AP - 33

ANNUAL MONITORING REPORT

YEAR(S):

2/7/2004

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 2500
Denver, CO 80202

303 595 3331

February 7, 2004

Mr. Jack Ford C.P.G.
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Summary of December 2004 Groundwater Monitoring Results
DEFS Eldridge Ranch Study Area (AP#-33)
Unit P, Section 21, Township 19 South, Range 37 East
Lea County, New Mexico

Dear Mr. Martin:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review one copy of the Summary of December 2004 Groundwater Monitoring Results for the DEFS Eldridge Ranch Study Area, Lea County, New Mexico (Unit P, Section 21, Township 19 South, Range 37 East). An additional copy of the enclosed report will be forwarded to the New Mexico Oil Conservation Division (OCD) Hobbs District Office.

If you have any questions regarding this report, please call at 303-605-1718 or e-mail me swweathers@duke-energy.com .

Sincerely

Duke Energy Field Services, LP

S Weathers (ms)

Stephen Weathers P.G.
Sr. Environmental Specialist

enclosure

cc: Larry Johnson, OCD Hobbs District Office
Lynn Ward, DEFS Midland Office
Environmental Files, DEFS Denver

Figure 1 - Monitoring Well and Pipeline Locations

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 5/04

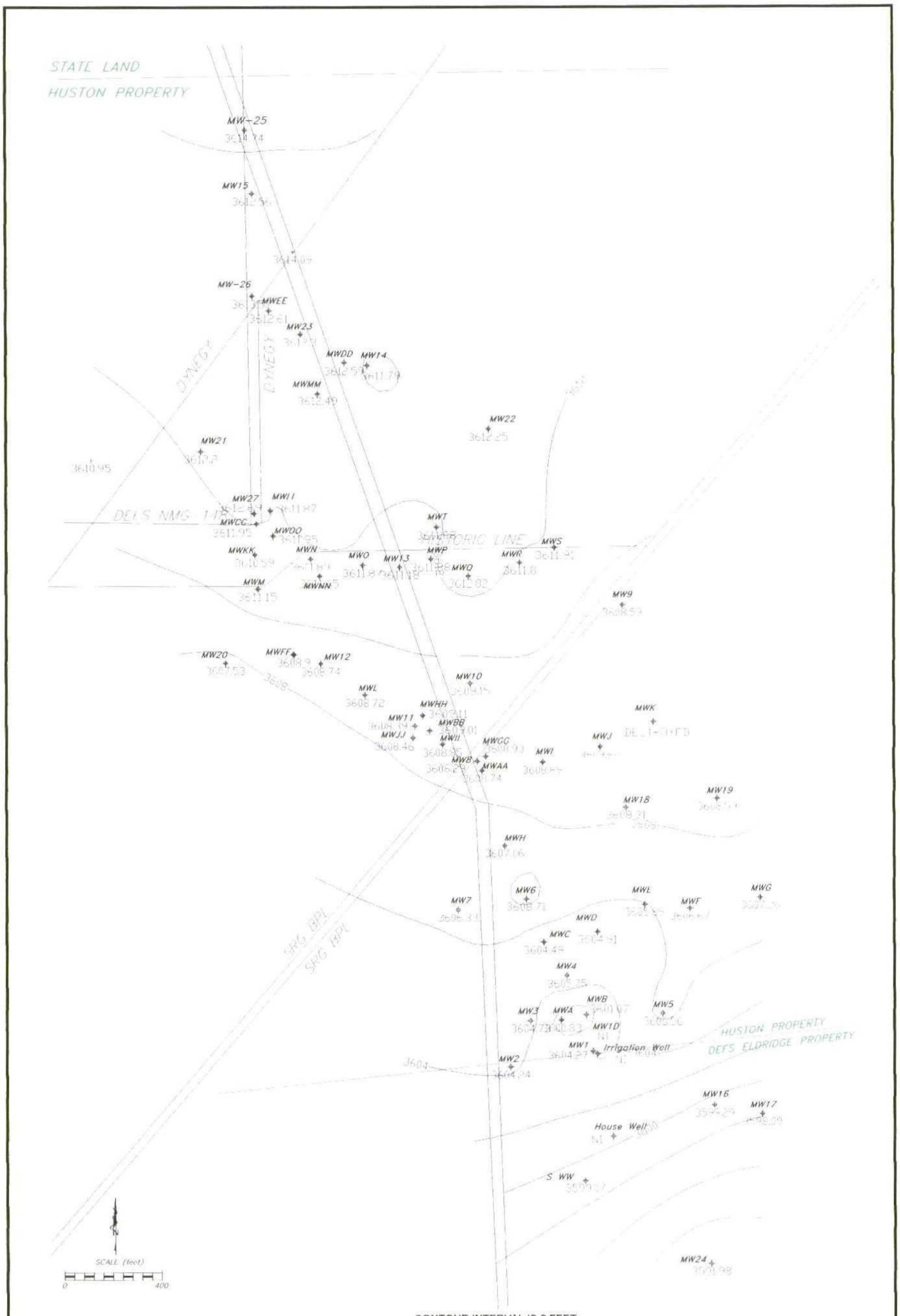
Figure 10 - Revised Groundwater Monitoring Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 1/05



CONTOUR INTERVAL IS 2 FEET

NI: Data not included, no casing elevation

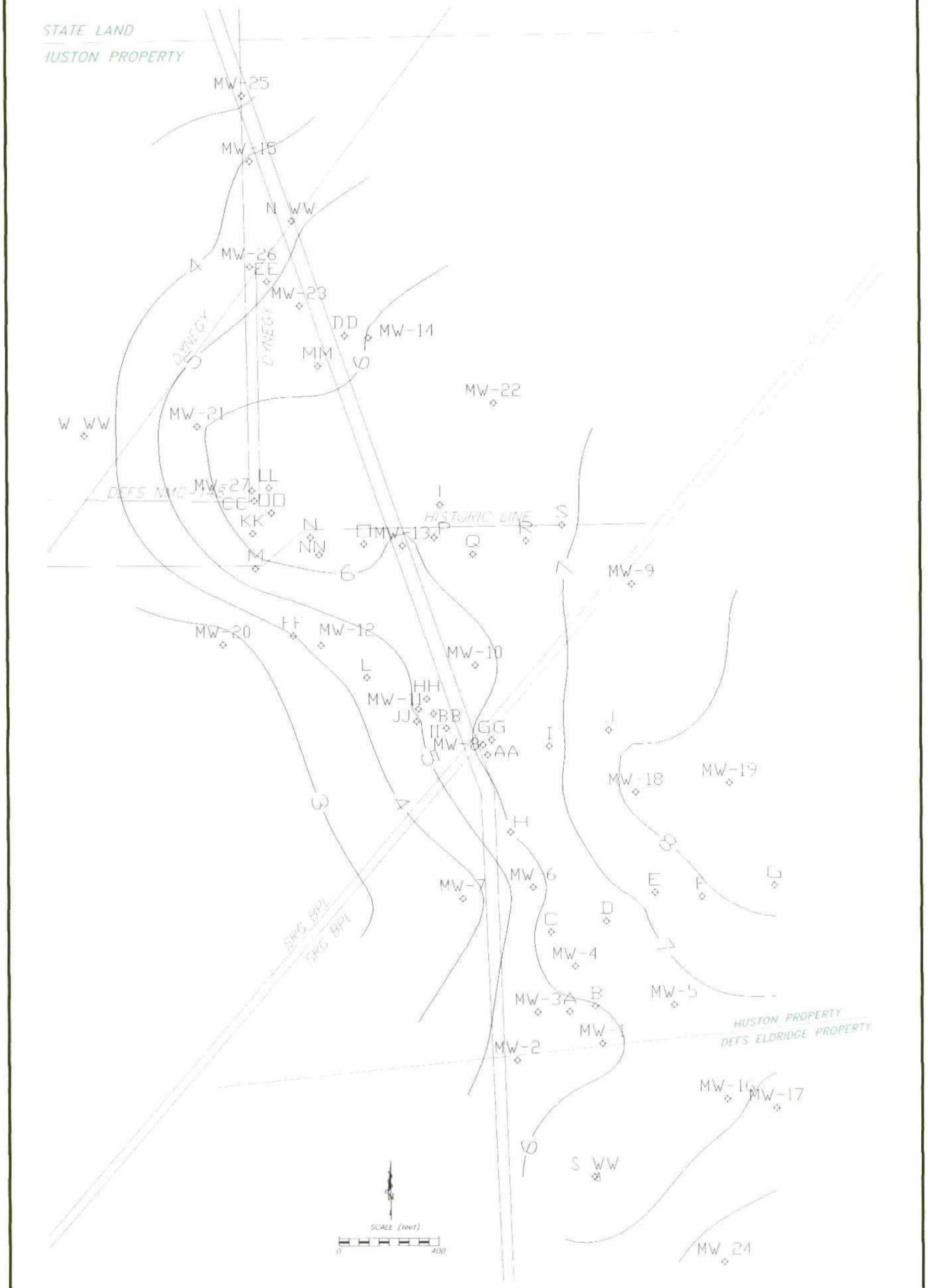
Figure 3 - Corrected December 2004 Water Table Contours

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04



CONTOUR INTERVAL IS 1 FOOT

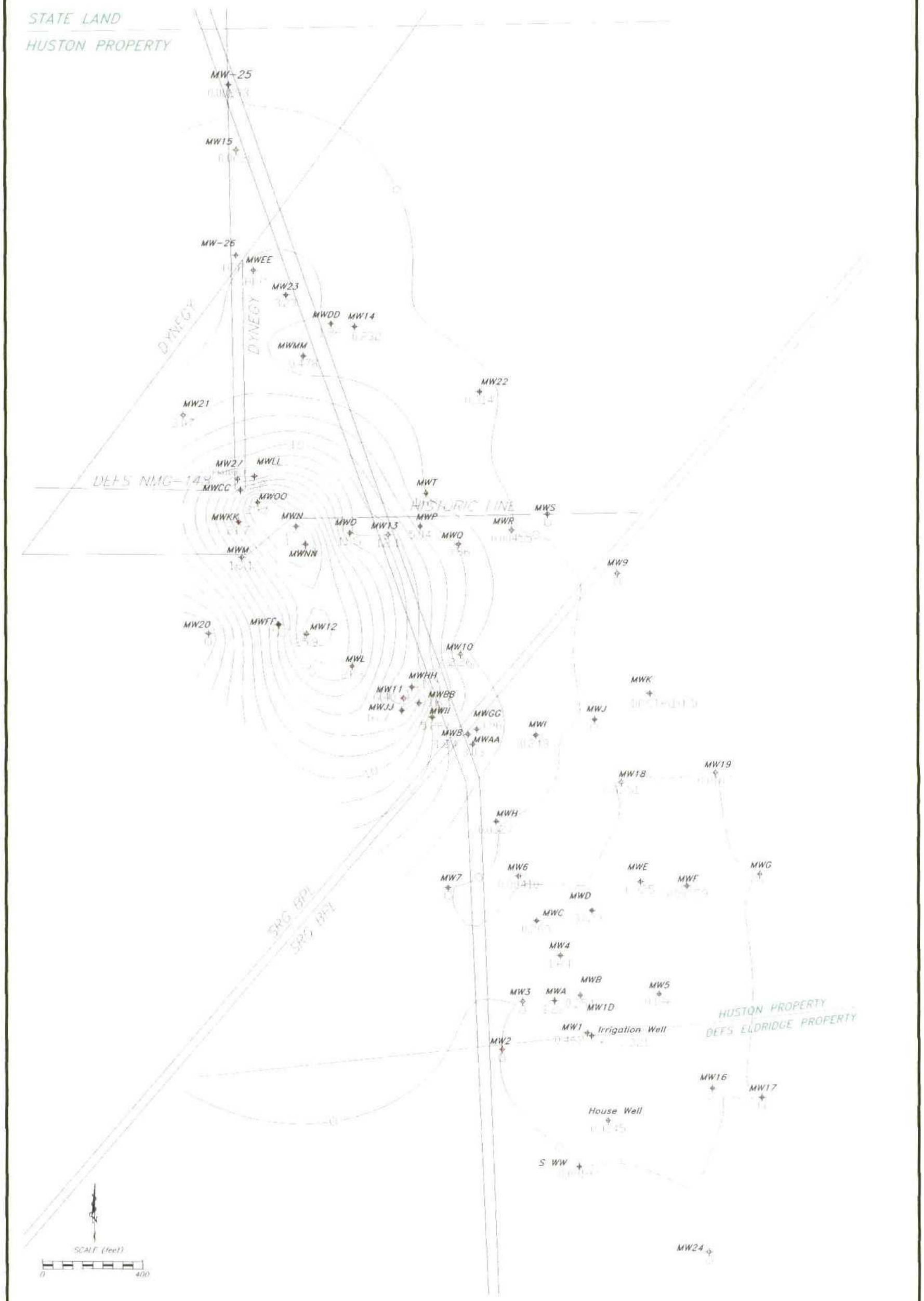
Figure 4 – Water Table Elevation Difference Between the December 2004 and October 2004 Measurements

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04



CONTOUR INTERVAL IS 2 mg/l

Values with a concentration of 0 are nondetects

PRODUCT: FREE PRODUCT PRESENT IN WELL

HFP: Well not sampled because it historically contained free product.

Figure 5 - Revised Groundwater Monitoring Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

Need letter for approved revised monitoring

February 7, 2005

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

Subject: Summary of December 2004 Groundwater Monitoring Results
DEFS Eldridge Ranch Study Area, (AP#-33), Lea County, New Mexico
(Unit P, Section 21, Township 19 South, Range 37 East)

Dear Steve:

This letter summarizes the activities completed and the data generated during the December 2004 quarterly groundwater-sampling episode at the Duke Energy Field Services (DEFS) Eldridge Ranch Study Area. The study area is located approximately 1 mile north and 0.75 miles east of the town of Monument in Lea County New Mexico. The OCD location descriptor is Unit P, Section 21, Township 19 South, Range 37 East. The coordinate for the area is 32 degrees 38.5 minutes north, 103 degrees 15.4 minutes east based upon the location of the former irrigation well.

Activities at the site are governed under Abatement Plan AP#33. DEFS submitted the Stage 1 Abatement Site Investigation Report (ASIR) on February 11, 2004 to the New Mexico Oil Conservation Division (OCD), and it has not received a response as of the date of this report. In that report, DEFS committed to continuing two activities independent of the ASIR review timeframe: 1) the on-going quarterly groundwater-monitoring program; and 2) the continued removal the free phase hydrocarbons (FPH) from all wells where it is present. FPH removal pumps are used for extraction from wells MW-27 and MW-CC. The remaining wells contain FPH-only passive bailers that are emptied twice weekly as necessary.

There are 28 monitoring wells, 34 FPH characterization wells and five pre-existing wells within the study area. The well locations are shown on Figure 1. Table 1 provides construction information on all of the wells at the site. FPH characterization well MW-K was destroyed during the heavy rains between September 2004 and December 2004. DEFS directed that all wells be sampled pending review and approval by OCD of the revised monitoring program proposed in the December 1, 2004 American Environmental Consultant, LLC (AEC) letter that summarized the September 2004 monitoring episode.

SUMMARY OF FIELD MONITORING ACTIVITIES AND RESULTS

The groundwater monitoring activities were completed the week of December 10, 2004. All activities followed the protocols in the Sampling and Analysis Plan (SAP) that was prepared specifically for this project and approved by OCD.

The activities are divided into water table measurements, fluid thickness measurements and groundwater sampling. The data from each activity is summarized below.

