AP - 33

ANNUAL MONITORING REPORT

YEAR(S):

8/24/2004

Duke Energy®
Field Services

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

303 595 3331

August 24, 2004

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

RE: Summary of September 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 September 2004 Groundwater Monitoring Report 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.

Included in the summary is a section that discusses modifying the groundwater monitoring program. Upon your approval, DEFS will implement the changes. The next sampling event is scheduled for the week of December 13, 2004. An official notification of the groundwater sampling event will be sent via e-mail.

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

Stephen Weathers P.G.
Sr. Environmental Specialist

enclosure

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

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

December 1, 2004

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

Subject: Summary of September 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 September 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). In that report, DEFS committed to continuing two activities independent of the ASIR review timeframe. The first activity is the on-going quarterly groundwater monitoring program. The second activity is the continued removal the free phase hydrocarbons (FPH) from all applicable wells. Product removal pumps are used to extract the product from wells MW-27 and MW-CC. The remaining wells contain product-only bailers that are emptied twice weekly.

There are 28 monitoring wells, 35 product 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. DEFS directed that all wells be sampled to provide four quarters of data over the four seasons prior to reducing the scope of the monitoring program. The September 2004 episode is the fourth episode completed under this program. A recommended revised monitoring program based upon evaluation of the four quarters of monitoring data along with the remainder of the historic data is presented in the last section of this letter.

SUMMARY OF FIELD MONITORING ACTIVITIES AND RESULTS

The groundwater monitoring activities were completed the week of September 21, 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 existing and monitoring wells on September 20, 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).

Hydrographs for the wells with the longest periods of record are included in Figure 2. The increases in water levels from March 2004 to June 2004 resulted from the heavy rains in April 2004 prior to returning to their more historic trends. The hydraulic relationships between the wells remained constant with the historic trends. The uniform groundwater fluctuations indicate that equilibrated steady-state conditions are present within the study area.

Water table contours based upon the corrected September 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. Figure 3 demonstrates that the groundwater flow patterns remain constant with the historical trends. The flow is southeast toward the north-south trending swale on the Huston property. It then deflects to a more north-south alignment in the vicinity of the Huston-DEFS Eldridge property boundary.

The vertical groundwater gradient is measured between wells MW-1 and MW-1D. The 3.92-foot head difference between these wells slightly exceeds the historic range of 3.55 to 3.58 feet.

Product Thickness Measurements

The product thickness measurements are summarized on Table 3. Well MW-18 has been free of FPH since June 2003. Wells MW-8 and MW-11 have not had measurable FPH since before the spring rains in March 2004. Wells MW-23, MW-26, MW-27, MW-N MW-CC, and MW-EE continue to produce FPH. Active (solar powered) systems are currently installed and removing FPH from MW-27 and adjacent MW-CC. The remaining wells (MW-23, MW-26, MW-N and MW-EE) all contain passive bailers that are checked and emptied manually twice a week. Over 1,035 gallons of FPH have been removed from all wells, including MW-8, MW-11 and MW-18, as of November 16, 2004.

Groundwater Sampling

Representative groundwater samples were collected from all wells that did not contain FPH on September 21 and September 22, 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 September 2004 episode are shown on Figure 4. 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 benzene distribution shown in Figure 4 is similar to the historic patterns. There are, however, locations where important temporal changes are present as will be explained below.

Figure 5 is the benzene concentration verses time plot for MW-14 that is located downgradient from the release associated with MW-26 (Figure 1). The benzene concentrations continue to fall at a discernable rate. The plume in this area thus appears to be contracting in a manner indicative of an effective source-control program.

Figure 6 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 benzene concentrations appear to be stabilizing in wells MW-4, MW-10 and MW-13 after an initial decline. The benzene concentration in well MW-12 also declined; however, the overall concentration trend for this well remains upward.

Figure 7 shows the benzene concentrations for wells MW-5, MW-6 and MW-19 north of the Eldridge border. Well MW-5 has receded from its high value in June; however, the June and September 2004 concentrations remain the highest recorded for this well. The concentrations in well MW-6 continue to increase over time. The concentration in

MW-19 is either steady or declining slightly. Wells MW-5 and MW-6 will have to be monitored regularly to evaluate potential plume expansion. Well MW-19 should be checked periodically, but not necessarily quarterly, to evaluate the state of the hydrocarbon plumes in this area.

Finally, Figure 8 shows the benzene concentration over time for the former house well and for well MW-1. The BTEX concentrations in the former house well have now fallen to below the laboratory reporting limit concentration of 0.001 mg/l. The benzene concentrations in MW-1 have increased in the June 2004 and September 2004 sampling episodes.

The results discussed above indicate contraction of the overall hydrocarbon plume but with some internal changes that probably result from continued bioremediation and enhanced precipitation.

Suggested Monitoring Program Modifications

Many of the wells on the Huston property can be abandoned without affecting the integrity of the monitoring program. The proposed well abandonment program is shown on Figure 9. The wells in the revised monitoring program are shown in Figure 10.

The proposed program calls for the plugging of 26 wells. Twenty two of the wells are temporary wells that were installed during the November/December 2003 characterization program. They are not needed for the continued groundwater monitoring program. Four pre-existing wells should also be plugged and abandoned, including MW-3, MW-13, MW-15, and MW-21. None of these wells are boundary wells. In addition, none of these wells provide the best indication of changes within the source areas or downgradient from them. The casing will be backfilled with hydrated bentonite pellets if it cannot be pulled or if it separates above the bottom of the casing string.

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.

The temporary wells do not have surface protectors and concrete aprons. They will be plugged and abandoned by pulling the casing and backfilling the annular space with hydrated bentonite pellets.

The four monitoring wells will be abandoned by removing the surface protector and apron and then attempting to pull the casing. The annular space will be backfilled with hydrated bentonite pellets if the casing can be pulled. The casing will be backfilled with hydrated bentonite pellets if it cannot be pulled or if it separates above the bottom of the casing string.

These wells would be plugged as part of the next scheduled monitoring episode in December. Fluid levels in all wells would be measured one last time prior to the initiation of abandonment. The wells proposed to be abandoned will be sampled, and they will not be plugged, if permission to proceed by OCD has not been received prior to starting the monitoring episode.

Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

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 – (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-K	Trident	11/03	26	10-25	8-26
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

All units in feet
Minimum of 2 feet of pelletized bentonite on top of all sand packs.

Table 2 - Groundwater Elevations Corrected for Free Product When Present

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
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
MW 1D					3595.12	3595.03	3594.81	3594.90	3594.92	3594.91	3595.52	3594.67
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
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
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
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
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
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
MW-8		3605.22	3602.50	3602.33	3602.34	3602.25	3602.00	3602.00	3602.13	3601.98	3619.49	3602.12
MW-9		3604.78	3601.14	3600.91	3601.05	3600.91	3600.62	3600.66	3600.66	3600.67	3601.43	3600.74
MW-10		3606.67	3603.96	3603.76	3603.74	3603.67	3603.41	3603.39	3603.38	3603.36	3604.15	3603.55
MW-11		3606.16	3603.64	3602.47	3603.39	3603.32	3603.04	3603.07	3603.04	3603.00	3620.96	3603.22
MW-12		3607.44	3604.87	3604.69	3604.60	3604.54	3604.36	3604.32	3604.27	3604.23	3604.89	3604.44
MW-13		3608.80	3605.01	3604.79	3604.79	3604.70	3604.43	3604.40	3604.39	3604.37	3605.24	3605.58
MW-14		3608.66	3606.04	3605.85	3605.81	3605.74	3605.51	3605.47	3605.45	3605.43	3606.23	3605.67
MW-15				3608.42	3608.43	3608.43	3608.41	3608.41	3608.40	3608.38	3608.50	3608.44
MW-16				3592.88	3593.10	3592.88	3592.87	NM	3592.82	3592.84	3593.38	3592.80
MW-17				3592.92	3593.17	3592.98	3592.72	NM	3592.89	3592.92	3593.32	3592.79
MW-18				3600.19	3600.42	3600.24	3599.91	3600.04	3600.06	3600.08	3600.75	3600.04
MW-19				3599.70	3600.05	3599.78	3599.45	3599.64	3599.67	3599.70	3600.31	3599.54
MW-20				3605.44	3605.32	3605.26	3605.14	3605.09	3605.04	3604.99	3605.41	3605.13
MW-21				3606.29	3606.26	3606.22	3606.06	3606.04	3606.02	3606.00	3606.70	3606.26
MW-22				3605.80	3605.81	3605.73	3605.45	3605.44	3605.43	3605.41	3606.22	3605.63
MW-23				3607.55	3607.50	3607.46	3607.26	3607.24	3607.21	3607.19	3607.82	3606.41
MW-24					3587.76	3587.66	3587.47	NM	3587.56	3587.56	3588.04	3587.63
MW-25					3611.96	3611.94	3611.89	3611.86	3611.84	3611.81	3612.12	3611.97
MW-26					3609.37	3609.36	3609.20	3609.18	3609.14	3609.13	3609.62	3609.35
MW-27					3606.23	3606.17	3605.86	3606.09	3605.85	3605.81	3606.67	3606.04
North Water Well				3589.13	3609.29	3609.25	3609.07	3609.02	3609.00	3608.96	3609.60	3609.21
South Water Well					3591.96	3591.83	3591.62	NM	3591.84	3591.67	3592.42	3591.96
West Water Well					3607.83	3607.83	3607.75	3607.74	3607.72	3607.68	3607.80	3607.66

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

Table 2 - (continued)

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

Notes: All units in feet
NM: well not gauged
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
MW-8	0.00	0.00	0.00	0.00	0.30	0.47	0.50	0.00	0.46	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
MW-18			0.00	0.40	0.40	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
MW-26				0.71	0.84	0.21	0.05	0.02	0.02	0.01	0.03
MW-27				1.25	1.26	1.18	0.37	1.16	1.11	1.09	1.08
MW-N							1.10	1.10	1.09	0.99	1.00
MW-CC							1.20	1.20	1.20	1.10	1.13
MW-EE							0.27	0.26	0.21	0.14	0.03

Notes: All units are feet.

