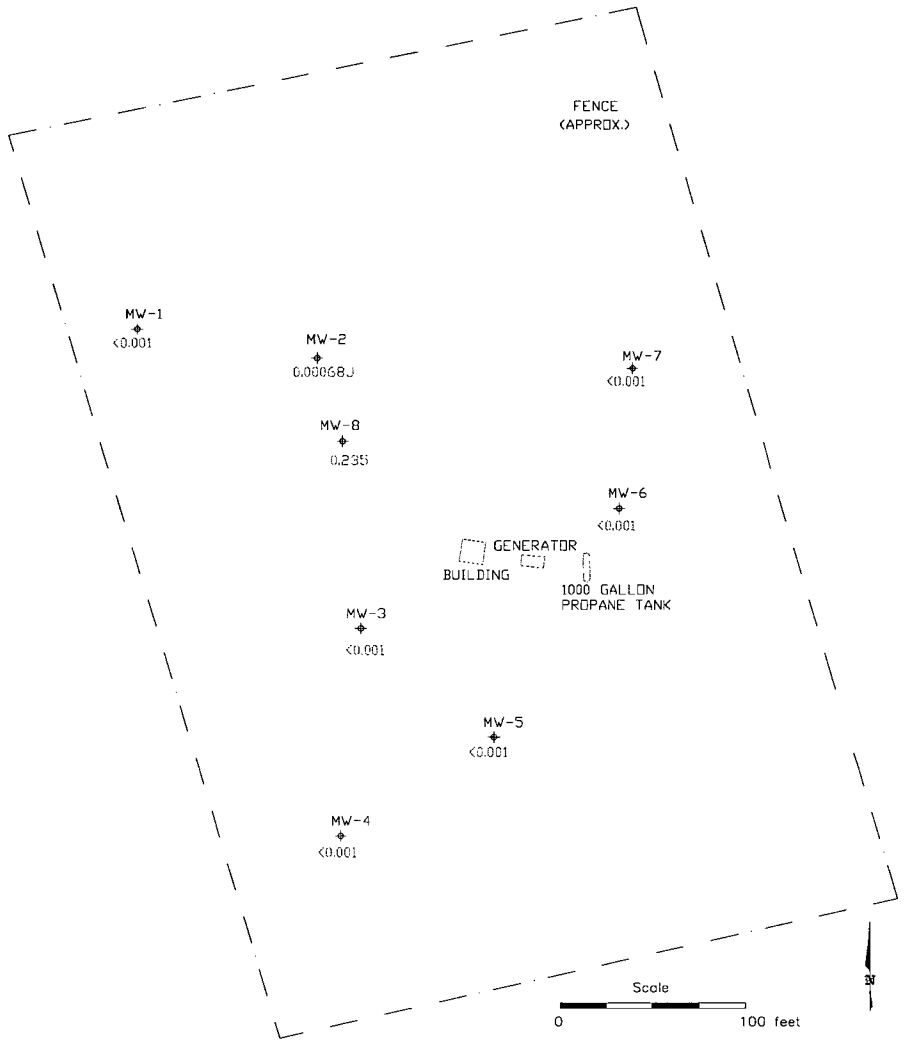
Figure 4 – Sep. 2006 Water Table Contours