Water Table Measurements

Trident Environmental personnel measured the fluid levels in 67 wells on December 10, 2004 prior to beginning the purging and sampling activities. The corrected groundwater elevations are shown on Table 2 along with the historical data. Corrected non-FPH water-table elevations (GWE_{corr}) for the wells containing FPH were calculated using the following formula:

$GWE_{corr} = MGWE + (FPHT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and PD is the FPH density (assumed at 0.73 based upon site-specific information).

Figure 2 plots the differences in water table elevations between subsequent monitoring episodes for select wells. This graph was selected to better demonstrate changes in water-table elevation over time. Examination of Figure 2 shows that the water table elevations rose in June 2004 from the heavy spring rains. They then declined slightly between June 2004 and September 2004 when the precipitation lessened. There were substantial increases of between 4 and 8 feet in the water table that resulted from the heavy rains between September 2004 and December 2004. These differences in head changes indicate that the flow regime was in a dynamic state over the three months between the two monitoring episodes.

Water table contours based upon the corrected December 2004 measurements are shown in Figure 3. The contours were generated using the Surfer program with a kriging option and modified as necessary to match the results. The groundwater flow patterns in December 2004 shifted from the southeast to the south beneath the Huston property before resuming its normal flow pattern under the DEFS-Eldridge property.

This shift was caused by differing water-table elevation increases. The changes in water-table elevations between the September 2004 and December 2004 that are based upon the two Surfer grids are contoured in Figure 4. The change in thickness increased from 4 feet at the western margin to 8 feet along the swale on the eastern edge of the site. It appears that the groundwater cannot exit from the study area at the same rate that it is being fed

from up-gradient sources causing an increase in storage in the saturated material beneath the eastern swale.

There was a measured 3.53-foot head difference between wells MW-1 and MW-1D. This difference lies near the historic range of 3.55 to 3.58 feet.

Free Phase Hydrocarbon Thickness Measurements

The FPH thickness values are summarized on Table 3. Well MW-27 was the only well that contained free-phase hydrocarbons. The rising water table has inundated the FPH in the other wells. FPH recovery has ceased; however, FPH thicknesses are being monitored and FPH recovery will begin again when the FPH reappears at an extractable thickness.

Groundwater Sampling

Representative groundwater samples were collected from all historically-sampled wells on December 14 and 15, 2004. All of the groundwater samples were analyzed for benzene, ethylbenzene, toluene and xylenes (BTEX). The BTEX results are summarized in Table 4. The laboratory report is attached to this letter. A summary of all analytical results for benzene are included in Table 5 because it is the primary constituent of concern.

The measured concentrations and the calculated isopleths for benzene for the December 2004 episode are shown on Figure 5. The pipelines are also included on this figure for reference. The isopleths were calculated using the Surfer program with a kriging option and modified as necessary to match the results. The wells with non-detects were plotted with zero values to define the boundaries of the hydrocarbon plumes.

Time verses benzene concentration graphs were also generated to evaluate the hydrocarbon plume dynamics over time. The results are summarized below.

- Figure 6 plots the benzene concentration verses time plot for MW-14 that is located downgradient from the release associated with MW-26 (Figure 1). The benzene concentration stabilized rather than continuing its historic decline.

- Figure 7 shows the benzene concentrations for four wells (MW-4, MW-10, MW-12 and MW-13) in the center of the study area that have contained substantial concentrations of benzene since the start of the project. The concentration in MW-13 remained essentially constant. The benzene concentrations in MW4 and MW-10 continue to decline while the concentration in MW-13 increased by over a factor of two.

- Figure 8 shows the benzene concentrations for wells MW-5, MW-6 and MW-19 north of the Eldridge border. The benzene concentrations in all three wells declined from the September 2004 sampling event.

- Finally, Figure 9 shows the benzene concentration over time for well MW-1 on the Huston property and the irrigation well and the former house well on the DEFS-Eldridge property. The benzene in MW-1 increased for the third consecutive monitoring episode with a substantial increase in December 2004. Benzene rebounded slightly in the former house well while falling to its lowest concentration in the irrigation well.

The relative percentage difference (RPD) data for the three field blanks is summarized in Table 6. Only two values exceeded 20 percent RPD. The two values were for benzene (38.3%) and toluene (79.1%) for the MW-18 duplicate. The results for the matrix spike, matrix spike duplicate were all within the acceptable range (Attachment A).

SUMMARY

The most important difference noted in the data from this monitoring episode was the 4-to-8-foot increases in the water table elevations. These increases affected the study area in two ways. First, the groundwater flow direction on the Huston property changed from southeast to south. This directional change may deflect the dissolved-phase hydrocarbon and impact plume dynamics if it remains for a sufficiently extended period to result in significant constituent migration in the new direction.

Second, the rising water table submerged the FPH. The FPH may remain trapped in interstices in the saturated zone or it may migrate and re-emerge on top of the water table. Groundwater gauging during subsequent monitoring episodes will provide data to evaluate the above two conditions.

The changes in hydrocarbon concentrations immediately north of and on the DEFS-Eldridge property also probably resulted from the heavy rains that began in the spring. Hydrocarbon concentrations both increased (MW-1, former house well) and decreased (MW-4, Irrigation well).

REVIEW OF SUGGESTED MONITORING PROGRAM MODIFICATIONS

The proposed revised groundwater monitoring program that was proposed at part of the September 2004 groundwater monitoring report is shown on Figure 10. Four wells on the Huston property and two wells on the DEFS Eldridge property would not be abandoned but will no longer be sampled. These wells on the Huston property include the north water well, the west water well, MW-20 and MW-7. The wells on the DEFS Eldridge property include MW-2 and the south water well. Fluid levels will continue to be measured in these wells.

This revised monitoring program will not be implemented until approval is received from OCD. Upon approval, fluid levels in all wells would be measured one last time prior to the initiation of abandonment. The abandonment program that was discussed in detailed in the September 2004 report will then be implemented.

The next groundwater monitoring episode is scheduled for March 2005. Do not hesitate to contact me with any questions or comment on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart, PE, CPG
Principal Engineer

MHS/tbm

attachments

TABLES

Table 1 – Monitoring Well Information

Well	Installed By	Date Installed	Total Well Depth	Screen Interval	Sand Interval
MW-1	AMEC	8/01	28.0	11.8-26.8	9.8-27
MW-1D	Trident	12/02	48.0	34-44	33-48
MW-2	AMEC	8/01	28.0	11.7-26.7	8.7-27
MW-3	AMEC	8/01	30.0	13.4-28.4	10.4-29
MW-4	AMEC	8/01	30.0	13.2-28.2	10.2-29
MW-5	AMEC	8/01	27.0	10.2-25.2	7.2-26
MW-6	AMEC	8/01	30.0	13.5-28.5	10.5-29.0
MW-7	AMEC	8/01	35.0	18.6-33.6	15.6-34
MW-8	AMEC	3/02	30.0	15.0-30.0	12-30
MW-9	AMEC	3/02	27.0	11.4-26.4	8.4-27
MW-10	AMEC	3/02	31.0	15.2-30.2	12-31
MW-11	AMEC	3/02	30.4	15.3-30.3	12-30.4
MW-12	AMEC	3/02	34.0	18-33	15-34
MW-13	AMEC	3/02	36.0	18.11-33.11	16-36
MW-14	AMEC	3/02	32.0	16.11-31.11	14-32
MW-15	Trident	9/02	35.5	20-35	18-35.5
MW-16	Trident	9/02	25.0	9.5-24.5	9-24.5
MW-17	Trident	9/02	25.0	9.5-24.5	9-24.5
MW-18	Trident	9/02	32.0	16.5-31.5	15-32
MW-19	Trident	9/02	30.0	7-27	6-30
MW-20	Trident	9/02	32.0	16.5-31.5	15-32
MW-21	Trident	9/02	35.0	19.5-34.5	18-35
MW-22	Trident	9/02	36.0	17-32	15-36
MW-23	Trident	9/02	30.0	14.5-29.5	11-30
MW-24	Trident	12/02	35.0	19-34	17-34
MW-25	Trident	2/03	37.0	17-37	15-37
MW-26	Trident	2/03	35.0	15-35	13-35
MW-27	Trident	2/03	37.0	17-37	15-37
North Water Well	?	?	40	?	?
South Water Well	?	?	25	?	?
West Water Well	?	?	48	?	?
House Well	?	?	25	?	?
Irrigation Well	?	?	44.5	?	?

All units in feet
?: no information available
Minimum of 2 feet of pelletized bentonite on top of all sand packs.

Table 1 – Monitoring Well Information (continued)

Well	Installed By	Date Installed	Total Well Depth	Screen Interval	Sand Interval
MW-A	Trident	11/03	26.5	11-26	8-26.5
MW-B	Trident	11/03	30.5	15-30	11-30.5
MW-C	Trident	11/03	26.5	11-26	9-26.5
MW-D	Trident	11/03	31.5	16-31	14-31.5
MW-E	Trident	11/03	31	15-30	13-31
MW-F	Trident	11/03	26	9-24	6-24
MW-G	Trident	11/03	26	10-25	5-25
MW-H	Trident	11/03	30.5	15-30	12-30
MW-I	Trident	11/03	36.5	19-34	17-36.5
MW-J	Trident	11/03	27.5	12-27	9-27.5
MW-L	Trident	11/03	33	16-31	14-33
MW-M	Trident	11/03	38.5	23-38	21-38
MW-N	Trident	11/03	36.5	21-36	19-36.5
MW-O	Trident	11/03	36.5	21-36	19-36.5
MW-P	Trident	11/03	38	20-35	18-38
MW-Q	Trident	11/03	36	19-34	16-36
MW-R	Trident	11/03	31	15-30	13-31
MW-S	Trident	11/03	28.5	13-28	10-28.5
MW-T	Trident	11/03	37	20-35	17-37
MW-AA	Trident	11/03	32.5	17-32	15-32.5
MW-BB	Trident	11/03	29.5	14-29	12-29.5
MW-CC	Trident	11/03	36.5	21-36	19-36.5
MW-DD	Trident	11/03	32.5	17-32	15-32.5
MW-EE	Trident	11/03	33.5	18-33	16-33.5
MW-FF	Trident	11/03	36	15-30	13-36
MW-GG	Trident	11/03	31.5	16-31	14-31.5
MW-HH	Trident	11/03	31.5	16-31	14-31.5
MW-II	Trident	11/03	31.5	16-31	14-31.5
MW-JJ	Trident	11/03	31.5	16-31	14-31.5
MW-KK	Trident	11/03	36.5	21-36	19-36.5
MW-LL	Trident	11/03	37.5	22-37	20-37.5
MW-MM	Trident	11/03	36	19-34	16-36
MW-NN	Trident	11/03	36.5	21-36	19-36
MW-OO	Trident	11/03	37.5	22-37	19-37.5

Notes: All units in feet
Minimum of 2 feet of pelletized bentonite on top of all sand packs.
MW-K destroyed between September 2004 and December 2004.

Table 2 - Groundwater Elevations Corrected for Free Phase Hydrocarbons

Well	8/9/01	3/3/02	7/18/02	10/10/02	2/22/03	6/5/03	9/24/03	12/9/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04
MW-1	3602.20	3599.02	3598.68	3598.55	3598.68	3598.59	3598.36	3598.48	3598.47	3598.46	3599.07	3598.59	3604.27
MW 1D					3595.12	3595.03	3594.81	3594.90	3594.92	3594.91	3595.52	3594.67	3600.74
MW-2	3601.63	3599.33	3598.95	3598.81	3598.99	3598.88	3598.66	NM	3598.75	3598.73	3599.34	3598.88	3604.24
MW-3	3601.67	3601.67	3599.11	3598.96	3599.09	3599.01	3598.80	3598.89	3598.89	3598.88	3599.48	3599.01	3604.73
MW-4	3602.16	3599.81	3599.34	3599.17	3599.30	3599.24	3599.01	3599.05	3599.07	3599.08	3599.67	3599.17	3605.75
MW-5	3602.98	3600.48	3600.09	3599.93	3600.20	3600.03	3599.75	3599.91	3599.92	3599.94	3600.50	3599.85	3606.56
MW-6	3606.44	3603.99	3603.42	3603.22	3603.27	3603.21	3603.01	3602.99	3602.99	3602.98	3603.60	3603.12	3608.71
MW-7	3606.47	3604.02	3603.46	3603.31	3603.30	3603.25	3603.10	3603.05	3603.05	3603.01	3603.50	3603.17	3606.33
MW-8		3605.22	3602.50	3602.33	3602.34	3602.25	3602.00	3602.00	3602.13	3601.98	3619.49	3602.12	3608.29
MW-9		3604.78	3601.14	3600.91	3601.05	3600.91	3600.62	3600.66	3600.66	3600.67	3601.43	3600.74	3608.59
MW-10		3606.67	3603.96	3603.76	3603.74	3603.67	3603.41	3603.39	3603.38	3603.36	3604.15	3603.55	3609.15
MW-11		3606.16	3603.64	3602.47	3603.39	3603.32	3603.04	3603.07	3603.04	3603.00	3620.96	3603.22	3608.39
MW-12		3607.44	3604.87	3604.69	3604.60	3604.54	3604.36	3604.32	3604.27	3604.23	3604.89	3604.44	3608.74
MW-13		3608.80	3605.01	3604.79	3604.79	3604.70	3604.43	3604.40	3604.39	3604.37	3605.24	3605.58	3611.18
MW-14		3608.66	3606.04	3605.85	3605.81	3605.74	3605.51	3605.47	3605.45	3605.43	3606.23	3605.67	3611.79
MW-15				3608.42	3608.43	3608.43	3608.41	3608.41	3608.40	3608.38	3608.50	3608.44	3612.56
MW-16				3592.88	3593.10	3592.88	3592.87	NM	3592.82	3592.84	3593.38	3592.80	3599.29
MW-17				3592.92	3593.17	3592.98	3592.72	NM	3592.89	3592.92	3593.32	3592.79	3598.09
MW-18				3600.19	3600.42	3600.24	3599.91	3600.04	3600.06	3600.08	3600.75	3600.04	3608.31
MW-19				3599.70	3600.05	3599.78	3599.45	3599.64	3599.67	3599.70	3600.31	3599.54	3608.59
MW-20				3605.44	3605.32	3605.26	3605.14	3605.09	3605.04	3604.99	3605.41	3605.13	3607.53
MW-21				3606.29	3606.26	3606.22	3606.06	3606.04	3606.02	3606.00	3606.70	3606.26	3612.20
MW-22				3605.80	3605.81	3605.73	3605.45	3605.44	3605.43	3605.41	3606.22	3605.63	3612.25
MW-23				3607.55	3607.50	3607.46	3607.26	3607.24	3607.21	3607.19	3607.82	3606.41	3612.30
MW-24					3587.76	3587.66	3587.47	NM	3587.56	3587.56	3588.04	3587.63	3591.98
MW-25					3611.96	3611.94	3611.89	3611.86	3611.84	3611.81	3612.12	3611.97	3614.74
MW-26					3609.37	3609.36	3609.20	3609.18	3609.14	3609.13	3609.62	3609.35	3613.57
MW-27					3606.23	3606.17	3605.86	3606.09	3605.85	3605.81	3606.67	3606.04	3612.69
North Water Well				3589.13	3609.29	3609.25	3609.07	3609.02	3609.00	3608.96	3609.60	3609.21	3614.09
South Water Well					3591.96	3591.83	3591.62	NM	3591.84	3591.67	3592.42	3591.96	3599.07
West Water Well					3607.83	3607.83	3607.75	3607.74	3607.72	3607.68	3607.80	3607.66	3610.95