Table 4 – Summary of September 2004 Organics Analyses

Well	Benzene	Toluene	Ethylbenzene	O Xylene	P/m Xylene	Total Xylenes
MW-1	0.119	0.00248	0.0285	0.00912	0.0673	0.07642
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	3.37	3.42	0.196	0.132	0.575	0.707
MW-5	0.243	0.247	0.0642	0.0511	0.114	0.1651
MW-6	0.0945	0.000764J	0.00754	0.000487J	0.0128	0.0128
MW-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	6.28	6.08	0.342	0.237	0.916	1.153
MW-9	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	5.49	0.195	0.0416J	0.0208J	0.0691	0.0898
MW-11	17.9	2.83	0.356	0.204	0.566	0.77
MW-12	11.2	0.212	0.122	0.0219J	0.0710J	0.0929
MW-13	11.7	0.471	0.124	0.0334J	0.189	0.2224
MW-14	0.198	0.000398J	0.000256J	0.000249J	0.000529J	0.000778
MW-15	0.0102	0.00247	0.000603J	0.000375J	0.00114	0.001515
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	0.0283	0.00518	0.00397	0.00204	0.00570	0.00774
MW-18 dup	0.0178	0.00151	0.00290	<0.001	0.00359	0.00359
MW-19	0.0391	0.000138J	0.000162J	<0.001	0.000489J	<0.001
MW-20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-21	0.0547	0.103	0.0477	0.0198	0.0907	0.1105
MW-22	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-23	FPH	FPH	FPH	FPH	FPH	FPH
MW-24	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-25	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-26	FPH	FPH	FPH	FPH	FPH	FPH
MW-27	FPH	FPH	FPH	FPH	FPH	FPH
North water well	NS	NS	NS	NS	NS	NS
South water well	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
West water well	NS	NS	NS	NS	NS	NS
House well	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Irrigation well	0.607	0.53	0.131	0.0649	0.336	0.4009

Notes: All units mg/l
FPH: Free phase hydrocarbons present no groundwater sample collected
Total xylenes calculated, J qualifiers from isomers not included

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

Well	Benzene	Toluene	Ethylbenzene	O Xylene	P/m Xylene	Total Xylenes
MW-A	1.56	1.39	0.164	0.0992	0.506	0.6052
MW-B	0.197	0.218	0.0914	0.0573	0.280	0.3373
MW-C	0.129	0.0680	0.0332	0.0116	0.0365	0.0481
MW-D	0.0234	0.00798	0.00690	0.00181	0.00450	0.00631
MW-E	0.475	0.000814J	0.00183J	0.000899J	0.00145J	0.002349
MW-F	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-F dup	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-G	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-H	0.00287	<0.001	<0.001	<0.001	<0.001	<0.001
MW-I	0.443	0.00552	0.00587	0.00180	0.00653	0.00833
MW-J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-K	1.56	0.0219	0.0214	0.0109	0.0292	0.0401
MW-L	44.0	0.0372J	0.312	0.0194J	0.0569J	0.0763
MW-M	6.46	0.0911	0.0595	0.00879J	0.0245	0.03329
MW-N	FPH	FPH	FPH	FPH	FPH	FPH
MW-O	46.4	0.0632J	0.0816J	<0.1	0.0484J	<0.1
MW-O dup	42.9	0.0794	0.0872	<0.05	0.0484J	<0.05
MW-P	17.3	0.0343J	0.0923	0.0208J	0.132	0.1528
MW-Q	9.47	0.0358J	0.0608J	0.0190J	0.105	0.124
MW-R	0.0522	<0.001	0.00164	<0.001	0.00134	0.00134
MW-S	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-T	5.19	0.0545	0.0335	0.0125J	0.0704	0.0829
MW-AA	1.02	0.0173	0.0126	0.00357J	0.00940	0.01297
MW-BB	7.87	0.167	0.0629	0.0129J	0.0231J	0.036
MW-CC	FPH	FPH	FPH	FPH	FPH	FPH
MW-DD	0.515	0.00501	0.0644	<0.001	0.131	0.131
MW-EE	FPH	FPH	FPH	FPH	FPH	FPH
MW-FF	3.90	<0.01	0.0112	<0.01	0.00261J	<0.01
MW-GG	10.8	0.0233	0.0119J	0.00568J	0.0179J	0.02358
MW-HH	9.61	0.230	0.0360	0.0113J	0.0282	0.0395
MW-II	0.737	0.0823	0.0187	0.00670J	0.0184	0.0251
MW-JJ	21.7	0.209	0.198	0.0108J	0.0205J	0.0313
MW-KK	2.56	0.236	0.00922	0.00623	0.0175	0.02373
MW-LL	17.5	0.0914	0.145	0.0179J	0.219	0.2369
MW-MM	0.301	0.00135	0.0146	<0.001	0.0239	0.0239
MW-NN	41.7	0.0377J	0.139	<0.05	0.0675	0.0675
MW-OO	39.8	4.03	0.267	0.0920	0.426	0.518

Notes: All units mg/l
FPH: Free phase hydrocarbons present no groundwater sample collected
Total xylenes calculated, J qualifiers from isomers not included

Table 5 – Summary of Dissolved Phase Benzene Concentrations

Well	Aug-01	Mar-02	Jul-02	Oct-02	Dec-02	Feb-03	Jun-03	Sep-03	Dec 03/	Mar-04	Jun-04	Sep-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
MW-1D				NS	<0.001	0.028	<0.001	<0.001	0.008	<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
MW-3	<.005	NS	0.002	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	0.00184	<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
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
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
MW-7	<.005	NS	<0.001	NS	NS	0.004	<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
MW-9		<.005	<0.001	NS	NS	<0.001	<0.001	<0.001	<0.001	0.000919	<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
MW-11		27.8	FPH	NS	NS	FPH	FPH	FPH	FPH	FPH	19.9	17.9
MW-12		9.08	6.95	NS	NS	15.1	11.9	15.2	14.7	16.9	16.3	11.2
MW-13		19.8	19.8	NS	NS	23.2	26.3	16.5	16.1	10.8	12.7	11.7
MW-14		1.04	1.21	NS	NS	0.895	0.537	0.388	0.398	0.376	0.32	0.198
MW-15				0.002	NS	0.003	0.001	<0.001	0.029	0.0012	0.00464	0.0102
MW-16				<0.001	NS	<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
MW-18				0.008	NS	FPH	FPH	0.059	0.018	0.00764	0.101	0.0283
MW-19				0.003	NS	0.198	0.092	0.078	0.05	0.054	0.0532	0.0391
MW-20				<0.001	NS	0.001	0.006	<0.001	<0.001	0.000965	<0.001	<0.001
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
MW-22				<0.001	NS	<0.001	0.002	<0.001	0.014	<0.001	<0.001	<0.001
MW-23						FPH	FPH	FPH	FPH	FPH	FPH	FPH
MW-24				<0.001	NS	<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
MW-26						FPH	FPH	FPH	FPH	2.33	FPH	FPH
MW-27						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
South water well					<0.001	0.036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
West water well					NS	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	NS
House well					0.59	0.403	NS	NS	0.147	0.0008	0.0144	<0.001
Irrigation well				1.26						0.426	0.537	0.119
MW-A									2.11	1.44	1.53	1.56
MW-B									0.321	0.215	0.274	0.197
MW-C									0.027	0.0288	0.175	0.129
MW-D									0.008	0.0101	0.0191	0.0234
MW-E									0.847	0.626	0.263	0.475
MW-F									<0.001	0.000968	<0.001	<0.001
MW-G									<0.001	0.000915	<0.001	<0.001
MW-H									0.066	0.0193	0.371	0.00287
MW-I									0.522	0.394	0.552	0.443
MW-J									<0.001	0.00969	<0.001	<0.001
MW-K									2.33	1.99	1.62	1.56
MW-L									21.4	24.8	30.7	44.0
MW-M									1.67	3.58	9.17	6.46
MW-N									FPH	FPH	FPH	FPH
MW-O									30.4	32.0	32.5	46.4
MW-P									10.2	9.44	10.7	17.3
MW-Q									7.44	8.24	7.2	9.47
MW-R									0.004	0.00283	0.0294	0.0522
MW-S									0.002	<0.001	<0.001	<0.001
MW-T									4.3	4.89	4.17	5.19
MW-AA									0.356	0.367	1.21	1.02
MW-BB									4.34	3.73		7.87
MW-CC									FPH	FPH	FPH	FPH
MW-DD									0.772	0.678	0.635	0.515
MW-EE									FPH	FPH	FPH	FPH
MW-FF									3.22	3.22	3.31	3.90
MW-GG									5.96	7.34	7.97	10.8
MW-HH									3.23	5.63	4.51	9.61
MW-II									0.518	2.10	3.4	0.737
MW-JJ									15.9	15.3	17.6	21.7
MW-KK									0.263	2.18	1.67	2.56
MW-LL									13.7	12.8	14.9	17.5
MW-MM									0.237	0.202	0.351	0.301
MW-NN									31.5	19.2	35.2	41.7
MW-OO									31.5	29.2	32.6	39.8