X-Line Remediation

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06



Units are mg/l

Figure 5 – Sep. 2006 Benzene Concentrations

X-Line Remediation

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06

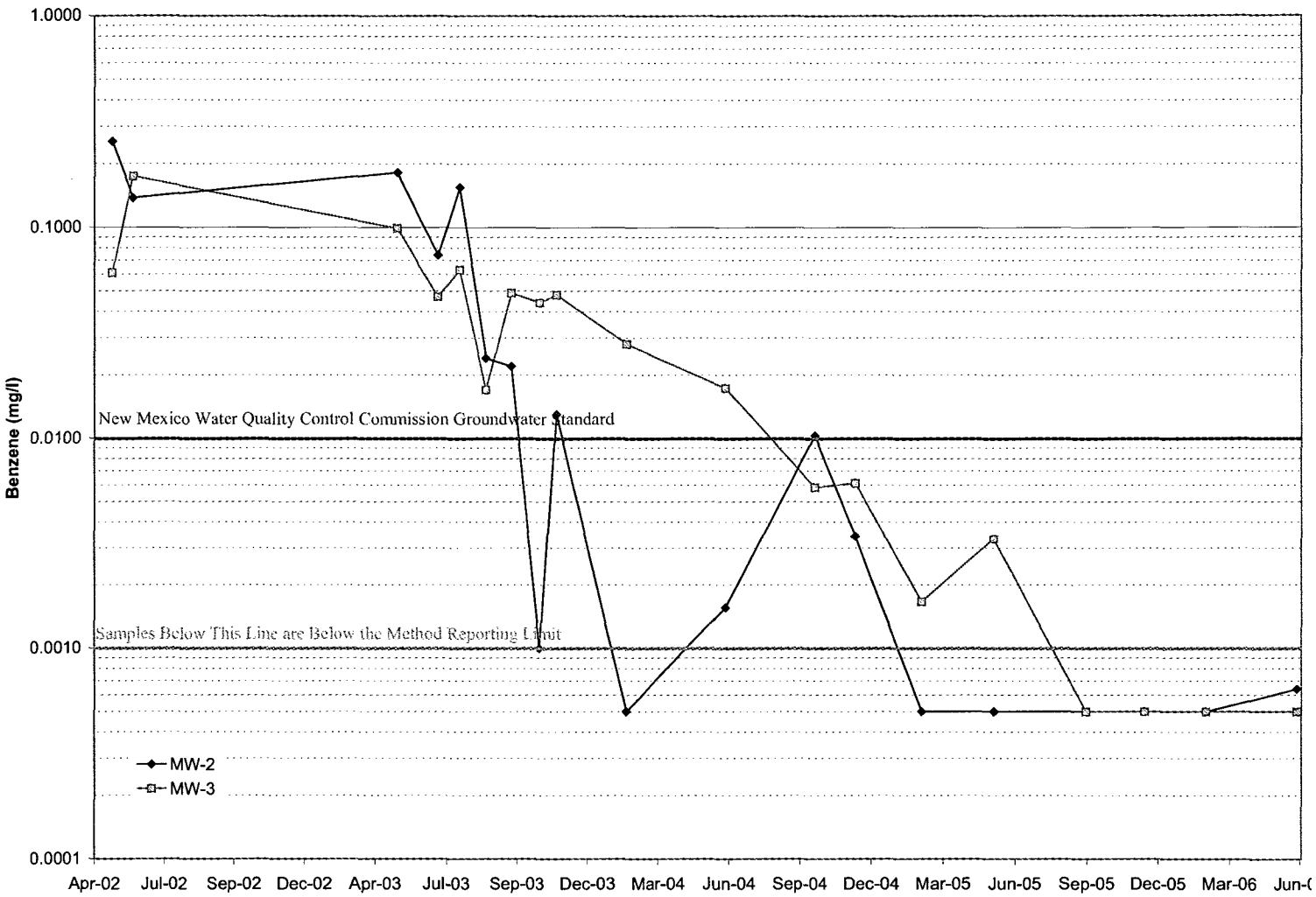


Figure 6 – Benzene Concentrations in MW-2 and MW-3

X-Line Remediation

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06

FIELD SAMPLING FORMS

AND

LABORATORY ANALYTICAL REPORT

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-1**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 94.30 Feet
DEPTH TO WATER: 77.53 Feet
HEIGHT OF WATER COLUMN: 16.77 Feet
WELL DIAMETER: 2.0 Inch

8.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
8:15	0.0	-	-	-	-	-	Begin Hand Bailing
8:28	2.7	17.9	0.65	7.33	-	-	
8:38	5.4	17.9	0.65	7.40	-	-	
8:47	8.1	18.1	0.65	7.38	-	-	
0:32 :Total Time (hr:min)			**8.1** :Total Vol (gal)			**0.25** :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 060928 0850

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-2**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 89.90 Feet
DEPTH TO WATER: 77.52 Feet
HEIGHT OF WATER COLUMN: 12.38 Feet
WELL DIAMETER: 2.0 Inch

6.1 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
9:07	0.0	-	-	-	-	-	Begin Hand Bailing
9:12	2.0	18.8	0.92	7.10	-	-	
9:18	4.0	18.9	0.91	7.13	-	-	
9:26	6.3	19.0	0.87	7.15	-	-	
0:19	:Total Time (hr:min)		**6.3**	:Total Vol (gal)		**0.33**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 060928 0930
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-3**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 92.80 Feet
DEPTH TO WATER: 77.49 Feet
HEIGHT OF WATER COLUMN: 15.31 Feet
WELL DIAMETER: 2.0 Inch

7.5 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
12:45	0.0	-	-	-	-	-	Begin Hand Bailing
12:51	2.7	19.1	0.94	7.04	-	-	
12:58	5.4	19.2	0.92	7.06	-	-	
13:05	8.1	19.1	0.91	7.08	-	-	
0:20 :Total Time (hr:min)			**8.1** :Total Vol (gal)			**0.40** :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 060928 1310

ANALYSES: BTEX (8021-B)

COMMENTS: Collected Duplicate Sample No.: 0609281800 for BTEX (8021-B)