Notes: 1) All units in feet: 2) NM: well not gauged: 3) Blank cell: well not installed at time of measurement
4) See text for discussion of corrections for free phase hydrocarbons

Table 2 - Groundwater Elevations Corrected for Free Phase Hydrocarbons (continued)

Well	12/9/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04
MW-A	3594.96	3594.95	3594.94	3595.55	3595.06	3600.83
MW-B	3595.01	3595.01	3595.00	3595.62	3595.12	3601.07
MW-C	3597.77	3597.78	3597.77	3598.37	3597.88	3604.49
MW-D	3598.11	3598.14	3598.15	3598.69	3598.15	3604.91
MW-E	3598.83	3598.84	3598.85	3599.44	3598.79	3605.89
MW-F	3598.96	3598.99	3599.02	3599.58	3598.83	3606.67
MW-G	3598.98	3599.01	3599.05	3599.59	3598.85	3607.26
MW-H	3600.88	3600.89	3600.87	3601.54	3601.02	3607.06
MW-I	3602.15	3602.17	3602.16	3602.89	3602.27	3608.89
MW-J	3601.61	3601.67	3601.63	3602.34	3601.65	3609.62
MW-K	3601.89	3601.90	3601.92	3602.66	3601.89	DES
MW-L	3604.27	3604.25	3604.21	3604.89	3604.42	3608.72
MW-M	3605.18	3605.16	3605.12	3605.92	3605.36	3611.15
MW-N	3605.11	3605.10	3605.05	3605.93	3605.29	3611.89
MW-O	3605.10	3605.08	3605.06	3605.92	3605.28	3611.87
MW-P	3605.08	3605.07	3605.05	3605.91	3605.26	3611.88
MW-Q	3606.03	3606.01	3605.99	3606.84	3606.19	3612.82
MW-R	3604.97	3605.01	3604.94	3605.79	3605.13	3611.80
MW-S	3604.92	3604.91	3604.90	3605.73	3605.08	3611.91
MW-T	3605.08	3605.06	3605.04	3605.90	3605.25	3611.88
MW-AA	3602.45	3602.44	3602.42	3603.13	3602.57	3608.74
MW-BB	3603.45	3603.44	3603.42	3604.11	3603.61	3609.01
MW-CC	3605.16	3605.14	3605.09	3605.98	3605.337	3611.95
MW-DD	3606.98	3606.96	3606.94	3607.63	3607.18	3612.59
MW-EE	3607.61	3607.59	3607.54	3608.18	3607.83	3612.61
MW-FF	3604.81	3604.80	3604.75	3605.35	3604.95	3608.90
MW-GG	3602.60	3602.58	3602.57	3603.28	3602.71	3608.93
MW-HH	3603.73	3603.71	3603.69	3604.40	3603.89	3609.11
MW-II	3603.03	3603.00	3602.97	3603.67	3603.17	3608.85
MW-JJ	3603.47	3603.44	3603.41	3604.07	3603.61	3608.46
MW-KK	3604.14	3604.12	3604.10	3604.96	3604.31	3610.59
MW-LL	3605.10	3605.08	3605.05	3605.92	3605.27	3611.87
MW-MM	3606.65	3606.62	3606.60	3607.35	3606.85	3612.49
MW-NN	3605.09	3605.07	3605.05	3605.90	3605.27	3611.65
MW-OO	3605.17	3605.15	3605.13	3606.00	3605.34	3611.95

Notes: All units in feet
NM: well not gauged
DES: well destroyed between 9/04 and 12/04
Blank cell: well not installed at time of measurement
See text for discussion of corrections for free phase hydrocarbons

Table 3 – Measured Free Phase Hydrocarbon Thickness

Well	3/03/02	7/18/02	10/10/02	2/22/03	6/04/03	9/24/03	12/09/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04
MW-8	0.00	0.00	0.00	0.00	0.30	0.47	0.50	0.00	0.46	0.00	0.00	0.00
MW-11	0.00	0.00	0.01	1.35	1.36	1.33	1.40	1.41	1.37	0.00	0.00	0.00
MW-18			0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-23			0.58	0.57	0.59	0.56	0.52	0.54	0.41	0.24	0.24	0.00
MW-26				0.71	0.84	0.21	0.05	0.02	0.02	0.01	0.03	0.00
MW-27				1.25	1.26	1.18	0.37	1.16	1.11	1.09	1.08	0.72
MW-N							1.10	1.10	1.09	0.99	1.00	0.00
MW-CC							1.20	1.20	1.20	1.10	1.13	0.00
MW-EE							0.27	0.26	0.21	0.14	0.03	0.00

Notes: All units are feet.

Table 4 – Summary of December 2004 Monitoring Results

Well	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Xylene (o)	Xylene (p/m)
MW-1	0.462	0.0790	0.469	0.1657	0.0607	0.105
MW-1D	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-4	1.64	0.169	3.03	0.659	0.158	0.501
MW-5	0.196/0.174	0.0222/0.0218	0.0215/0.0214	0.02627/0.02852	0.00677/0.00682	0.0195/0.0217
MW-6	0.00410	0.00226	<0.001	<0.001	<0.001	<0.001
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	1.84	0.145	1.76	0.659	0.149	0.510
MW-9	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	2.26	0.0282 J	0.0668	0.0725	0.0103 J	0.0622
MW-11	6.40/7.54	0.166/0.151	2.38/2.79	0.359/0.329	0.107/0.120	0.252/0.209
MW-12	25.9	0.214	2.25	0.2674	0.0744 J	0.193
MW-13	12.1	0.187	0.730	0.3827	0.0757 J	0.307
MW-14	0.232	0.000225 J	0.00121	0.001199	0.000243 J	0.000956 J
MW-15	0.0620	0.0252	0.136	0.0714	0.0132	0.0582
MW-16	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-17	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-18	0.0251/0.0370	0.0133/0.0149	0.00419/0.00967	0.0291/0.0311	0.0115/0.0123	0.0176/0.0188
MW-19	0.0107	0.000206 J	0.000326 J	0.000722	0.000295 J	0.000427 J
MW-20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-21	3.07	0.500	0.157	1.252	0.152	1.10
MW-22	0.314	0.000359 J	0.000339 J	0.00113	0.000335 J	0.000795 J
MW-23	3.29	0.572	0.972	1.46	0.120	1.34
MW-24	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-25	0.00293	0.000964 J	0.000922 J	0.002304	0.000234 J	0.00207
South Well	0.00197	0.000680 J	0.000625 J	0.001694	0.000194 J	0.00150
House Well	0.0245	0.000266 J	0.000310 J	0.0038	0.00221	0.00159
Irr Well	0.321	.0499	0.295	0.1553	0.353	0.120

Notes: All units mg/l
FPH: Free phase hydrocarbons present no groundwater sample collected
J: Detected but below the reporting limit; therefore, result is an estimated concentration
Total xylenes calculated, J qualifiers from isomers not included

Table 4 – Summary of December 2004 Organics Analyses (continued)

Well	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Xylene (o)	Xylene (p/m)
MW-A	1.22	0.166	1.87	0.718	0.145	0.573
MW-B	0.254	0.126	0.541	0.368	0.112	0.256
MW-C	0.263	0.0370	0.00761	0.0312	0.0167	0.0145
MW-D	0.0293	0.00475	0.00494	0.00879	0.00187	0.00692
MW-E	0.325	0.0142	0.00400	0.02641	0.00691	0.0195
MW-F	0.00559	0.00049 J	0.000698 J	0.001825	0.000435 J	0.00139
MW-G	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-H	0.0327	0.0141	0.0100	0.05452	0.00932	0.0452
MW-I	0.243	0.0698	0.0390	0.02842	0.00292	0.0255
MW-J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-L	21.3	0.210	0.711	0.2318	0.0698 J	0.162
MW-M	16.1	0.317	9.89	0.792	0.174	0.618
MW-O	11.5	0.149	0.528	0.2586	0.0386 J	0.220
MW-P	5.04	0.0403 J	0.0455 J	0.0895	0.0129 J	0.0766 J
MW-Q	3.86	0.0337	0.0692	0.07484	0.00924 J	0.0656
MW-R	0.00455	<0.001	<0.001	<0.001	<0.001	<0.001
MW-S	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-T	1.68	0.00470 J	0.00736 J	<0.02	<0.02	0.00940 J
MW-AA	3.03	0.0189	0.0133	0.0238	0.00690 J	0.0169
MW-BB	16.1	0.255	0.146	0.216	0.158	0.0580
MW-DD	1.86	0.0818	0.0281	0.1574	0.0154	0.142
MW-FF	15.7	0.152	0.0234	0.0622	0.0357	0.0265
MW-GG	3.96	0.0688	0.0687	0.0624	0.0316	0.0308
MW-HH	11.3	0.142	1.36	0.2193	0.0693	0.150
MW-II	5.28	0.0974	0.601	0.1493	0.0518	0.0975
MW-JJ	16.7	0.241	0.924	0.1436	0.0592	0.0844
MW-KK	21.7	0.139	1.00	0.1328	0.0341 J	0.0987 J
MW-LL	13.2	0.280	3.54	0.596	0.117	0.479
MW-MM	0.478	0.0419	0.00488	0.01582	0.00422	0.0116
MW-NN	29.9	0.189	0.758	0.1828	0.0458 J	0.137
MW-OO	29.7	0.275	7.46	0.642	0.134	0.508

Notes: All units mg/l
J: Detected but below the reporting limit; therefore, result is an estimated concentration
Total xylenes calculated, J qualifiers from isomers not included

Table 5 – Summary of All Benzene Measurements

Well	Aug-01	Mar-02	Jul-02	Oct-02	Dec-02	Feb-03	Jun-03	Sep-03	Dec 03/ Jan 04	Mar-04	Jun-04	Sep-04	Dec-04
MW-1	0.943	NS	0.279	NS	NS	0.018 /0.021	0.004	0.002	0.034	0.00245	0.0762	0.119	0.462
MW-1D				NS	<0.001	0.028	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001
MW-2	<.005	NS	<0.001	NS	NS	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	<.005	NS	0.002	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	0.00184	<0.001	<0.001
MW-4	10.0	NS	10.4	NS	NS	5.65	3.88	3.53	3.36	4.20	5.71	3.37	1.64
MW-5	0.217 /0.182	NS	0.160	NS	NS	0.018	0.019 /0.023	0.013 /0.013	0.052	0.0834	0.531	0.243	0.196/0.174
MW-6	0.600	NS	0.237/ 0.253	NS	NS	0.022	0.033	0.020	0.004	0.0383	0.0465	0.0945	0.00410
MW-7	<.005	NS	<0.001	NS	NS	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8		8.60	8.37	NS	NS	9.62	FPH	FPH	FPH	FPH	9.68	6.28	1.84
MW-9		<.005	<0.001	NS	NS	<0.001	<0.001	<0.001	<0.001	0.000919	<0.001	<0.001	<0.001
MW-10		10.6	14.0	NS	NS	12.4	9.78	7.04	6.95	4.8	7.63	5.49	2.26
MW-11		27.8	FPH	NS	NS	FPH	FPH	FPH	FPH	FPH	19.9	17.9	6.40/7.54
MW-12		9.08	6.95	NS	NS	15.1	11.9	15.2	14.7	16.9	16.3	11.2	25.9
MW-13		19.8	19.8	NS	NS	23.2	26.3	16.5	16.1	10.8	12.7	11.7	12.1
MW-14		1.04	1.21	NS	NS	0.895	0.537	0.388	0.398	0.376	0.32	0.198	0.232
MW-15				0.002	NS	0.003	0.001	<0.001	0.029	0.0012	0.00464	0.0102	0.0620
MW-16				<0.001	NS	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-17				<0.001	NS	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-18				0.008	NS	FPH	FPH	0.059	0.018	0.00764	0.101	0.0283	0.0251/0.0370
MW-19				0.003	NS	0.198	0.092	0.078	0.05	0.054	0.0532	0.0391	0.0107
MW-20				<0.001	NS	0.001	0.006	<0.001	<0.001	0.000965	<0.001	<0.001	<0.001

All units in mg/l
Cells marked with FPH contained free phase hydrocarbons and were not sampled
Cells marked with NS denote wells that were not sampled
Blank cells denote wells that had not been installed

Table 5 – Summary of All Benzene Measurements (continued)

Well	Aug-01	Mar-02	Jul-02	Oct-02	Dec-02	Feb-03	Jun-03	Sep-03	Dec 03/ Jan 04	Mar-04	Jun-04	Sep-04	Dec-04
MW-21				0.01/0.011	NS	0.016 /0.014	0.016/ 0.017	0.007/ 0.006	0.009	0.00718 0.00511	0.159	0.0547	3.07
MW-22				<0.001	NS	<0.001	0.002	<0.001	0.014	<0.001	<0.001	<0.001	0.314
MW-23						FPH	FPH	FPH	FPH	FPH	FPH	FPH	3.29
MW-24				<0.001	NS	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-25					NS	0.004/ 0.004	0.004	0.009	0.002	<0.001	<0.001	<0.001	0.00293
MW-26						FPH	FPH	FPH	FPH	2.33	FPH	FPH	NS
MW-27						FPH	FPH	FPH	FPH	FPH	FPH	FPH	FPH
North water well					0.385	0.383	0.333	0.359	0.21	0.05999	0.0987	NS	NS
South water well					<0.001	0.036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00197
West water well					NS	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	NS	NS
House well					0.59	0.403	NS	NS	0.147	0.0008	0.0144	<0.001	0.0245
Irrigation well				1.26						0.426	0.537	0.119	.0321

All units in mg/l
Cells marked with FPH contained free phase hydrocarbons and were not sampled
Cells marked with NS denote wells that were not sampled
Blank cells denote wells that had not been installed

Table 5 – Summary of All Benzene Measurements (continued)

Well	Dec 03/Jan 04	Mar 04	Jun-04	Sep-04	Dec-04
MW-A	2.11	1.44	1.53	1.56	1.22
MW-B	0.321	0.215	0.274	0.197	0.254
MW-C	0.027	0.0288	0.175	0.129	0.263
MW-D	0.008	0.0101	0.0191	0.0234	0.0293
MW-E	0.847	0.626	0.263	0.475	0.325
MW-F	<0.001	0.000968	<0.001	<0.001	0.00559
MW-G	<0.001	0.000915	<0.001	<0.001	<0.001
MW-H	0.066	0.0193	0.371	0.00287	0.0327
MW-I	0.522	0.394	0.552	0.443	0.243
MW-J	<0.001	0.00969	<0.001	<0.001	<0.001
MW-K	2.33	1.99	1.62	1.56	DES
MW-L	21.4	24.8	30.7	44.0	21.3
MW-M	1.67	3.58	9.17	6.46	16.1
MW-N	FPH	FPH	FPH	FPH	NS
MW-O	30.4	32.0	32.5	46.4	11.5
MW-P	10.2	9.44	10.7	17.3	5.04
MW-Q	7.44	8.24	7.2	9.47	3.86
MW-R	0.004	0.00283	0.0294	0.0522	0.00455
MW-S	0.002	<0.001	<0.001	<0.001	<0.001
MW-T	4.3	4.89	4.17	5.19	1.68
MW-AA	0.356	0.367	1.21	1.02	3.03
MW-BB	4.34	3.73	NS	7.87	16.1
MW-CC	FPH	FPH	FPH	FPH	NS
MW-DD	0.772	0.678	0.635	0.515	1.86
MW-EE	FPH	FPH	FPH	FPH	NS
MW-FF	3.22	3.22	3.31	3.90	15.7
MW-GG	5.96	7.34	7.97	10.8	3.96
MW-HH	3.23	5.63	4.51	9.61	11.3
MW-II	0.518	2.10	3.4	0.737	5.28
MW-JJ	15.9	15.3	17.6	21.7	16.7
MW-KK	0.263	2.18	1.67	2.56	21.7
MW-LL	13.7	12.8	14.9	17.5	13.2
MW-MM	0.237	0.202	0.351	0.301	0.478
MW-NN	31.5	19.2	35.2	41.7	29.9
MW-OO	31.5	29.2	32.6	39.8	29.7