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 at the sampling date

FIGURES

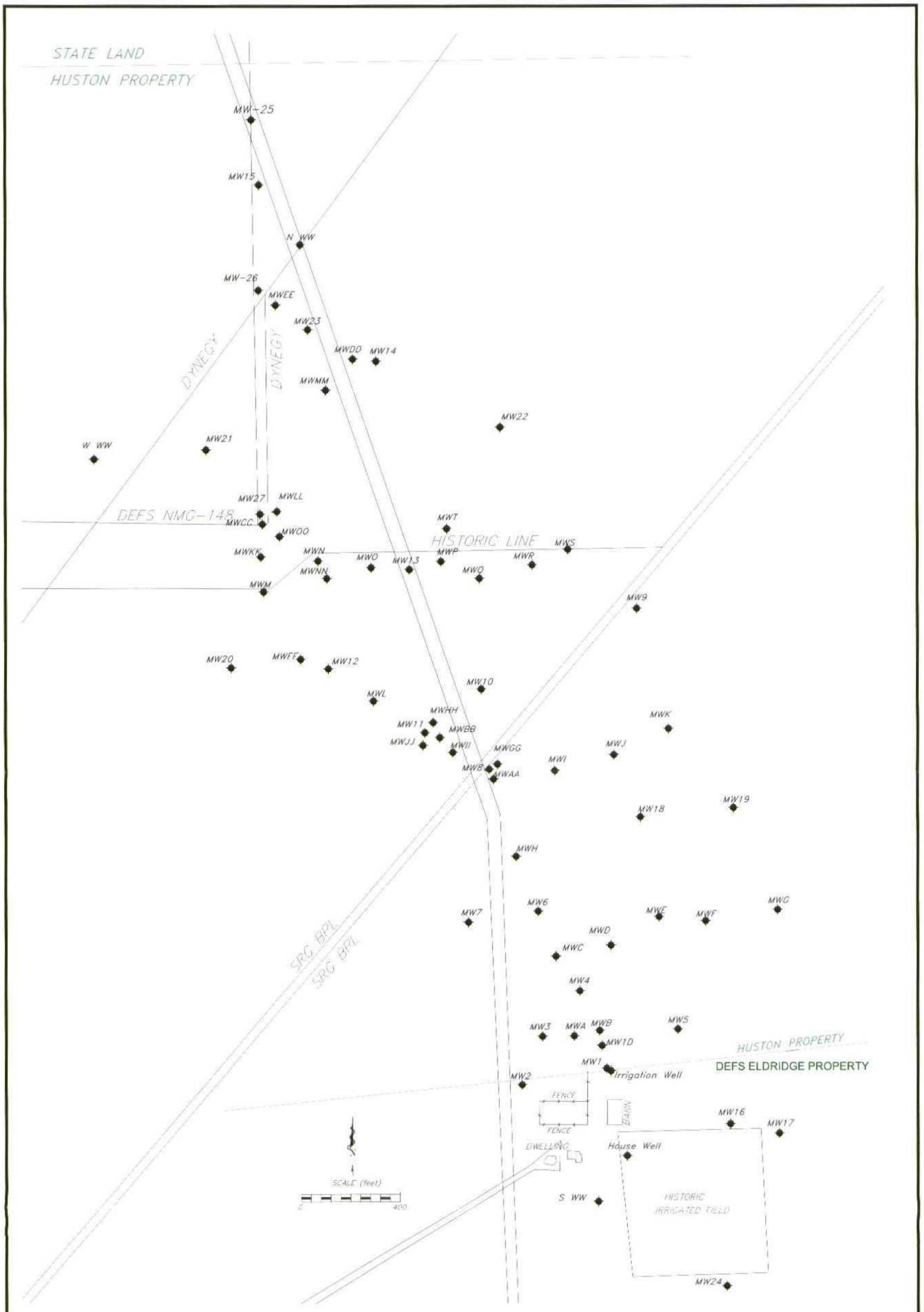


Figure 1 - Monitoring Well and Pipeline Locations

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 5/04

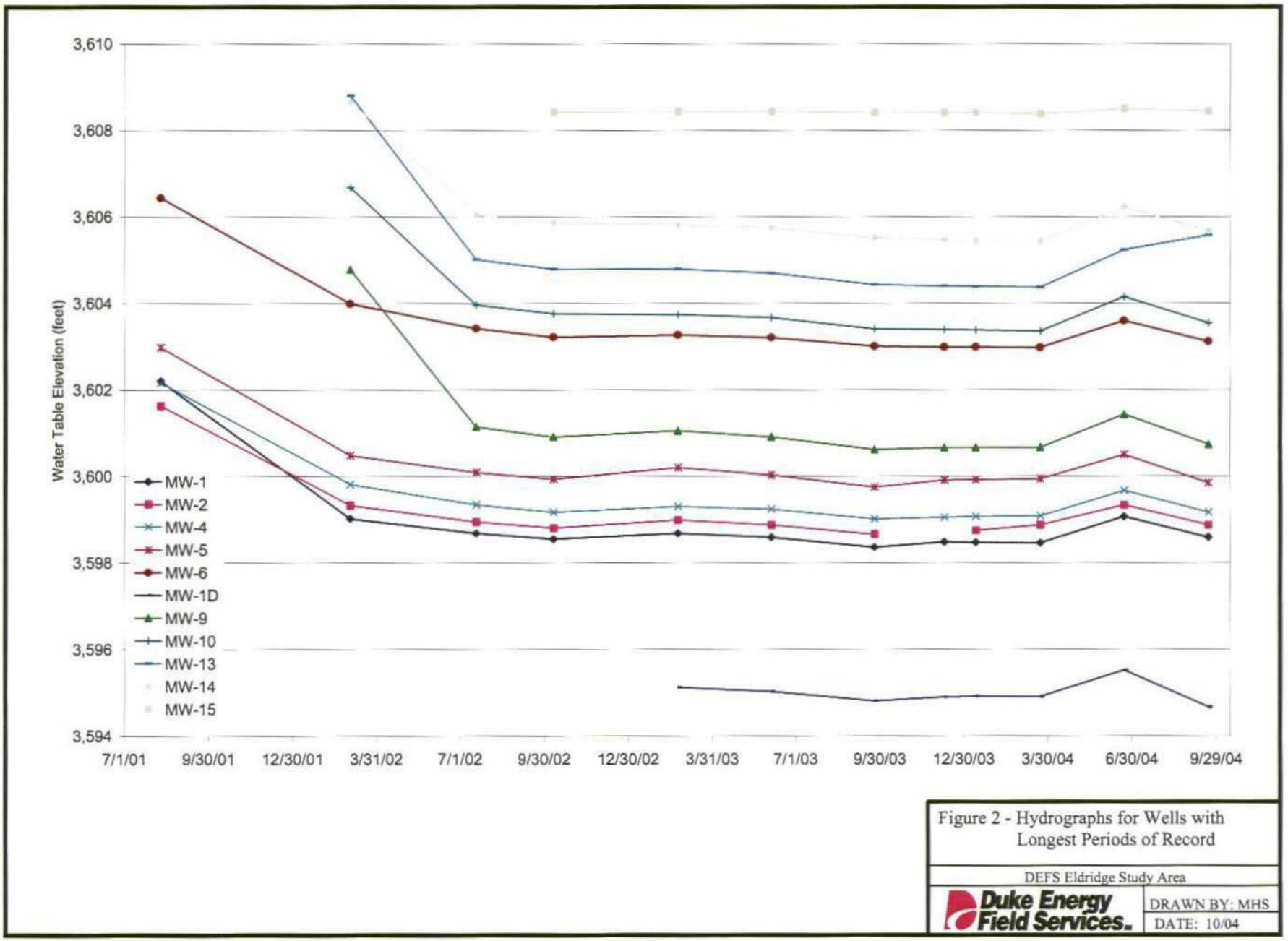


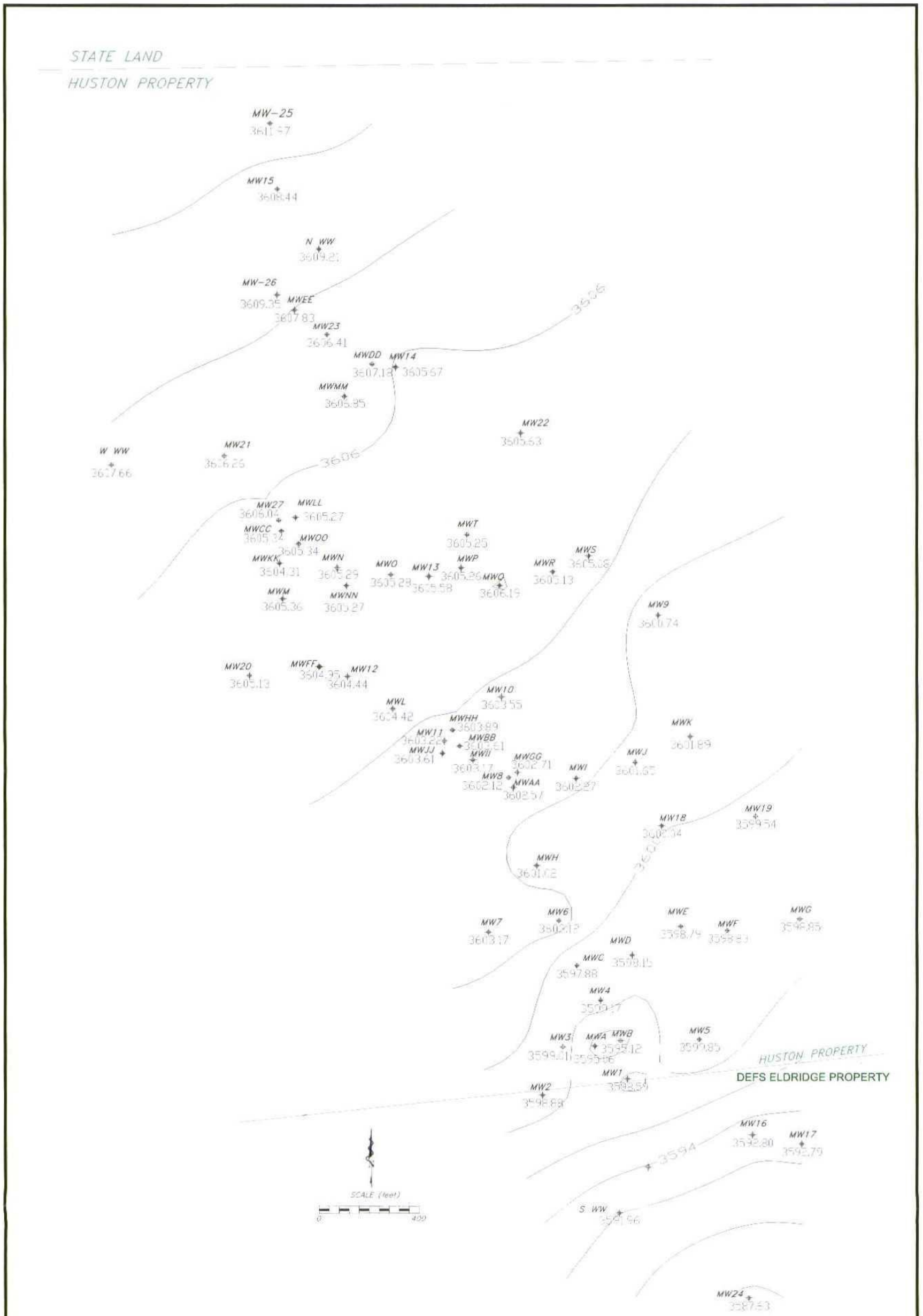
Figure 2 - Hydrographs for Wells with Longest Periods of Record