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-4**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☑ Alconox ☑ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 93.40 Feet
DEPTH TO WATER: 77.60 Feet
HEIGHT OF WATER COLUMN: 15.80 Feet
WELL DIAMETER: 2.0 Inch

7.7 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:53	0.0	-	-	-	-	-	Begin Hand Bailing
12:00	2.7	18.6	0.65	7.27	-	-	
12:08	5.4	18.9	0.64	7.30	-	-	
12:17	8.1	19.3	0.64	7.30	-	-	
0:24	:Total Time (hr:min)		**8.1**	:Total Vol (gal)		**0.34**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 060928 1225

ANALYSES: BTEX (8021-B)

COMMENTS: Collected MS/MSD Sample

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-5**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 91.10 Feet
DEPTH TO WATER: 77.28 Feet
HEIGHT OF WATER COLUMN: 13.82 Feet
WELL DIAMETER: 2.0 Inch

6.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:11	0.0	-	-	-	-	-	Begin Hand Bailing
11:17	2.4	19.3	0.67	7.26	-	-	
11:25	4.8	18.9	0.67	7.27	-	-	
11:33	7.2	18.8	0.67	7.29	-	-	
0:22 :Total Time (hr:min)			**7.2** :Total Vol (gal)			**0.33** :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 060928 1140

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-6**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 92.90 Feet
DEPTH TO WATER: 77.23 Feet
HEIGHT OF WATER COLUMN: 15.67 Feet
WELL DIAMETER: 2.0 Inch

7.7 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:31	0.0	-	-	-	-	-	Begin Hand Bailing
10:38	2.7	20.3	0.63	7.19	-	-	
10:46	5.4	19.9	0.64	7.22	-	-	
10:54	8.1	19.8	0.64	7.22	-	-	
0:23	:Total Time (hr:min)		**8.1**	:Total Vol (gal)		**0.35**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 060928 1100

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-7**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 92.80 Feet
DEPTH TO WATER: 76.81 Feet
HEIGHT OF WATER COLUMN: 15.99 Feet
WELL DIAMETER: 2.0 Inch

7.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
9:45	0.0	-	-	-	-	-	Begin Hand Bailing
9:52	2.7	19.0	0.64	7.35	-	-	
10:01	5.4	19.5	0.64	7.36	-	-	
10:11	8.1	19.6	0.63	7.36	-	-	
0:26	:Total Time (hr:min)		**8.1**	:Total Vol (gal)		**0.31**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 060928 1015

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-8**
SITE NAME: X Line (Etcheverry Ranch)
DATE: 9/28/2006
PROJECT NO. F-106
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 85.10 Feet
DEPTH TO WATER: 77.98 Feet
HEIGHT OF WATER COLUMN: 7.12 Feet
WELL DIAMETER: 4.0 Inch

13.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
13:38	0.0	-	-	-	-	-	
13:58	7.0	-	-	-	-	-	Well Bailed Dry.
							Allowed Well Time to Recover
							Before Collecting Sample.
0:20	:Total Time (hr:min)		**7**	:Total Vol (gal)		**0.35**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 060928 1415
ANALYSES: BTEX (8021-B)
COMMENTS: _____

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

American Envionmental Consultants

6885 South Marshall St., Ste. 3

Littleton, CO 80128

Project: DEFS X-Line (Etcheverry Ranch)

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 6J02007

Report Date: 10/06/06

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 (0609280850)	6J02007-01	Water	09/28/06 08:50	10-02-2006 10:40
MW-2 (0609280930)	6J02007-02	Water	09/28/06 09:30	10-02-2006 10:40
MW-7 (0609281015)	6J02007-03	Water	09/28/06 10:15	10-02-2006 10:40
MW-6 (0609281100)	6J02007-04	Water	09/28/06 11:00	10-02-2006 10:40
MW-5 (0609281140)	6J02007-05	Water	09/28/06 11:40	10-02-2006 10:40
MW-4 (0609281225)	6J02007-06	Water	09/28/06 12:25	10-02-2006 10:40
MW-3 (0609281310)	6J02007-07	Water	09/28/06 13:10	10-02-2006 10:40
RW-1 (0609281415)	6J02007-08	Water	09/28/06 14:15	10-02-2006 10:40
Duplicate (0609281800)	6J02007-09	Water	09/28/06 18:00	10-02-2006 10:40
Trip Blank	6J02007-10	Water	09/28/00 00:00	10-02-2006 10:40