All units in mg/l
Cells marked with FPH contained free phase hydrocarbons and were not sampled
Cells marked with NS denote wells that were not sampled
Blank cells denote wells that had not been installed
DES: well destroyed

Table 6 – Relative Percentage Difference (RPD) Evaluation of Field Duplicates

Well	Benzene	Ethylbenzene	Toluene	Xylenes	Xylene (o)	Xylene (p/m)
MW-5	0.196	0.0222	0.0215	0.02627	0.00677	0.0195
MW-5 Dup	0.174	0.0218	0.0214	0.02852	0.00682	0.0217
RPD	11.9%	1.8%	0.5%	-8.2%	-0.7%	-10.7%
MW-11	6.40	0.166	2.38	0.359	0.107	0.252
MW-11 Dup	7.54	0.151	2.79	0.329	0.120	0.209
RPD	-16.4%	9.5%	-15.9%	8.7%	-11.5%	18.7%
MW-18	0.0251	0.0133	0.00419	0.0291	0.0115	0.0176
MW-18 Dup	0.0370	0.0149	0.00967	0.0311	0.0123	0.0188
RPD	-38.3%	-11.3%	-79.1%	-6.6%	-6.7%	-6.6%

Units are mg/l for analytical results and percentage for RPD calculations

FIGURES

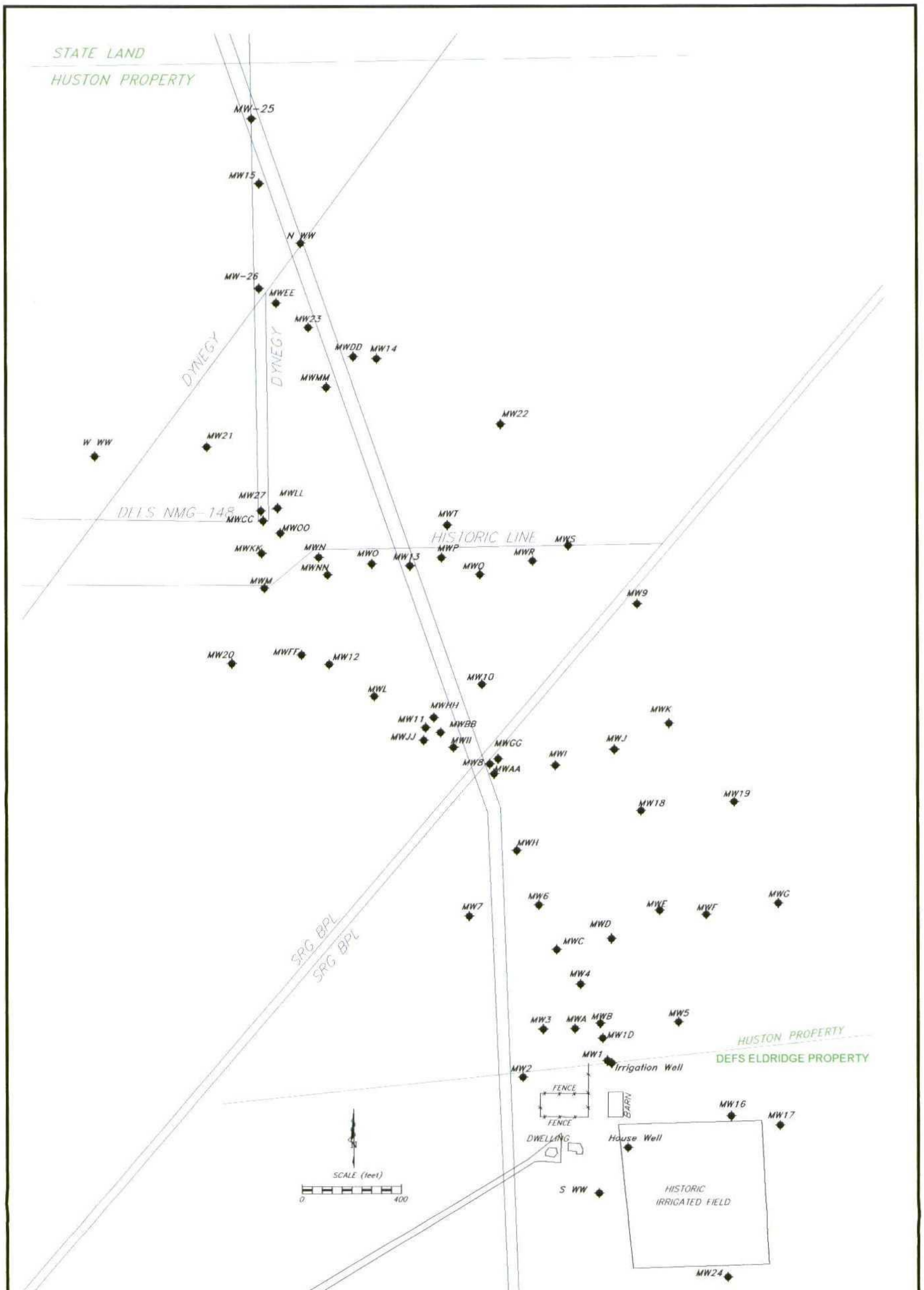


Figure 1 - Monitoring Well and Pipeline Locations

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 5/04

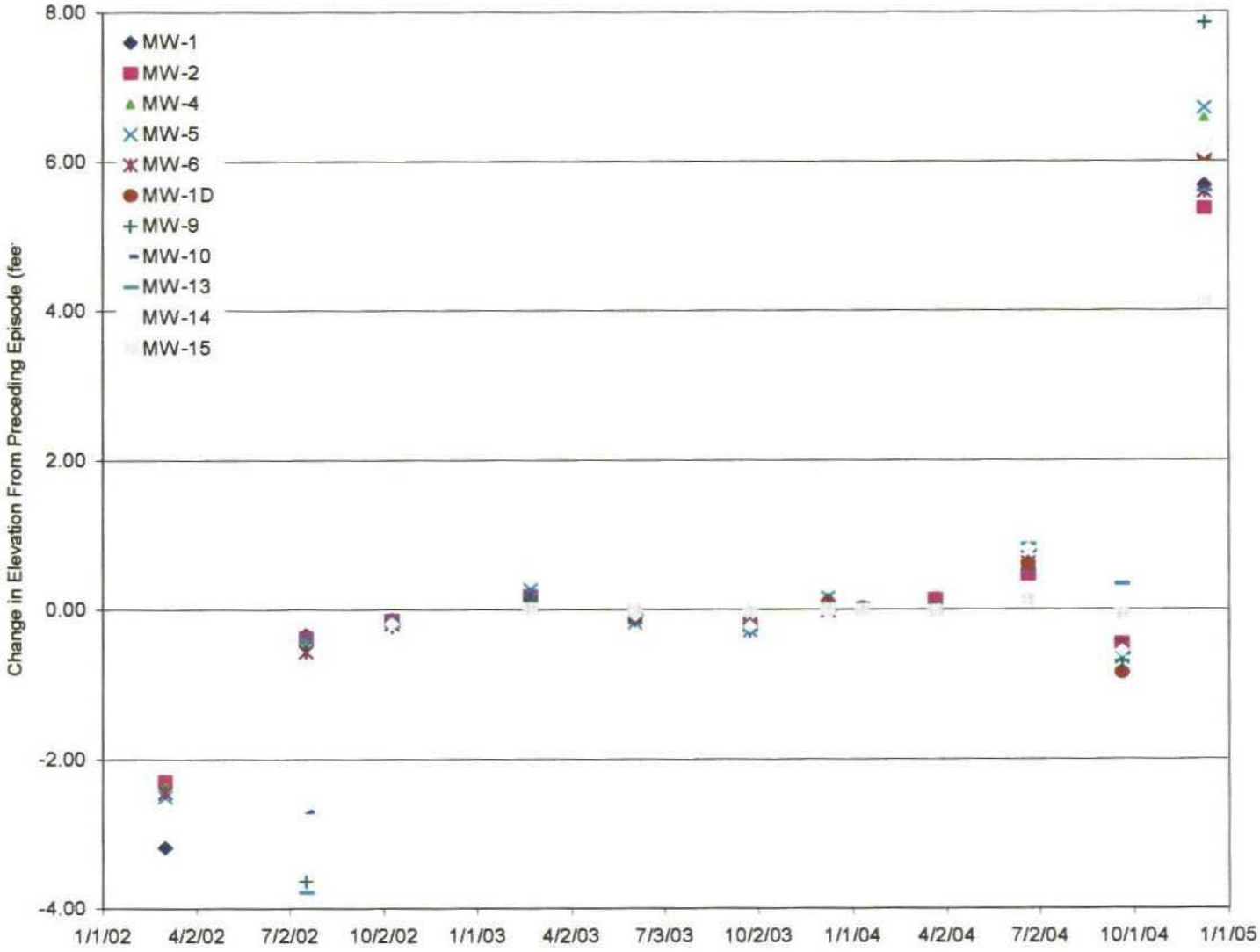


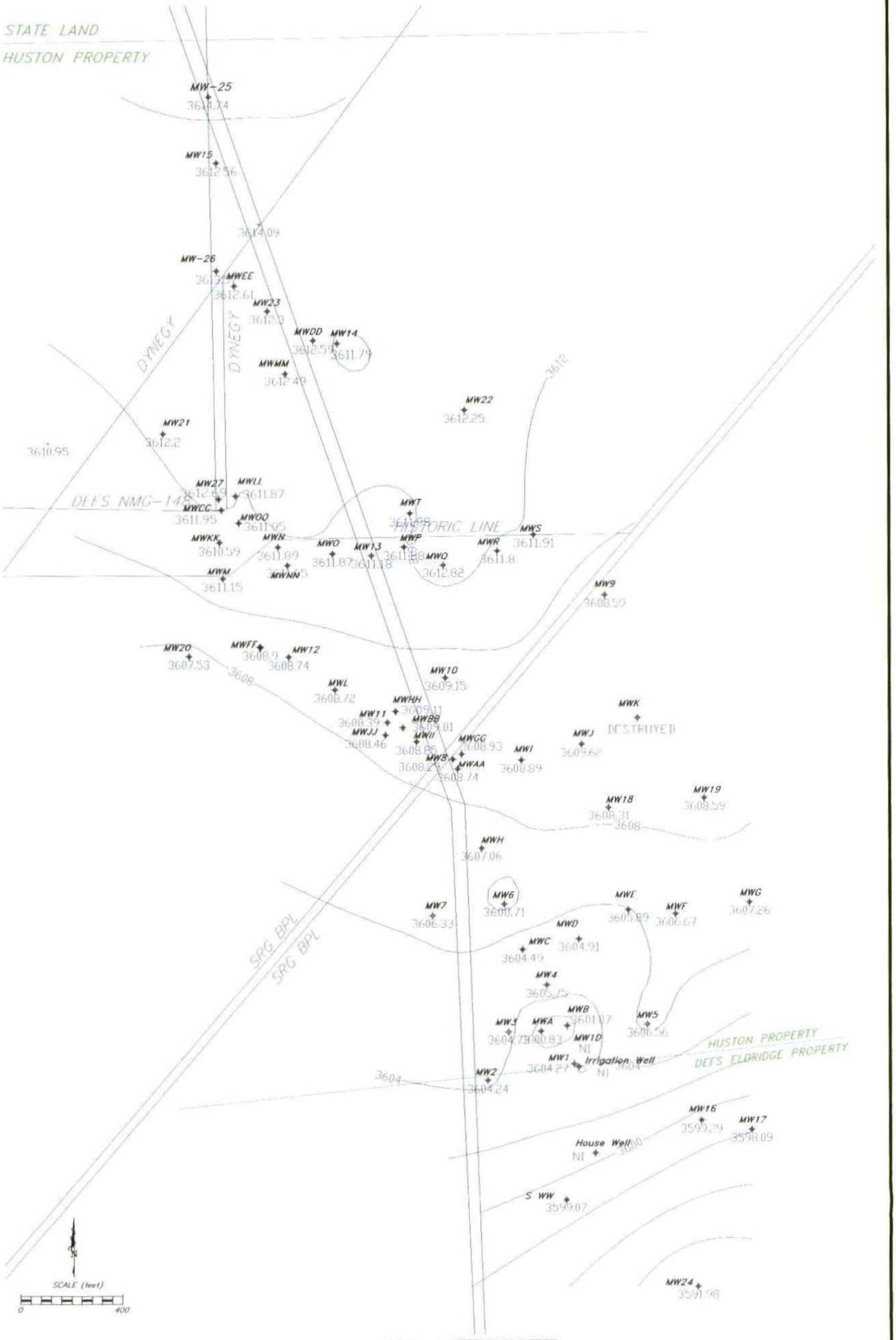
Figure 2 - Changes in Water Table Elevations for Selected Wells