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 10/04



CONTOUR INTERVAL IS 2 FEET

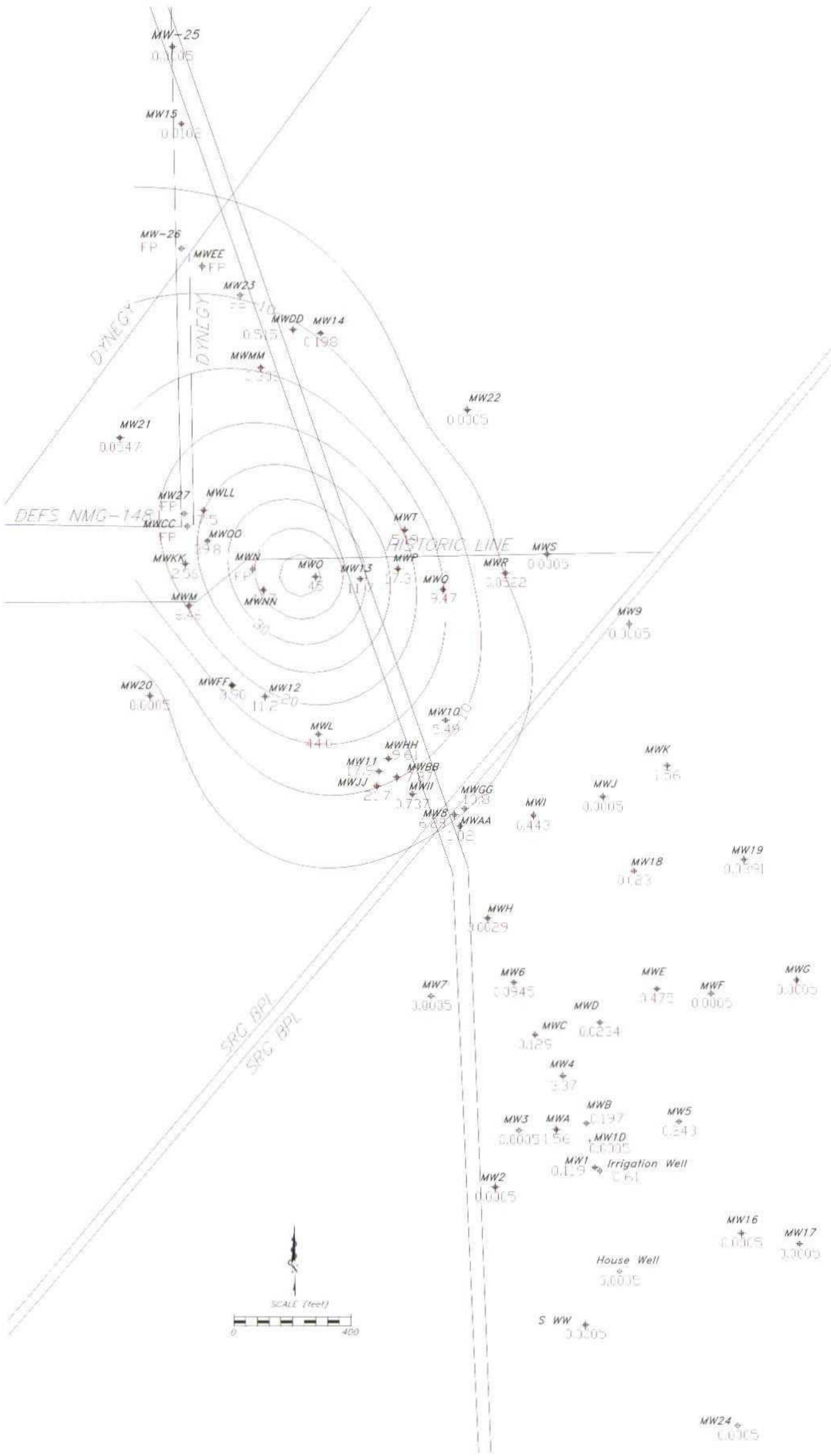
Figure 3 - Corrected September 2004 Water Table Contours

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 11/04



CONTOUR INTERVAL IS 5 mg/l beginning at 5 mg/l

Values with a concentration of 0.000 are nondetects.
Wells with no benzene detected were assigned a value of 0.0005 (½ the nondetect value) to contour the data.