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (0609280850) (6J02007-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	
MW-2 (0609280930) (6J02007-02) Water									
Benzene	**J [0.000682]**	0.00100	mg/L	1	EJ60313	10/03/06	10/04/06	EPA 8021B	
Toluene	**0.00137**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000324]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**J [0.000949]**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000413]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-7 (0609281015) (6J02007-03) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
MW-6 (0609281100) (6J02007-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00121**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	

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Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (0609281140) (6J02007-05) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*		*80-120*	"	"	"	"	
MW-4 (0609281225) (6J02007-06) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.2 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*		*80-120*	"	"	"	"	
MW-3 (0609281310) (6J02007-07) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.5 %*		*80-120*	"	"	"	"	
RW-1 (0609281415) (6J02007-08) Water									
Benzene	**0.235**	0.00500	mg/L	5	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	**0.791**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.239**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**1.69**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.582**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*		*80-120*	"	"	"	"	

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Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate (0609281800) (6J02007-09) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*80-120*		"	"	"	"	
Trip Blank (6J02007-10) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	

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Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ60313 - EPA 5030C (GC)										
Blank (EJ60313-BLK1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	ND	0.0250	mg/L							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*34.5*		*ug/l*	*40.0*		*86.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.3*		*"*	*40.0*		*83.2*	*80-120*			
LCS (EJ60313-BS1)				Prepared: 10/03/06 Analyzed: 10/04/06						
Benzene	0.0502	0.00100	mg/L	0.0500		100	80-120			
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120			
Ethylbenzene	0.0430	0.00100	"	0.0500		86.0	80-120			
Xylene (p/m)	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (o)	0.0452	0.00100	"	0.0500		90.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.8*		*ug/l*	*40.0*		*87.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*40.0*		*108*	*80-120*			
Calibration Check (EJ60313-CCV1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	47.2		ug/l	50.0		94.4	80-120			
Toluene	41.8		"	50.0		83.6	80-120			
Ethylbenzene	41.7		"	50.0		83.4	80-120			
Xylene (p/m)	82.2		"	100		82.2	80-120			
Xylene (o)	40.9		"	50.0		81.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.3*		*"*	*40.0*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.7*		*"*	*40.0*		*96.8*	*80-120*			
Matrix Spike (EJ60313-MS1)	**Source: 6J02007-06**			Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	0.0540	0.00100	mg/L	0.0500	ND	108	80-120			
Toluene	0.0462	0.00100	"	0.0500	ND	92.4	80-120			
Ethylbenzene	0.0431	0.00100	"	0.0500	ND	86.2	80-120			
Xylene (p/m)	0.0958	0.00100	"	0.100	ND	95.8	80-120			
Xylene (o)	0.0437	0.00100	"	0.0500	ND	87.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.7*		*ug/l*	*40.0*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.0*		*"*	*40.0*		*108*	*80-120*			

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS X-Line (Etcheverry Ranch)
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ60313 - EPA 5030C (GC)										
Matrix Spike Dup (EJ60313-MSD1)	**Source: 6J02007-06**			Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	0.0545	0.00100	mg/L	0.0500	ND	109	80-120	0.922	20	
Toluene	0.0477	0.00100	"	0.0500	ND	95.4	80-120	3.19	20	
Ethylbenzene	0.0440	0.00100	"	0.0500	ND	88.0	80-120	2.07	20	
Xylene (p/m)	0.0958	0.00100	"	0.100	ND	95.8	80-120	0.00	20	
Xylene (o)	0.0468	0.00100	"	0.0500	ND	93.6	80-120	6.85	20	
Surrogate: a,a,a-Trifluorotoluene	*40.9*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.1*		*"*	*40.0*		*110*	*80-120*			

American Envionmental Consultants	Project: DEFS X-Line (Etcheverry Ranch)	Fax: (303) 948-7793
6885 South Marshall St., Ste. 3	Project Number: None Given	
Littleton CO, 80128	Project Manager: Michael Stewart	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Celey D. Keene Date: 10/6/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
La Tasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Mike Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7793
Sampler Signature: Jah Z
e-mail:

Project Name: Duke Energy Field Services
Project #: X-Line
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 6J02001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260B	RCI	N.O.R.M.					MS/MSD	RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
01	MW-1 (0609280850)			9/28/06	0850	2	✓		✓						GW								✓									✓
02	MW-2 (0609280930)			9/28/06	0930	2	✓		✓						GW								✓									✓
03	MW-7 (0609281015)			9/28/06	1015	2	✓		✓						GW								✓									✓
04	MW-6 (0609281100)			9/28/06	1100	2	✓		✓						GW								✓									✓
05	MW-5 (0609281140)			9/28/06	1140	2	✓		✓						GW								✓									✓
06	MW-4 (0609281225)			9/28/06	1225	6	✓		✓						GW								✓								✓	✓
07	MW-3 (0609281310)			9/28/06	1310	2	✓		✓						GW								✓									✓
08	RW-1 (0609281415)			9/28/06	1415	2	✓		✓						GW								✓									✓
09	Duplicate (0609281800)			9/28/06	1800	2	✓		✓						GW								✓									✓
10	Trip Blank					2	✓		✓														✓									✓

Special Instructions: Invoice To: OEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Coleen Kelly	Date: 10/2/06	Time: 10:40

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered by Sampler/Client Rep. ? (Y) N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: American ENV.