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 1/05



CONTOUR INTERVAL IS 2 FEET

NI: Data not included, no casing elevation

Figure 3 - Corrected December 2004 Water Table Contours

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04

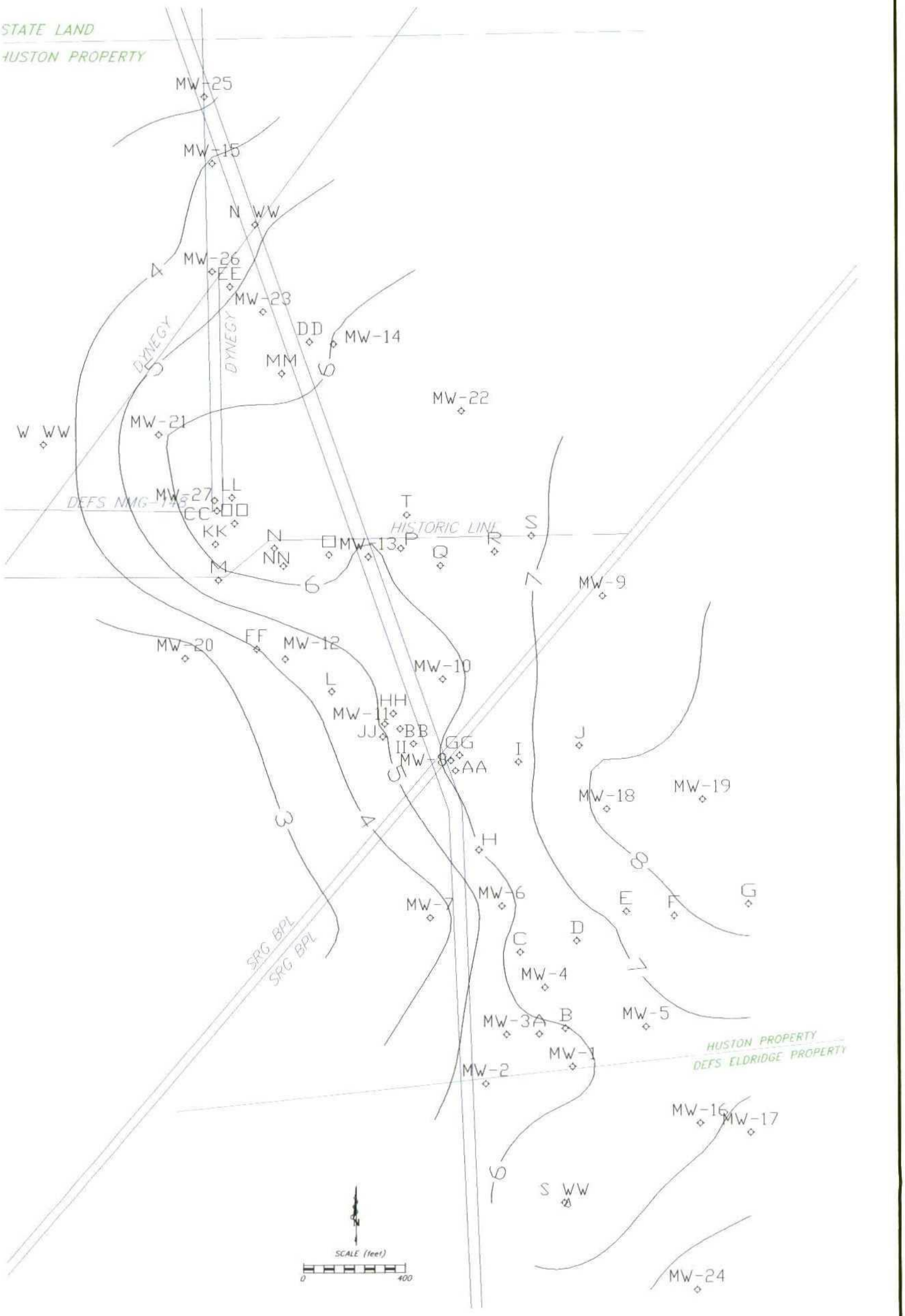


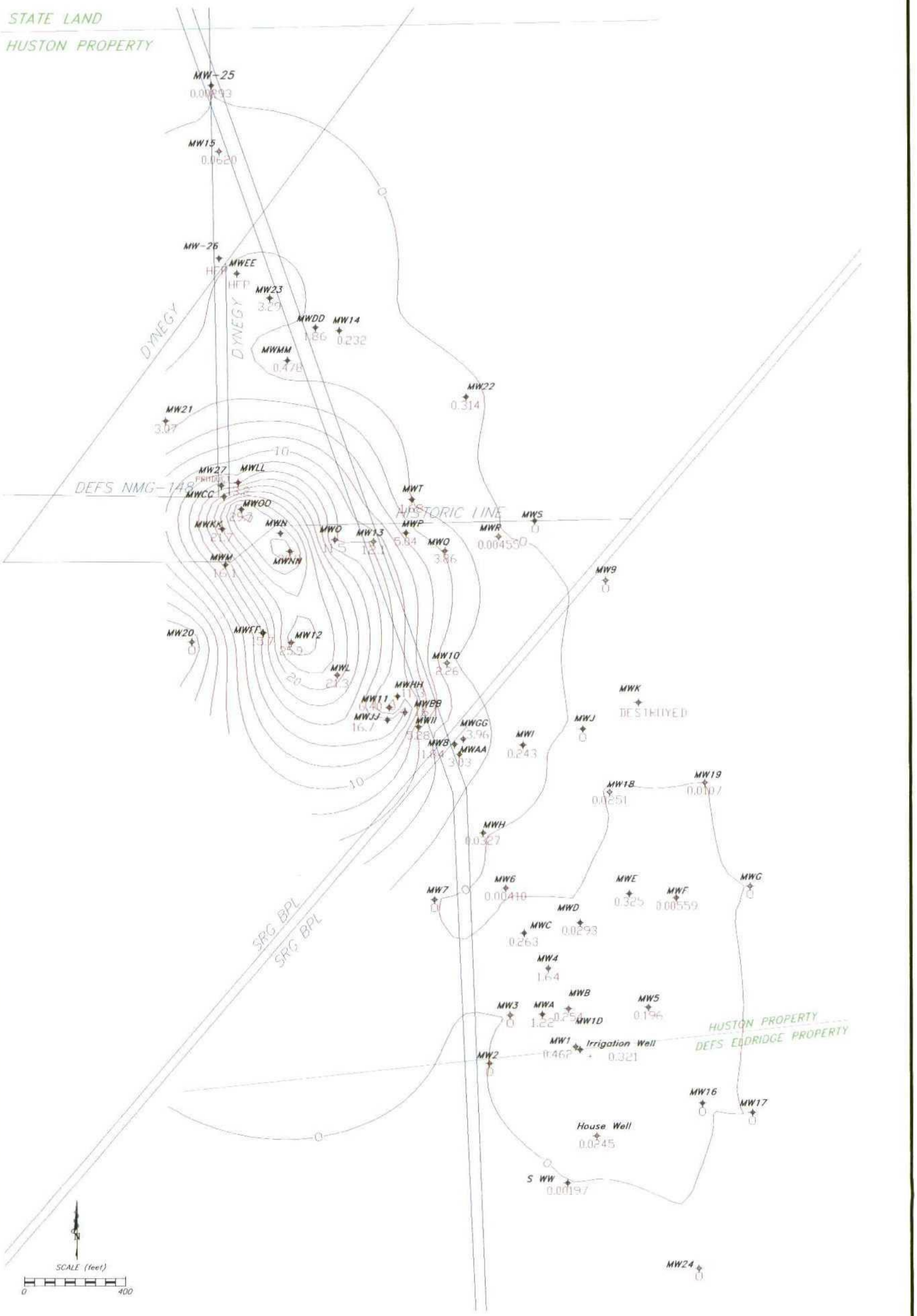
Figure 4 – Water Table Elevation Difference Between the December 2004 and October 2004 Measurements

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04



CONTOUR INTERVAL IS 2 mg/l

Values with a concentration of 0 are nondetects

PRODUCT: FREE PRODUCT PRESENT IN WELL

HFP: Well not sampled because it historically contained free product.

Figure 5 - Revised Groundwater Monitoring Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/04