Figure 4 - September 2004 Benzene Isopleths

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 5/04

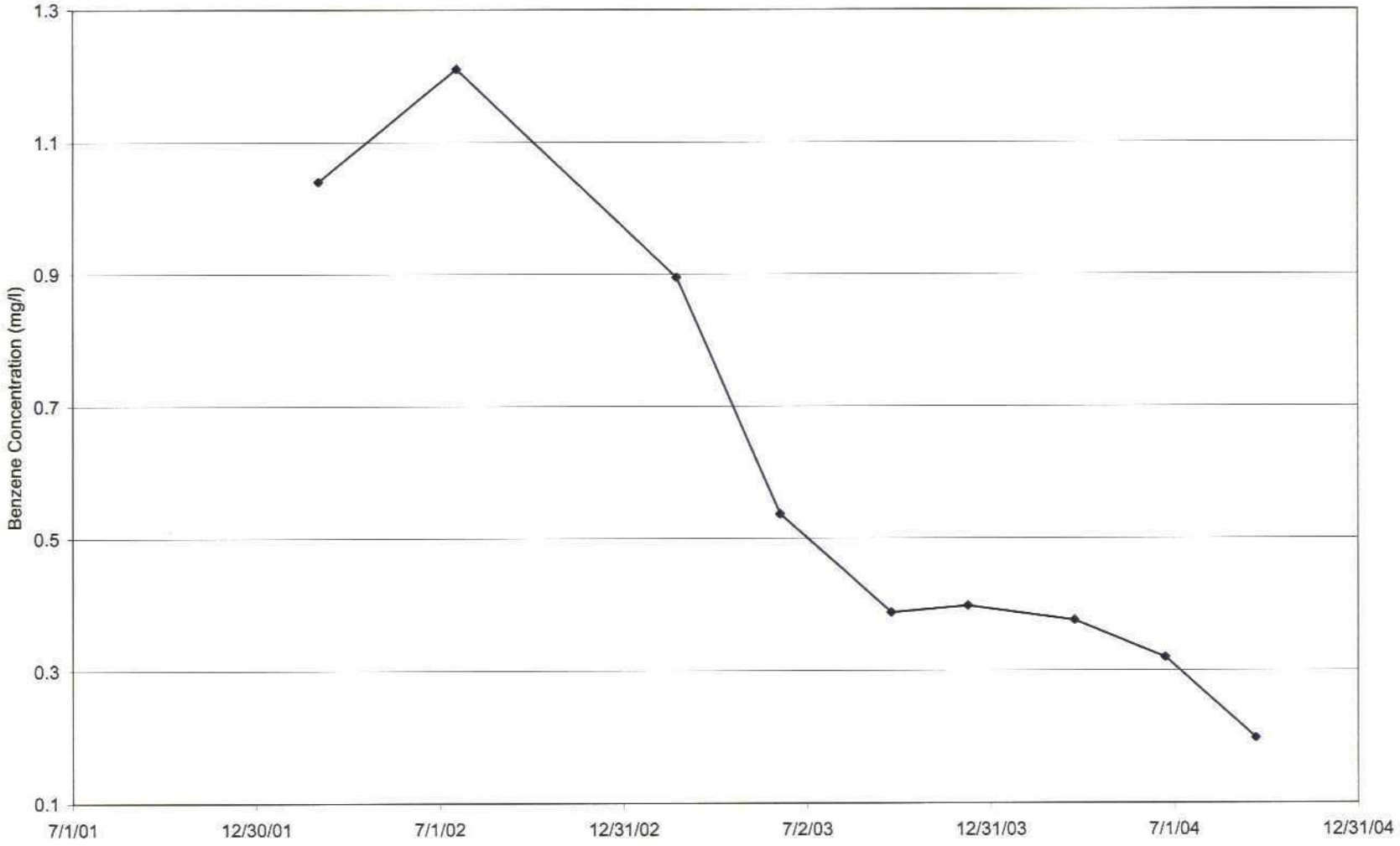


Figure 5 - Benzene Concentration verses time plot for MW-14

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 10/04

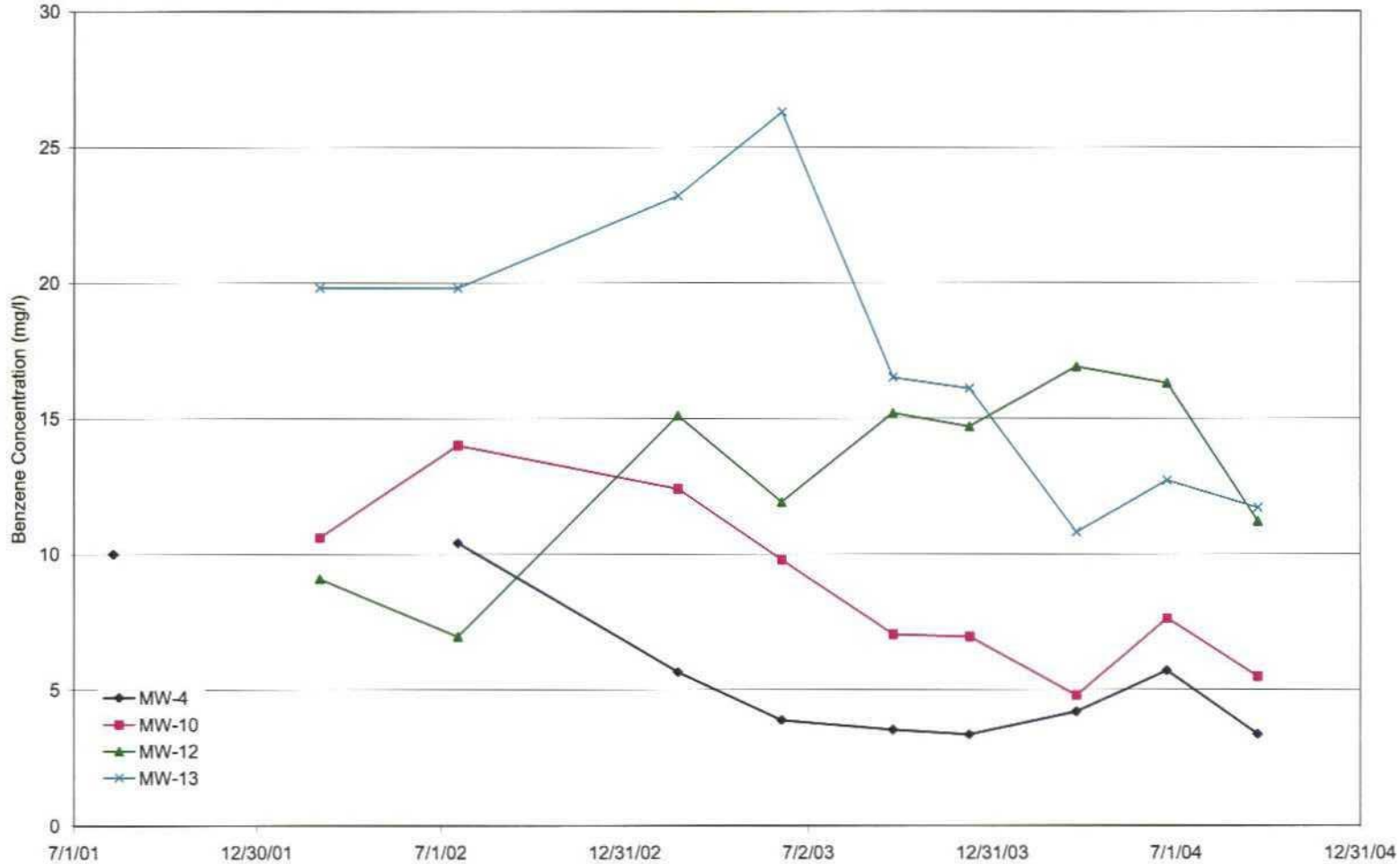


Figure 6- Benzene Concentration verses time plot for MW-4, 10, 12 & 13

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04

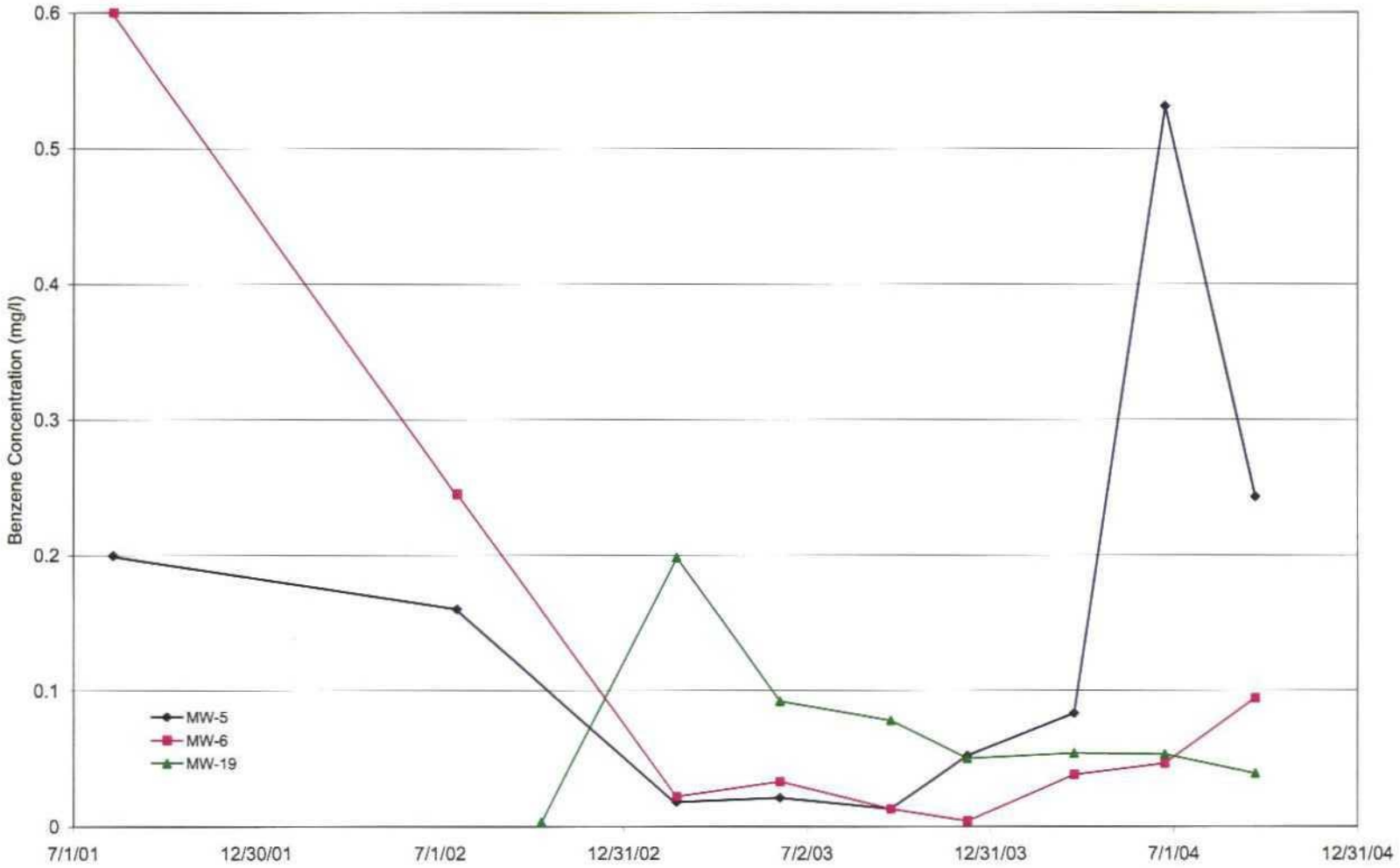


Figure 7 - Benzene Concentration verses time plot for MW-5, 6 & 19

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 10/04

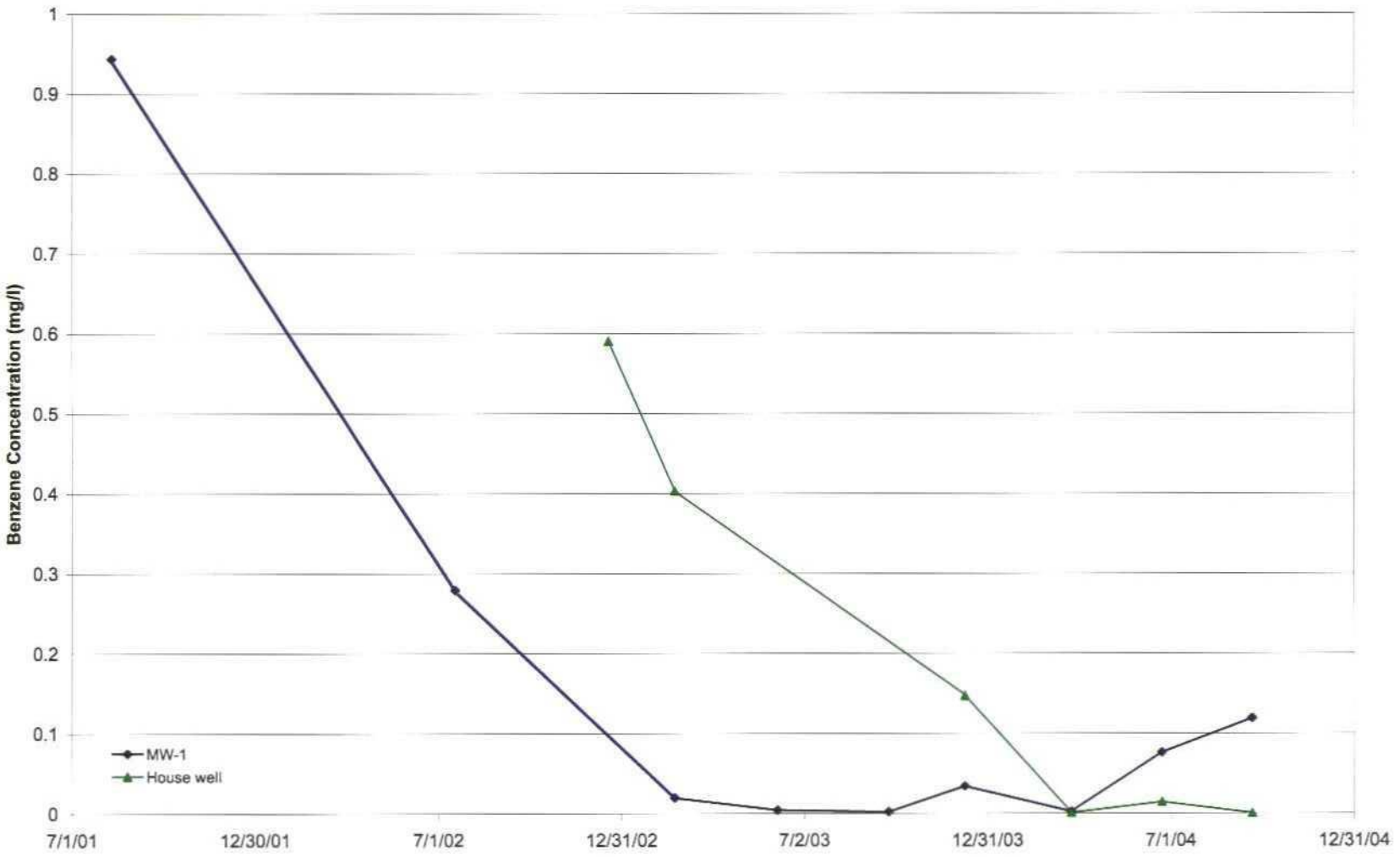


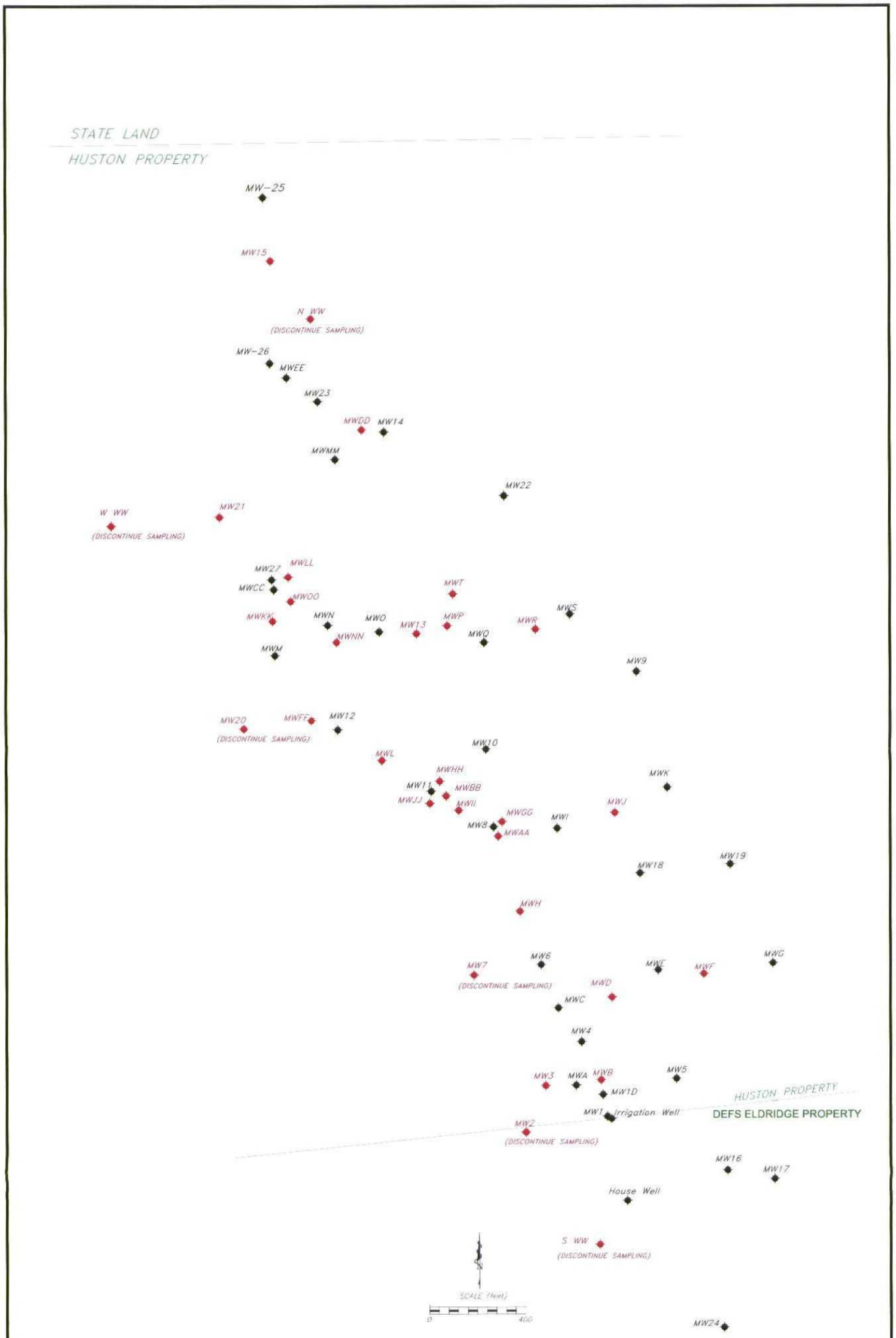
Figure 8 - Benzene Concentration verses time plot for MW-1 & House

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/04



Notes

- Wells shown in red with no label proposed to be abandoned
- Wells shown in red labeled "discontinue sampling" will have their depths to water measured but will not be sampled.

Figure 9 - Recommended Well Plugging and Abandoning Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 11/04

STATE LAND

HUSTON PROPERTY

MW-25

MW-26

MWEE

MW23

MW14

MWMM

MW22

MW27

MWCC

MWN

MWO

MWS

MWQ

MWM

MW9

MW12

MW10

MWK

MW11

MW8

MWI

MW18

MW19

MW6

MWE

MWG

MWC

MW4

MWA

MW5

MW1D

MW1

Irrigation Well

HUSTON PROPERTY

DEFS ELDRIDGE PROPERTY

MW16

MW17

House Well

N

SCALE (feet)

0 400

MW24

Figure 10 - Revised Groundwater Sampling Program

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 11/04

ATTACHMENT

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: 4I22010

Report Date: 10/04/04

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	10/04/04 19:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4I22010-01	Water	09/21/04 17:35	09/22/04 11:30
MW-2	4I22010-02	Water	09/21/04 10:20	09/22/04 11:30
MW-3	4I22010-03	Water	09/21/04 17:15	09/22/04 11:30
MW-4	4I22010-04	Water	09/21/04 17:00	09/22/04 11:30
MW-5	4I22010-05	Water	09/21/04 17:10	09/22/04 11:30
MW-6	4I22010-06	Water	09/21/04 17:05	09/22/04 11:30
MW-7	4I22010-07	Water	09/21/04 15:10	09/22/04 11:30
MW-8	4I22010-08	Water	09/21/04 13:20	09/22/04 11:30
MW-9	4I22010-09	Water	09/20/04 17:10	09/22/04 11:30
MW-10	4I22010-10	Water	09/21/04 12:05	09/22/04 11:30
MW-11	4I22010-11	Water	09/21/04 12:35	09/22/04 11:30
MW-12	4I22010-12	Water	09/21/04 11:15	09/22/04 11:30
MW-13	4I22010-13	Water	09/21/04 09:10	09/22/04 11:30
MW-14	4I22010-14	Water	09/21/04 08:10	09/22/04 11:30
MW-15	4I22010-15	Water	09/20/04 15:10	09/22/04 11:30
MW-16	4I22010-16	Water	09/21/04 09:45	09/22/04 11:30
