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February 6, 2012

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SUPERFUND DIVISION

Ms. Diana Engeman
Remedial Project Manager
Superfund Division
U.S. Environmental Protection Agency, Region VII
901 North 5th Street
Kansas City, KS 66101

MWH #1011180.0102

RE: 2011 Annual Report
Former Peoples Natural Gas Site
Dubuque, Iowa

40370421



Superfund

Dear Ms. Engeman:

On behalf of MidAmerican Energy Company (MidAmerican), MWH has prepared this Annual Report for the former Peoples Natural Gas (PNG) site located at 925 Kerper Boulevard in Dubuque, Iowa (Figure 1). This Annual Report summarizes activities performed in 2011.

The City of Dubuque (City) constructed a new off-site facility in 2006 for the City Street Division, which formerly operated out of the public works garage built on the site. The building continues to be used by the City for storage of seasonal items and other City equipment. The yard surrounding the building is currently used by the City for storage of various municipal supplies and equipment, as well as a training area by local law enforcement. Since July 2011, the City has leased the northeast addition to the building and a portion of the property located east of the building to Spahn and Rose Lumber Company (Spahn and Rose). Spahn and Rose uses the leased area for storage of construction materials, including asphalt shingles, lumber, and other similar materials. The City also stores snow in the yard during the winter months. The City maintains access to all wells located within the property's perimeter fencing. The City's fueling system at the PNG site is no longer in use. The canopy, fuel pumps, and associated piping were removed, and the fuel tanks were closed in place in August 2010. The City is not actively searching for a new tenant for the property; however, the possibility of finding a new tenant for the property remains.

CITY OF DUBUQUE SEWER LINE BREAK AND REPAIR

The City informed United States Environmental Protection Agency (EPA) and MidAmerican of a sewer line break beneath the facilities building on October 4, 2011. The City contracted Terracon for project oversight and environmental testing. Workers from Langman Construction conducted repairs in mid-October and generated approximately 250 cubic yards of contaminated soil. The soil was placed on site northeast of the garage on plastic and covered.

As of late December 2011, the soil stockpile remains on site pending disposal by the City at the Dubuque Metro Landfill.

SUMMARY OF GROUNDWATER RESTORATION

No active treatment was completed during 2011. The proposed alternative remedial strategy identified in the May 2006 Technical Impracticability (TI) Report is a technically practicable alternative that incorporates access restrictions, previous soil removal actions, and monitored natural attenuation (MNA) to achieve the site groundwater chemical-specific remediation goals outside of the TI zone. The alternative remedial strategy is protective of human health and the environment. The petition to the EPA for approval of the TI Waiver was submitted by MidAmerican on December 1, 2006 and is currently pending EPA approval.

ACTIVITIES COMPLETED DURING THE REPORTING PERIOD

Semiannual Groundwater Sampling Activities

Groundwater sampling of the compliance monitoring wells and other selected wells at the site was conducted during the weeks of April 26 and September 19, 2011. MidAmerican proposed modifications to the groundwater monitoring program in a letter dated August 31, 2011. The proposed modifications were requested to tailor the monitoring program to current groundwater conditions at the site. It discontinued sampling at selected monitoring well locations which were formerly downgradient of the site, but are now upgradient due to changes in groundwater flow direction; or where groundwater quality is adequately characterized by other monitoring wells. The EPA approved, with modifications, the groundwater monitoring plan in a letter dated September 15, 2011. The laboratory analytical reports for the 2011 semiannual monitoring events were previously provided to the EPA under separate cover. During the 2011 sampling events the groundwater analyte list at selected wells included key MNA parameters in addition to the contaminants of concern (polynuclear aromatic hydrocarbons [PAHs]; and benzene, toluene, ethylbenzene, and xylenes [BTEX]). The groundwater analytical database is included in Attachment A. Water elevation data is provided in Table 1. Groundwater flow and contaminant plume maps for the 2011 monitoring events are illustrated in Figures 2 through 11. The concentrations of BTEX and naphthalene detected in monitoring well P-112 over time are graphed in Figure 12.

Additional Delineation and Preliminary Remedial Design

As requested by EPA, MidAmerican evaluated remedial options to address groundwater impact in the vicinity of monitoring well P-112. As discussed during an April 7, 2011 teleconference between EPA, MidAmerican, and MWH; evaluation of a groundwater control remedy to address

migration of impacted groundwater toward the Mississippi River was required. MidAmerican submitted a Work Plan for Additional Delineation and Preliminary Remedial Design on May 20, 2011 (May 2011 Work Plan), which was approved by EPA in letter dated June 3, 2011. During the week of June 13, 2011, MidAmerican conducted well inspections and well plugging activities as outlined in the May 2011 Work Plan. Abandonment forms for the six wells plugged in June 2011 were submitted to the Dubuque County Health Department, with a copy to EPA, on July 12, 2011. Based on the well inspections, two additional wells (W-20 and W-119) were proposed for abandonment based on significant corrosion observed in the inspection videos.

Wells Abandoned During 2011

<u>Well Identification</u>	<u>Month of Abandonment</u>
W-13B	June 2011
W-13C	June 2011
W-15B	June 2011
W-15C	June 2011
W-22C	June 2011
W-22D	June 2011
W-20	October 2011
W-119	October 2011

During the week of July 25, 2011 MidAmerican completed the remaining on-site work outlined in the May 2011 Work Plan. Work consisted of installing two water level monitoring points (TP-101 and TP-102), further groundwater delineation around P-112 (Figure 13), and collection of geotechnical data for the preliminary remedial design.

The analytical data for the direct-push groundwater samples is provided in Attachment A. Boring logs and construction diagrams for the direct-push and water level monitoring points are provided in Attachment B. The laboratory analytical report for the groundwater samples was previously provided to EPA under separate cover. An evaluation of data was conducted and MidAmerican proposed to conduct a pilot test for hydraulic containment.

Each of the ten direct-push points (DP-1 through DP8, TP-101, and TP-102) in the P-112 area (Figure 13) were advanced using cone penetration test (CPT) equipment to evaluate geotechnical properties, determine the thickness of the silty sand aquifer, and elevation of the lower confining unit (LCU) in the P-112 area. The CPT provided real time data on the lithologies encountered during the work and allowed identification of the LCU. Evaluation of the CPT and other geotechnical data collected in July 2011 will be evaluated in the preliminary design report to be provided to EPA in the spring of 2012.

Pilot Test

On September 29, 2011, MidAmerican submitted a Pilot Test Plan. The proposed pilot testing activities consist of a 96-hour constant discharge aquifer test to determine aquifer parameters for design of a hydraulic containment system, and groundwater sampling from the pumping well for laboratory analysis to assess the viability of direct discharge to the City's Water Pollution Control Plant (WPCP) through the sanitary sewer system. The plan was approved by the EPA in a letter dated October 6, 2011.

During the week October 17, 2011, MidAmerican installed SE-3 and abandoned W-20 and W-119, as outlined in the Pilot Test Plan. Well Abandonment Forms were submitted to the Dubuque County Health Department, with a copy to EPA, in a letter dated November 11, 2011. Also on November 11, 2011, pre-pilot test activities were completed on site. Electrical service was installed, a 21,000-gallon temporary storage tank was delivered, pressure transducers were deployed in monitoring wells, and the well pump was installed and plumbed to the frac tank.

On November 22, 2011, the EPA approved the City's request for disposal of generated groundwater. The constant rate aquifer test was completed the week of November 28, 2011. Results of the pilot test will be submitted to EPA under separate cover.

SAMPLING DATA

Copies of the laboratory analytical reports for semiannual monitoring data obtained during 2011 have previously been provided to the EPA.

ACTIVITIES ANTICIPATED DURING THE UPCOMING REPORTING PERIOD

MidAmerican will evaluate results of the pilot test and will provide recommendations to EPA in the spring of 2012. It is also anticipated additional monitoring wells will be installed during 2012, including replacement of W-20 to provide monitoring of the alluvial aquifer on that portion of the site, installation of a silty sand aquifer well northeast of P-112, and installation of a silty sand aquifer monitoring well east of W-117R. Proposed locations for these additional wells will be provided, along with the remedial recommendations for the site, in the spring of 2012.

Semiannual groundwater monitoring events are scheduled in 2012. MidAmerican proposes to postpone the March 2011 event to late April 2012 to allow for the on-site snow stockpile to melt and dissipate from the area if needed. The second semiannual monitoring event is scheduled for October 2012.

If you have any questions regarding the site, please contact Jenny McIvor of MidAmerican at (712) 352-5434 or me at (515) 253-0830.

Sincerely,



Kevin G. Armstrong, C.P.G.
Project Manager

/cwo:kga:vas

Enclosures:

Table 1 - Water Level Elevation Data

Figure 1 - Site Map

Figure 2 - Groundwater Flow Direction Map, Water Table Aquifer, April 26, 2011

Figure 3 - Groundwater Flow Direction Map, Silty Sand Aquifer, April 26, 2011

Figure 4 - Groundwater Flow Direction Map, Alluvial Aquifer, April 26, 2011

Figure 5 - Groundwater Flow Direction Map, Water Table Aquifer, September 19, 2011

Figure 6 - Groundwater Flow Direction Map, Silty Sand Aquifer, September 19, 2011

Figure 7 - Groundwater Flow Direction Map, Alluvial Aquifer, September 19, 2011

Figure 8 - Benzene and Naphthalene Concentrations in Silty Sand Aquifer, April 2011

Figure 9 - Benzene and Naphthalene Concentrations in Alluvial Aquifer, April 2011

Figure 10 - Benzene and Naphthalene Concentrations in Silty Sand Aquifer,
September 2011

Figure 11 - Benzene and Naphthalene Concentrations in Alluvial Aquifer, September 2011

Figure 12 - P-112 Concentrations

Figure 13 - Direct-Push Groundwater Delineation Results

Attachment A - Groundwater Analytical Database

Attachment B - Lithologic Logs and Construction Diagrams for July 2011 Locations

cc: Jenny McIvor, MidAmerican Energy Company
Dan Cook, Iowa Department of Natural Resources
Jim Rost, Iowa Department of Transportation
Barry Lindahl, City of Dubuque
Don Vogt, City of Dubuque

TABLE



MWH

TABLE 1
WATER LEVEL ELEVATION DATA
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Location	Reference Elevation (NAVD 1988)	Total Well Depth (feet btoc)	10-Jan-05	14-Mar-05	10-Oct-05	14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07	5-May-08	30-Sep-08	28-Apr-09	15-Sep-09	30-Mar-10	5-May-10	14-Sep-10	26-Apr-11	19-Sep-11
Water Table Wells																		
W-2	613.30	22.7	598.33	598.46	598.30	597.30	599.36	600.09	599.80	601.72	599.49	600.38	599.92	599.19	600.13	600.35	601.63	600.20
W-4	613.07	23.4	593.65	594.13	594.02	593.69	594.09	597.90	595.27	600.52	593.66	596.16	594.39	596.91	595.90	595.69	602.02	594.96
W-7	609.11	22.5	595.83	594.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—
D-2	609.48	20.0	600.55	601.67	602.24	602.49	602.16	603.26	601.06	603.17	600.83	602.84	600.69	600.14	602.04	602.03	603.38	601.51
D-3	609.17	20.0	599.39	599.50	600.09	599.30	600.87	602.04	600.17	602.61	601.96	601.58	600.29	599.78	600.44	603.73	602.56	600.57
D-7	609.16	22.3	597.53	597.74	597.81	597.25	598.76	596.52	598.81	601.05	598.46	595.26	598.81	598.41	598.91	599.34	601.44	599.22
Silty Sand Aquifer Wells																		
SI-2	612.66	39.6	593.48	593.60	594.11	593.71	592.60	597.25	593.17	600.06	592.79	596.08	592.46	598.55	594.52	594.61	600.76	593.23
SE-2	608.90	32.5	593.51	593.62	594.21	593.70	592.65	597.32	593.20	599.93	592.80	596.08	592.47	598.42	594.87	594.68	600.42	593.22
Drain Sump	610.20	27.9	594.75	594.64	595.32	594.62	—	598.10	594.48	600.83	594.09	597.18	593.55	599.25	595.89	595.87	601.16	595.38
MP-10-D	612.12	36.8	597.82	597.72	597.38	597.06	596.74	596.83	595.34	599.67	599.24	596.31	596.08	598.89	598.81	598.87	599.71	599.27
P-110	612.64	33.5	593.67	593.63	594.12	593.76	592.61	597.18	593.25	599.99	592.90	596.06	592.55	598.42	594.62	594.73	600.65	593.26
P-112	612.15	38.8	593.45	593.58	594.19	593.73	592.57	597.13	593.10	600.17	592.64	596.08	592.33	598.61	594.39	594.53	601.84	593.07
W-113	610.36	34.8	—	—	594.00	593.79	592.51	597.05	593.18	599.85	592.82	596.01	592.39	598.36	594.61	594.74	600.60	593.19
W-117	612.93	35.0	593.51	593.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W-117R	612.91	35.7	—	—	594.09	593.79	592.68	597.22	593.29	600.10	592.86	592.23	592.52	598.56	594.59	594.63	601.01	593.23
W-118	607.23	28.5	—	595.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W-118R	607.85	29.0	—	—	594.10	593.81	592.75	595.38	593.37	599.93	593.14	596.02	592.70	598.34	594.79	594.94	600.51	593.36
W-119	612.60	35.0	593.70	593.82	594.42	593.95	592.90	597.34	593.45	600.15	593.00	596.34	592.67	597.62	594.71	594.94	600.53	593.44
W-120	613.64	38.0	593.69	593.82	594.40	593.96	592.94	597.31	594.54	599.99	593.04	596.33	592.74	598.56	594.80	594.78	600.22	593.49
W-121	611.24	32.9	593.92	594.04	594.49	594.19	593.13	597.33	593.74	600.05	593.38	596.37	593.01	599.07	595.06	595.19	600.35	593.72
W-122	612.49	38.1	593.64	593.72	594.38	593.94	592.92	597.38	592.38	599.79	592.97	596.34	592.69	598.40	594.72	594.97	599.78	593.43
W-126	610.01	30.0	—	—	593.98	593.53	592.76	596.75	593.29	599.69	593.03	595.98	592.46	598.46	594.81	594.92	600.03	593.37
W-127	607.83	26.0	—	—	593.93	593.72	593.43	596.94	593.59	598.80	593.78	596.21	592.75	598.17	595.71	595.48	599.61	593.87
W-128	608.10	24.8	—	—	—	—	—	—	593.45	—	592.26	592.22	592.73	598.07	595.00	595.20	599.69	593.40
SS-6	608.05	31.5	593.49	593.58	594.05	593.62	592.57	597.11	593.19	600.03	592.76	596.07	592.42	598.42	594.49	594.95	600.52	591.60
SS-7	608.73	33.2	593.52	593.61	594.12	593.78	593.43	597.13	593.33	600.05	592.95	596.68	592.50	598.45	594.58	594.74	600.42	593.12
SS-8	609.97	33.4	593.64	593.75	594.23	593.82	592.82	597.32	593.39	599.95	592.97	596.16	592.67	598.15	594.67	594.87	600.43	593.36
SS-9	606.45	28.0	593.43	592.59	593.75	593.70	592.56	596.90	593.24	599.45	593.02	595.90	592.59	597.98	594.69	594.63	600.17	593.30
SS-10	611.40	35.1	593.74	593.75	594.42	594.03	592.91	597.31	593.49	600.37	593.07	596.34	592.74	598.67	594.78	594.96	600.69	593.53
D-4	608.62	37.0	592.47	593.57	594.22	593.71	592.76	597.25	593.12	600.10	592.68	596.10	592.33	598.51	594.40	594.53	600.64	593.12
D-5	609.54	37.5	593.51	589.86	594.19	593.69	592.72	597.24	593.09	600.09	592.68	596.07	592.16	598.48	594.36	594.49	600.64	593.09
D-6	609.59	37.0	—	593.58	594.18	594.85	592.76	597.24	593.05	600.14	592.63	596.05	592.34	598.53	594.34	594.47	600.74	593.05
D-8	608.64	37.8	593.45	593.58	594.16	593.70	592.68	597.06	592.04	600.22	592.66	596.10	592.34	598.66	594.39	594.52	601.09	593.12