Date/ Time: 10/2/06 10:40

Lab ID #: 630207

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [SWWeathers@dcpmidstream.com]
Sent: Monday, January 15, 2007 9:36 AM
To: Chavez, Carl J, EMNRD
Subject: DCP Midstream Remediation Projects

Carl

I would like to set up a meeting with you to go over DCP Midstream Remediation Projects. What would your availability be for next week possibly on Thursday (January 25) or Mid Week the following week to meet and discuss the projects?

Daniel Dick and myself would attend as well as Mike Stewart the Environmental Consultant that does most of our groundwater remediation projects in NM.

Thanks

Stephen Weathers
Sr. Environmental Specialist
DCP Midstream
303-605-1718 (Office)
303-619-3042 (Cell)

Effective 1/1/07 my email address has changed to swweathers@dcpmidstream.com

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [swweathers@duke-energy.com]
Sent: Thursday, October 12, 2006 2:21 PM
To: Chavez, Carl J, EMNRD
Subject: Remediation Project Summaries.

Mr. Chavez

Attached you will find a brief summary of my remediation projects in New Mexico. Once you have had chance to review the projects, I would like to sit down with you at your convenience and discuss them further.

If you have any questions, please give me a call at 303-605-1718 or 303-619-3042.

Thanks

Steve Weathers
Duke Energy Field Services, LP

Project Summary: X line Release Site (1RP-400)
Unit B, Section 7 Township 15 South, Range 34 East

Summary date: October 10, 2006

Project history: Pipeline Release

The release at this site was discovered in January 2002. EPI completed soil cleanup and preliminary groundwater investigations the first quarter of 2002. A preliminary groundwater investigation was completed in May 2002.

The following remediation components were installed at the site:

- A free phase hydrocarbon (FPH) removal system was installed in MW-8 in July 2003. The system continued to function until the mobile FPH was removed.

- An air sparge (AS) system became operational in June 2003. The system was operated until hydrocarbon concentrations in the wells (except for the FPH collection well) were all measured below the method detection limits.

- A soil vapor extraction (SVE) system was also installed in June 2003. The SVE system operated regularly until August 2006. No FPH was present in the extraction well in September 2006.

Quarterly monitoring is completed at the site. The last monitoring episode was conducted in September 2006.

Current Project Status:

A report detailing the September 2006 activities at this site will be prepared when the analytical data is received and verified.

DEFS will evaluate the feasibility of initiating air sparge in the FPH recovery well to complete source recovery provided no additional FPH is measured in the well.

Project Summary: Hobbs Gas Plant GW-
Unit G, Section 36 Township 18 South, Range 36 East

Summary date: October 10, 2006

Project history:

DEFS acquired the Hobbs Gas Plant in March of 2004. Ground water monitoring wells (6 wells) were installed at the site during the due diligence phase of the acquisition. Benzene was identified above the WQCC standards in one of the groundwater monitoring wells.

Current Project Status:

Groundwater monitoring continues at the site on a quarterly basis.

Chavez, Carl J, EMNRD

From: Stone, Ben, EMNRD
Sent: Monday, September 25, 2006 3:03 PM
To: Stone, Ben, EMNRD; Weathers, Stephen W
Cc: Johnson, Larry, EMNRD; Ward, Lynn C; Jones, Brad A., EMNRD; Chavez, Carl J, EMNRD
Subject: RE: DEFS X-Line Pipeline Release Groundwater Report

Sorry, the Duke assignment went to Carl Chavez - carl.chavez@state.nm.us.

From: Stone, Ben, EMNRD
Sent: Monday, September 25, 2006 2:48 PM
To: 'Weathers, Stephen W'
Cc: Johnson, Larry, EMNRD; Ward, Lynn C; Jones, Brad A., EMNRD
Subject: RE: DEFS X-Line Pipeline Release Groundwater Report

Hi Steve,

We've been adjusting work loads in the Environmental Bureau in Santa Fe. Brad Jones was assigned Duke.

Please address future correspondence to Brad regarding any Duke sites/activities.

His email is brad.a.jones@state.nm.us.

Thank you and thanks to Lynn for the tour of Duke facilities.