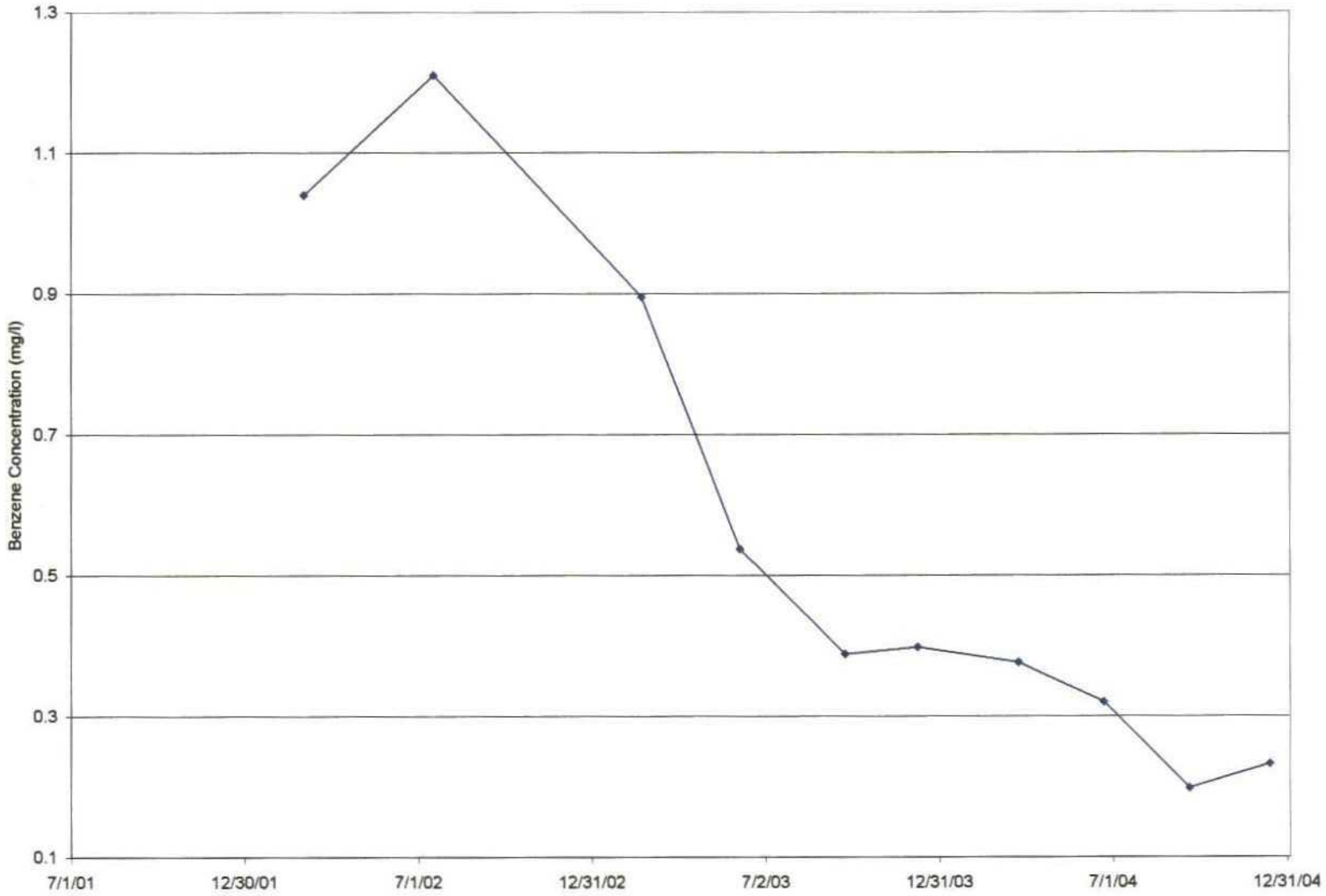


Figure 6 - Benzene Concentration verses time plot for MW-14

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04

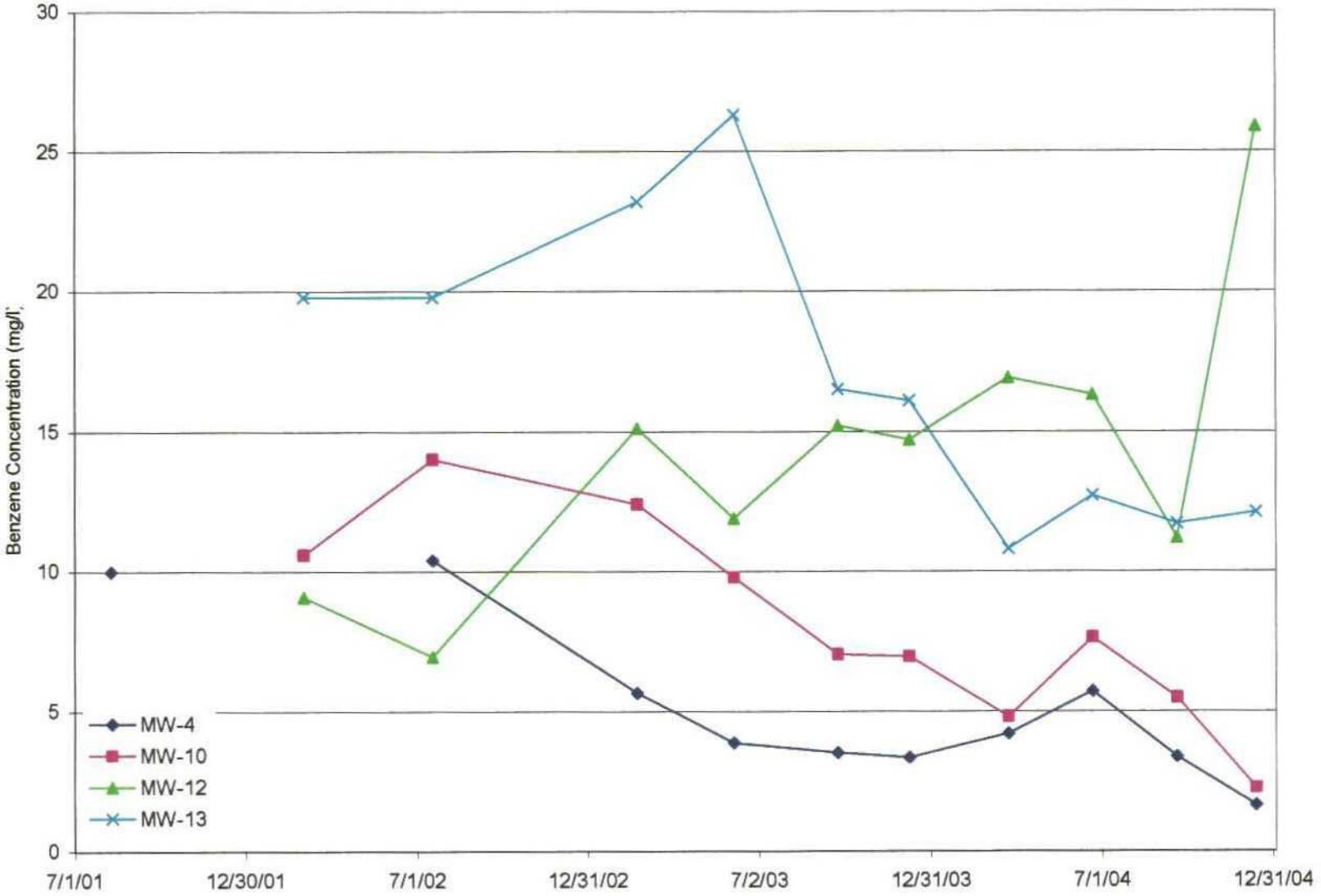


Figure 7- Benzene Concentration verses time plot for MW-4, 10, 12 & 13

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04

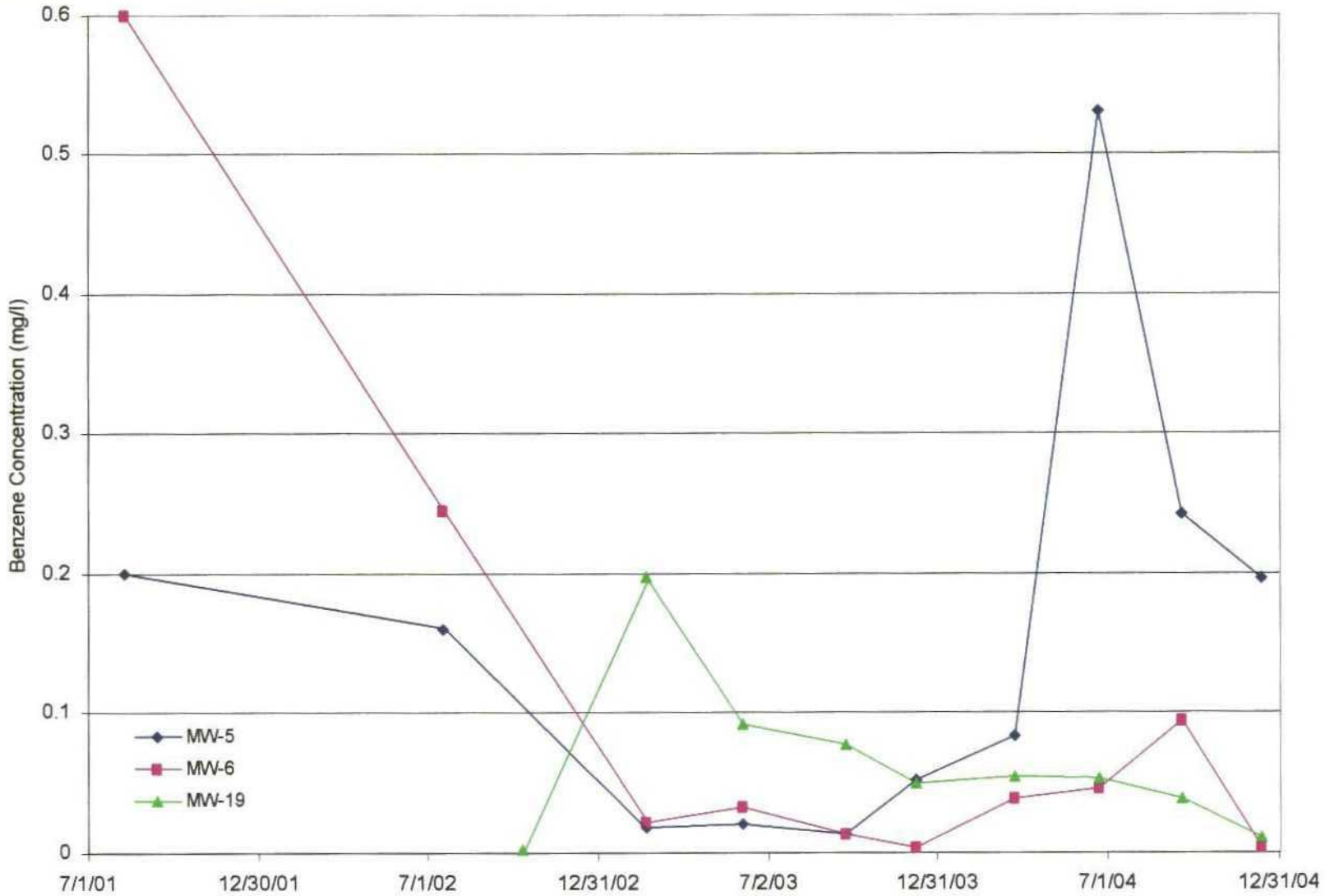


Figure 8 - Benzene Concentration verses time plot for MW-5, 6 & 19

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04

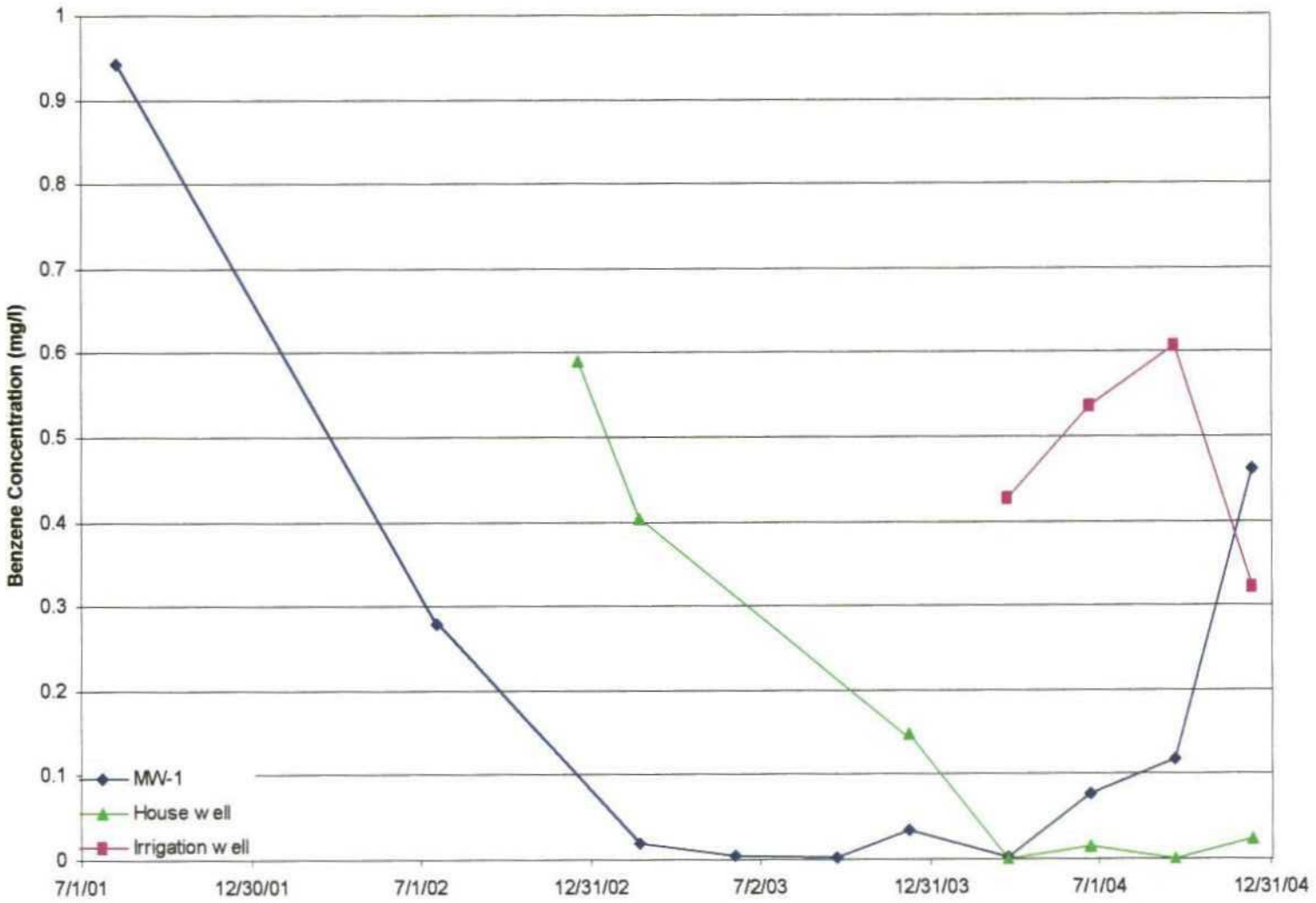


Figure 9 - Benzene Concentration verses time plot for MW-1, House and Irrigation wells

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04

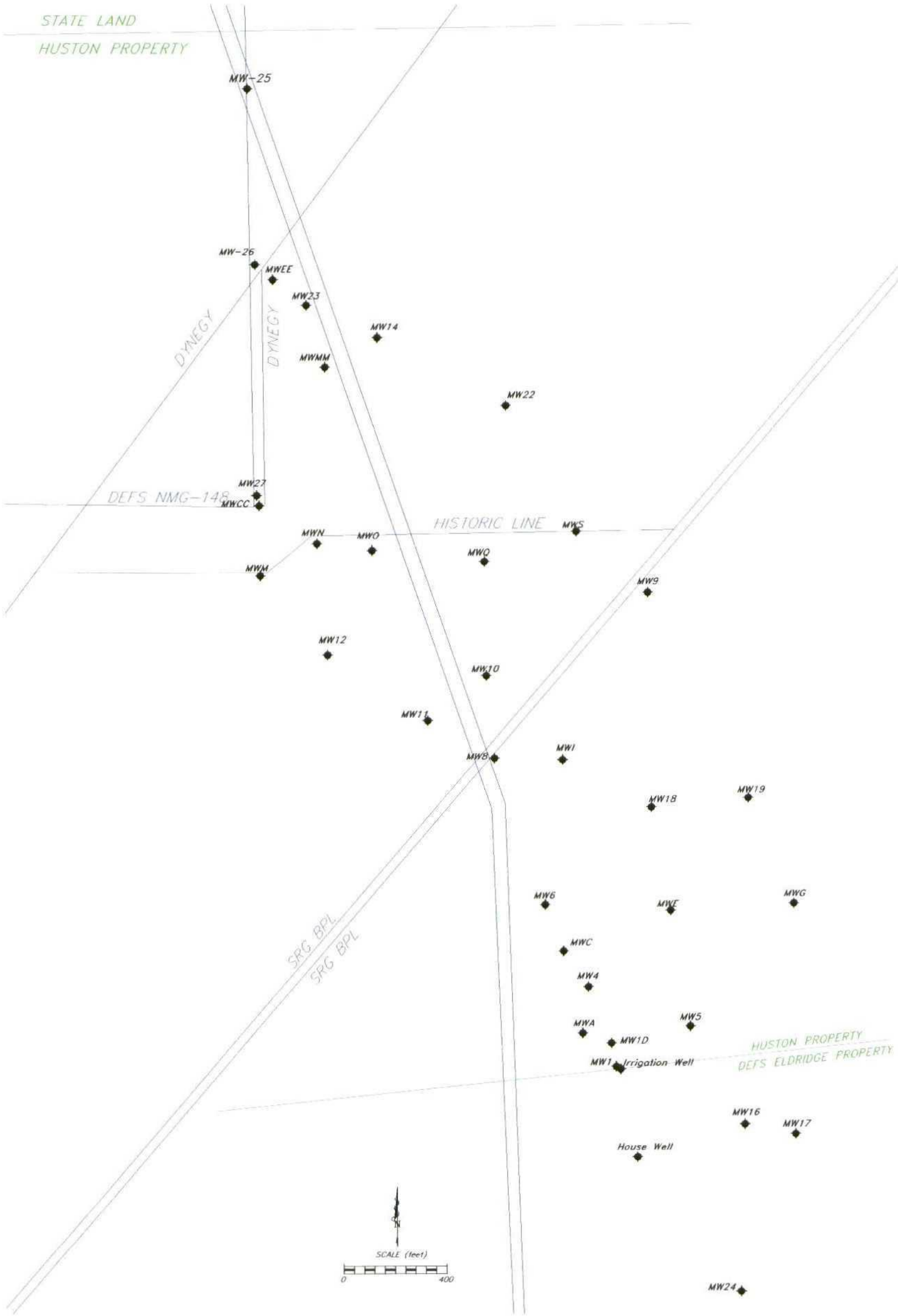


Figure 10 - Revised Groundwater Monitoring Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 1/05

ATTACHMENT A

LABORATORY ANALYTICAL REPORT

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

REMEDIACON

P.O. Box 302

Evergreen, CO 80437

Project: DEFS-DEFS (Eldridge) Ranch

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 4L15010

Report Date: 12/27/04

REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L15010-01	Water	12/13/04 16:30	12/15/04 10:00
DMW-1	4L15010-02	Water	12/13/04 17:15	12/15/04 10:00
MW-2	4L15010-03	Water	12/13/04 12:41	12/15/04 10:00
MW-3	4L15010-04	Water	12/13/04 15:25	12/15/04 10:00
MW-4	4L15010-05	Water	12/14/04 07:45	12/15/04 10:00
MW-5	4L15010-06	Water	12/13/04 13:26	12/15/04 10:00
MW-6	4L15010-07	Water	12/14/04 10:30	12/15/04 10:00
MW-7	4L15010-08	Water	12/13/04 14:24	12/15/04 10:00
MW-8	4L15010-09	Water	12/14/04 09:20	12/15/04 10:00
MW-9	4L15010-10	Water	12/13/04 15:59	12/15/04 10:00
MW-10	4L15010-11	Water	12/14/04 10:58	12/15/04 10:00
MW-11	4L15010-12	Water	12/14/04 12:15	12/15/04 10:00
MW-12	4L15010-13	Water	12/14/04 11:25	12/15/04 10:00
MW-13	4L15010-14	Water	12/14/04 09:10	12/15/04 10:00
MW-14	4L15010-15	Water	12/13/04 16:35	12/15/04 10:00
MW-15	4L15010-16	Water	12/13/04 15:00	12/15/04 10:00
MW-16	4L15010-17	Water	12/13/04 10:52	12/15/04 10:00
MW-17	4L15010-18	Water	12/13/04 11:24	12/15/04 10:00
MW-18	4L15010-19	Water	12/13/04 16:35	12/15/04 10:00
MW-19	4L15010-20	Water	12/13/04 15:26	12/15/04 10:00
MW-20	4L15010-21	Water	12/14/04 11:05	12/15/04 10:00
MW-21	4L15010-22	Water	12/14/04 07:45	12/15/04 10:00
MW-22	4L15010-23	Water	12/14/04 07:25	12/15/04 10:00
MW-23	4L15010-24	Water	12/13/04 15:55	12/15/04 10:00
MW-24 (MS/MSD)	4L15010-25	Water	12/13/04 11:58	12/15/04 10:00
MW-25	4L15010-26	Water	12/13/04 14:40	12/15/04 10:00
South Water Well	4L15010-27	Water	12/13/04 12:50	12/15/04 10:00
House Water Well	4L15010-28	Water	12/13/04 14:10	12/15/04 10:00
MW-A	4L15010-29	Water	12/13/04 15:50	12/15/04 10:00
MW-B	4L15010-30	Water	12/13/04 17:45	12/15/04 10:00
MW-C	4L15010-31	Water	12/14/04 10:00	12/15/04 10:00
MW-D	4L15010-32	Water	12/14/04 09:30	12/15/04 10:00
MW-E	4L15010-33	Water	12/14/04 08:55	12/15/04 10:00
MW-F	4L15010-34	Water	12/14/04 08:20	12/15/04 10:00

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-G	4L15010-35	Water	12/13/04 14:53	12/15/04 10:00
MW-H	4L15010-36	Water	12/14/04 07:46	12/15/04 10:00
MW-I	4L15010-37	Water	12/14/04 08:18	12/15/04 10:00
MW-J	4L15010-38	Water	12/14/04 08:49	12/15/04 10:00
MW-L	4L15010-39	Water	12/14/04 11:45	12/15/04 10:00
MW-M	4L15010-40	Water	12/14/04 10:50	12/15/04 10:00
MW-O	4L15010-41	Water	12/14/04 09:35	12/15/04 10:00
MW-P	4L15010-42	Water	12/14/04 08:40	12/15/04 10:00
MW-Q	4L15010-43	Water	12/14/04 08:35	12/15/04 10:00
MW-R	4L15010-44	Water	12/14/04 08:10	12/15/04 10:00
MW-S	4L15010-45	Water	12/14/04 08:10	12/15/04 10:00
MW-T	4L15010-46	Water	12/14/04 09:05	12/15/04 10:00
MW-AA	4L15010-47	Water	12/14/04 10:22	12/15/04 10:00
MW-BB	4L15010-48	Water	12/14/04 11:40	12/15/04 10:00
MW-DD	4L15010-49	Water	12/13/04 16:30	12/15/04 10:00
MW-FF	4L15010-50	Water	12/14/04 11:25	12/15/04 10:00
MW-GG	4L15010-51	Water	12/14/04 09:47	12/15/04 10:00
MW-HH	4L15010-52	Water	12/14/04 12:10	12/15/04 10:00
MW-II	4L15010-53	Water	12/14/04 11:36	12/15/04 10:00
MW-JJ	4L15010-54	Water	12/14/04 12:04	12/15/04 10:00
MW-KK	4L15010-55	Water	12/14/04 10:25	12/15/04 10:00
MW-LL	4L15010-56	Water	12/14/04 10:45	12/15/04 10:00
MW-MM	4L15010-57	Water	12/13/04 15:55	12/15/04 10:00
MW-NN	4L15010-58	Water	12/14/04 09:40	12/15/04 10:00
MW-OO	4L15010-59	Water	12/14/04 09:35	12/15/04 10:00
Duplicate A	4L15010-60	Water	12/13/04 12:50	12/15/04 10:00
Duplicate B	4L15010-61	Water	12/13/04 16:50	12/15/04 10:00
Duplicate C	4L15010-62	Water	12/14/04 13:15	12/15/04 10:00
Trip Blank	4L15010-63	Water	12/13/04 00:00	12/15/04 10:00

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L15010-01) Water									
Benzene	**0.462**	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.469**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0790**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.105**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0607**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*313 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		"	"	"	"	*S-04*
DMW-1 (4L15010-02) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	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		*94.5 %*	*80-120*		"	"	"	"	
MW-2 (4L15010-03) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	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		*94.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*80-120*		"	"	"	"	
MW-3 (4L15010-04) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	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		*99.5 %*	*80-120*		"	"	"	"	