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Alluvial Aquifer Wells																		
AE-1	610.46	87.7	594.27	593.63	594.25	593.79	592.57	597.27	593.19	600.26	592.78	596.17	592.44	598.70	594.53	594.65	600.92	593.15
W-10	612.49	47.2	593.49	593.67	594.12	593.80	592.55	597.24	593.21	600.06	592.85	596.09	592.46	598.49	594.64	592.73	600.77	593.17
W-11	608.99	47.5	594.23	599.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W-13	609.46	48.0	593.54	593.69	594.08	593.85	592.63	597.16	593.26	599.97	592.88	596.08	592.52	598.41	594.68	594.78	600.71	593.28
W-13B	609.61	102.7	593.46	593.61	594.00	593.78	592.47	597.02	593.06	599.81	592.69	592.05	592.27	598.16	594.54	594.56	600.50	---
W-13C	609.52	186.6	593.60	593.77	594.12	593.90	592.54	598.21	592.30	600.95	593.14	595.92	592.67	597.41	596.29	596.12	601.24	---
W-15	612.69	53.0	593.63	593.78	594.38	594.01	592.78	597.33	597.34	600.43	592.90	596.34	592.67	598.83	594.67	594.77	600.85	593.26
W-15B	612.23	141.9	593.74	593.90	594.48	594.08	592.87	597.42	593.42	600.50	593.00	596.42	592.67	598.93	594.76	594.87	---	---
W-15C	612.80	262.5	593.82	594.30	594.58	594.20	592.97	596.53	593.55	600.62	593.12	596.54	592.80	599.06	594.85	594.98	601.36	---
W-18	612.44	50.9	593.53	593.70	594.19	593.86	592.63	597.23	593.24	600.10	592.88	596.13	592.51	598.54	594.65	594.75	600.73	593.22
W-20	611.92	51.0	593.37	593.49	594.14	593.80	592.47	597.10	593.02	600.30	592.56	596.05	592.19	598.73	594.29	594.43	601.18	592.09
W-21	607.03	50.0	---	593.65	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W-21R	607.64	49.5	---	---	594.12	593.80	592.60	597.08	593.24	600.00	592.89	596.09	592.49	598.37	594.63	595.36	600.49	593.19
W-22	613.95	69.0	593.68	590.10	594.42	594.04	592.84	597.35	593.40	600.40	592.98	596.37	592.64	598.92	594.75	594.86	600.92	593.32
W-22C	613.68	218.9	593.86	594.01	594.56	594.20	593.90	597.53	593.58	600.61	593.12	596.51	592.82	599.03	594.91	594.99	601.50	---
W-22D	614.08	276.4	593.79	593.94	594.55	594.17	592.96	597.49	593.53	600.54	593.30	596.50	592.78	599.03	594.90	594.97	601.13	---
W-23	609.75	73.0	593.44	593.60	594.18	593.75	592.53	597.15	593.13	600.30	592.66	596.14	592.34	598.82	594.41	594.53	601.01	592.97
W-24	612.18	76.5	592.44	589.85	594.23	593.79	592.62	597.17	593.08	600.35	592.60	596.15	592.31	598.77	594.40	594.51	601.20	593.07
W-25R	611.81	72.4	593.75	593.87	593.40	594.10	592.90	598.41	593.50	600.29	593.12	596.37	592.75	598.75	594.86	595.00	600.71	593.40
W-26	610.41	49.7	---	---	594.01	594.30	592.78	596.98	593.31	599.71	593.06	596.06	592.47	598.43	594.83	594.95	600.73	593.37
W-27	607.70	49.7	---	---	594.02	594.04	592.90	596.81	593.45	599.40	593.33	596.42	592.72	598.15	595.15	595.33	599.89	593.60
Mississippi River ^a	584.80	NA	593.2	593.4	594.2	593.5	591.9	597.7	592.6	601.8	592.0	596.5	592.0	600.1	593.6	593.7	603.9	593.0

Notes:

btoc = Below top of casing.

NA = Not applicable.

--- = Not gauged.

NAVD 1988 = North American Vertical Datum of 1988.

^a River gage reading at station DBQ14 (corrected to NAVD 1988).