We're pleased that Duke takes a proactive stance in all their operations and activities in New Mexico.

Sincerely,

Ben Stone

From: Weathers, Stephen W [mailto:swweathers@duke-energy.com]
Sent: Friday, September 08, 2006 1:57 PM
To: Stone, Ben, EMNRD
Cc: Johnson, Larry, EMNRD; Ward, Lynn C
Subject: DEFS X-Line Pipeline Release Groundwater Report

Ben

Attached you will find the 2nd Quarter, 2006 groundwater monitor report along with a cover letter for the DEFS X-Line Pipeline Leak Project (Etcheverry Ranch) located near Lovington, New Mexico (Unit B, Section 7, T15S R34E).

If you have any questions, please give me a call at 303-605-1718.

Thanks

Steve

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 900
Denver, CO 80202

303 595 3331

July 14, 2004

Mr. Ed Martin
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: DEFS June 2004 Groundwater Monitoring Summary
X-Line Pipeline Release (Etcheverry Ranch Lea County, NM)
Unit B, Section 7, T15S, R34E (Lat 33° 02' 11", Long 103° 32' 48")

Dear Mr. Martin:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, one copy of the DEFS June 2004 Groundwater Monitoring Report for the June 2004 groundwater sampling event at the DEFS X-Line Pipeline Release Site located within the Etcheverry Ranch, Lea County, New Mexico.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers, PG
Sr. Environmental Specialist

enclosure

cc: Larry Johnson, OCD Hobbs District Office
Peter V. Domenici, Jr., Counsel for Mrs. Etcheverry (Certified – 7003 2260 0003 4604 9695)
Lynn Ward, DEFS Midland Office
Environmental Files

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

July 13, 2004

Mr. Stephen Weathers, PG
Duke Energy Field Services
370 17th St.
Suite 2500
Denver, CO 80202

Dear Mr. Weathers:

The New Mexico Oil Conservation Division has received your "DEFS February 2004 Groundwater Monitoring Summary" for the X-Line Pipeline Release (Etcheverry Ranch Lea County NM). The NMOCD reference for this site is "1R-0400".

Per our phone conversation of yesterday, please include in your next monitoring report for this site a table showing the decline in phase-separated hydrocarbons on the groundwater.

If you have any questions, contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

Edwin E. Martin, Environmental Bureau

cc: Larry Johnson, NMOCD, Hobbs
Michael H. Stewart, PE, Remediacon

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370 17th Street
Suite 2500
Denver, CO 80202

303 595 3331

March 22, 2004

Mr. Ed Martin
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

1R-400

RE: DEFS February 2004 Groundwater Monitoring Summary
X-Line Pipeline Release (Etcheverry Ranch Lea County, NM)
Unit B, Section 7, T15S, R34E (Lat 33° 02' 11", Long 103° 32' 48")

Dear Mr. Martin:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, one copy of the DEFS February 2004 Groundwater Monitoring Report for the February 2004 groundwater sampling event at the DEFS X-Line Pipeline Release Site located within the Etcheverry Ranch, Lea County, New Mexico.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers, PG
Sr. Environmental Specialist

cc: Larry Johnson, OCD Hobbs District Office
Peter V. Domenici, Jr., Counsel for Mrs. Etcheverry (Certified - 7002 2410 0002 0093 0484)
Lynn Ward, DEFS Midland Office
Environmental Files

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DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 900
Denver, CO 80202

303 595 3331

December 23, 2003

Mr. Ed Martin
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Groundwater Monitoring Summary
X-Line Pipeline Release (Etcheverry Ranch)
Lea County, NM.

Dear Mr. Martin:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, one copy of the Groundwater Monitoring Summary for the X-Line Pipeline Release located at the Etcheverry Ranch, Lea County, New Mexico. The attached letter also summarizes the remediation system and historical groundwater data.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers
Sr. Environmental Specialist

cc: Larry Johnson, OCD Hobbs Office.
Mrs Etcheverry – Etcheverry Ranch Limited Partnership
Lynn Ward – DEFS Midland
Environmental Files

Duke Energy Field Services
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Duke Energy Field Services
P.O. Box 5493
Denver, Colorado 80217
370 17th Street, Suite 900
Denver, Colorado 80202
303/595-3331

December 11, 2002

Mr. Randy Bayliss
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Update on the X-Line leak Site Activities
Etcheverry Ranch, Lea County, NM.