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (4L15010-05) Water									
Benzene	**1.64**	0.0100	mg/L	10	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	**3.03**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.169**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.501**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.158**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*151 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*80.7 %*	*80-120*		"	"	"	"	
MW-5 (4L15010-06) Water									
Benzene	**0.196**	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.0215**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0222**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0195**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00677**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*158 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		"	"	"	"	
MW-6 (4L15010-07) Water									
Benzene	**0.00410**	0.00100	mg/L	1	EL41705	12/16/04	12/17/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00226**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		"	"	"	"	
MW-7 (4L15010-08) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		"	"	"	"	

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (4L15010-09) Water									
Benzene	**1.84**	0.0500	mg/L	50	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**1.76**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.145**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.510**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.149**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*198 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
MW-9 (4L15010-10) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
MW-10 (4L15010-11) Water									
Benzene	**2.26**	0.0500	mg/L	50	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.0668**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**J [0.0282]**	0.0500	"	"	"	"	"	"	J
Xylene (p/m)	**0.0622**	0.0500	"	"	"	"	"	"	
Xylene (o)	**J [0.0103]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
MW-11 (4L15010-12) Water									
Benzene	**6.40**	0.100	mg/L	100	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**2.38**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.166**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.252**	0.100	"	"	"	"	"	"	
Xylene (o)	**0.107**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*128 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	

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P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (4L15010-13) Water									
Benzene	**25.9**	0.100	mg/L	100	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**2.25**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.214**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.193**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0744]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-13 (4L15010-14) Water									
Benzene	**12.1**	0.100	mg/L	100	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.730**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.187**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.307**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0757]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*128 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	
MW-14 (4L15010-15) Water									
Benzene	**0.232**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.00121**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000225]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.000956]**	0.00100	"	"	"	"	"	"	J
Xylene (o)	**J [0.000243]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*92.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
MW-15 (4L15010-16) Water									
Benzene	**0.0620**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.136**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0252**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0582**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0132**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*2440 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16 (4L15010-17) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*110 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.5 %*		*80-120*	"	"	"	"	
MW-17 (4L15010-18) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*106 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*		*80-120*	"	"	"	"	
MW-18 (4L15010-19) Water									
Benzene	**0.0251**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.00419**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0133**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0176**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0115**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*500 %*		*80-120*	"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*99.5 %*		*80-120*	"	"	"	"	
MW-19 (4L15010-20) Water									
Benzene	**0.0107**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**J [0.000326]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000206]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.000427]**	0.00100	"	"	"	"	"	"	J
Xylene (o)	**J [0.000295]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*		*80-120*	"	"	"	"	

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-20 (4L15010-21) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*93.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
MW-21 (4L15010-22) Water									
Benzene	**3.07**	0.0100	mg/L	10	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.157**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.500**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**1.10**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.152**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1060 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
MW-22 (4L15010-23) Water									
Benzene	**0.314**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**J [0.000339]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000359]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.000795]**	0.00100	"	"	"	"	"	"	J
Xylene (o)	**J [0.000335]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*124 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
MW-23 (4L15010-24) Water									
Benzene	**3.29**	0.0100	mg/L	10	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**0.972**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.572**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**1.34**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.120**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*3520 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*123 %*	*80-120*		"	"	"	"	*S-04*

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-24 (MS/MSD) (4L15010-25) Water									
Benzene	ND	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	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		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
MW-25 (4L15010-26) Water									
Benzene	**0.00293**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**J [0.000922]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000964]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**0.00207**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000234]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	
South Water Well (4L15010-27) Water									
Benzene	**0.00197**	0.00100	mg/L	1	EL42209	12/16/04	12/16/04	EPA 8021B	
Toluene	**J [0.000625]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000680]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**0.00150**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000194]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
House Water Well (4L15010-28) Water									
Benzene	**0.0245**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.000310]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000266]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**0.00159**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00221**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*120 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-A (4L15010-29) Water									
Benzene	**1.22**	0.0100	mg/L	10	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**1.87**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.166**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.573**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.145**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*700 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
MW-B (4L15010-30) Water									
Benzene	**0.254**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.541**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.126**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.256**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.112**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*8050 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*149 %*	*80-120*		"	"	"	"	*S-04*
MW-C (4L15010-31) Water									
Benzene	**0.263**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.00761**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0370**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0145**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0167**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1060 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
MW-D (4L15010-32) Water									
Benzene	**0.0293**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.00494**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00475**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00692**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00187**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*830 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E (4L15010-33) Water									
Benzene	**0.325**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.00400**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0142**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0195**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00691**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*930 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
MW-F (4L15010-34) Water									
Benzene	**0.00559**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.000698]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000490]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**0.00139**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000435]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
MW-G (4L15010-35) Water									
Benzene	ND	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	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		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	
MW-H (4L15010-36) Water									
Benzene	**0.0327**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.0100**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0141**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0452**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00932**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1710 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	

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REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-I (4L15010-37) Water									
Benzene	**0.243**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.0390**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0698**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0255**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00292**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*366 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
MW-J (4L15010-38) Water									
Benzene	ND	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	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		*98.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	
MW-L (4L15010-39) Water									
Benzene	**21.3**	0.100	mg/L	100	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.711**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.210**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.162**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0698]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
MW-M (4L15010-40) Water									
Benzene	**16.1**	0.100	mg/L	100	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**9.89**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.317**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.618**	0.100	"	"	"	"	"	"	
Xylene (o)	**0.174**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*186 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	

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MW-O (4L15010-41) Water									
Benzene	**11.5**	0.100	mg/L	100	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.528**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.149**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.220**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0386]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*151 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
MW-P (4L15010-42) Water									
Benzene	**5.04**	0.100	mg/L	100	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.0455]**	0.100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0403]**	0.100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.0766]**	0.100	"	"	"	"	"	"	J
Xylene (o)	**J [0.0129]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*120 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*80-120*		"	"	"	"	
MW-Q (4L15010-43) Water									
Benzene	**3.86**	0.0200	mg/L	20	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.0692**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0337**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0656**	0.0200	"	"	"	"	"	"	
Xylene (o)	**J [0.00924]**	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*164 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
MW-R (4L15010-44) Water									
Benzene	**0.00455**	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	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		*116 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-S (4L15010-45) Water									
Benzene	ND	0.00100	mg/L	1	EL42210	12/17/04	12/17/04	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		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
MW-T (4L15010-46) Water									
Benzene	**1.68**	0.0200	mg/L	20	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.00736]**	0.0200	"	"	"	"	"	"	J
Ethylbenzene	**J [0.00470]**	0.0200	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.00940]**	0.0200	"	"	"	"	"	"	J
Xylene (o)	ND	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
MW-AA (4L15010-47) Water									
Benzene	**3.03**	0.0100	mg/L	10	EL42210	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.0133**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0189**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0169**	0.0100	"	"	"	"	"	"	
Xylene (o)	**J [0.00690]**	0.0100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*124 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
MW-BB (4L15010-48) Water									
Benzene	**16.1**	0.0200	mg/L	20	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.146**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.255**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0580**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.158**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*146 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		"	"	"	"	

REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-DD (4L15010-49) Water									
Benzene	**1.86**	0.00500	mg/L	5	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.0281**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0818**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.142**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0154**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*910 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
MW-FF (4L15010-50) Water									
Benzene	**15.7**	0.0200	mg/L	20	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.0234**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.152**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0265**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.0357**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*136 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
MW-GG (4L15010-51) Water									
Benzene	**3.96**	0.0200	mg/L	20	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.0687**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0688**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0308**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.0316**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		"	"	"	"	
MW-HH (4L15010-52) Water									
Benzene	**11.3**	0.0200	mg/L	20	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**1.36**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.142**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.150**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.0693**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*190 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-II (4L15010-53) Water									
Benzene	**5.28**	0.0200	mg/L	20	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.601**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0974**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0975**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.0518**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*162 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
MW-JJ (4L15010-54) Water									
Benzene	**16.7**	0.0500	mg/L	50	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.924**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.241**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.0844**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.0592**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*120 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
MW-KK (4L15010-55) Water									
Benzene	**21.7**	0.100	mg/L	100	EL42211	12/21/04	12/23/04	EPA 8021B	
Toluene	**1.00**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.139**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0987]**	0.100	"	"	"	"	"	"	J
Xylene (o)	**J [0.0341]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		"	"	"	"	
MW-LL (4L15010-56) Water									
Benzene	**13.2**	0.0500	mg/L	50	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**3.54**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.280**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.479**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.117**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*163 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		"	"	"	"	

REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-MM (4L15010-57) Water									
Benzene	**0.478**	0.00100	mg/L	1	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.00488**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0419**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0116**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00422**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*171 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
MW-NN (4L15010-58) Water									
Benzene	**29.9**	0.0500	mg/L	50	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**0.758**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.189**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.137**	0.0500	"	"	"	"	"	"	
Xylene (o)	J [**0.0458**]	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*151 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
MW-OO (4L15010-59) Water									
Benzene	**29.7**	0.0500	mg/L	50	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**7.46**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.275**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.508**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.134**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*208 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
Duplicate A (4L15010-60) Water									
Benzene	**0.174**	0.00100	mg/L	1	EL42211	12/21/04	12/23/04	EPA 8021B	
Toluene	**0.0214**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0218**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0217**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00682**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*910 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate B (4L15010-61) Water									
Benzene	**0.0370**	0.00100	mg/L	1	EL42211	12/21/04	12/23/04	EPA 8021B	
Toluene	**0.00967**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0149**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0188**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0123**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*520 %*		*80-120*	"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*105 %*		*80-120*	"	"	"	"	
Duplicate C (4L15010-62) Water									
Benzene	**7.54**	0.0500	mg/L	50	EL42211	12/21/04	12/21/04	EPA 8021B	
Toluene	**2.79**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.151**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.209**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.120**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*174 %*		*80-120*	"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*85.0 %*		*80-120*	"	"	"	"	
Trip Blank (4L15010-63) Water									
Benzene	ND	0.00100	mg/L	1	EL42211	12/21/04	12/23/04	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		*110 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*80-120*	"	"	"	"	

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 EL41705 - EPA 5030C (GC)										
Blank (EL41705-BLK1)				Prepared & Analyzed: 12/16/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*94.4*		*ug/l*	*100*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*96.8*		*"*	*100*		*96.8*	*80-120*			
LCS (EL41705-BS1)				Prepared & Analyzed: 12/16/04						
Benzene	99.0		ug/l	100		99.0	80-120			
Toluene	99.5		"	100		99.5	80-120			
Ethylbenzene	99.6		"	100		99.6	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*108*		*"*	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*80-120*			
Calibration Check (EL41705-CCV1)				Prepared & Analyzed: 12/16/04						
Benzene	93.3		ug/l	100		93.3	80-120			
Toluene	94.9		"	100		94.9	80-120			
Ethylbenzene	93.1		"	100		93.1	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	96.4		"	100		96.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*103*		*"*	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*80-120*			
Matrix Spike (EL41705-MS1)	**Source: 4L12004-06**			Prepared & Analyzed: 12/16/04						
Benzene	101		ug/l	100	ND	101	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	101		"	100	ND	101	80-120			
Xylene (p/m)	208		"	200	ND	104	80-120			
Xylene (o)	100		"	100	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*113*		*"*	*100*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		*"*	*100*		*113*	*80-120*			

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 EL41705 - EPA 5030C (GC)										
Matrix Spike Dup (EL41705-MSD1)	**Source: 4L12004-06**			Prepared & Analyzed: 12/16/04						
Benzene	94.2		ug/l	100	ND	94.2	80-120	6.97	20	
Toluene	96.0		"	100	ND	96.0	80-120	5.08	20	
Ethylbenzene	94.8		"	100	ND	94.8	80-120	6.33	20	
Xylene (p/m)	200		"	200	ND	100	80-120	3.92	20	
Xylene (o)	97.3		"	100	ND	97.3	80-120	2.74	20	
Surrogate: a,a,a-Trifluorotoluene	*102*		*"*	*100*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*117*		*"*	*100*		*117*	*80-120*			
Batch EL42209 - EPA 5030C (GC)										
Blank (EL42209-BLK1)				Prepared & Analyzed: 12/16/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*19.5*		*ug/l*	*20.0*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.7*		*"*	*20.0*		*88.5*	*80-120*			
LCS (EL42209-BS1)				Prepared & Analyzed: 12/16/04						
Benzene	86.6		ug/l	100		86.6	80-120			
Toluene	93.2		"	100		93.2	80-120			
Ethylbenzene	91.1		"	100		91.1	80-120			
Xylene (p/m)	192		"	200		96.0	80-120			
Xylene (o)	94.4		"	100		94.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*19.4*		*"*	*20.0*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.4*		*"*	*20.0*		*107*	*80-120*			

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 EL42209 - EPA 5030C (GC)										
Calibration Check (EL42209-CCV1)				Prepared & Analyzed: 12/16/04						
Benzene	86.4		ug/l	100		86.4	80-120			
Toluene	93.5		"	100		93.5	80-120			
Ethylbenzene	89.5		"	100		89.5	80-120			
Xylene (p/m)	187		"	200		93.5	80-120			
Xylene (o)	94.6		"	100		94.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*18.7*		"	*20.0*		*93.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.4*		"	*20.0*		*97.0*	*80-120*			
Matrix Spike (EL42209-MS1)		**Source: 4L15010-25**		Prepared & Analyzed: 12/16/04						
Benzene	84.6		ug/l	100	ND	84.6	80-120			
Toluene	90.2		"	100	ND	90.2	80-120			
Ethylbenzene	85.6		"	100	ND	85.6	80-120			
Xylene (p/m)	178		"	200	ND	89.0	80-120			
Xylene (o)	88.5		"	100	ND	88.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*17.6*		"	*20.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.6*		"	*20.0*		*88.0*	*80-120*			
Matrix Spike Dup (EL42209-MSD1)		**Source: 4L15010-25**		Prepared & Analyzed: 12/16/04						
Benzene	86.9		ug/l	100	ND	86.9	80-120	2.68	20	
Toluene	90.0		"	100	ND	90.0	80-120	0.222	20	
Ethylbenzene	87.6		"	100	ND	87.6	80-120	2.31	20	
Xylene (p/m)	183		"	200	ND	91.5	80-120	2.77	20	
Xylene (o)	91.7		"	100	ND	91.7	80-120	3.55	20	
Surrogate: a,a,a-Trifluorotoluene	*17.5*		"	*20.0*		*87.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.2*		"	*20.0*		*101*	*80-120*			
Batch EL42210 - EPA 5030C (GC)										
Blank (EL42210-BLK1)				Prepared & Analyzed: 12/17/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*19.0*		*ug/l*	*20.0*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.6*		"	*20.0*		*83.0*	*80-120*			