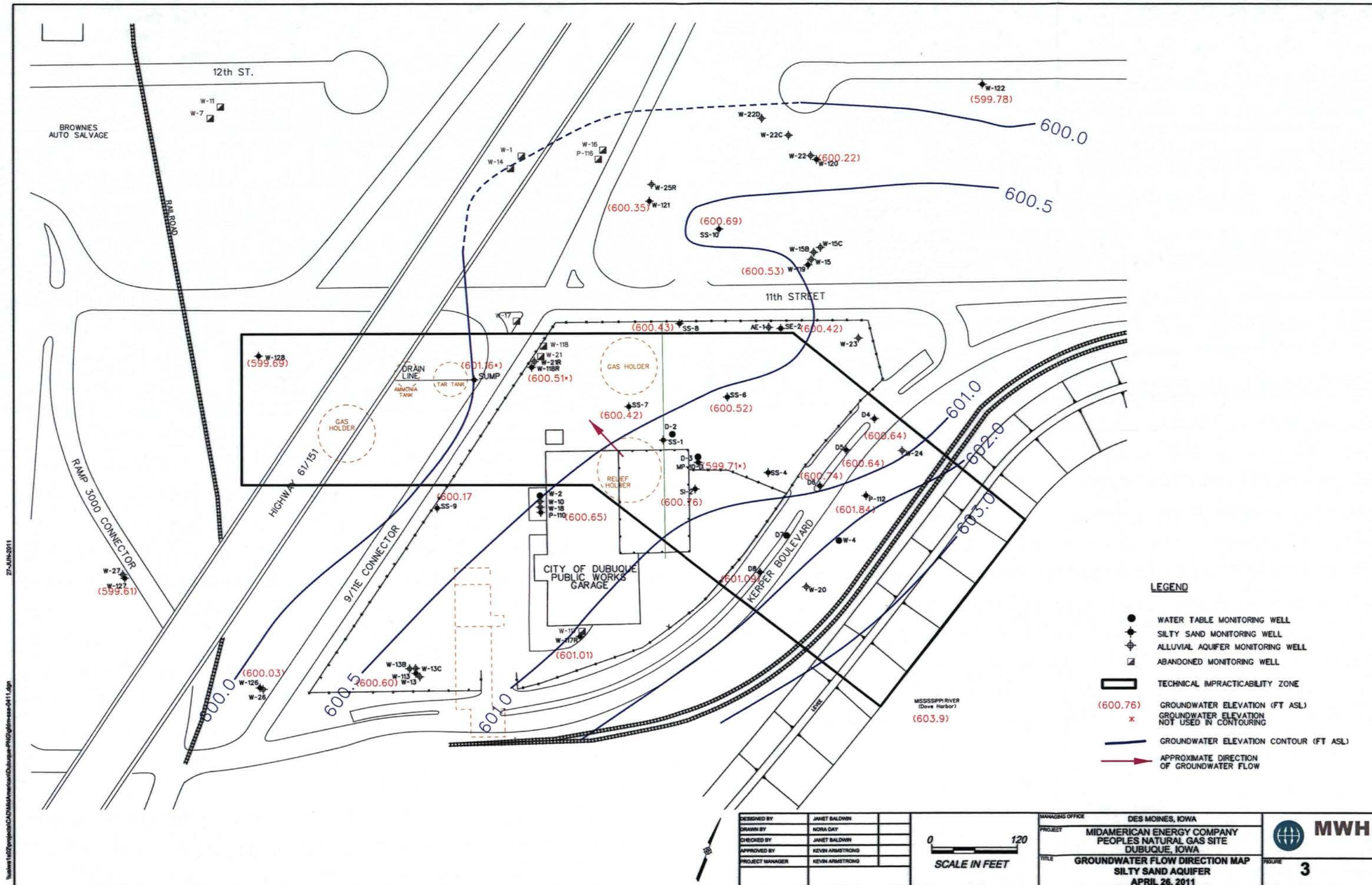
FIGURES



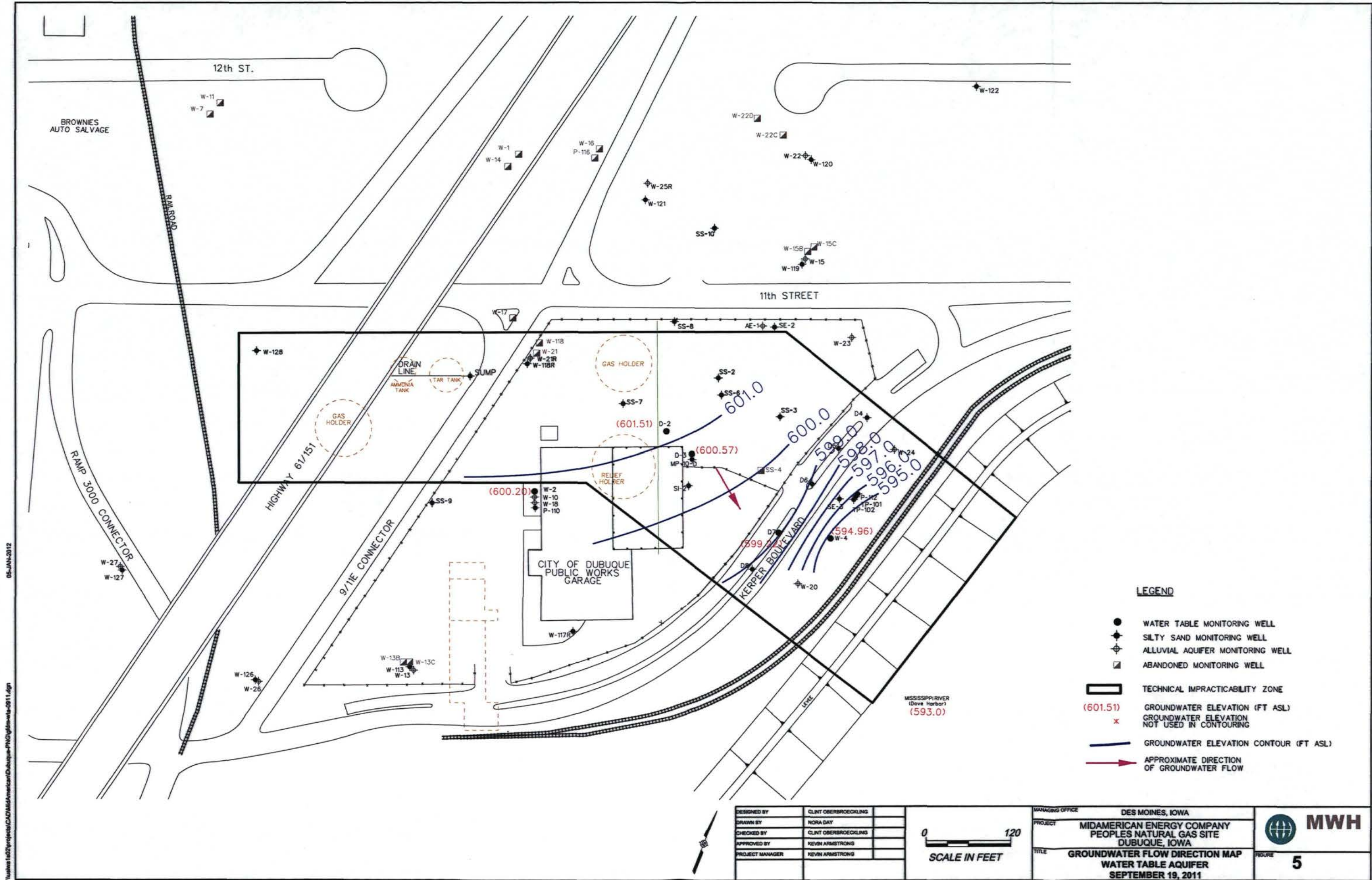
MWH







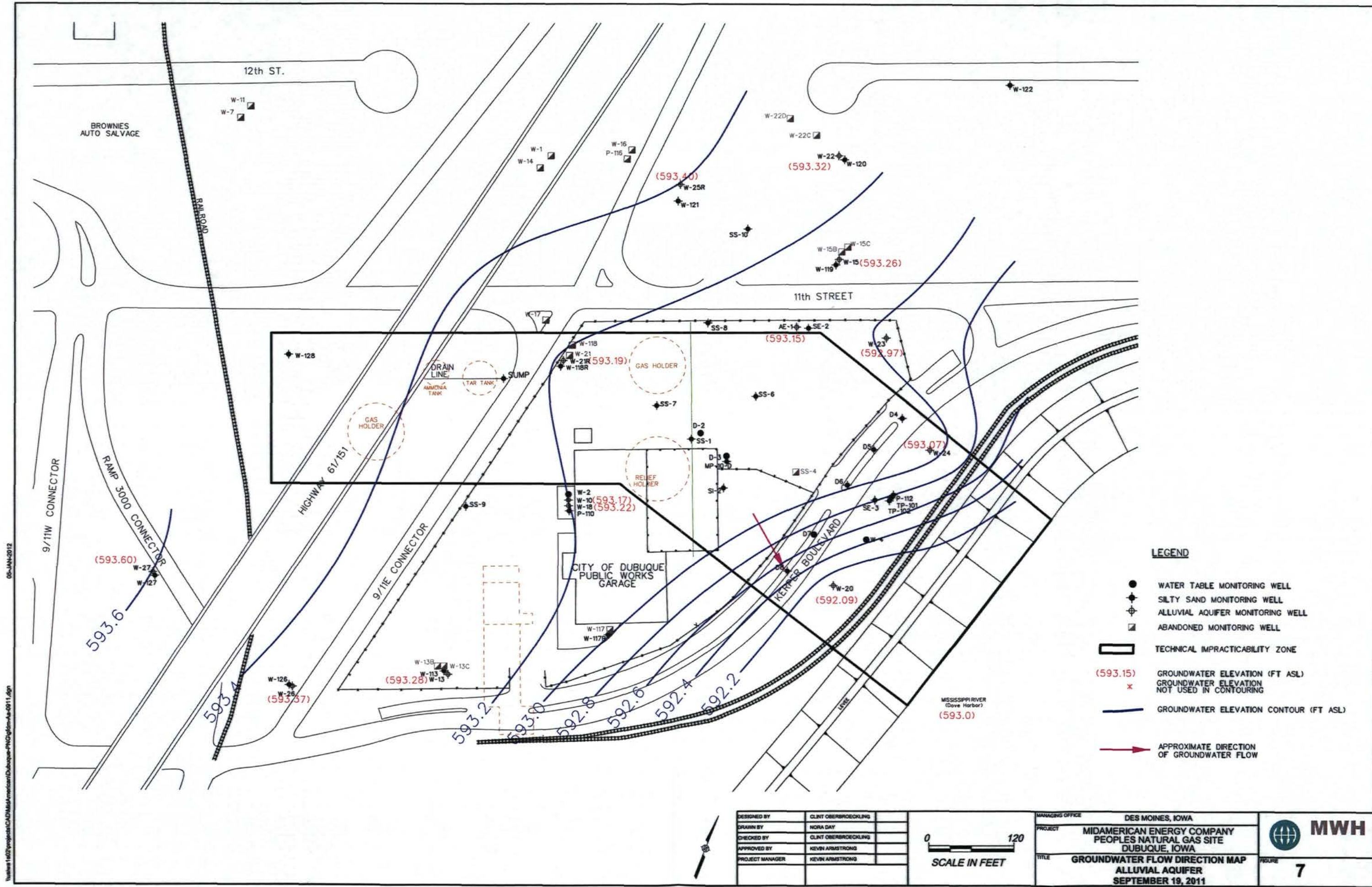




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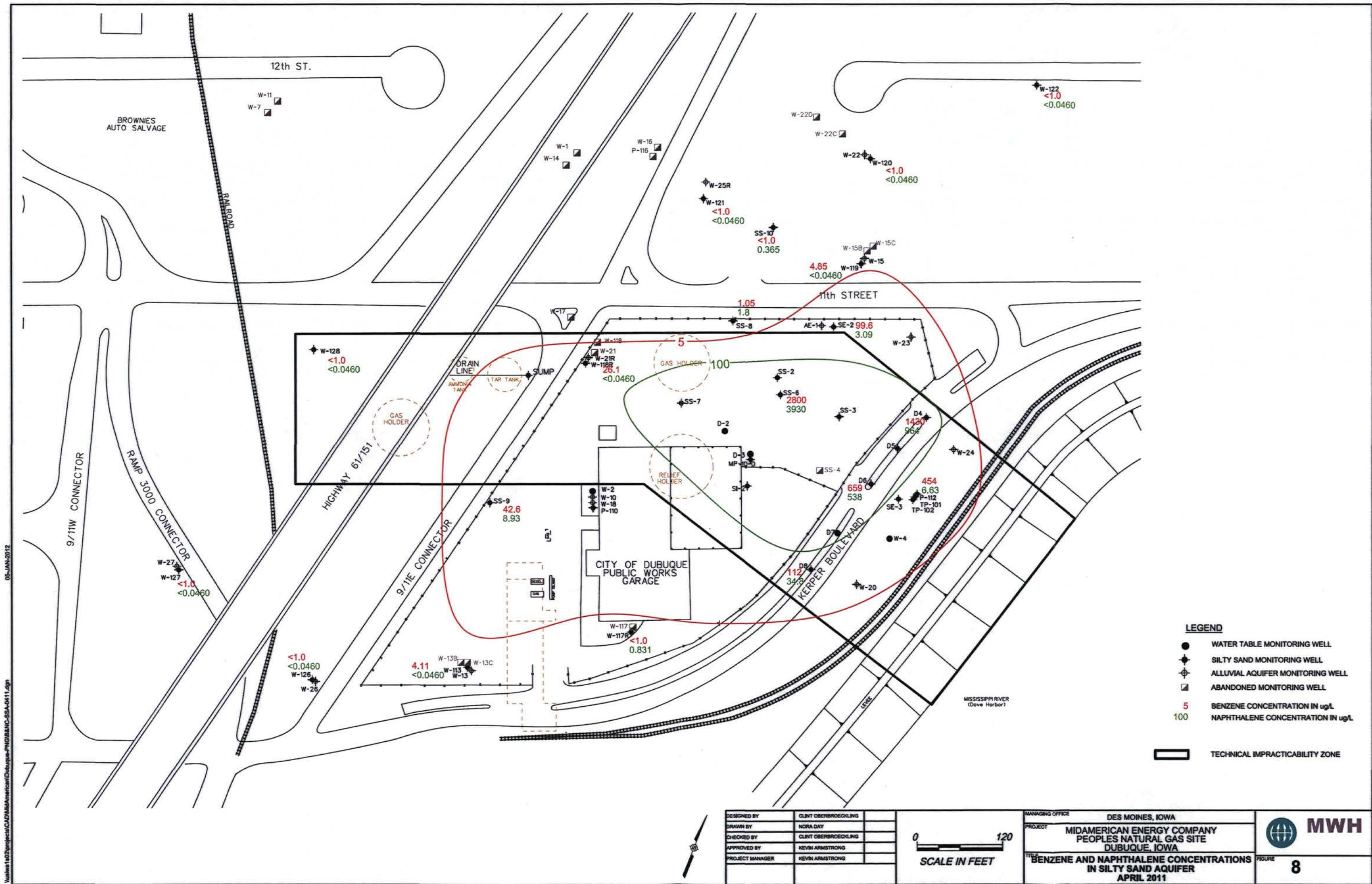
DESIGNED BY	CLINT OBERBROECKING
DRAWN BY	NORA DAY
CHECKED BY	CLINT OBERBROECKING
APPROVED BY	KEVIN ARMSTRONG
PROJECT MANAGER	KEVIN ARMSTRONG



MANAGING OFFICE	DES MOINES, IOWA
PROJECT	MIDAMERICAN ENERGY COMPANY PEOPLES NATURAL GAS SITE DUBUQUE, IOWA
TITLE	GROUNDWATER FLOW DIRECTION MAP ALLUVIAL AQUIFER SEPTEMBER 19, 2011

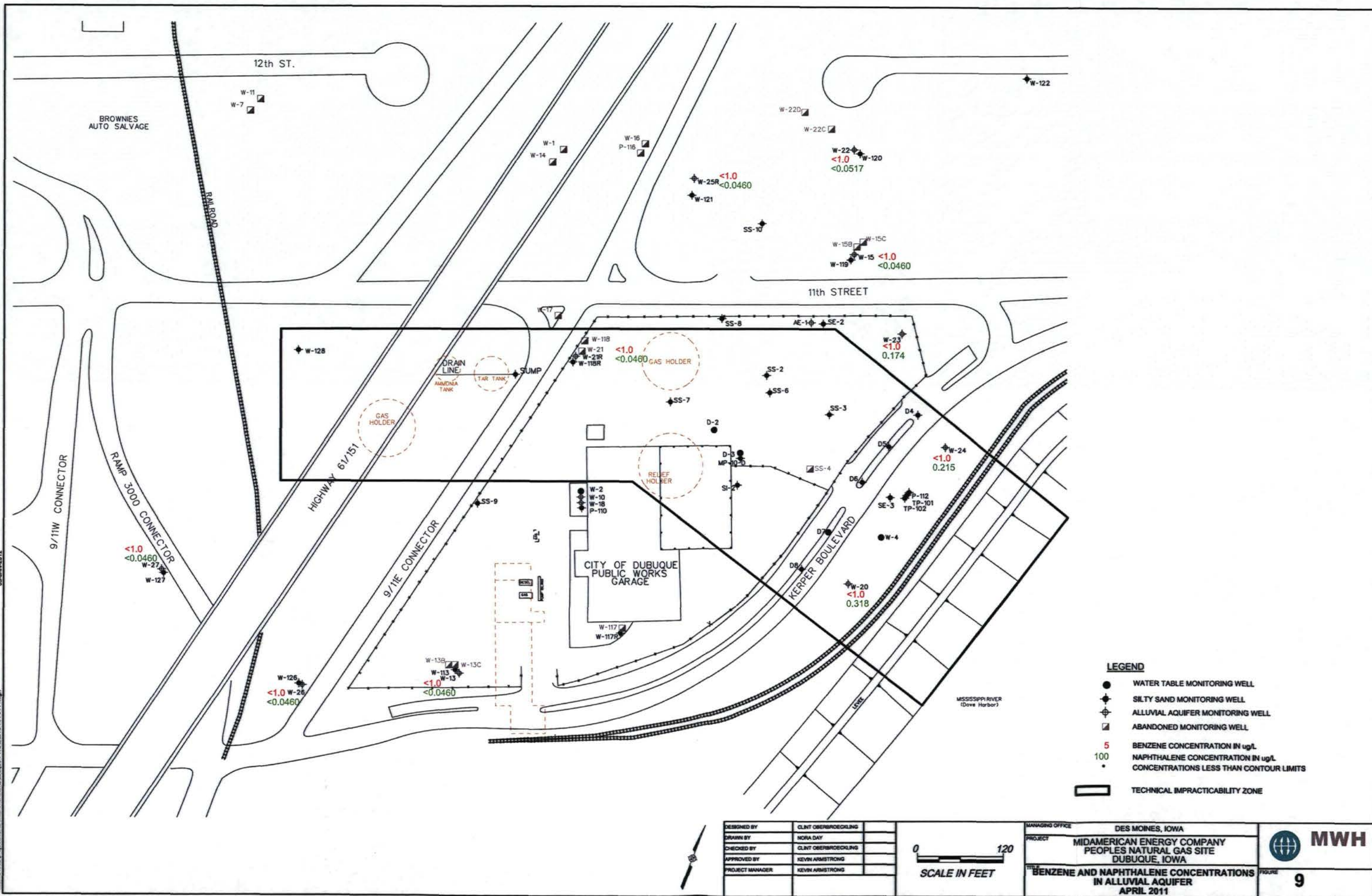
MWH

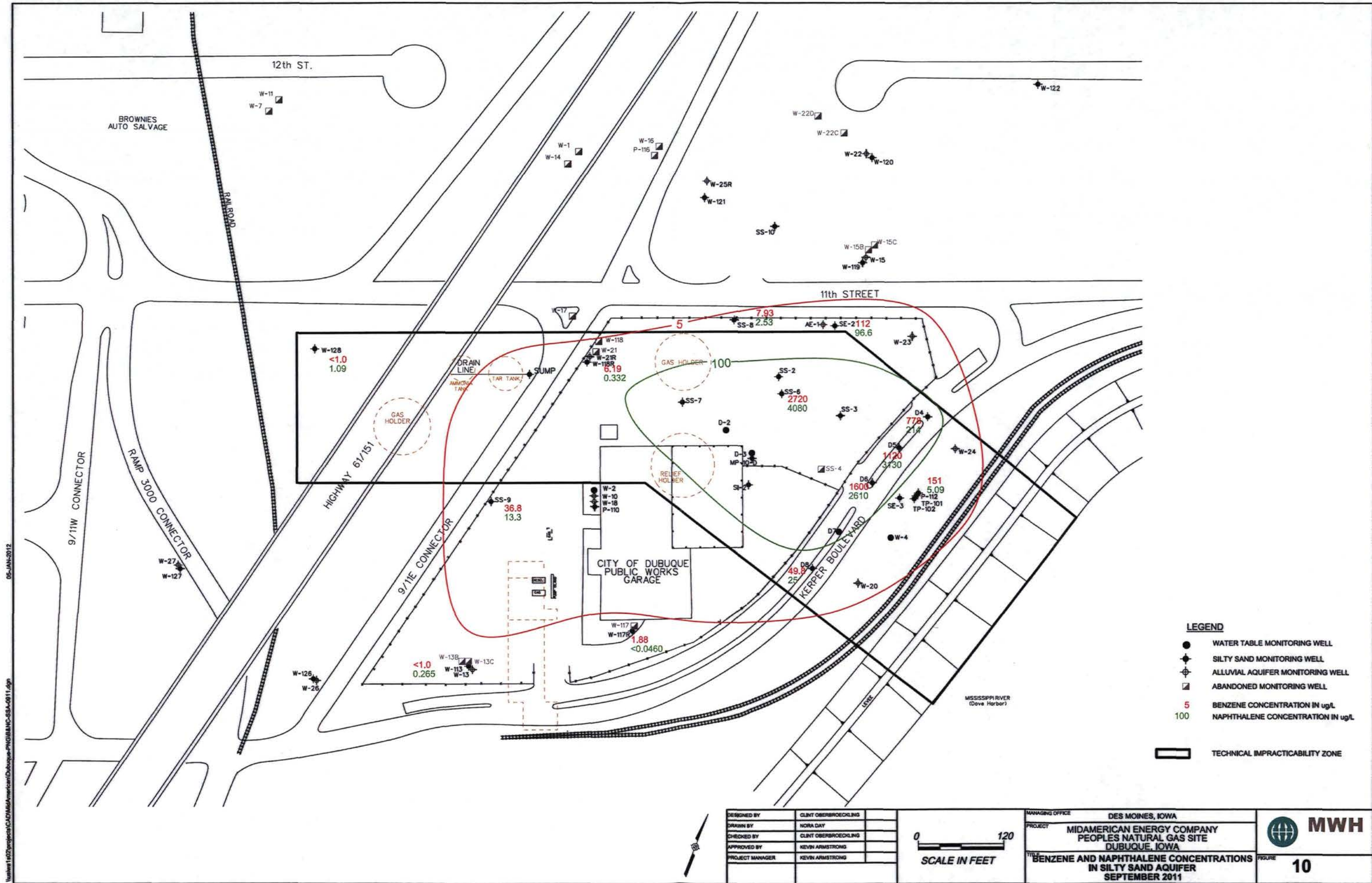
FIGURE 7

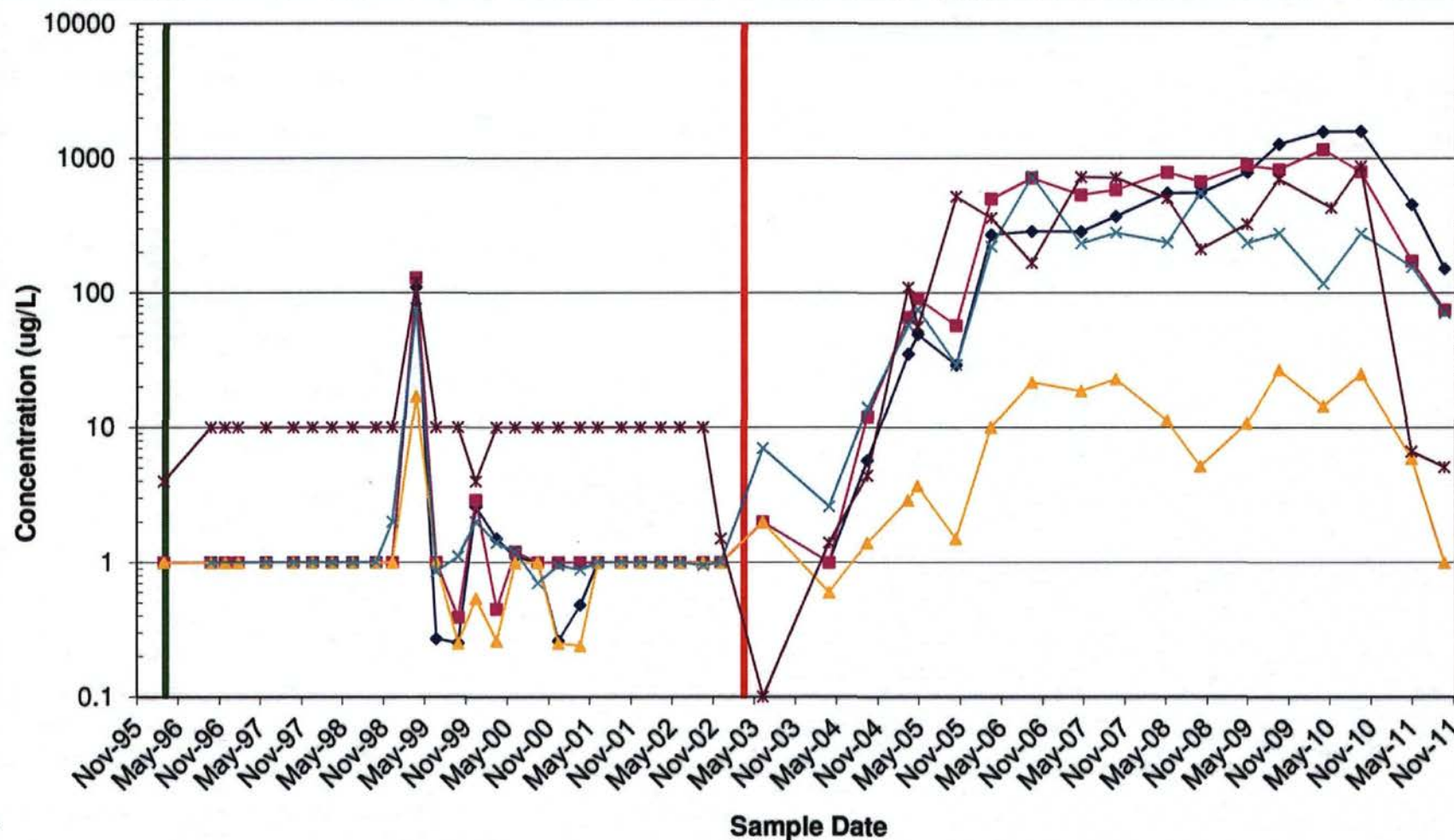


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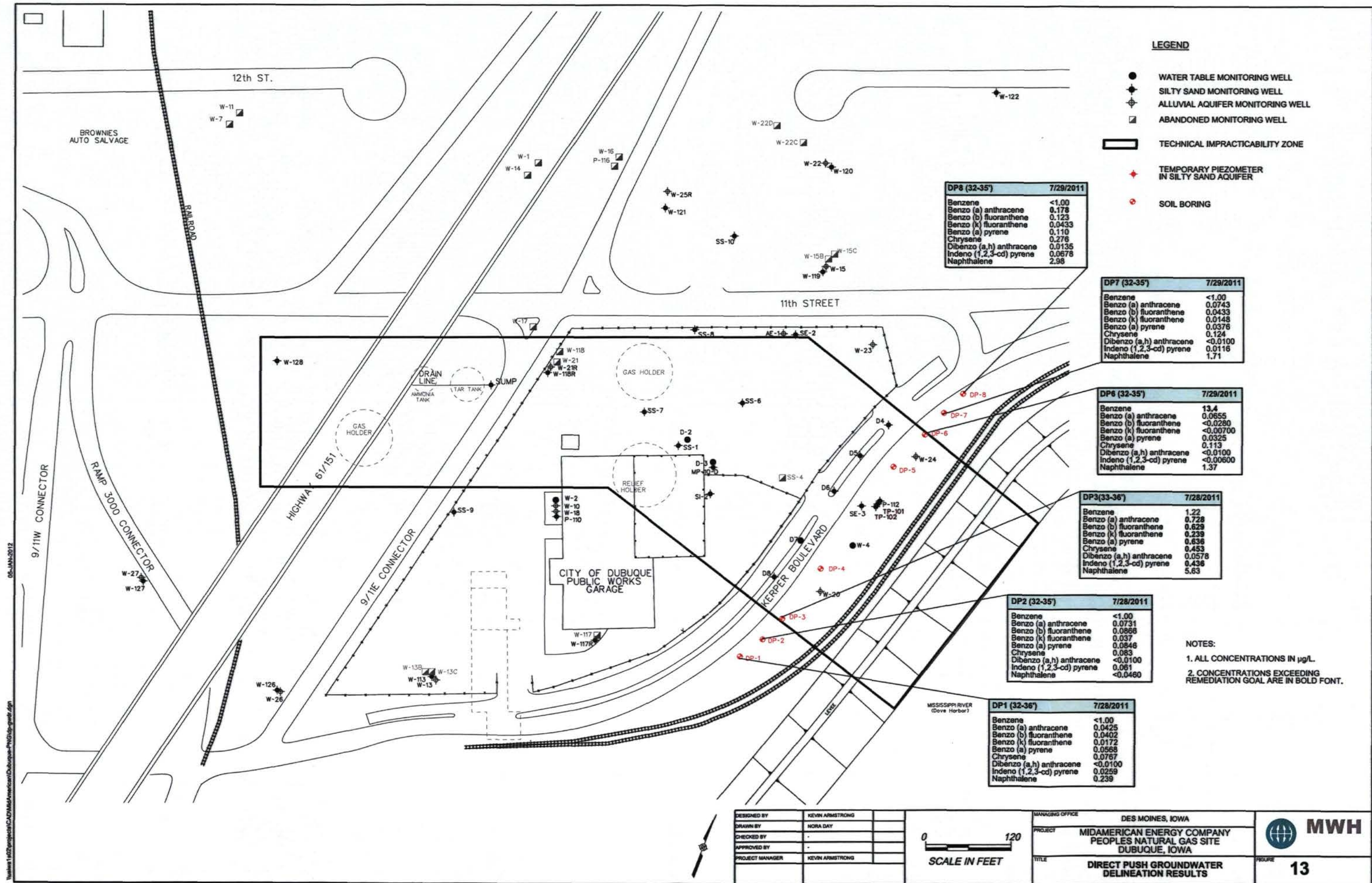
System Startup
 System Shutdown
 Benzene
 Ethylbenzene
 Toluene
 Xylenes
 Naphthalene