Dear Mr. Bayliss:

This letter is a follow up to our phone conversation several weeks ago in which I informed you that Duke Energy Field Services, LP (DEFS) has been unable to move forward with constructing and completing the remediation system as described in our OCD Approved Workplan "Site Characterization Summary and Remediation Recommendations for the X-Line Leak". The reason for the delay is that DEFS has been denied access to the site by the landowner. DEFS has been denied access from October 23, 2002 to present with the exception of November 5, 2002. DEFS continues to work toward a resolution to the access issues and will inform the OCD when DEFS has gained access to the site.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers
Sr. Environmental Specialist

cc: Anne Weber – Denver Legal Dept.
Environmental Files

Bayliss, Randy

From: Stephen W. Weathers [swweathers@duke-energy.com]
Sent: Thursday, July 25, 2002 10:52 AM
To: RBayliss@state.nm.us
Subject: Etcheverry Remediation Letter

remediation timeframe letter.d...

Randy

As per our conversation dated 7-25-02, attached you will find a letter briefly discussing the time frame DEFS expects to run the remediation system at the Etcheverry remediation site. During our discussion, I had mentioned that I felt we would have the groundwater down to applicable water quality standards within a short period. The letter states that we will see a significant decrease within 3 months and anticipate meeting the standards within first year of operation.

Don't hesitate to give me a call with any questions at 303-619-3042.

Thanks

Steve

(See attached file: remediation timeframe letter.doc)

Remediacon Incorporated
Geological and Engineering Services
remediacon@yahoo.com

PO Box 302, Evergreen, Colorado 80439
Telephone: 303.674.4370
Facsimile: 617.507.6178

July 25, 2002

Mr. Stephen Weathers
Duke Energy Field Services, LP
370 17th Street, Suite 900
Denver, CO 80202

Re: Estimation of Remediation Timeframe for the X-Line Leak on the Etcheverry Ranch, Lea County New Mexico

Dear Mr. Weathers:

Remediacon included a preliminary design in the June 18, 2002 letter for the X-Line Leak on the Etcheverry Ranch that included the following components:

- A low permeability barrier to control further leaching of hydrocarbon constituents from the unsaturated zone;
- An air sparge system to both volatilize hydrocarbon constituents and enhance biodegradation through the increase in oxygen in the saturated zone. The system was designed to maximize the remediation rate by installing the sparge points on a denser spacing over a region that is much larger than the actual source area; and
- A soil vapor extraction system to remove the volatized hydrocarbons and promote biodegradation in the unsaturated zone.

The denser and more extensive sparge system spacing coupled with the natural high permeability of the affected materials should result in almost immediate decreases in the hydrocarbon constituents and an accelerated cleanup. Based upon professional experience, I estimate that the benzene, toluene, ethylbenzene and xylene (BTEX) concentrations should be significantly lower by the quarterly monitoring episode after the system begins operating. I also believe that the hydrocarbons should be below the relevant water quality standards before the end of the first full year of operation. The uncertainty of subsurface conditions must be factored into any predictions; however, the original plan calls for reevaluation and modification of the system on a regular basis.

Do not hesitate to contact me if you have any questions or comments on this letter.

Respectfully submitted,
REMEDIACON INCORPORATED

Michael H. Stewart

Michael H. Stewart, PE, CPG
Principal Engineer

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Duke Energy Field Services
P.O. Box 5493
Denver, Colorado 80217
370 17th Street, Suite 900
Denver, Colorado 80202
303/595-3331

July 15, 2002

Mr. Randy Bayliss
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Site Characterization Summary and Remediation Recommendations for the X-Line Leak on the Etcheverry Ranch, Lea County, NM.

Dear Mr. Bayliss:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, one copy of the Site Characterization Summary and Remediation Recommendations for the X-Line Leak located on the Etcheverry Ranch, Lea County, New Mexico.

Upon your approval of the remediation recommendations and DEFS receiving access approval from the landowner, DEFS will proceed with activities associated with implementing the approved remediation recommendations.

If you have any questions regarding the report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Stephen Weathers
Environmental Specialist

Enclosure

cc: Larry Johnson, OCD Hobbs District
Environmental Files

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

March 6, 2002

Mr. Steve Weathers
Duke Energy Field Services
Denver, Colorado

RE: DUKE X-LINE – ETCHEVERRY RANCH

Dear Mr. Weathers:

The New Mexico Oil Conservation Division (OCD) has reviewed Environmental Plus, Inc.'s February 15, 2002 "SITE CHARACTERIZATION WORK PLAN FOR THE DUKE X-LINE – ETCHEVERRY RANCH" oil release. This document describes actions and sampling to date and proposes further monitoring well work to characterize the extent of contamination in the NW¼ of the NE¼ of Section 7, T15S, R34E.

OCD **approves** the above referenced work plan with the following conditions.

1. At least four monitoring wells shall be installed so that the plume of contamination is delineated in three directions down gradient of the release location.