MW-17	4I22010-17	Water	09/21/04 09:15	09/22/04 11:30
MW-18	4I22010-18	Water	09/21/04 13:55	09/22/04 11:30
MW-19	4I22010-19	Water	09/21/04 14:30	09/22/04 11:30
MW-20	4I22010-20	Water	09/20/04 16:40	09/22/04 11:30
MW-21	4I22010-21	Water	09/20/04 16:15	09/22/04 11:30
MW-22	4I22010-22	Water	09/20/04 15:50	09/22/04 11:30
MW-24	4I22010-23	Water	09/21/04 08:50	09/22/04 11:30
MW-25	4I22010-25	Water	09/20/04 15:25	09/22/04 11:30
South Well	4I22010-26	Water	09/21/04 12:50	09/22/04 11:30
House Well	4I22010-27	Water	09/21/04 11:40	09/22/04 11:30
TW-A	4I22010-28	Water	09/21/04 17:35	09/22/04 11:30
TW-B	4I22010-29	Water	09/21/04 17:55	09/22/04 11:30
TW-C	4I22010-30	Water	09/21/04 16:55	09/22/04 11:30
TW-D	4I22010-31	Water	09/21/04 16:00	09/22/04 11:30
TW-E	4I22010-32	Water	09/21/04 16:05	09/22/04 11:30
TW-F	4I22010-33	Water	09/21/04 15:45	09/22/04 11:30
TW-G	4I22010-34	Water	09/21/04 14:35	09/22/04 11:30
TW-I	4I22010-36	Water	09/21/04 13:25	09/22/04 11:30

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	10/04/04 19:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-J	4I22010-37	Water	09/21/04 14:05	09/22/04 11:30
TW-K	4I22010-38	Water	09/21/04 13:50	09/22/04 11:30
TW-L	4I22010-39	Water	09/21/04 11:05	09/22/04 11:30
TW-M	4I22010-40	Water	09/21/04 10:10	09/22/04 11:30
TW-O	4I22010-41	Water	09/21/04 09:50	09/22/04 11:30
TW-P	4I22010-42	Water	09/21/04 09:05	09/22/04 11:30
TW-Q	4I22010-43	Water	09/21/04 08:45	09/22/04 11:30
TW-R	4I22010-44	Water	09/20/04 17:45	09/22/04 11:30
TW-S	4I22010-45	Water	09/20/04 17:40	09/22/04 11:30
TW-T	4I22010-46	Water	09/21/04 08:50	09/22/04 11:30
TW-AA	4I22010-47	Water	09/21/04 13:00	09/22/04 11:30
TW-BB	4I22010-48	Water	09/21/04 12:40	09/22/04 11:30
TW-DD	4I22010-49	Water	09/21/04 08:30	09/22/04 11:30
TW-FF	4I22010-50	Water	09/21/04 11:00	09/22/04 11:30
TW-GG	4I22010-51	Water	09/21/04 13:05	09/22/04 11:30
TW-HH	4I22010-52	Water	09/21/04 12:25	09/22/04 11:30
TW-II	4I22010-53	Water	09/21/04 12:00	09/22/04 11:30
TW-JJ	4I22010-54	Water	09/21/04 12:15	09/22/04 11:30
TW-KK	4I22010-55	Water	09/21/04 10:15	09/22/04 11:30
TW-LL	4I22010-56	Water	09/21/04 10:30	09/22/04 11:30
TW-MM	4I22010-57	Water	09/21/04 08:15	09/22/04 11:30
TW-NN	4I22010-58	Water	09/21/04 09:45	09/22/04 11:30
TW-OO	4I22010-59	Water	09/21/04 10:35	09/22/04 11:30
MW-1D	4I22010-60	Water	09/21/04 17:30	09/22/04 11:30
Duplicate A	4I22010-61	Water	09/21/04 10:50	09/22/04 11:30
Duplicate B	4I22010-62	Water	09/21/04 14:55	09/22/04 11:30
Duplicate C	4I22010-63	Water	09/21/04 15:35	09/22/04 11:30
Trip Blank	4I22010-64	Water	09/20/04 00:00	09/22/04 11:30