DESIGNED BY	MWH
DRAWN BY	K. ARMSTRONG
CHECKED BY	C. OBERBROCKUNG
APPROVED BY	K. ARMSTRONG
PROJECT MANAGER	K. ARMSTRONG

MANAGING OFFICE	DES MOINES, IOWA
PROJECT	MIDAMERICAN ENERGY COMPANY PEOPLES NATURAL GAS SITE DUBUQUE, IOWA
TITLE	P-112 CONCENTRATIONS

FIGURE 12

REVISION 1



ATTACHMENT A



MWH

SE-3 GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Units	1997 Permit Limits			Sample Location: SE-3 SE-3 SE-3 SE-3 SE-3 SE-3					
		Average	Maximum	Remediation Goal	Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand					
					Depth BTOC (feet):					
					Sample Date: 10/19/2011 11/28/11 18:00 11/29/11 12:45 11/29/11 12:50 12/1/11 12:55 12/2/11 12:55					
Benzene	µg/L	2,000	5,000	5	311	329	354	443	528	534
Toluene	µg/L	600	1,500	2,000	4.21	<10.0	12.3	22.1	30.6	28.4
Ethylbenzene	µg/L	200	500	700	273	260	256	320	333	326
Xylenes	µg/L	600	1,500	10,000	247	41.5	73.1	117	144	142
2-Methylnaphthalene	µg/L	2,000	5,000	—	na	10.1	14.4	48.8	56.2	57.8
Acenaphthene	µg/L	400	1,000	—	79.5	73.4	61.0	72.5	76.4	70.1
Acenaphthylene	µg/L	400	1,000	—	<0.870	<0.870	<0.870	<0.870	<8.70	<8.70
Anthracene	µg/L	2,000	5,000	—	0.831	0.805	0.814	0.984	1.03	1.3
Benzo(a)anthracene	µg/L	19	47	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Benzo(a)pyrene	µg/L	20	48	0.2	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800
Benzo(b)fluoranthene	µg/L	19	47	0.2	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280
Benzo(g,h,i)perylene	µg/L	400	1,000	—	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800
Benzo(k)fluoranthene	µg/L	19	47	0.2	<0.00700	<0.00700	<0.00700	<0.00700	<0.00700	<0.00700
Chrysene	µg/L	19	47	0.2	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800
Dibenzo(a,h)anthracene	µg/L	45	65	0.2	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Fluoranthene	µg/L	400	1,000	—	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Fluorene	µg/L	200	500	—	35.9	32.9	27.5	32.5	38.6	38
Indeno(1,2,3cd)pyrene	µg/L	45	65	0.4	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Naphthalene	µg/L	2,000	5,000	100	21.3	71.6	183	359	464	454
Phenanthrene	µg/L	400	1,000	—	9.14	9.28	8.06	9.72	10.1	9.31
Pyrene	µg/L	400	1,000	—	0.224	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170
Dibenzofuran	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
Total PAHs	µg/L	6,000	15,000	—	147	198	295	522	644	629
2,4-Dinitrotoluene	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
2,6-Dinitrotoluene	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
Nitrobenzene	µg/L	2,000	5,000	—	na	na	na	na	na	<50.0 RL1

SE-3 GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

				Sample Location:	SE-3	SE-3	SE-3	SE-3	SE-3	SE-3
				Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
				Depth BTOC (feet):						
				Sample Date:	10/19/2011	11/28/11 18:00	11/29/11 12:45	11/29/11 12:50	12/1/11 12:55	12/2/11 12:55
				Remediation Goal						
Analyte	Units	Average	Maximum							
2,4-Dimethylphenol	µg/L	2,000	5,000	—	na	na	na	na	na	<50.0 RL1
2,4-Dinitrophenol	µg/L	400	1,000	—	na	na	na	na	na	<100 RL1
4,6-Dinitro-2-methylphenol	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
2-Nitrophenol	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
4-Nitrophenol	µg/L	400	1,000	—	na	na	na	na	na	<50.0 RL1
Phenol	µg/L	2,000	5,000	—	na	na	na	na	na	<50.0 RL1
Total Phenolic Compounds	µg/L	4,000	10,000	—	na	na	na	na	na	ND
Chromium, Total	mg/L	—	—	—	na	na	na	na	na	<0.0200
Copper, Total	mg/L	—	—	—	na	na	na	na	na	<0.0200
Iron, Total	mg/L	—	—	—	na	na	na	na	na	68.8
Lead, Total	mg/L	400	1,000	—	na	na	na	na	na	<0.100
Manganese, Total	mg/L	—	—	—	na	na	na	na	na	4.21
Nickel, Total	mg/L	—	—	—	na	na	na	na	na	<0.0500
Zinc, Total	mg/L	1,000	2,500	—	na	na	na	na	na	<0.100 IE
Cyanide, Total	mg/L	500	1,250	—	na	na	na	na	na	0.848 pH<12
TPH as Gasoline	mg/L	—	—	—	na	na	na	na	na	5.45
Hardness, Total	mg/L	—	—	—	na	na	na	na	na	1920 pH>2
Cyanide (amenable)	mg/L	500	1,250	—	na	na	na	na	na	0.039 pH<12
pH	s.u.	—	—	—	6.49	6.31	6.50	6.37	6.09	6.80

Notes:

— = Remediation Goal or Permit Limit not established.

BTOC = Below top of casing.

na = Not analyzed.

ND = Not Detected.

s.u. = Standard Units.

RL1 = Reporting limit raised due to sample matrix effects.

IE = Elevated reporting limit due to interelement interference.

pH<12 = Sample received at pH<12. It was adjusted correctly prior to analysis.

pH>2 = Sample received at pH>2. It was adjusted correctly prior to analysis.

µg/l = Microgram(s) per liter.

mg/L = Milligram(s) per liter.

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	D-7	D-7	D-7	D-7	D-7	D-7
			Screened Unit:	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table
			Depth BTOC (feet):	22.3	22.3	22.3	22.3	22.3	22.3
			Sample Date:	06-Jun-01	20-Sep-01	29-Apr-09	15-Sep-09	31-Mar-10	06-May-10
			Remediation						
Benzene	µg/L	5		970	1400	726	638	638	na
Toluene	µg/L	2,000		390	600	318	240	247	na
Ethylbenzene	µg/L	700		140	250	142	126	109	na
Xylenes	µg/L	10,000		150	370	236	232	231	na
2-Methylnaphthalene	µg/L	--		460	550	na	na	na	na
Dibenzofuran	µg/L	--		41	39	na	na	na	na
Acenaphthene	µg/L	--		130	92	43.9	136	0.337 U	61.8
Acenaphthylene	µg/L	--		93	69	38.3	133	1.33 U	0.435 U
Anthracene	µg/L	--		40	47	16.2	177	318	13.8
Benzo(a)anthracene	µg/L	0.1		16	18	5.34	71.6	147	31.7
Benzo(a)pyrene	µg/L	0.2		9.7	12	7.44	53.8	125	38.7
Benzo(b)fluoranthene	µg/L	0.2		6.8 J	14	6.54	39.4	0.429 U	0.140 U
Benzo(g,h,i)perylene	µg/L	--		4.2 J	10 U	4.47	29.1	0.122 U	15.8
Benzo(k)fluoranthene	µg/L	0.2		8.2 J	5.1 J	2.20	24	35.8	0.0350 U
Chrysene	µg/L	0.2		14	17	4.15	80.5	435	18.7
Dibenzo(a,h)anthracene	µg/L	0.2		1.4 J	10 U	0.936	6.85	0.0510 U	0.0100 U
Fluoranthene	µg/L	--		38	42	19.7	337	598	112
Fluorene	µg/L	--		82	81	55.9	306	0.816 U	70.5
Indeno(1,2,3cd)pyrene	µg/L	0.4		4.6 J	4.8 J	4.08	26.2	0.0306 U	14.2
Naphthalene	µg/L	100		1600	1600	105	1460	R	939
Phenanthrene	µg/L	--		160	200	27.5	710	1350	107
Pyrene	µg/L	--		55	54	17	177	268	11.8

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Units	Goal	Sample Location:	W-4	W-4	W-4	W-4	W-4	W-4	W-4
			Screened Unit:	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table
			Depth BTOC (feet):	23.4	23.4	23.4	23.4	23.4	23.4	23.4
			Sample Date:	11-Oct-05	15-Mar-06	12-Sep-06	18-Apr-07	20-Sep-07	6-May-08	1-Oct-08
			Remediation							
Benzene	µg/L	5		1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000		1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700		1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000		1.0 U	1.0 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	—		na	na	na	na	na	na	na
Dibenzofuran	µg/L	—		na	na	na	na	na	na	na
Acenaphthene	µg/L	—		1.1 Ja	2.6 U	1.06	0.298	0.526	0.263	2.75
Acenaphthylene	µg/L	—		2.4	0.77 Ja	0.0850 U	0.0850 U	0.0850 U	0.0850 U	0.0967 U
Anthracene	µg/L	—		0.073	0.052 Ua	0.0103 J	0.0100 U	0.0100 U	0.0100 U	0.0378 J
Benzo(a)anthracene	µg/L	0.1		0.032 Ja	0.13 U	0.00300 U	0.00300 U	0.00300 U	0.00300 U	0.00556 U
Benzo(a)pyrene	µg/L	0.2		0.028 Ja	0.13 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.00889 U
Benzo(b)fluoranthene	µg/L	0.2		0.049 U	0.052 U	0.0130 U	0.0130 U	0.0130 U	0.0130 U	0.0311 U
Benzo(g,h,i)perylene	µg/L	—		0.19 U	0.21 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U	0.00889 U
Benzo(k)fluoranthene	µg/L	0.2		0.049 U	0.052 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.00778 U
Chrysene	µg/L	0.2		0.031 Ja	0.13 U	0.00500 U	0.00500 U	0.0197 J	0.00500 U	0.00889 U
Dibenzo(a,h)anthracene	µg/L	0.2		0.29 U	0.31 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0111 U
Fluoranthene	µg/L	—		0.18	0.13 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0111 U
Fluorene	µg/L	—		0.11 Ja	0.056 Ja	0.0100 U	0.0653 J	0.31	0.18 J	1.43
Indeno(1,2,3cd)pyrene	µg/L	0.4		0.13 U	0.13 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00667 U
Naphthalene	µg/L	100		1.3 U	1.3 U	0.0540 U	0.0567 J,B	0.0540 U	0.0540 U	0.0511 U
Phenanthrene	µg/L	—		0.15	0.10 Ua	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00556 U
Pyrene	µg/L	—		0.12 Ja	0.26 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0284 J

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	W-4	W-4	W-4	W-4	W-4	W-4	W-4
			Screened Unit:	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table
			Depth BTOC (feet):	23.4	23.4	23.4	23.4	23.4	23.4	23.4
			Sample Date:	29-Apr-09	16-Sep-09	31-Mar-10	6-May-10	14-Sep-10	27-Apr-11	20-Sep-11
Remediation										
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U	
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U	
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U	
Xylenes	µg/L	10,000	3.00 U	3.00 U	6.00 U	na	3.00 U	3.00 U	3.00 U	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	
Acenaphthene	µg/L	--	0.631	1.39	0.570	0.332	0.558	0.528	0.991	
Acenaphthylene	µg/L	--	0.0978 U	0.0870 U	0.0870 U	0.0989 U	0.291	0.0870 U	0.346	
Anthracene	µg/L	--	0.0112 U	0.0189 J	0.0100 U	0.0114 U	0.0100 U	0.0100 U	0.0126 J	
Benzo(a)anthracene	µg/L	0.1	0.00562 U	0.00651 J	0.00500 U	0.00568 U	0.00500 U	0.0200 U	0.0200 U	
Benzo(a)pyrene	µg/L	0.2	0.00899 U	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(b)fluoranthene	µg/L	0.2	0.0315 U	0.0280 U	0.0280 U	0.0318 U	0.0280 U	0.0280 U	0.0280 U	
Benzo(g,h,i)perylene	µg/L	--	0.00899 U	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(k)fluoranthene	µg/L	0.2	0.00787 U	0.00700 U	0.00700 U	0.00795 U	0.00700 U	0.00700 U	0.00700 U	
Chrysene	µg/L	0.2	0.00899 U	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	
Dibenzo(a,h)anthracene	µg/L	0.2	0.0112 U	0.0100 U	0.0100 U	0.0114 U	0.0100 U	0.0100 U	0.0100 U	
Fluoranthene	µg/L	--	0.0112 U	0.0100 U	0.0100 U	0.0114 U	0.0100 U	0.0100 U	0.0100 U	
Fluorene	µg/L	--	0.0180 U	0.764	0.0160 U	0.0182 U	0.0160 U	0.0265 J	0.242	
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00674 U	0.00600 U	0.00600 U	0.00682 U	0.00600 U	0.00600 U	0.00600 U	
Naphthalene	µg/L	100	0.0517 U	0.153	R	0.0737 J	0.161	0.0460 U	0.0795 J, B	
Phenanthrene	µg/L	--	0.00562 U	0.0505 J	0.00500 U	0.00568 U	0.00500 U	0.00500 U	<0.00500	
Pyrene	µg/L	--	0.0191 U	0.0170 U	0.0170 U	0.0193 U	0.0170 U	0.0170 U	0.0170 U	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	D-4	D-4	D-4	D-4	D-4	D-4
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	37.0	37.0	37.0	37.0	37.0	37.0
			Sample Date:	29-Apr-09	15-Sep-09	31-Mar-10	06-May-10	15-Sep-10	27-Apr-11
		Remediation							
Benzene	µg/L	5	458.0	413	222	na	440	1430	778
Toluene	µg/L	2,000	13.5	10.0 U	5.00 U	na	6.97	26.5	19.3
Ethylbenzene	µg/L	700	484	321	99.8	na	349	1010	673
Xylenes	µg/L	10,000	176.0	137	30.0 U	na	119	500	203
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	59.9	40.4	39.4	71.9	85.4	94.5	137
Acenaphthylene	µg/L	--	56.4	0.870 U	51.1	0.870 U	95	0.0870 U	176
Anthracene	µg/L	--	1.57	0.746	1.68	1.51	2.52	2.25	2.9
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.0186 J	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.471	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	47.8	36.1	21.7	39	39.6	13	56.4
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	214	107	R	320	30.2	964 B	214 B
Phenanthrene	µg/L	--	15.1	9.91	9.52	12	17.6	17.9	21.5
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: Screened Unit: Depth BTOC (feet): Sample Date: Remediation			D-5 Silty Sand 37.5 31-Mar-10	D-5 Silty Sand 37.5 06-May-10	D-5 Silty Sand 37.5 20-Sep-11	D-6 Silty Sand 37.0 21-Mar-01	D-6 Silty Sand 37.0 06-Jun-01	D-6 Silty Sand 37.0 20-Sep-01	D-6 Silty Sand 37.0 11-Dec-01	D-6 Silty Sand 37.0 13-Mar-02
Analyte	Units	Goal								
Benzene	µg/L	5	1290	na	1120	52	48	80	20	13
Toluene	µg/L	2,000	432	na	192	17	7.9	12	2.3	3.8
Ethylbenzene	µg/L	700	850	na	571	59	38	37	6.4	15
Xylenes	µg/L	10,000	770	na	468	56	34	32	16	28
2-Methylnaphthalene	µg/L	--	na	na	na	93	47	48	16	18
Dibenzofuran	µg/L	--	na	na	na	12	6.2 J	5.3 J	4.2 J	3.6 J
Acenaphthene	µg/L	--	111	97.1	104	68	41	36	32	30
Acenaphthylene	µg/L	--	1.74 U	0.870 U	163	11	4.8 J	3.5 J	2.4 J	8.4 J
Anthracene	µg/L	--	5.89	6.01	8.35	5.2 J	5.5 J	4.8 J	3.2 J	6.6 J
Benzo(a)anthracene	µg/L	0.1	3.05	2.19	2.25	10 U	10 U	10 U	10 U	2.9 J
Benzo(a)pyrene	µg/L	0.2	3.40	0.00800 U	2.35	10 U	10 U	10 U	10 U	2.4 J
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	2.11	10 U	10 U	10 U	10 U	2.4 J
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	2.84	1.23	10 U	10 U	10 U	10 U	0.82 J
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.868	10 U	10 U	10 U	10 U	0.88 J
Chrysene	µg/L	0.2	0.00800 U	1.06	2.53	10 U	10 U	10 U	10 U	2.1 J
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.217	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	10.6	10.8	8.22	1.8 J	2.3 J	2.6 J	2.2 J	8.9 J
Fluorene	µg/L	--	52.3	49.5	50.1	28	16	13	12	14
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.777	1.16	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	R	2280	3130 B	620	220	160	22	24
Phenanthrene	µg/L	--	34.6	25	30.8	28	23	19	15	14
Pyrene	µg/L	--	0.0170 U	0.0170 U	7.58	2 J	2.2 J	2.6 J	2.4 J	11