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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 EL42210 - EPA 5030C (GC)										
LCS (EL42210-BS1)				Prepared & Analyzed: 12/17/04						
Benzene	91.6		ug/l	100		91.6	80-120			
Toluene	93.7		"	100		93.7	80-120			
Ethylbenzene	89.1		"	100		89.1	80-120			
Xylene (p/m)	186		"	200		93.0	80-120			
Xylene (o)	93.0		"	100		93.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*23.7*		*"*	*20.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.6*		*"*	*20.0*		*108*	*80-120*			
LCS Dup (EL42210-BSD1)				Prepared & Analyzed: 12/17/04						
Benzene	86.7		ug/l	100		86.7	80-120	5.50	20	
Toluene	88.6		"	100		88.6	80-120	5.60	20	
Ethylbenzene	85.0		"	100		85.0	80-120	4.71	20	
Xylene (p/m)	176		"	200		88.0	80-120	5.52	20	
Xylene (o)	90.3		"	100		90.3	80-120	2.95	20	
Surrogate: a,a,a-Trifluorotoluene	*16.2*		*"*	*20.0*		*81.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.8*		*"*	*20.0*		*84.0*	*80-120*			
Calibration Check (EL42210-CCV1)				Prepared & Analyzed: 12/17/04						
Benzene	89.5		ug/l	100		89.5	80-120			
Toluene	99.6		"	100		99.6	80-120			
Ethylbenzene	95.7		"	100		95.7	80-120			
Xylene (p/m)	198		"	200		99.0	80-120			
Xylene (o)	97.1		"	100		97.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*22.0*		*"*	*20.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.5*		*"*	*20.0*		*102*	*80-120*			
Matrix Spike (EL42210-MS1)	**Source: 4L15010-35**			Prepared & Analyzed: 12/17/04						
Benzene	105		ug/l	100	ND	105	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	104		"	100	ND	104	80-120			
Xylene (p/m)	206		"	200	ND	103	80-120			
Xylene (o)	109		"	100	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*19.6*		*"*	*20.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.0*		*"*	*20.0*		*100*	*80-120*			

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 EL42211 - EPA 5030C (GC)										
Blank (EL42211-BLK1)				Prepared & Analyzed: 12/21/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*20.1*		*ug/l*	*20.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.7*		*"*	*20.0*		*88.5*	*80-120*			
LCS (EL42211-BS1)				Prepared & Analyzed: 12/21/04						
Benzene	102		ug/l	100		102	80-120			
Toluene	103		"	100		103	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	204		"	200		102	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*19.6*		*"*	*20.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.3*		*"*	*20.0*		*106*	*80-120*			
LCS Dup (EL42211-BSD1)				Prepared & Analyzed: 12/21/04						
Benzene	101		ug/l	100		101	80-120	0.985	20	
Toluene	100		"	100		100	80-120	2.96	20	
Ethylbenzene	99.3		"	100		99.3	80-120	1.70	20	
Xylene (p/m)	202		"	200		101	80-120	0.985	20	
Xylene (o)	99.1		"	100		99.1	80-120	6.73	20	
Surrogate: a,a,a-Trifluorotoluene	*19.9*		*"*	*20.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.6*		*"*	*20.0*		*98.0*	*80-120*			
Calibration Check (EL42211-CCV1)				Prepared & Analyzed: 12/21/04						
Benzene	114		ug/l	100		114	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	99.2		"	100		99.2	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	98.1		"	100		98.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*18.3*		*"*	*20.0*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.4*		*"*	*20.0*		*82.0*	*80-120*			

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 EL42211 - EPA 5030C (GC)										
Matrix Spike (EL42211-MS1)	**Source: 4L21001-01**			Prepared & Analyzed: 12/21/04						
Benzene	104		ug/l	100	0.866	103	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	105		"	100	ND	105	80-120			
Xylene (p/m)	211		"	200	ND	106	80-120			
Xylene (o)	107		"	100	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*21.9*		*"*	*20.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*		*"*	*20.0*		*110*	*80-120*			

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: Raland K. Tuttle Date: 12/27/2004

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart
Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370 Fax No: (720) 528-8132
Sampler Signature: Dale T. Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

1 of 7

Analyze For: TCLP: / TOTAL: X (BTEX)

LAB # (lab use only) 4L15010	FIELD CODE	Date Sampled	Time Sampled	No. of Containers (40ml glass)	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	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 8260	RCI	N.O.R.M.					RUSH TAT (Pre-Schedule)	Standard TAT
-01	MW-1	12/13/04	1630	2	✓		✓					✓											✓								✓
-02	DMW-1	12/13/04	1715	2	✓		✓					✓											✓								✓
-03	MW-2	12/13/04	1241	2	✓		✓					✓											✓								✓
-04	MW-3	12/13/04	1525	2	✓		✓					✓											✓								✓
-05	MW-4	12/14/04	0745	2	✓		✓					✓											✓								✓
-06	MW-5	12/13/04	1326	2	✓		✓					✓											✓								✓
-07	MW-6	12/14/04	1030	2	✓		✓					✓											✓								✓
-08	MW-7	12/13/04	1424	2	✓		✓					✓											✓								✓
-09	MW-8	12/14/04	0920	2	✓		✓					✓											✓								✓
-10	MW-9	12/13/04	1559	2	✓		✓					✓											✓								✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.5 C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Dale T. Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT: [signature]	12-15-04	1000

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370 Fax No: (720) 528-8132
Sampler Signature: Dale T Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

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LAB # (lab use only) 41504 10	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TCLP: Cations (Ca, Mg, Na, K)	TCLP: Anions (Cl, SO4, CO3, HCO3)	TCLP: SAR / ESP / CEC	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	TOTAL: RCI	TOTAL: N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-11	MW-10	12/14/04	1058	2	✓		✓					✓											✓				✓
-12	MW-11	12/14/04	1215	2	✓		✓					✓											✓				✓
-13	MW-12	12/14/04	1125	2	✓		✓					✓											✓				✓
-14	MW-13	12/14/04	0910	2	✓		✓					✓											✓				✓
-15	MW-14	12/13/04	1635	2	✓		✓					✓											✓				✓
-16	MW-15	12/13/04	1500	2	✓		✓					✓											✓				✓
-17	MW-16	12/13/04	1052	2	✓		✓					✓											✓				✓
-18	MW-17	12/13/04	1124	2	✓		✓					✓											✓				✓
-19	MW-18	12/13/04	1635	2	✓		✓					✓											✓				✓
-20	MW-19	12/13/04	1526	2	✓		✓					✓											✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Dale T Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jaime McKinney	12-15-04	1000

Environmental Lab of Texas

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Odessa, Texas 79765

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart

Company Name: Remediacon, Inc.

Company Address: P. O. Box 302

City/State/Zip: Evergreen, Colorado 80437

Telephone No: (303) 674-4370

Fax No: (720) 528-8132

Sampler Signature: [signature]

Project Name: DEFS - DEFS (Eldridge) Ranch

Project #:

Project Loc: Lea County, New Mexico

PO #:

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Analyze For: TCLP: / TOTAL: ✓ (BTEX 8021B/5030 circled)

LAB # (lab use only) 4L15010	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Water	Sludge	Soil	Other (specify)	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 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-21	MW-20	12/14/04	1105	2	✓		✓					✓											✓				✓
-22	MW-21	12/14/04	0745	2	✓		✓					✓											✓				✓
-23	MW-22	12/14/04	0725	2	✓		✓					✓											✓				✓
-24	MW-23	12/13/04	1555	2	✓		✓					✓											✓				✓
-25	MW-24 (MS/MSD)	12/13/04	1158	6	✓		✓					✓											✓				✓
-26	MW-25	12/13/04	1440	2	✓		✓					✓											✓				✓
-27	South Water Well	12/13/04	1250	2	✓		✓					✓											✓				✓
-28	House Water Well	12/13/04	1410	2	✓		✓					✓											✓				✓
-29	MW-A	12/13/04	1550	2	✓		✓					✓											✓				✓
-30	MW-B	12/13/04	1745	2	✓		✓					✓											✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.5°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[signature]	12-15-04	1000

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart
Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370
Fax No: (720) 528-8132
Sampler Signature: Dale T Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

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4L15010

Analyze For: TCLP: / TOTAL: X (BTEX 8021B/5030 circled)

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Water	Sludge	Soil	Other (specify):	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 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule	Standard TAT
-31	MW-C	12/14/04	1000	2	✓		✓					✓											✓				✓
-32	MW-D	12/14/04	0930	2	✓		✓					✓											✓				✓
-33	MW-E	12/14/04	0855	2	✓		✓					✓											✓				✓
-34	MW-F	12/14/04	0820	2	✓		✓					✓											✓				✓
-35	MW-G	12/13/04	1453	2	✓		✓					✓											✓				✓
-36	MW-H	12/14/04	0746	2	✓		✓					✓											✓				✓
-37	MW-I	12/14/04	0818	2	✓		✓					✓											✓				✓
-38	MW-J	12/14/04	0849	2	✓		✓					✓											✓				✓
-39	MW-L	12/14/04	1145	2	✓		✓					✓											✓				✓
-40	MW-M	12/14/04	1050	2	✓		✓					✓											✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Relinquished by:	Date	Time	Received by:	Date	Time
Dale T Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT: Jeanne McMurray	12-15-04	1000

Sample Containers Intact? (Y) N
Temperature Upon Receipt: [illegible]
Laboratory Comments: [illegible]

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart
Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370 Fax No: (720) 528-8132
Sampler Signature: Dale T. Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

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LAB # (lab use only) 41501D	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4/Bottles/455	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: 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	TOTAL: BTEX 8021B/5030 or BTEX 8260 X	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-41	MW-O	12/14/04	0935	2	✓		✓					✓											✓				✓
-42	MW-P	12/14/04	0840	2	✓		✓					✓											✓				✓
-43	MW-Q	12/14/04	0935	2	✓		✓					✓											✓				✓
-44	MW-R	12/14/04	0810	2	✓		✓					✓											✓				✓
-45	MW-S	12/14/04	0810	2	✓		✓					✓											✓				✓
-46	MW-T	12/14/04	0905	2	✓		✓					✓											✓				✓
-47	MW-AA	12/14/04	1022	2	✓		✓					✓											✓				✓
-48	MW-BB	12/14/04	1140	2	✓		✓					✓											✓				✓
-49	MW-DD	12/13/04	1630	2	✓		✓					✓											✓				✓
-50	MW-FF	12/14/04	1125	2	✓		✓					✓											✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.5°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Dale T. Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[illegible]	12-15-04	1000

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart
Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370
Fax No: (720) 528-8132
Sampler Signature: Dale Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

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4L1500

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Analyze For: TOTAL: 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 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-51	MW-GG	12/14/04	0947	2	✓		✓					✓												✓				✓
-52	MW-HH	12/14/04	1210	2	✓		✓					✓												✓				✓
-53	MW-II	12/14/04	1136	2	✓		✓					✓												✓				✓
-54	MW-JJ	12/14/04	1204	2	✓		✓					✓												✓				✓
-55	MW-KK	12/14/04	1025	2	✓		✓					✓												✓				✓
-56	MW-LL	12/14/04	1045	2	✓		✓					✓												✓				✓
-57	MW-MM	12/13/04	1555	2	✓		✓					✓												✓				✓
-58	MW-NN	12/14/04	0940	2	✓		✓					✓												✓				✓
-59	MW-OO	12/14/04	0935	2	✓		✓					✓												✓				✓
-60	Duplicate A	12/13/04	1250	2	✓		✓					✓												✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.5 C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Dale Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jessica McCarley	12-15-04	1000

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Telephone No: (303) 674-4370

Fax No: (720) 528-8132

Sampler Signature: Dal T Littlejohn

Project Name: DEFS - DEFS (Eldridge) Ranch

Project #:

Project Loc: Lea County, New Mexico

PO #:

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4L15010

Preservative: Ice, HNO_3, HCl, NaOH, H_2SO_4, None, Other (Specify). Matrix: Water, Sludge, Soil, Other (specify). Analyze For (TCLP / TOTAL): 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 8260 (TOTAL ✓); RCI; N.O.R.M.

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 40ml glass	Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Water	Sludge	Soil	Other (specify)	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 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-61	Duplicate B	12/13/04	1650	2	✓		✓					✓											✓				✓
-62	Duplicate C	12/14/04	1315	2	✓		✓					✓											✓				✓
-63	Trip Blank	—	—	2	✓		✓					✓											✓				✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments: 0.5 C

Relinquished by:	Date	Time	Received by:	Date	Time
Dal T Littlejohn	12/15	1000			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanie McMurray	12-15-04	1055

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Remediacon

Date/Time: 12-15-04 @ 1000

Order #: 4L15010

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	0.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

REMEDIACON

P.O. Box 302

Evergreen, CO 80437

Project: DEFS-DEFS (Eldridge) Ranch

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 4L20007

Report Date: 12/27/04

REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Irrigation Well (0412171155)	4L20007-01	Water	12/17/04 11:55	12/20/04 11:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

REMEDIACON	Project: DEFS-DEFS (Eldridge) Ranch	Fax: 720-528-8132
P.O. Box 302	Project Number: None Given	**Reported:**
Evergreen CO, 80437	Project Manager: Michael Stewart	12/27/04 10:35

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Irrigation Well (0412171155) (4L20007-01) Water									
Benzene	**0.321**	0.0100	mg/L	10	EL42211	12/21/04	12/23/04	EPA 8021B	
Toluene	**0.295**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0499**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.120**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.0353**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*276 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		"	"	"	"	

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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 EL42211 - EPA 5030C (GC)										
Blank (EL42211-BLK1)				Prepared & Analyzed: 12/21/04						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*20.1*		*ug/l*	*20.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.7*		*"*	*20.0*		*88.5*	*80-120*			
LCS (EL42211-BS1)				Prepared & Analyzed: 12/21/04						
Benzene	102		ug/l	100		102	80-120			
Toluene	103		"	100		103	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	204		"	200		102	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*19.6*		*"*	*20.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.3*		*"*	*20.0*		*106*	*80-120*			
LCS Dup (EL42211-BSD1)				Prepared & Analyzed: 12/21/04						
Benzene	101		ug/l	100		101	80-120	0.985	20	
Toluene	100		"	100		100	80-120	2.96	20	
Ethylbenzene	99.3		"	100		99.3	80-120	1.70	20	
Xylene (p/m)	202		"	200		101	80-120	0.985	20	
Xylene (o)	99.1		"	100		99.1	80-120	6.73	20	
Surrogate: a,a,a-Trifluorotoluene	*19.9*		*"*	*20.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.6*		*"*	*20.0*		*98.0*	*80-120*			
Calibration Check (EL42211-CCV1)				Prepared & Analyzed: 12/21/04						
Benzene	114		ug/l	100		114	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	99.2		"	100		99.2	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	98.1		"	100		98.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*18.3*		*"*	*20.0*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.4*		*"*	*20.0*		*82.0*	*80-120*			

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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 EL42211 - EPA 5030C (GC)										
Matrix Spike (EL42211-MS1)	**Source: 4L21001-01**			Prepared & Analyzed: 12/21/04						
Benzene	104		ug/l	100	0.866	103	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	105		"	100	ND	105	80-120			
Xylene (p/m)	211		"	200	ND	106	80-120			
Xylene (o)	107		"	100	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*21.9*		"	*20.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*		"	*20.0*		*110*	*80-120*			

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: Raland K. Tuttle Date: 12/27/2004

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Michael H. Stewart
Company Name: Remediacon, Inc.
Company Address: P. O. Box 302
City/State/Zip: Evergreen, Colorado 80437
Telephone No: (303) 674-4370
Fax No: (720) 528-8132
Sampler Signature:

Project Name: DEFS - DEFS (Eldridge) Ranch
Project #:
Project Loc: Lea County, New Mexico
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: 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/~~8260 or BTEX 8260~~	RCI	N.O.R.M.						RUSH TAT (Pre-Schedule)	Standard TAT
4L20007 -01	Irrigation Well (041217 1155)	12/17/04	1155	2	✓		✓					✓												✓									✓

Special Instructions: Send fax copy of lab report to Michael Stewart, sent original lab report and invoce to Stephen Weathers, Duke Energy Field Services, 303 17th Street, Suite 2500, Denver, CO 80202

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
KCC 5°C

Relinquished by:	Date	Time	Received by:	Date	Time
	12/20/04	1100			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Kalei AK	12-20-04	1100

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Remediation

Date/Time: 12-20-04 @ 1100

Order #: 4L20007

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	0.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

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Variance Documentation:

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

Regarding:

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_____

Corrective Action Taken:

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