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I22010-01) Water									
Benzene	**0.119**	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.00248**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0285**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0673**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00912**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*890 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	
MW-2 (4I22010-02) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	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		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
MW-3 (4I22010-03) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	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		*115 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
MW-4 (4I22010-04) Water									
Benzene	**3.37**	0.0100	mg/L	10	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**3.42**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.196**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.575**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.132**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*492 %*	*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-5 (4I22010-05) Water									
Benzene	**0.243**	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.247**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0642**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.114**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0511**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*3860 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	
MW-6 (4I22010-06) Water									
Benzene	**0.0945**	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**J [0.000764]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**0.00754**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0124**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000487]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*225 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*80-120*		"	"	"	"	
MW-7 (4I22010-07) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	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		*115 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-8 (4I22010-08) Water									
Benzene	**6.28**	0.0500	mg/L	50	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**6.08**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.342**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.916**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.237**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*289 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*110 %*	*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	10/04/04 19:56

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (4I22010-09) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	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		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
MW-10 (4I22010-10) Water									
Benzene	**5.49**	0.0500	mg/L	50	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.195**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**J [0.0416]**	0.0500	"	"	"	"	"	"	J
Xylene (p/m)	**0.0691**	0.0500	"	"	"	"	"	"	
Xylene (o)	**J [0.0208]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
MW-11 (4I22010-11) Water									
Benzene	**17.9**	0.0200	mg/L	20	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**2.83**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.356**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.566**	0.0200	"	"	"	"	"	"	
Xylene (o)	**0.204**	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*555 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		"	"	"	"	
MW-12 (4I22010-12) Water									
Benzene	**11.2**	0.100	mg/L	100	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.212**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.122**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0710]**	0.100	"	"	"	"	"	"	J
Xylene (o)	**J [0.0219]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*96.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13 (4I22010-13) Water									
Benzene	**11.7**	0.100	mg/L	100	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.471**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.124**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.189**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0334]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*116 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-14 (4I22010-14) Water									
Benzene	**0.198**	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**J [0.000398]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000256]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.000529]**	0.00100	"	"	"	"	"	"	J
Xylene (o)	**J [0.000249]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-15 (4I22010-15) Water									
Benzene	**0.0102**	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	**0.00247**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000603]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**0.00114**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000375]**	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*520 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
MW-16 (4I22010-16) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*89.0 %*	*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	10/04/04 19:56

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-17 (4I22010-17) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.5 %*	*80-120*		"	"	"	"	
MW-18 (4I22010-18) Water									
Benzene	**0.0283**	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**0.00518**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00397**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00570**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00204**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*458 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-19 (4I22010-19) Water									
Benzene	**0.0391**	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**J [0.000138]**	0.00100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.000162]**	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.000489]**	0.00100	"	"	"	"	"	"	J
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
MW-20 (4I22010-20) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*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	10/04/04 19:56

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-21 (4I22010-21) Water									
Benzene	**0.0547**	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**0.103**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0477**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0907**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0198**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*805 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
MW-22 (4I22010-22) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
MW-24 (4I22010-23) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*120 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
MW-25 (4I22010-25) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*81.0 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Well (4I22010-26) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
House Well (4I22010-27) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*89.5 %*	*80-120*		"	"	"	"	
TW-A (4I22010-28) Water									
Benzene	**1.56**	0.0100	mg/L	10	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**1.39**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.164**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.506**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.0992**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*745 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
TW-B (4I22010-29) Water									
Benzene	**0.197**	0.0100	mg/L	10	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**0.218**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0914**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.280**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.0573**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*515 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-C (4I22010-30) Water									
Benzene	**0.129**	0.0100	mg/L	10	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**0.0680**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0332**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0365**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.0116**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*128 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
TW-D (4I22010-31) Water									
Benzene	**0.0234**	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**0.00798**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00690**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00450**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00181**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1520 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
TW-E (4I22010-32) Water									
Benzene	**0.475**	0.00500	mg/L	5	EI42709	09/26/04	09/26/04	EPA 8021B	
Toluene	**J [0.000814]**	0.00500	"	"	"	"	"	"	J
Ethylbenzene	**J [0.00183]**	0.00500	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.00145]**	0.00500	"	"	"	"	"	"	J
Xylene (o)	**J [0.000899]**	0.00500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	
TW-F (4I22010-33) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*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	10/04/04 19:56

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-G (4I22010-34) Water									
Benzene	ND	0.00100	mg/L	1	EI42709	09/26/04	09/26/04	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		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
TW-I (4I22010-36) Water									
Benzene	**0.443**	0.00100	mg/L	1	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**0.00552**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00587**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00653**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00180**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*193 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*80-120*		"	"	"	"	
TW-J (4I22010-37) Water									
Benzene	ND	0.00100	mg/L	1	EJ40412	09/29/04	09/29/04	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		*92.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
TW-K (4I22010-38) Water									
Benzene	**1.56**	0.00500	mg/L	5	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**0.0219**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0214**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0292**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0109**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*135 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*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	10/04/04 19:56

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-L (4I22010-39) Water									
Benzene	**44.0**	0.100	mg/L	100	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**J [0.0372]**	0.100	"	"	"	"	"	"	J
Ethylbenzene	**0.312**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0569]**	0.100	"	"	"	"	"	"	J
Xylene (o)	**J [0.0194]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*84.9 %*	*80-120*		"	"	"	"	
TW-M (4I22010-40) Water									
Benzene	**6.46**	0.0200	mg/L	20	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**0.0911**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0595**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0245**	0.0200	"	"	"	"	"	"	
Xylene (o)	**J [0.00879]**	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*131 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.2 %*	*80-120*		"	"	"	"	
TW-O (4I22010-41) Water									
Benzene	**46.4**	0.100	mg/L	100	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**J [0.0632]**	0.100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0816]**	0.100	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.0484]**	0.100	"	"	"	"	"	"	J
Xylene (o)	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*133 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.4 %*	*80-120*		"	"	"	"	
TW-P (4I22010-42) Water									
Benzene	**17.3**	0.0500	mg/L	50	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**J [0.0343]**	0.0500	"	"	"	"	"	"	J
Ethylbenzene	**0.0923**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.132**	0.0500	"	"	"	"	"	"	
Xylene (o)	**J [0.0208]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*141 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-Q (4I22010-43) Water									
Benzene	**9.47**	0.100	mg/L	100	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	**J [0.0358]**	0.100	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0608]**	0.100	"	"	"	"	"	"	J
Xylene (p/m)	**0.105**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0190]**	0.100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		"	"	"	"	
TW-R (4I22010-44) Water									
Benzene	**0.0522**	0.00100	mg/L	1	EJ40412	09/29/04	09/29/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00164**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00134**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*122 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
TW-S (4I22010-45) Water									
Benzene	ND	0.00100	mg/L	1	EJ40412	09/29/04	09/30/04	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		*93.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.6 %*	*80-120*		"	"	"	"	
TW-T (4I22010-46) Water									
Benzene	**5.19**	0.0200	mg/L	20	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.0545**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0335**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0704**	0.0200	"	"	"	"	"	"	
Xylene (o)	**J [0.0125]**	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*141 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*88.7 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-AA (4I22010-47) Water									
Benzene	**1.02**	0.00500	mg/L	5	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.0173**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0126**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.00940**	0.00500	"	"	"	"	"	"	
Xylene (o)	**J [0.00357]**	0.00500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*125 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
TW-BB (4I22010-48) Water									
Benzene	**7.87**	0.0500	mg/L	50	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.167**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.0629**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0231]**	0.0500	"	"	"	"	"	"	J
Xylene (o)	**J [0.0129]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.6 %*	*80-120*		"	"	"	"	
TW-DD (4I22010-49) Water									
Benzene	**0.515**	0.00100	mg/L	1	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.00501**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0644**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.131**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*212 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
TW-FF (4I22010-50) Water									
Benzene	**3.90**	0.0100	mg/L	10	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0112**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**J [0.00261]**	0.0100	"	"	"	"	"	"	J
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*133 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-GG (4I22010-51) Water									
Benzene	**10.8**	0.0200	mg/L	20	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.0233**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**J [0.0119]**	0.0200	"	"	"	"	"	"	J
Xylene (p/m)	**J [0.0179]**	0.0200	"	"	"	"	"	"	J
Xylene (o)	**J [0.00568]**	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*135 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*80-120*		"	"	"	"	
TW-HH (4I22010-52) Water									
Benzene	**9.61**	0.0200	mg/L	20	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.230**	0.0200	"	"	"	"	"	"	
Ethylbenzene	**0.0360**	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0282**	0.0200	"	"	"	"	"	"	
Xylene (o)	**J [0.0113]**	0.0200	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*138 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.8 %*	*80-120*		"	"	"	"	
TW-II (4I22010-53) Water									
Benzene	**0.737**	0.0100	mg/L	10	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.0823**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0187**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0184**	0.0100	"	"	"	"	"	"	
Xylene (o)	**J [0.00670]**	0.0100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*80-120*		"	"	"	"	
TW-JJ (4I22010-54) Water									
Benzene	**21.7**	0.0500	mg/L	50	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.209**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.198**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0205]**	0.0500	"	"	"	"	"	"	J
Xylene (o)	**J [0.0108]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*134 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-KK (4I22010-55) Water									
Benzene	**2.56**	0.00500	mg/L	5	EJ40412	09/29/04	09/30/04	EPA 8021B	
Toluene	**0.236**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.00922**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0175**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.00623**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*135 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
TW-LL (4I22010-56) Water									
Benzene	**17.5**	0.0500	mg/L	50	EJ40413	09/30/04	09/30/04	EPA 8021B	
Toluene	**0.0914**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.145**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.219**	0.0500	"	"	"	"	"	"	
Xylene (o)	**J [0.0179]**	0.0500	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*80.4 %*	*80-120*		"	"	"	"	
TW-MM (4I22010-57) Water									
Benzene	**0.301**	0.00100	mg/L	1	EJ40413	09/30/04	09/30/04	EPA 8021B	
Toluene	**0.00135**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0146**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0239**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*177 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
TW-NN (4I22010-58) Water									
Benzene	**41.7**	0.0500	mg/L	50	EJ40413	09/30/04	09/30/04	EPA 8021B	
Toluene	**J [0.0377]**	0.0500	"	"	"	"	"	"	J
Ethylbenzene	**0.139**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.0675**	0.0500	"	"	"	"	"	"	
Xylene (o)	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*140 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*83.9 %*	*80-120*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-OO (4I22010-59) Water									
Benzene	**39.8**	0.0500	mg/L	50	EJ40413	09/30/04	09/30/04	EPA 8021B	
Toluene	**4.03**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.267**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.426**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.0920**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*175 %*		*80-120*		"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*85.2 %*		*80-120*		"	"	"	
MW-1D (4I22010-60) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	09/30/04	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		*86.2 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*		*80-120*		"	"	"	
Duplicate A (4I22010-61) Water									
Benzene	**42.9**	0.0500	mg/L	50	EJ40413	09/30/04	09/30/04	EPA 8021B	
Toluene	**0.0794**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.0872**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0484]**	0.0500	"	"	"	"	"	"	J
Xylene (o)	ND	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*164 %*		*80-120*		"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*86.8 %*		*80-120*		"	"	"	
Duplicate B (4I22010-62) Water									
Benzene	**0.0178**	0.00100	mg/L	1	EJ40413	09/30/04	10/04/04	EPA 8021B	
Toluene	**0.00151**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00290**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00359**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*135 %*		*80-120*		"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*104 %*		*80-120*		"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate C (4I22010-63) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/01/04	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		*88.1 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*80-120*		"	"	"	
Trip Blank (4I22010-64) Water									
Benzene	ND	0.00100	mg/L	1	EJ40413	09/30/04	10/01/04	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		*89.4 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.9 %*		*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 EI42708 - EPA 5030C (GC)										
Blank (EI42708-BLK1)				Prepared & Analyzed: 09/24/04						
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	*23.5*		*ug/l*	*20.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.1*		*"*	*20.0*		*85.5*	*80-120*			
LCS (EI42708-BS1)				Prepared & Analyzed: 09/24/04						
Benzene	80.3		ug/l	100		80.3	80-120			
Toluene	88.5		"	100		88.5	80-120			
Ethylbenzene	81.6		"	100		81.6	80-120			
Xylene (p/m)	176		"	200		88.0	80-120			
Xylene (o)	82.2		"	100		82.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*21.9*		*"*	*20.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.5*		*"*	*20.0*		*82.5*	*80-120*			
Calibration Check (EI42708-CCV1)				Prepared & Analyzed: 09/24/04						
Benzene	97.3		ug/l	100		97.3	80-120			
Toluene	94.1		"	100		94.1	80-120			
Ethylbenzene	94.4		"	100		94.4	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	90.0		"	100		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*21.3*		*"*	*20.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.7*		*"*	*20.0*		*98.5*	*80-120*			
Duplicate (EI42708-DUP1)	**Source: 4I22007-02**			Prepared & Analyzed: 09/24/04						
Benzene	0.0210	0.00100	mg/L		0.0175			18.2	20	
Toluene	*0.0407*	*0.00100*	"		*0.0384*			5.82	20	
Ethylbenzene	0.00128	0.00100	"		0.00112			13.3	20	
Xylene (p/m)	0.00322	0.00100	"		0.00313			2.83	20	
Xylene (o)	0.00125	0.00100	"		0.00117			6.61	20	
Surrogate: a,a,a-Trifluorotoluene	*22.9*		*ug/l*	*20.0*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.2*		*"*	*20.0*		*81.0*	*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 EI42709 - EPA 5030C (GC)										
Blank (EI42709-BLK1)				Prepared & Analyzed: 09/26/04						
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	*22.1*		*ug/l*	*20.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.1*		"	*20.0*		*95.5*	*80-120*			
LCS (EI42709-BS1)				Prepared & Analyzed: 09/26/04						
Benzene	86.3		ug/l	100		86.3	80-120			
Toluene	87.0		"	100		87.0	80-120			
Ethylbenzene	84.4		"	100		84.4	80-120			
Xylene (p/m)	171		"	200		85.5	80-120			
Xylene (o)	88.6		"	100		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*17.8*		"	*20.0*		*89.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.8*		"	*20.0*		*89.0*	*80-120*			
Calibration Check (EI42709-CCV1)				Prepared & Analyzed: 09/26/04						
Benzene	101		ug/l	100		101	80-120			
Toluene	103		"	100		103	80-120			
Ethylbenzene	98.1		"	100		98.1	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*18.8*		"	*20.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.0*		"	*20.0*		*100*	*80-120*			
Matrix Spike (EI42709-MS1)	**Source: 4I22010-23**			Prepared & Analyzed: 09/26/04						
Benzene	99.9		ug/l	100	ND	99.9	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	98.3		"	100	ND	98.3	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	100		"	100	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*17.9*		"	*20.0*		*89.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*18.5*		"	*20.0*		*92.5*	*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	10/04/04 19:56