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: D-6			D-6	D-6	D-6	D-6	D-6	D-6	D-6	D-6
Screened Unit: Silty Sand			Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
Depth BTOC (feet): 37.0			37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
Sample Date: 07-Jun-02			07-Jun-02	18-Sep-02	27-Apr-05	11-Oct-05	15-Mar-06	12-Sep-06	18-Apr-07	09-Sep-07
Remediation Goal										
Analyte	Units	Goal								
Benzene	µg/L	5	56	97	610	990	670	638	556	1220
Toluene	µg/L	2,000	13	25	87	120	33	24.4	22.3	159
Ethylbenzene	µg/L	700	61	83	620	730	620	635	582	795
Xylenes	µg/L	10,000	65	110	640	600	340	253	222	564
2-Methylnaphthalene	µg/L	—	14	8.7 J	na	na	na	na	na	na
Dibenzofuran	µg/L	—	6.6 J	9.1 J	na	na	na	na	na	na
Acenaphthene	µg/L	—	53	53	690	88	110	170	226	143
Acenaphthylene	µg/L	—	12	14	4300	1300	1400	46.4	0.0850 U	0.0850 U
Anthracene	µg/L	—	13	15	290	20	20	52.2	54.6	19.4
Benzo(a)anthracene	µg/L	0.1	7.9 J	12	180	8.3	9.6	21.9	22.9	8
Benzo(a)pyrene	µg/L	0.2	6.1 J	14	110	5.2	5.8	22	20.9	9.36
Benzo(b)fluoranthene	µg/L	0.2	6.5 j	14	55	2.7	3.1	17.6	16.6	5.74
Benzo(g,h,i)perylene	µg/L	—	2.0 J	4.3 J	37	1.8 Ja	2.1	8.07	7.98	6.81
Benzo(k)fluoranthene	µg/L	0.2	2.5 J	5.4 J	35	1.1	1.3	7.07	7.24	2.83
Chrysene	µg/L	0.2	7.4 J	12	120	5.5	6.2	24.8	18.6	8.74
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	20	0.87 J	0.88 J	1.95	1.73	1.07
Fluoranthene	µg/L	—	20	27	810	42	44	75.2	106	29.1
Fluorene	µg/L	—	21	28	350	35	34	149	149	142
Indeno(1,2,3cd)pyrene	µg/L	0.4	2.4 J	5.2 J	47	2.2	2.7	9.41	10	5.07
Naphthalene	µg/L	100	12	4.6	4800	1200	800	583	712	854
Phenanthrene	µg/L	—	11	32	1200	74	77	170	181	86.3
Pyrene	µg/L	—	28	32	450	21	24	317	320	27

Dubuque-PNG Groundwater (12-11).xlsx
Silty Sand Aquifer Wells
1/9/2012

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location: D-6	D-6	D-6	D-6	D-6	D-6	D-6	D-8
			Screened Unit: Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet): 37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.8
			Sample Date: 06-May-08	15-Sep-09	31-Mar-10	06-May-10	16-Sep-10	28-Apr-11	20-Sep-11	29-Apr-09
			Remediation							
Analyte	Units	Goal								
Benzene	µg/L	5	1030	966	1470	NS	1060	659	1600	187
Toluene	µg/L	2,000	25.8	49.2	49.6	NS	44.8	39.5	219	8.22
Ethylbenzene	µg/L	700	948	870	700 C9	NS	737	424	709	32.2
Xylenes	µg/L	10,000	253	1140	345 C9	NS	356	230	713	94.0
2-Methylnaphthalene	µg/L	—	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	—	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	—	194	213	186	148	3.67	151	228	13.1
Acenaphthylene	µg/L	—	0.0850 U	4.35 U	1.35 U	1.74 U	13.9	0.0870 U	225	14.2
Anthracene	µg/L	—	37.9	33.6	29.7	14.8	0.0654 J	22.1	48.5	3.60
Benzo(a)anthracene	µg/L	0.1	18.5	13.4	14.5	4.83	0.00500 U	8.5	15.8	1.83
Benzo(a)pyrene	µg/L	0.2	18.2	12.4	13.4	4.9	0.00800 U	6.6	13.8	2.88
Benzo(b)fluoranthene	µg/L	0.2	12.8	7.56	0.0433 U	0.0280 U	0.0280 U	4.88	13	2.48
Benzo(g,h,i)perylene	µg/L	—	10	7.3	0.0124 U	2.38	0.00800 U	4.08	7.26	1.25
Benzo(k)fluoranthene	µg/L	0.2	6.44	4.54	0.0108 U	0.00700 U	0.00700 U	2.31	3.32	1.06
Chrysene	µg/L	0.2	17.7	10.1	0.124 U	2.47	0.00800 U	11.3	16.2	2.18
Dibenzo(a,h)anthracene	µg/L	0.2	1.95	1.56	0.140 J	0.0100 U	0.0100 U	0.336	1.15	0.183
Fluoranthene	µg/L	—	73.4	58.4	42.2	16	0.0100 U	20.1	61.1	9.28
Fluorene	µg/L	—	207	207	103	88.8	2.41	42.7	140	17.2
Indeno(1,2,3cd)pyrene	µg/L	0.4	9.59	6.91	0.00928 U	1.98	0.00600 U	3.95	7.31	1.00
Naphthalene	µg/L	100	591	659	R	616	10.2	538	2610 B	56.1
Phenanthrene	µg/L	—	158	153	120	53.2	0.226	71.2	163	14.1
Pyrene	µg/L	—	52.6	43.8	0.0263 U	2.95	0.0170 U	1.82	50.3	23.3

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:		D-8	D-8	D-8	D-8	D-8	D-8	P-112	P-112
			Screened Unit:		Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):		37.8	37.8	37.8	37.8	37.8	37.8	38.8	38.8
			Sample Date:		15-Sep-09	31-Mar-10	06-May-10	15-Sep-10	27-Apr-11	20-Sep-11	29-Feb-96	24-Sep-96
Analyte	Units	Goal	Remediation									
Benzene	µg/L	5	103	103	na	79.3	112	49.8	1	1 U		
Toluene	µg/L	2,000	3.14	3.24	na	2.67	5.15	3.93	1 U	1 U		
Ethylbenzene	µg/L	700	24.1	18.8 C9	na	15.4	25.2	20.7	1	1 U		
Xylenes	µg/L	10,000	35.8	28.7 C9	na	23.7	49.3	34.4	na	1 U		
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	10 U	10 U		
Dibenzofuran	µg/L	--	na	na	na	na	na	na	10 U	10 U		
Acenaphthene	µg/L	--	9.34	9.45	9.55	7.03	12.8	20.4	10 U	10 U		
Acenaphthylene	µg/L	--	10.9	26.1	0.0870 U	0.0870 U	0.0870 U	22.2	10 U	10 U		
Anthracene	µg/L	--	1.04	1.83	0.445	0.85	0.834	1.94	10 U	10 U		
Benzo(a)anthracene	µg/L	0.1	0.159	0.625	0.179	0.136	0.0407 J	0.302	10 U	10 U		
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.131 J	0.00800 U	0.00800 U	0.0399 J	10 U	10 U		
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	10 U	10 U		
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U		
Benzo(k)fluoranthene	µg/L	0.2	0.509	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	10 U	10 U		
Chrysene	µg/L	0.2	0.301	0.967	0.00800 U	0.185	0.0582 J	0.221	10 U	10 U		
Dibenzo(a,h)anthracene	µg/L	0.2	0.138	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	10 U	10 U		
Fluoranthene	µg/L	--	1.37	2.77	0.0100 U	1.03	0.576	2.5	10 U	10 U		
Fluorene	µg/L	--	10.6	6.75	0.0160 U	6.27	3.21	13.2	10 U	10 U		
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	10 U	10 U		
Naphthalene	µg/L	100	69.6	R	56.1	73.8	34.8 B	25 B	4	10 U		
Phenanthrene	µg/L	--	2.91	5.19	2.94	2.43	1.79	3.59	10 U	10 U		
Pyrene	µg/L	--	0.563	0.017 U	0.0170 U	0.404	0.0170 U	1.38	10 U	10 U		

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
			Sample Date:	26-Nov-96	23-Jan-97	28-May-97	25-Sep-97	19-Dec-97	17-Mar-98	16-Jun-98	29-Sep-98
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	µg/L	10,000	na	na	1 U	1 U	1 U	1 U	1 U	1 U	2
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location:	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
			Sample Date:	24-Mar-99	23-Jun-99	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00	14-Sep-00	13-Dec-00
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	110	0.27	0.25	2.6	1.5	1.1	1 U	0.26 J	0.48 J
Toluene	µg/L	2,000	17	1 U	0.25	0.54	0.26	1 U	1 U	0.25 J	0.24 J
Ethylbenzene	µg/L	700	130	1 U	0.39	2.9	0.45	1.2	1 U	1 U	1 U
Xylenes	µg/L	10,000	76	0.85	1.1	2	1.4	1.2	0.7 J	0.95 J	0.88 J
2-Methylnaphthalene	µg/L	--	4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	120	10 U	10 U	4	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location: P-112 P-112 P-112 P-112 P-112 P-112 P-112 P-112 P-112 Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Depth BTOC (feet): 38.8 38.8 38.8 38.8 38.8 38.8 38.8 38.8 38.8 Sample Date: 07-Jun-01 19-Sep-01 11-Dec-01 13-Mar-02 07-Jun-02 18-Sep-02 04-Dec-02 10-Jun-03 30-Mar-04 Remediation								
Benzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1.0 U
Toluene	µg/L	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	0.61 Ja
Ethylbenzene	µg/L	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1.0 U
Xylenes	µg/L	10,000	1 U	1 U	1 U	1 U	1 U	0.95 J	1 P	7 U	2.6
2-Methylnaphthalene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na
Dibenzofuran	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na
Acenaphthene	µg/L	—	0.84 J	0.59 J	1.0 J	0.93 J	0.69 J	1.1 J	1.1 J	0.54	1.3 Ja
Acenaphthylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	4.4
Anthracene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.053 Ua
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.14 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.14 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.053 U
Benzo(g,h,i)perylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.21 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.053 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.14 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.32 U
Fluoranthene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.12	0.14 U
Fluorene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.26 Ua
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.14 U
Naphthalene	µg/L	100	10 U	10 U	10 U	10 U	10 U	10 U	1.5	0.1 U	1.4 Ua
Phenanthrene	µg/L	—	10 U	10 U	1.0 J	10 U	10 U	10 U	10 U	0.2	0.031 Ja
Pyrene	µg/L	—	10 U	10 U	0.73 J	10 U	10 U	10 U	10 U	0.14	0.26 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location: P-112 P-112 P-112 P-112 P-112 P-112 P-112 P-112 P-112 Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Depth BTOC (feet): 38.8 38.8 38.8 38.8 38.8 38.8 38.8 38.8 38.8 Sample Date: 15-Sep-04 14-Mar-05 25-Apr-05 11-Oct-05 15-Mar-06 12-Sep-06 18-Apr-07 20-Sep-07 06-May-08 Remediation										
Analyte	Units	Goal											
Benzene	µg/L	5	5.7	35	49	29	270	286	285	369 M1	551		
Toluene	µg/L	2,000	1.4	2.9	3.7	1.5	10 U	21.6	18.6	22.8 M1	11.2 L1		
Ethylbenzene	µg/L	700	12	66	91	57	500	715	536	585	789		
Xylenes	µg/L	10,000	14	57	75	29	220	734	232	279 M1	236 L1		
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na		
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na		
Acenaphthene	µg/L	--	1.7 Ja	5.6	2.0 Ja	18	11	32.4	54.3	55.4	84.7		
Acenaphthylene	µg/L	--	13	100	50	380	270	0.0850 U	0.0944 U	0.0850 U	0.0850 U		
Anthracene	µg/L	--	0.049 U	0.050 U	0.050 U	0.24 U	0.051 U	0.0113	0.0721 J	0.136 J	0.217		
Benzo(a)anthracene	µg/L	0.1	0.13 U	0.13 U	0.13 U	0.62 U	0.13 U	0.00558	0.00333 U	0.00300 U	0.0100 J		
Benzo(a)pyrene	µg/L	0.2	0.13 U	0.13 U	0.13 U	0.62 U	0.13 U	0.0130 U	0.0356 U	0.0320 U	0.0320 U		
Benzo(b)fluoranthene	µg/L	0.2	0.049 U	0.050 U	0.050 Ua	0.24 U	0.051 U	0.0150 U	0.0144 U	0.0130 U	0.0130 U		
Benzo(g,h,i)perylene	µg/L	--	0.19 U	0.20 U	0.20 U	0.95 U	0.20 U	0.0320 U	0.0100 U	0.00900 U	0.00900 U		
Benzo(k)fluoranthene	µg/L	0.2	0.049 U	0.050 U	0.050 U	0.24 U	0.051 U	0.00900 U	0.0167 U	0.0150 U	0.0150 U		
Chrysene	µg/L	0.2	0.13 U	0.13 U	0.13 U	0.62 U	0.13 U	0.0338 J	0.00556 U	0.00500 U	0.00500 U		
Dibenzo(a,h)anthracene	µg/L	0.2	0.29 U	0.30 U	0.3 U	1.4 U	0.30 U*	0.0100 U	0.0111 U	0.0100 U	0.0100 U		
Fluoranthene	µg/L	--	0.13 U	0.13 U	0.13 U	0.22 Ja	0.13 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U		
Fluorene	µg/L	--	0.051 Ja	0.25 U	0.25 U	1.8	1.2	10.1	20.3	33.5	64.2		
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.13 U	0.13 U	0.13 U	0.62 U	0.13 U	0.00700 U	0.00778 U	0.007	0.00700 U		
Naphthalene	µg/L	100	4.4	110	56	520	360	167	727 B	719	506		
Phenanthrene	µg/L	--	0.018 Ja	0.099 U	0.099 Ua	0.48 U	0.10 U	0.544	2.4	1.65	2.95		
Pyrene	µg/L	--	0.24 U	0.25 U	0.25 Ua	1.2 U	0.25 U	0.0190 U	0.0211 U	0.0190 U	0.0248 J		