2. New monitor wells shall be completed as follows.

   a. At least 15 feet of well screen shall be placed across the water table interface with five feet of the well screen above the water table and 10 feet of the well screen below the water table.

   b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to two or three feet above the top of the well screen.

   c. A two to three foot bentonite plug shall be placed above the gravel pack.

   d. The remainder of the hole shall be grouted to the surface with cement containing two to five per cent bentonite.

   e. A concrete pad and locking well cover shall be placed at the surface.

   f. The well shall be developed after construction using EPA-approved procedures.

3. No less than 24 hours after the wells are developed, ground water from all monitor wells shall be measured for the presence of non-aqueous phase liquids ("free product".) If no free product is measured, wells shall be purged, sampled, and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene and total dissolved solids (TDS) using EPA-approved methods and quality assurance/quality control (QA/QC) measures.

4. If free product is encountered during installation or sampling of wells, free product shall be recovered from the wells following measurement of free product thickness.

5. All recovered free product and wastes generated during the investigation shall be disposed of at an OCD-approved facility.

6. Results of the investigation shall be submitted to the OCD by June 15, 2002. The report shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and shall include the following investigative information.

   a. A description of the investigation activities that occurred including conclusions and recommendations.

   b. A geologic/lithologic log and well completion diagram for each monitor well.

   c. A water table map showing the location of the spills, excavated areas, monitor wells, recovery wells and any other pertinent site features as well as the direction and magnitude of the hydraulic gradient created using the water table elevation from each monitor well.

   d. Isopleth maps for contaminants observed during the investigations.

   e. Summary tables of all ground water quality sampling results and copies of all recent laboratory analytical data sheets and associated QA/QC data.

   f. The quantities and dispositions of all free product recovered or wastes generated.

Please be advised that OCD approval does not relieve Duke of liability should the investigation actions fail to adequately define the extent of contamination related to Duke's pipeline, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve Duke of responsibility for compliance with any other federal, state or local laws and regulations. OCD encourages electronic transmission of documents and reports.

If you have any questions, please email me or call me at (505) 476-3493. Sincerely,

Randolph Bayliss, P.E.
Hydrologist
Environmental Bureau

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1R400

February 28, 2002

Mr. Randolph Bayliss, PE Hydrologist
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division, Environmental Bureau
P.O. Box 6429
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Subject: Duke X-Line Etcheverry Ranch Site Characterization Work Plan

Dear Mr. Bayliss,

Included herewith are two copies of the "Duke Energy Field Services, X-Line Etcheverry Ranch Site Characterization Work Plan, February 2002." Environmental Plus, Inc. (EPI), on behalf of Mr. Steve Weathers, Duke Energy Field Services, submits this work plan for your review and approval. Please direct all official communications to;

Mr. Steve Weathers
Duke Energy Field Services
P.O. Box 5493
Denver, Colorado 80217

If there are any questions or more information is needed please contact me at the office or at 505.390.7864. Mr. Weathers may be contacted at 303.605.1718 (office) or 303.619.3042 (mobile).

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Paul Sheeley, NMOCD Hobbs
Steve Weathers, Duke w/enclosure
L.V. "Flap" Sims, Etcheverry Consultant w/enclosure
Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President

ENVIRONMENTAL PLUS, INC.

P.O. BOX 1558 ◦◦◦ 2100 WEST AVENUE O ◦◦◦ EUNICE, NEW MEXICO 88231
TELEPHONE 505◦394◦3481 FAX 505◦394◦2601

From: Olson, William
Sent: Thursday, February 14, 2002 11:33 AM
To: Bayliss, Randy
Subject: FW: X-line Spill Update

-----Original Message-----
From: Stephen W. Weathers [mailto:swweathers@duke-energy.com]
Sent: Wednesday, February 13, 2002 3:21 PM
To: PSheeley@state.nm.us; WOLSON@state.nm.us
Cc: ENVIPLUS1@aol.com
Subject: X-line Spill Update

Paul

This email is to confirm my conversation with you this afternoon in which I notified you that through remedial activities, it has been determined that groundwater was impacted at the Duke Energy Field Services X-Line Pipeline Leak on Ms Etcheverrys property located near Lovington, NM. Approximately .2 feet of product as been encountered on the groundwater. Analytical results of the groundwater are pending.

The location of the leak is Unit B Sec 7 T15S R34E.

The C-141 was submitted on 1-20-02 to your office (District 1, Hobbs).

DEFS is continuing to delineate hydrocarbon impacts both horizontally and vertically at the leak site. Three groundwater wells will be installed at the site to determine groundwater flow direction. A workplan will be submitted addressing the further delineation activities.

If you have any questions, please contact me at 303-605-1718.

Steve Weathers