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 EI42709 - EPA 5030C (GC)										
Matrix Spike Dup (EI42709-MSD1)	**Source: 4I22010-23**			Prepared & Analyzed: 09/26/04						
Benzene	101		ug/l	100	ND	101	80-120	1.10	20	
Toluene	103		"	100	ND	103	80-120	1.96	20	
Ethylbenzene	102		"	100	ND	102	80-120	3.69	20	
Xylene (p/m)	207		"	200	ND	104	80-120	5.94	20	
Xylene (o)	96.2		"	100	ND	96.2	80-120	3.87	20	
Surrogate: a,a,a-Trifluorotoluene	*17.3*		"	*20.0*		*86.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.8*		"	*20.0*		*89.0*	*80-120*			
Batch EJ40412 - EPA 5030C (GC)										
Blank (EJ40412-BLK1)				Prepared & Analyzed: 09/29/04						
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	*84.0*		"	*100*		*84.0*	*80-120*			
LCS (EJ40412-BS1)				Prepared & Analyzed: 09/29/04						
Benzene	95.1		ug/l	100		95.1	80-120			
Toluene	94.5		"	100		94.5	80-120			
Ethylbenzene	84.9		"	100		84.9	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	87.2		"	100		87.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*115*		"	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*90.8*		"	*100*		*90.8*	*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 EJ40412 - EPA 5030C (GC)										
Calibration Check (EJ40412-CCV1)				Prepared: 09/29/04 Analyzed: 09/30/04						
Benzene	91.1		ug/l	100		91.1	80-120			
Toluene	91.0		"	100		91.0	80-120			
Ethylbenzene	80.7		"	100		80.7	80-120			
Xylene (p/m)	178		"	200		89.0	80-120			
Xylene (o)	83.2		"	100		83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*110*		"	*100*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*105*		"	*100*		*105*	*80-120*			
Matrix Spike (EJ40412-MS1)	**Source: 4I22010-45**			Prepared: 09/29/04 Analyzed: 09/30/04						
Benzene	98.4		ug/l	100	ND	98.4	80-120			
Toluene	98.2		"	100	ND	98.2	80-120			
Ethylbenzene	88.7		"	100	ND	88.7	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	92.6		"	100	ND	92.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*118*		"	*100*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		"	*100*		*104*	*80-120*			
Matrix Spike Dup (EJ40412-MSD1)	**Source: 4I22010-45**			Prepared: 09/29/04 Analyzed: 09/30/04						
Benzene	99.2		ug/l	100	ND	99.2	80-120	0.810	20	
Toluene	96.6		"	100	ND	96.6	80-120	1.64	20	
Ethylbenzene	86.1		"	100	ND	86.1	80-120	2.97	20	
Xylene (p/m)	189		"	200	ND	94.5	80-120	3.64	20	
Xylene (o)	89.1		"	100	ND	89.1	80-120	3.85	20	
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*108*		"	*100*		*108*	*80-120*			
Batch EJ40413 - EPA 5030C (GC)										
Blank (EJ40413-BLK1)				Prepared & Analyzed: 09/30/04						
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	*91.8*		*ug/l*	*100*		*91.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*80.5*		"	*100*		*80.5*	*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 EJ40413 - EPA 5030C (GC)										
LCS (EJ40413-BS1)				Prepared & Analyzed: 09/30/04						
Benzene	101		ug/l	100		101	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	94.0		"	100		94.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*		"	*100*		*111*	*80-120*			
Calibration Check (EJ40413-CCV1)				Prepared: 09/30/04 Analyzed: 10/04/04						
Benzene	98.7		ug/l	100		98.7	80-120			
Toluene	90.4		"	100		90.4	80-120			
Ethylbenzene	82.8		"	100		82.8	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	86.6		"	100		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*111*		"	*100*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			
Matrix Spike (EJ40413-MS1)	**Source: 4I29005-04**			Prepared: 09/30/04 Analyzed: 10/04/04						
Benzene	89.7		ug/l	100	ND	89.7	80-120			
Toluene	90.5		"	100	ND	90.5	80-120			
Ethylbenzene	87.6		"	100	ND	87.6	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	95.7		"	100	ND	95.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*119*		"	*100*		*119*	*80-120*			
Matrix Spike Dup (EJ40413-MSD1)	**Source: 4I29005-04**			Prepared: 09/30/04 Analyzed: 10/04/04						
Benzene	89.7		ug/l	100	ND	89.7	80-120	0.00	20	
Toluene	90.5		"	100	ND	90.5	80-120	0.00	20	
Ethylbenzene	87.6		"	100	ND	87.6	80-120	0.00	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	0.00	20	
Xylene (o)	95.7		"	100	ND	95.7	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*119*		"	*100*		*119*	*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	10/04/04 19:56

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: 10/4/04

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 Biezugbe, Lab Tech.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
4I22010-55	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-61	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-31	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-39	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-41	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-47	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-46	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-42	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-51	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-40	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-57	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-59	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-50	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-52	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-54	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-56	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
			Default Report (not modified)
4I22010-49	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-15	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
	8021B BTEX	(Water)	Result calculations based on MDL
	8021B BTEX	(Water)	RPD calculations based on %Recovery
	8021B BTEX	(Water)	J-Flags used
4I22010-01	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-05	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-06	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-44	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-11	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-62	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-21	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-28	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-18	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-29	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-30	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-36	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-38	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-08	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-52	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-58	8021B BTEX	a,a,a-Trifluorotoluene	Exceeds upper control limit
4I22010-42	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-44	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-46	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-47	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-49	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-40	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-51	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-39	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-54	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-55	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-56	8021B BTEX	a,a,a-Trifluorotoluene	S-04
4I22010-57	8021B BTEX	a,a,a-Trifluorotoluene	S-04