Dubuque-PNG Groundwater (12-11).xlsx
Silty Sand Aquifer Wells
1/9/2012

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location: P-112 P-112 P-112 P-112 P-112 P-112 P-112 P-112 Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Depth BTOC (feet): 38.8 38.8 38.8 38.8 38.8 38.8 38.8 38.8 Sample Date: 01-Oct-08 29-Apr-09 16-Sep-09 31-Mar-10 06-May-10 14-Sep-10 28-Apr-11 20-Sep-11 Remediation							
Analyte	Units	Goal								
Benzene	µg/L	5	554	786	1280	1580	na	1590	454	151
Toluene	µg/L	2,000	5.15	10.7	26.7	14.4	na	24.8	5.89	1.0 U
Ethylbenzene	µg/L	700	671	890	831	1170	na	798	173	74.6
Xylenes	µg/L	10,000	556	235	277	117	na	276	155	70.9
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	79.4	80.6	101	109	120 MHA	113	41.4	50.2
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	1.74 U	0.870 U	0.435 U	0.0870 U	56.8
Anthracene	µg/L	--	0.125 J	0.160 J	0.265	0.0100 U	0.192	0.432	0.126 J	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.198	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	8.06	11.5	91.7	53	54 MHA	41.6	4.64	15.3
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	211	324	703	R	429 MHA	877	6.63	5.09 B
Phenanthrene	µg/L	--	2.17	2.63	3.52	0.100 U	0.00500 U, M1	5.05	1.39	0.00500 U
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Sample Location:	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2
		Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth BTOC (feet):	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
		Sample Date:	25-May-94	29-Feb-96	25-Sep-96	26-Nov-96	23-Jan-97	30-May-97	30-Sep-97	19-Dec-97
		Remediation Goal								
Benzene	µg/L	5	660	2300	1500	960	950	1200	510	940
Toluene	µg/L	2,000	290	500	370	240	240	350	140	310
Ethylbenzene	µg/L	700	1600	2300	890	570	690	830	360	690
Xylenes	µg/L	10,000	1300	na	710	450	530	620	300	560
2-Methylnaphthalene	µg/L	—	78	400 U	72	51	74	64	37	73
Dibenzofuran	µg/L	--	200 U	400 U	8	150 U	9	100 U	100 U	10
Acenaphthene	µg/L	—	96	160	59	53	55	62	42	59
Acenaphthylene	µg/L	--	37	81	38	35	35	40	28	40
Anthracene	µg/L	--	200 U	400 U	1	150 U	1	100 U	100 U	1
Benzo(a)anthracene	µg/L	0.1	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Benzo(a)pyrene	µg/L	0.2	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Benzo(g,h,i)perylene	µg/L	—	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Chrysene	µg/L	0.2	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Fluoranthene	µg/L	—	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Fluorene	µg/L	--	200 U	400 U	13	150 U	13	100 U	100 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U
Naphthalene	µg/L	100	2000	5000	1200	1300	1100	900	690	910
Phenanthrene	µg/L	--	13	400 U	12	150 U	13	12	100 U	12
Pyrene	µg/L	—	200 U	400 U	10 U	150 U	10 U	100 U	100 U	10 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
			Sample Date:	17-Mar-98	16-Jun-98	29-Sep-98	25-Jun-99	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00
			Remediation								
Benzene	µg/L	5		1000	840	260	210	1200	1400	890	580
Toluene	µg/L	2,000		250	190	10 U	130	150	140	170	160
Ethylbenzene	µg/L	700		620	470	420	1400	940	890	660	460
Xylenes	µg/L	10,000		540	480	260	730	560	590	500	390
2-Methylnaphthalene	µg/L	--		62	33	11	50	17	6	34	na
Dibenzofuran	µg/L	--		8	150 U	5	10	10	11	9	na
Acenaphthene	µg/L	--		49	58	58	130	65	67	62	na
Acenaphthylene	µg/L	--		35	34	15	18	62	57	37	na
Anthracene	µg/L	--		1	150 U	10 U	2	10 U	2	10 U	na
Benzo(a)anthracene	µg/L	0.1		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Benzo(a)pyrene	µg/L	0.2		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Benzo(b)fluoranthene	µg/L	0.2		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Benzo(g,h,i)perylene	µg/L	--		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Benzo(k)fluoranthene	µg/L	0.2		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Chrysene	µg/L	0.2		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Dibenzo(a,h)anthracene	µg/L	0.2		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Fluoranthene	µg/L	--		10 U	150 U	10 U	10 U	10 U	4	10 U	na
Fluorene	µg/L	--		14	150 U	8	20	17	24	18	na
Indeno(1,2,3cd)pyrene	µg/L	0.4		10 U	150 U	10 U	10 U	10 U	10 U	10 U	na
Naphthalene	µg/L	100		1200	840	620	1900	1700	1500	1200	na
Phenanthrene	µg/L	--		10	150 U	6	15	15	23	13	na
Pyrene	µg/L	--		10 U	150 U	10 U	10 U	10 U	4	10 U	na

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Units	Goal	Sample Location:	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
			Sample Date:	15-Sep-00	15-Dec-00	21-Mar-01	07-Jun-01	20-Sep-01	11-Dec-01	14-Mar-02	05-Jun-02
			Remediation								
Benzene	µg/L	5		400	5.3	150	150	130	200	ns	39
Toluene	µg/L	2,000		140	1.6	38	45	28	24	ns	9.4
Ethylbenzene	µg/L	700		300	1.7	37	65	90	120	ns	11
Xylenes	µg/L	10,000		240	3.7	110	110	89	120	ns	37
2-Methylnaphthalene	µg/L	--		40	4 J	9.6 J	16	6.6 J	19	ns	10 U
Dibenzofuran	µg/L	--		8 J	4 J	3.1 J	3.2 J	3.1 J	4.1 J	ns	0.99 J
Acenaphthene	µg/L	--		45	23	18	23	20	27	ns	3.8 J
Acenaphthylene	µg/L	--		24	3 J	5.2 J	6.5 J	5.7 J	13	ns	0.58 J
Anthracene	µg/L	--		1 J	10 U	10 U	0.75 J	10 U	0.76 J	ns	10 U
Benzo(a)anthracene	µg/L	0.1		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Benzo(a)pyrene	µg/L	0.2		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Benzo(b)fluoranthene	µg/L	0.2		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Benzo(g,h,i)perylene	µg/L	--		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Benzo(k)fluoranthene	µg/L	0.2		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Chrysene	µg/L	0.2		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Dibenzo(a,h)anthracene	µg/L	0.2		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Fluoranthene	µg/L	--		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Fluorene	µg/L	--		13	8 J	6.5 J	7.1 J	6.3 J	7.4 J	ns	3.5 J
Indeno(1,2,3cd)pyrene	µg/L	0.4		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U
Naphthalene	µg/L	100		630	10 U	40	59	60	320	ns	10 U
Phenanthrene	µg/L	--		11	5 J	3.6 J	3.8 J	3.3 J	4.4 J	ns	1.6 J
Pyrene	µg/L	--		10 U	10 U	10 U	10 U	10 U	10 U	ns	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Units	Sample Location: SE-2 SE-2 SE-2 SE-2 SE-2 SE-2 SE-2 SE-2 SE-2								
		Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand								
		Depth BTOC (feet): 32.5 32.5 32.5 32.5 32.5 32.5 32.5 32.5 32.5								
		Sample Date: 18-Sep-02 05-Dec-02 11-Oct-05 15-Mar-06 12-Sep-06 17-Apr-07 19-Sep-07 05-May-08								
	Goal									
Benzene	µg/L	5	88	160	23	22	34.1	15.9	24.3	21.1
Toluene	µg/L	2,000	8.7	8.8	1.0 U	1.0 U	1.64	1.00 U	1.27	1.00 U
Ethylbenzene	µg/L	700	23	44	26	8.7	35.5	2.35	27.6	6.62
Xylenes	µg/L	10,000	54	59	10	4.5	23.2	3.00 U	32	11.2
2-Methylnaphthalene	µg/L	--	10 U	15	na	na	na	na	na	na
Dibenzofuran	µg/L	--	2.1 J	3.3J	na	na	na	na	na	na
Acenaphthene	µg/L	--	5.8 J	20	41	35	39.1	25.8	33.5	26.2
Acenaphthylene	µg/L	--	1.5 J	9.0J	120	61	9.99	0.100 U	0.0850 U	0.0850 U
Anthracene	µg/L	--	10 U	10 U	0.43	0.19 Ja	0.355	0.664	0.099 J	0.162 J
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	0.13 U	0.64 U	0.00300 U	0.00353 U	0.0151 J	0.00300 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	0.13 U	0.64 U	0.0320 U	0.0376 U	0.0320 U	0.0320 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	0.051 U	0.25 U	0.0130 U	0.0153 U	0.0130 U	0.0130 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	0.20 U	0.99 U	0.00900 U	0.0106 U	0.00900 U	0.00900 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	0.051 U	0.25 U	0.0150 U	0.0176 U	0.0150 U	0.0150 U
Chrysene	µg/L	0.2	10 U	10 U	0.13 U	0.64 U	0.00500 U	0.00588 U	0.00500 U	0.00500 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	0.30 U	1.5 U*	0.0100 U	0.0118 U	0.0782 J	0.0100 U
Fluoranthene	µg/L	--	10 U	10 U	0.92	0.64 U	0.68	0.0118 U	0.536	0.412
Fluorene	µg/L	--	10 U	5.8J	3.9	2.5	9.01	7.08	12.7	13.5
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	0.13 U	0.64 U	0.00700 U	0.00824 U	0.00700 U	0.00700 U
Naphthalene	µg/L	100	10 U	260	1.3 U	6.4 U	4.91	0.41 B	6.43	9.21
Phenanthrene	µg/L	--	2.4 J	3.2J	0.73	0.22 Ja	1.16	0.00824 U	0.00700 U	0.00700 U
Pyrene	µg/L	--	10 U	10 U	0.45 M	1.2 U	0.0774 J	0.766	0.479	0.171 J

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	SE-2	
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
			Sample Date:	30-Sep-08	28-Apr-09	15-Sep-09	30-Mar-10	05-May-10	15-Sep-10	27-Apr-11	19-Sep-11
			Remediation								
Benzene	µg/L	5	31.6	20.8	45	30.1	na	22.1	99.6	112	
Toluene	µg/L	2,000	1.00 U	1.00 U	3.63	1.00 U	na	1.17	1	5.88	
Ethylbenzene	µg/L	700	13	5.41	73.4	3.58	na	6.12	20.7	78.9	
Xylenes	µg/L	10,000	9.2	3.00 U	41.5	6 U	na	9.26	16.9	43	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	
Acenaphthene	µg/L	--	33.8	27.2	50.1	35.1	29.5	38.1	14.6	21.2	
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	6.05	6.15	4.18	
Anthracene	µg/L	--	0.186 J	0.130 J	0.312	0.0100 U	0.0454 J	0.0100 U	0.0100 U	0.265	
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U	
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.0159 J	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Fluoranthene	µg/L	--	0.657	0.505	0.0100 U	0.0100 U	0.0100 U	0.977	0.296	0.619	
Fluorene	µg/L	--	14.4	12.2	23.6	9.26	3.77	10.8	1.89	6.35	
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	
Naphthalene	µg/L	100	1.27	0.277	26.6	R	0.0460 U	1.11	3.09 B	96.6 B	
Phenanthrene	µg/L	--	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	
Pyrene	µg/L	--	0.386	0.298	<0.0170 U	0.0170 U	0.0170 U	0.143 J	0.0170 U	0.324	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	SS-6	SS-6	SS-6	SS-6	SS-6	SS-6	SS-6
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	31.5	31.5	31.5	31.5	31.5	31.5	31.5
			Sample Date:	11-Jan-05	14-Mar-05	10-Oct-05	14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07
			Remediation Goal							
Analyte	Units	Goal								
Benzehe	µg/L	5	2000	2000	2700	2300	2130	1670	1540	1660
Toluene	µg/L	2,000	380	350	490	500	431	446	380	471
Ethylbenzene	µg/L	700	670	390	670	620	635	747	909	1080
Xylenes	µg/L	10,000	1200	960	100 U	1400	1250	1390	1750	1570
2-Methylnaphthalene	µg/L	—	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	—	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	—	130 U	90 Ja	120 U	24 U	40.6	86.3	32.6	25.3
Acenaphthylene	µg/L	—	2600	1900	2000	1600	315	393	378	294
Anthracene	µg/L	—	37 *	77	97	28	33.3	42.3	31.2	12.3
Benzo(a)anthracene	µg/L	0.1	16	43	53	13	11.7	17.6	17.4	5.76
Benzo(a)pyrene	µg/L	0.2	10	28	35	8.2	11.3	15.9	17.2	6.11
Benzo(b)fluoranthene	µg/L	0.2	5.6	18	17	4.5	8.66	12.9	8.47	4.36
Benzo(g,h,i)perylene	µg/L	—	10 U	9.6 Ja	9.9	2.4	3.66	5.77	9.15	2.87
Benzo(k)fluoranthene	µg/L	0.2	3.4	9.7	7.3	1.8 M	4.32	5.31	5.43	2.39
Chrysene	µg/L	0.2	12	34	39	9.7	11.7	16.6	16	5.39
Dibenzo(a,h)anthracene	µg/L	0.2	16 U	29 U	14 U	2.7 J*	1	1.45	1.57	0.652
Fluoranthene	µg/L	—	53	170	190	46	33.1	71.1	42	17.1
Fluorene	µg/L	—	69	130	140	60	152	185	248	156
Indeno(1,2,3cd)pyrene	µg/L	0.4	3.8 Ja	10 Ja	13	3.1	4.56	7.34	7.45	2.94
Naphthalene	µg/L	100	3100	2100	2200	1600	1390	1950 B	1760	1740
Phenanthrene	µg/L	—	120 H	280	270	87	81.8	111	112	56.7
Pyrene	µg/L	—	19 M	110	130	33 M	136	186	34.5	11.8

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	SS-6	SS-6	SS-6	SS-6	SS-6	SS-6	SS-8	
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	
			Depth BTOC (feet):	31.5	31.5	31.5	31.5	31.5	31.5	33.4	
			Sample Date:	30-Sep-08	15-Sep-09	31-Mar-10	06-May-10	15-Sep-10	27-Apr-11	20-Sep-11	11-Jan-05
			Remediation								
Benzene	µg/L	5	1880	1560	1750	na	1710	2800	2720	1.6	
Toluene	µg/L	2,000	392	453	451	na	521	504	583	1.0 U	
Ethylbenzene	µg/L	700	586	919	1120	na	928	1610	1480	1.0 U	
Xylenes	µg/L	10,000	1290	1470	1670	na	1560	1790	1860	1.0 U	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	
Acenaphthene	µg/L	--	37	18.4	72.9	0.110 U	50.1	47.7	33.9	0.59 Ja	
Acenaphthylene	µg/L	--	433	209	634	647	611	495	752	47	
Anthracene	µg/L	--	21.1	4.23	32.8	46.2	48.6	18.1	54.8	0.051 U*	
Benzo(a)anthracene	µg/L	0.1	10.8	0.471	12.7	18.4	16.4	4.96	19.1	0.13 U	
Benzo(a)pyrene	µg/L	0.2	10.4	0.475	11.3	16.6	13.7	3.83	17.3	0.13 U	
Benzo(b)fluoranthene	µg/L	0.2	7.03	0.324	0.0566 U	0.0280 U	9.03	2.63	12	0.051 U	
Benzo(g,h,i)perylene	µg/L	--	5.52	0.205	0.0162 U	4.73	7.36	2.18	8.55	0.20 U	
Benzo(k)fluoranthene	µg/L	0.2	4.27	0.159	0.0141 U	0.00700 U	0.00700 U	1.34	6.85 J	0.051 U	
Chrysene	µg/L	0.2	9.96	0.527	13.3	9.39	19.6	6.06	20.6	0.13 U	
Dibenzo(a,h)anthracene	µg/L	0.2	1.01	0.0377 J	0.0202 U	0.0100 U	1.29	0.227	0.0100 U	0.31 U	
Fluoranthene	µg/L	--	35.2	2.91	0.101 U	52	48.8	11.7	61.1	0.13 U	
Fluorene	µg/L	--	143	98.6	179	222	158	67	201	0.26 U	
Indeno(1,2,3cd)pyrene	µg/L	0.4	4.84	0.18	3.77	5.29	6.61	2.07	7.92	0.13 U	
Naphthalene	µg/L	100	1670	1720	R	2800	2750	3930 B	4080 B	0.66 Ja	
Phenanthrene	µg/L	--	80	25.5	97.8	131	139	65.4	170	0.039 Ja	
Pyrene	µg/L	--	22.1	1.74	16.9	7.8	22.9	1.51	49.3	0.20 Ja	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	SS-8	SS-8	SS-8	SS-8	SS-8	SS-8	SS-8
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	33.4	33.4	33.4	33.4	33.4	33.4	33.4
			Sample Date:	14-Mar-05	10-Oct-05	14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07	05-May-08
			Remediation							
Benzene	µg/L	5		1.6	1.1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
Toluene	µg/L	2,000		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
Xylenes	µg/L	10,000		1.0 U	1.0 U	1.0 U	3.0 U	3.0 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	—		na	na	na	na	na	na	na
Dibenzofuran	µg/L	—		na	na	na	na	na	na	na
Acenaphthene	µg/L	—		0.50 Ja	2.5 U	0.48 Ja	0.701	0.107 J	0.0490 U	0.181 J
Acenaphthylene	µg/L	—		38	47	18	0.0850 U	0.0850 U	0.0850 U	0.0850 U
Anthracene	µg/L	—		0.050 U	0.049 U	0.050 U	0.185 J	0.0100 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1		0.13 U	0.13 U	0.13 U	0.00300 U	0.00300 U	0.0149 J	0.00300 U
Benzo(a)pyrene	µg/L	0.2		0.13 U	0.13 U	0.13 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U
Benzo(b)fluoranthene	µg/L	0.2		0.050 U	0.049 U	0.050 Ua	0.0130 U	0.0130 U	0.0130 U	0.0130 U
Benzo(g,h,i)perylene	µg/L	—		0.20 U	0.20 U	0.20 U	0.00900 U	0.00900 U	0.00900 U	0.0323 J
Benzo(k)fluoranthene	µg/L	0.2		0.050 U	0.049 U	0.050 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U
Chrysene	µg/L	0.2		0.13 U	0.13 U	0.13 U	0.00500 U	0.00500 U	0.0368 J	0.0148 J
Dibenzo(a,h)anthracene	µg/L	0.2		0.30 U	0.29 U	0.30 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	—		0.13 U	0.13 U	0.13 U	0.0100 U	0.0288 J	0.0326 J	0.0153 J
Fluorene	µg/L	—		0.25 U	0.25 U	0.25 U	0.647	0.0100 U	0.868	0.777
Indeno(1,2,3cd)pyrene	µg/L	0.4		0.13 U	0.13 U	0.13 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Naphthalene	µg/L	100		0.36 Ja	1.3 U	0.31 Ja	0.0551 J	0.165 B	0.0540 U	0.0857 J
Phenanthrene	µg/L	—		0.099 Ua	0.098 U	0.099 U	0.0151 J	0.00700 U	0.0732 J	0.00700 U
Pyrene	µg/L	—		0.25 U	0.25 U	0.25 U	0.0303 J	0.0556 J	0.0408 J	0.0190 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	SS-8	SS-8	SS-8	SS-8	SS-8	SS-8	SS-9	SS-9
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	33.4	33.4	33.4	33.4	33.4	33.4	28.0	28.0
			Sample Date:	28-Apr-09	15-Sep-09	30-Mar-10	15-Sep-10	27-Apr-11	20-Sep-11	11-Jan-05	14-Mar-05
			Remediation Goal								
Analyte	Units	Goal									
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.05	7.93	29.0	24	
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.5	2.1	
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.82	1.2	1	
Xylenes	µg/L	10,000	3.00 U	3.00 U	6.00 U	3.00 U	3.00 U	3.00 U	3.0	1.6	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	
Acenaphthene	µg/L	--	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.642	1.96	4	5	
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	4.1	2.2 M	
Anthracene	µg/L	--	0.0100 U	0.0126 J	0.0100 U	0.0100 U	0.0151 J	0.0286 J	0.015 Ja*	0.048 Ua	
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00658 J	0.00500 U	0.00500 U	0.0200 U	0.0200 U	0.13 U	0.12 U	
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.0154 J	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.13 U	0.12 U	
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.052 U	0.048 U	
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.21 U	0.19 U	
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.052 U	0.048 U	
Chrysene	µg/L	0.2	0.00800 U	0.00891 J	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.13 U	0.12 U	
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.31 U	0.29 U	
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.13 U	0.12 U	
Fluorene	µg/L	--	0.0160 U	0.0160 U	0.0160 U	0.84	0.0160 U	0.0160 U	0.084 Ja	0.14 Ja	
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.13 U	0.12 U	
Naphthalene	µg/L	100	0.0460 U	0.0460 U	R	0.0460 U	1.8 B	2.53 B	6.8	6.2	
Phenanthrene	µg/L	--	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.17	0.19	
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0234 J	0.26 U	0.24 U	

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Units	Goal	Sample Location:	SS-9	SS-9	SS-9	SS-9	SS-9	SS-9	SS-9	SS-9	
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
			Sample Date:	10-Oct-05	15-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07	06-May-08	30-Sep-08	28-Apr-09	
			Remediation									
Benzene	µg/L	5	29	30	32.8	33.8	25.1	51.1	31.2	49.5		
Toluene	µg/L	2,000	2.6	2.5	2.57	2.59	2.38	4.33	1.34 L5	4.28		
Ethylbenzene	µg/L	700	1.3	1.1	1.11	1.33	1.29	3.13	1.56	1.57		
Xylenes	µg/L	10,000	3.6	3.5	3.84	4.32	5.64	7	3.03	4.65		
2-Methylnaphthalene	µg/L	—	na	na	na	na	na	na	na	na		
Dibenzofuran	µg/L	—	na	na	na	na	na	na	na	na		
Acenaphthene	µg/L	—	10	8.9	10.5	13.4	14.8	9.18	18.1	19.2		
Acenaphthylene	µg/L	—	3.3 M	0.83 Ja	0.0850 U	0.0850 U	0.0850 U	1.82	3.18	0.0870 U		
Anthracene	µg/L	—	0.033 Ja	0.049 Ua	0.0162 J	0.0156 J	0.0100 U	0.0102 J	0.0100 U	0.0100 U		
Benzo(a)anthracene	µg/L	0.1	0.13 U	0.13 U	0.00300 U	0.00300 U	0.00300 U	0.00300 U	0.00500 U	0.00500 U		
Benzo(a)pyrene	µg/L	0.2	0.13 U	0.13 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U		
Benzo(b)fluoranthene	µg/L	0.2	0.049 U	0.049 U	0.0130 U	0.0130 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U		
Benzo(g,h,i)perylene	µg/L	—	0.20 U	0.20 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U	0.00800 U	0.00800 U		
Benzo(k)fluoranthene	µg/L	0.2	0.049 U	0.049 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U		
Chrysene	µg/L	0.2	0.13 U	0.13 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00800 U	0.00800 U		
Dibenzo(a,h)anthracene	µg/L	0.2	0.29 U	0.29 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U		
Fluoranthene	µg/L	—	0.064 Ja	0.13 U	0.0100 U	0.0318 J	0.0308 J	0.0365 J	0.025 J	0.0100 U		
Fluorene	µg/L	—	0.21 Ja	0.088 Ja	0.205	0.322	0.298	0.366	0.637	0.582		
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.13 U	0.13 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00600 U	0.00600 U		
Naphthalene	µg/L	100	7.6	3.1	6.88	10.5 B	9.88	13.3	6.32	14.1		
Phenanthrene	µg/L	—	0.28	0.12	0.15	0.214	0.213	0.277	0.208	0.00500 U		
Pyrene	µg/L	—	0.045 Ja	0.25 U	0.0533 J	0.0844 J	0.0222 J	0.0248 J	0.0170 U	0.0170 U		

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	SS-9	SS-9	SS-9	SS-9	SS-9	SS-9
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.0	28.0	28.0	28.0	28.0	28.0
			Sample Date:	15-Sep-09	30-Mar-10	05-May-10	15-Sep-10	27-Apr-11	19-Sep-11
		Remediation							
Benzene	µg/L	5	53.8	49.5	na	44.6	42.6	36.8	
Toluene	µg/L	2,000	4.84	3.11	na	3.55	3.44	3.46	
Ethylbenzene	µg/L	700	2.43	1.75	na	1.67	2.08	1.87	
Xylenes	µg/L	10,000	7.21	6.00 U	na	6.00	5.6	5.82	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	
Acenaphthene	µg/L	--	19.9	27.6	26.5	27.7	11.8	35.8	
Acenaphthylene	µg/L	--	0.0870 U	5.88 M1	0.0870 U	0.0870 U	1.7	0.0870 U	
Anthracene	µg/L	--	0.0136 J	0.0100 U	0.0100 U	0.0211 J	0.0309 J	0.0296 J	
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U	
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0237 J	0.0100 U	
Fluorene	µg/L	--	0.704	0.794	0.0160 U	0.834	0.179 J	0.647	
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	
Naphthalene	µg/L	100	16.3	R	8.27	11.5	8.93 B	13.3 B	
Phenanthrene	µg/L	--	0.271	0.000500 U	0.16	0.269	0.43	0.315	
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	W-113	W-113	W-113	W-113	W-113	W-113	W-113	W-113	
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
			Sample Date:	10-Oct-05	14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07	05-May-08	30-Sep-08	28-Apr-09	15-Sep-09
		Remediation										
Benzene	µg/L	5	1.0 U	1.0 U	5.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	
Toluene	µg/L	2,000	1.0 U	1.0 U	5.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	
Ethylbenzene	µg/L	700	1.0 U	1.0 U	5.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	
Xylenes	µg/L	10,000	1.0 U	1.0 U	15.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na	
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na	
Acenaphthene	µg/L	--	2.5 U	2.4 U*	0.0490 U	0.0490 U	0.0490 U	0.0490 U	0.0331 J	0.0702 J	0.136 J	
Acenaphthylene	µg/L	--	1.3 U	1.2 U*	0.0850 U	0.0850 U	0.0850 U	0.0850 U	0.0870 U	0.0870 U	0.0870 U	
Anthracene	µg/L	--	0.050 U	0.048 Ua*	0.0100 J	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Benzo(a)anthracene	µg/L	0.1	0.13 U	0.12 U	0.0101 J	0.00300 U	0.0199 J	0.00903 J	0.00500 U	0.0102 J	0.00500 U	
Benzo(a)pyrene	µg/L	0.2	0.13 U	0.017 Ja	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(b)fluoranthene	µg/L	0.2	0.050 U	0.048 U	0.0130 U	0.0130 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U	0.0280 U	
Benzo(g,h,i)perylene	µg/L	--	0.20 U	0.19 U	0.00900 U	0.00900 U	0.0199 J	0.00900 U	0.00800 U	0.00800 U	0.00800 U	
Benzo(k)fluoranthene	µg/L	0.2	0.050 U	0.048 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U	0.00700 U	
Chrysene	µg/L	0.2	0.13 U	0.12 U	0.01 J	0.00500 U	0.0304 J	0.0270 J	0.00800 U	0.00800 U	0.00800 U	
Dibenzo(a,h)anthracene	µg/L	0.2	0.30 U	0.29 U	0.0100 U	0.0100 U	0.01	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Fluoranthene	µg/L	--	0.13 U	0.045 Ja	0.0100 U	0.0100 U	0.0157 J	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Fluorene	µg/L	--	0.25 U	0.24 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0160 U	0.0160 U	0.0160 U	
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.13 U	0.12 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00600 U	0.00600 U	0.00600 U	
Naphthalene	µg/L	100	1.3 U	1.2 U*	0.0540 U	0.197	0.0540 U	0.702	0.0460 U	0.0460 U	0.0460 U	
Phenanthrene	µg/L	--	0.099 U	0.030 Ja	0.0197 J	0.00700 U	0.00700 U	0.00700 U	0.00500 U	0.00500 U	0.00500 U	
Pyrene	µg/L	--	0.25 U	0.040 Ja	0.0213 J	0.0325 J	0.0232 J	0.0190 U	0.0170 U	0.0170 U	0.0170 U	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-113	W-113	W-113	W-113	W-117	W-117	W-117	W-117	W-117
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	34.8	34.8	34.8	34.8	35.0	35.0	35.0	35.0	35.0
			Sample Date:	30-Mar-10	15-Sep-10	27-Apr-11	19-Sep-11	26-May-94	26-May-94	29-Feb-96	24-Sep-96	26-Nov-96
Analyte	Units	Goal	Remediation									
Benzene	µg/L	5		1.00 U	1.2	4.11	1.00 U	5.7	5.2	11	12	8.6
Toluene	µg/L	2,000		1.00 U	1.00 U	1.00 U	1.00 U	1.4	1.1	2	2.8	1.9
Ethylbenzene	µg/L	700		1.00 U	1.00 U	1.86	1.28	1.0 U	1.0 U	3.8	1.7	1 U
Xylenes	µg/L	10,000		6.00 U	3.00 U	3.00 U	3.00 U	2.1	1.0 U	na	4.1	na
2-Methylnaphthalene	µg/L	--		na	na	na	na	10 U	10 U	2	3	2
Dibenzofuran	µg/L	--		na	na	na	na	10 U	10 U	2	2	2
Acenaphthene	µg/L	--		0.0220 U	0.0861 J	0.0220 U	0.0282 J	1	1	4	5	5
Acenaphthylene	µg/L	--		0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.8	0.8	10 U	10 U	1
Anthracene	µg/L	--		0.0100 U	0.0100 U	0.0100 U	0.012 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1		0.00500 U	0.00696 J	0.0200 U	0.0200 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2		0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2		0.0280 U	0.0280 U	0.0280 U	0.0280 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--		0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U	10 U	1	10 U
Benzo(k)fluoranthene	µg/L	0.2		0.00700 U	0.00700 U	0.00700 U	0.00700 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2		0.00800 U	0.0175 J	0.00800 U	0.00800 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2		0.0100 U	0.0100 U	0.0100 U	0.0100 U	10 U	10 U	10 U	1	10 U
Fluoranthene	µg/L	--		0.0100 U	0.0100 U	0.0100 U	0.046 J	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--		0.0160 U	0.0160 U	0.0160 U	0.0160 U	10 U	10 U	10 U	10 U	1
Indeno(1,2,3cd)pyrene	µg/L	0.4		0.00600 U	0.00600 U	0.00600 U	0.00600 U	10 U	10 U	10 U	1	10 U
Naphthalene	µg/L	100		R	0.129	0.0460 U	0.265 B	9	8	28	28	22
Phenanthrene	µg/L	--		0.00500 U	0.00500 U	0.00500 U	0.00500 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--		0.0170 U	0.0170 U	0.0170 U	0.0318 J	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location:	W-117	W-117	W-117	W-117	W-117	W-117	W-117	W-117	W-117
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
			Sample Date:	23-Jan-97	29-May-97	30-Sep-97	17-Dec-97	17-Mar-98	16-Jun-98	29-Sep-98	10-Dec-98	24-Mar-99
			Remediation									
Analyte	Units	Goal										
Benzene	µg/L	5	8.9	7.5	11	9.7	9.5	13	14	12	10	
Toluene	µg/L	2,000	2.2	1.9	2.5	2.2	2	2.9	4.2	2	1.2	
Ethylbenzene	µg/L	700	1.3	1.2	1.8	1.7	1.6	1.9	3.1	2	1.4	
Xylenes	µg/L	10,000	na	2.2	3.7	3.3	2.4	3.6	5.1	3	1.9	
2-Methylnaphthalene	µg/L	—	1	1	3	2	1	2	3	10 U	10 U	
Dibenzofuran	µg/L	—	2	2	3	3	3	3	4	10 U	2	
Acenaphthene	µg/L	—	4	5	8	7	7	6	11	10 U	6	
Acenaphthylene	µg/L	—	10 U	10 U	1	1	1	1	3	10 U	10 U	
Anthracene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	µg/L	—	1	1	2	2	1	2	2	10 U	10 U	
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	100	18	21	38	26	21	29	48	37	20	
Phenanthrene	µg/L	—	10 U	10 U	1	1	10 U	1	2	10 U	10 U	
Pyrene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Goal	Sample Location:	W-117	W-117	W-117	W-117	W-117	W-117	W-117	W-117
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
			Sample Date:	23-Jun-99	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00	15-Sep-00	14-Dec-00	20-Mar-01
			Remediation								07-Jun-01
Benzene	µg/L	5	8.5	8.8	12	3.6	10	9.8	12	11	1.6
Toluene	µg/L	2,000	1.6	1.2	3.4	0.56	1 U	1.1	1.3	1	1 U
Ethylbenzene	µg/L	700	2	1.6	15	0.72	1.7	1.7	1.8	1.7	1 U
Xylenes	µg/L	10,000	2.6	2.4	12	1.4	2.3	2.4	3.1	2.5	1 U
2-Methylnaphthalene	µg/L	—	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	—	5	4	4	2	2	2 J	2 J	2.2 J	1.0 J
Acenaphthene	µg/L	—	12	8	9	4	7	6 J	6 J	1.9 J	2.4 J
Acenaphthylene	µg/L	—	10 U	10 U	10 U	10 U	2	2 J	2 J	2.2 J	10 U
Anthracene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	—	2	2	2	1	1	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	31	26	51	6	12	6 J	10 J	0.98 J	10 U
Phenanthrene	µg/L	—	2	10 U	2	10 U	0.9	10 U	10 U	10 U	10 U
Pyrene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location: W-117	W-117	W-117	W-117	W-117	W-117	W-117	W-117	W-117
			Screened Unit: Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet): 35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
			Sample Date: 20-Sep-01	12-Dec-01	14-Mar-02	07-Jun-02	18-Sep-02	05-Dec-02	09-Jun-03	30-Mar-04	15-Sep-04
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	17	16	1 U	11	13	2.6	9.9	1.7 H	8.7
Toluene	µg/L	2,000	5.8	4.2	2.7	3	2	0.77 J	2 U	1.0 U	3.2
Ethylbenzene	µg/L	700	3.9	4	5.6	3.1	3.7	0.74 J	2 U	1.0 U	2.8
Xylenes	µg/L	10,000	6.8	5.2	7.6	4.3	4.5	1.2	7 U	1.0 U	4.1
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
Dibenzofuran	µg/L	--	3.7 J	5 J	10 U	5.7 J	10	1.1J	na	na	na
Acenaphthene	µg/L	--	13	16	10 U	19	30	2.8J	11	3.7	1.5 Ja
Acenaphthylene	µg/L	--	10 U	1.9 J	10 U	10 U	2.5 J	1.7J	0.92	4.1	4
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.22	0.036 Ja	0.022 Ja
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	0.17	0.034 Ja	0.13 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.12	0.057 Ja	0.13 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.040 Ja	0.050 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.2 U	0.20 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.12	0.020 Ja	0.050 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.12	0.13 U	0.13 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.30 U	0.30 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.26	0.090 Ja	0.13 U
Fluorene	µg/L	--	1.6 J	2.3 J	10 U	2.5 J	4.6 J	10 U	1.4	0.31	0.13 Ja
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.13 U	0.13 U
Naphthalene	µg/L	100	57	33	1.2 J	27	32	6	3.9	7.1	7
Phenanthrene	µg/L	--	10 U	0.61 J	10 U	0.67 J	1.8 J	10 U	0.48	0.035 Ja	0.10 U
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.21	0.25 U	0.25 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-117	W-117	W-117R	W-117R	W-117R	W-117R	W-117R	W-117R
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	35.0	35.0	35.7	35.7	35.7	35.7	35.7	35.7
			Sample Date:	14-Mar-05	27-Apr-05	11-Oct-05	15-Mar-06	12-Sep-06	18-Apr-07	20-Sep-07	6-May-08
			Remediation Goal								
Analyte	Units	Goal									
Benzene	µg/L	5	0.79	1.1	2.7	35	24.8	16.6	39.8	15.8	8.08
Toluene	µg/L	2,000	1.0 U	1.0 U	1.0 U	3.1	9	2.55	9.32	1.26	1.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.8	3.2	5.72	2.56	8.3	5.91	3.42
Xylenes	µg/L	10,000	1.0 U	1.0 U	1.0 U	3.4	10.2	4.36	14.2	6.6	6.09
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	1.2	1.0 Ja	1.2 Ja	2.4 U	3.04	3.93	4.49	3.41	4.33
Acenaphthylene	µg/L	--	3.8	2.3	15	15	4.95	7.51	11.5	6.44	16.3
Anthracene	µg/L	--	0.027	0.050 Ua	0.029 Ja	0.049 Ua	0.0407 J	0.0495 J	0.075 J	0.027 J	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.12 U	0.13 U	0.018 Ja	0.13 U	0.00341 U	0.00337 U	0.00300 U	0.00300 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.12 U	0.13 U	0.025 Ja	0.13 U	0.0148 U	0.0360 U	0.0320 U	0.0320 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.048 U	0.050 U	0.025 Ja	0.049 Ua	0.0170 U	0.0146 U	0.0130 U	0.0130 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.19 U	0.2 U	0.19 U	0.19 U	0.0364 U	0.0101 U	0.00900 U	0.00900 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.048 U	0.050 U	0.047 U	0.049 U	0.0102 U	0.0169 U	0.0150 U	0.0150 U	0.00700 U
Chrysene	µg/L	0.2	0.12 U	0.13 U	0.046 Ja	0.13 U	0.00568 U	0.00562 U	0.00500 U	0.00500 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.29 U	0.30 U	0.28 U	0.29 U*	0.0114 U	0.0112 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.12 U	0.13 U	0.068 Ja	0.13 U	0.0114 U	0.0112 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.083	0.079 Ja	1.2	1.1	1.52	2.23	2.82	1.7	3.06
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.12 U	0.13 U	0.12 U	0.13 U	0.00795 U	0.00787 U	0.00700 U	0.00700 U	0.00600 U
Naphthalene	µg/L	100	1.2 U	0.51 Ja	1.2 U	1.3 U	2.47	4.18 B	6.12	2.4	6.68
Phenanthrene	µg/L	--	0.096 U	0.052 Ja	0.12	0.11	0.13	0.152	0.296	0.204	0.308
Pyrene	µg/L	--	0.24 U	0.25 U	0.23 U	0.24 U	0.0216 U	0.0213 U	0.0190 U	0.0190 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: W-117R W-117R W-117R W-117R W-117R W-117R W-117R W-117R W-118										
Screened Unit: Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand										
Depth BTOC (feet): 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 28.5										
Sample Date: 29-Apr-09 16-Sep-09 31-Mar-10 6-May-10 16-Sep-10 28-Apr-11 20-Sep-11 25-Sep-96										
Remediation										
Analyte	Units	Goal								
Benzene	µg/L	5	3.43	43 FM	27.1	na	31.5	1.00 U	1.88	1200
Toluene	µg/L	2,000	1.00 U	5.1 FM	1.00 U	na	1.6	1.00 U	1.00 U	40
Ethylbenzene	µg/L	700	6.28	8.1 FM	4.91	na	11.1	2.72	1.00 U	40U
Xylenes	µg/L	10,000	3.00 U	15.0 U FM	6.00 U	na	9.97	12.6	3.00 U	600
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	200 U
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	200 U
Acenaphthene	µg/L	--	2.93	0.135 J	5.29	3.6	0.164 J	4.89 RL1	3.04	26
Acenaphthylene	µg/L	--	9.31	0.0870 U	13.6	16.1	0.0870 U	10.5 RL1	9.46	32
Anthracene	µg/L	--	0.0419 J	0.0276 J	0.0100 U	0.0100 U	0.0100 U	0.108 RL1, J	0.0602 J	200 U
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.0506 J	0.00500 U	0.00500 U	0.00500 U	0.0400 U, RL1	0.0200 U	200 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.0866 J	0.00800 U	0.00800 U	0.00800 U	0.0160 U, RL1	0.00800 U	200 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0938 J	0.0280 U	0.0280 U	0.0280 U	0.0560 U, RL1	0.0280 U	200 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.085 J	0.00800 U	0.00800 U	0.00800 U	0.0160 U, RL1	0.00800 U	200 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.0586 J	0.00700 U	0.00700 U	0.00700 U	0.0140 U, RL1	0.00700 U	200 U
Chrysene	µg/L	0.2	0.00800 U	0.0745 J	0.00800 U	0.00800 U	0.00800 U	0.0204 RL1, J	0.00800 U	200 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0200 U, RL1	0.0100 U	200 U
Fluoranthene	µg/L	--	0.0100 U	0.0732 J	0.0100 U	0.0100 U	0.0100 U	0.0318 RL1, J	0.0100 U	200 U
Fluorene	µg/L	--	1.76	0.0579 J	1.52	1.61	0.0160 U	0.0320 U, RL1	1.43	200 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.0771 J	0.00600 U	0.00600 U	0.00600 U	0.0120 U, RL1	0.00600 U	200 U
Naphthalene	µg/L	100	0.528	0.151	R	15	0.0460 U	0.831 RL1	0.0460 U	1400
Phenanthrene	µg/L	--	0.188	0.0784 J	0.00500 U	0.155	0.00500 U	0.0867 RL1, J	0.178	200 U
Pyrene	µg/L	--	0.0170 U	0.107 J	0.0170 U	0.0170 U	0.0335 J	0.0340 U, RL1	0.0170 U	200 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-118	W-118	W-118	W-118	W-118	W-118	W-118	W-118
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
			Sample Date:	26-Nov-96	22-Jan-97	29-May-97	25-Sep-97	18-Dec-97	17-Mar-98	16-Jun-98	29-Sep-98
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	960	250	1 U	120	44	27	22	18	10
Toluene	µg/L	2,000	21	10 U	1 U	9.8	2.5U	1 U	2.1	3	1
Ethylbenzene	µg/L	700	1100	360	1 U	400	93	45	66	23	8
Xylenes	µg/L	10,000	na	na	1 U	156	3.4	1 U	7.9	5.9	2
2-Methylnaphthalene	µg/L	--	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	400 U	3	4	3	1	1	1	10 U	10 U
Acenaphthene	µg/L	--	400 U	17	10 U	28	12	9	11	7	10 U
Acenaphthylene	µg/L	--	40	23	20 U	22	8	6	7	4	10 U
Anthracene	µg/L	--	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	400 U	6	20 U	8	3	10 U	3	2	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	1400	340	120	270	3	10 U	4	5	10 U
Phenanthrene	µg/L	--	400 U	3	5	5	3	2	2	1	10 U
Pyrene	µg/L	--	400 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-118	W-118	W-118	W-118	W-118	W-118	W-118	W-118
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
			Sample Date:	23-Mar-99	23-Jun-99	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00	14-Sep-00	14-Dec-00
			Remediation								21-Mar-01
Analyte	Units	Goal									
Benzene	µg/L	5	13	3.2	3.6	71	6.1	20	35	16	10
Toluene	µg/L	2,000	0.58	0.29	0.72	14	1	1.5	3.1	1.2	0.71 J
Ethylbenzene	µg/L	700	2.9	3.2	5.8	50	1.9	42	87	10	1.8
Xylenes	µg/L	10,000	1 U	0.73	1.8	30	2.7	10	25	6	2.6
2-Methylnaphthalene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Dibenzofuran	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Acenaphthene	µg/L	—	3	6	5	8	7	5	9 J	11	6.2 J
Acenaphthylene	µg/L	—	2	3	3	6	2	2	3 J	4 J	4.3 J
Anthracene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Benzo(g,h,i)perylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Fluoranthene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Fluorene	µg/L	—	10 U	2	2	2	2	1	2 J	2 J	2.5 J
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U
Naphthalene	µg/L	100	10 U	10 U	3	62	2	3	14 J	4 J	11 U
Phenanthrene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	1.5 J
Pyrene	µg/L	—	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	11 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-118	W-118	W-118	W-118	W-118	W-118	W-118	W-118
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
			Sample Date:	07-Jun-01	20-Sep-01	12-Dec-01	14-Mar-02	04-Jun-02	18-Sep-02	04-Dec-02	09-Jun-03
			Remediation Goal								
Analyte	Units	Goal									
Benzene	µg/L	5	79	43	100	240	130	260	350	61	220 M
Toluene	µg/L	2,000	2 U	1.5	1.8	4.1 J	25 U	2.4	2	2 U	1.6
Ethylbenzene	µg/L	700	54	2.7	0.92 J	25 U	25 U	1 U	2.3	2 U	4.4
Xylenes	µg/L	10,000	18	7.9	4.4	25 U	25 U	4	3.3	7 U	12
2-Methylnaphthalene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na
Dibenzofuran	µg/L	—	0.62 J	10 U	10 U	10 U	10 U	0.44 J	0.50 J	na	na
Acenaphthene	µg/L	—	17	8.7 J	17	13	5.5 J	12	17	8.2	12
Acenaphthylene	µg/L	—	7.1 J	3.1 J	4.9 J	3.5 J	1.6 J	2.8 J	4.1 J	1.1	6.5 U
Anthracene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.045 Ja
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.13 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.13 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.050 U
Benzo(g,h,i)perylene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.20 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.050 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.13 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.30 U
Fluoranthene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.068 Ja
Fluorene	µg/L	—	3.1 J	1.4 J	3.7 J	2.3 J	0.98 J	1.9 J	2.8 J	1.2	1.5
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.13 U
Naphthalene	µg/L	100	30	1.4 J	1.1 J	10 U	6.1 J	10 U	1.3	0.56	25
Phenanthrene	µg/L	—	1.8 J	10 U	1.6 J	10 U	10 U	10 U	0.70 J	0.24	0.12
Pyrene	µg/L	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	0.25 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-118	W-118	W-118R	W-118R	W-118R	W-118R	W-118R	W-118R
			Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet):	28.5	28.5	29.0	29.0	29.0	29.0	29.0	29.0
			Sample Date:	14-Sep-04	15-Mar-05	02-May-05	10-Oct-05	14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07
			Remediation								05-May-08
Analyte	Units	Goal									
Benzene	µg/L	5	170	89	170	190	120	71.3	72.7 M1	21.7	97.5
Toluene	µg/L	2,000	1.9	1.9	0.82 Ja	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	6.8	5.8	0.95 J	1.2	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	15	13	1.5	3.2	1.0 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	—	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	—	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	—	2.7 Ua	2.6 U	9.8	9.7	4.5	2.9	3.43	4.18	9.45
Acenaphthylene	µg/L	—	15	17	68	56	19	3.34	3.56	5.46	10.4
Anthracene	µg/L	—	0.055 U	0.051 U	0.035 Ja	0.055 U	0.049 U	0.0100 U	0.0100 U	0.0100 U	0.0262 J
Benzo(a)anthracene	µg/L	0.1	0.14 U	0.13 U	0.12 U	0.14 U	0.13 U	0.00300 U	0.00300 U	0.00300 U	0.00300 U
Benzo(a)pyrene	µg/L	0.2	0.14 U	0.13 U	0.12 U	0.14 U	0.13 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U
Benzo(b)fluoranthene	µg/L	0.2	0.055 U	0.051 U	0.047 Ua	0.055 U	0.049 U	0.0130 U	0.0130 U	0.0130 U	0.0130 U
Benzo(g,h,i)perylene	µg/L	—	0.22 U	0.20 U	0.19 U	0.22 U	0.20 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U
Benzo(k)fluoranthene	µg/L	0.2	0.055 U	0.051 U	0.047 U	0.055 U	0.049 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U
Chrysene	µg/L	0.2	0.14 U	0.13 U	0.12 U	0.14 U	0.13 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.33 U	0.31 U	0.28 U	0.33 U	0.29 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	—	0.14 U	0.13 U	0.069 Ja	0.14 U	0.13 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	—	0.14 Ja	0.14	0.65	0.58	0.19 Ja	0.998	0.755	1.35	3.03
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.14 U	0.13 U	0.12 U	0.14 U	0.13 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Naphthalene	µg/L	100	110	110	1.2 J	1.4 U	1.3 U	0.193	0.398	0.21	1.07
Phenanthrene	µg/L	—	0.069 Ja	0.053	0.28	0.19	0.064 Ja	0.0988 J	0.0824 J	0.13	0.153
Pyrene	µg/L	—	0.27 U	0.26 U	0.051 Ja	0.27 U	0.25 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location: W-118R	W-118R	W-118R	W-118R	W-118R	W-118R	W-118R	W-118R	W-128
			Screened Unit: Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth BTOC (feet): 29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	24.8
			Sample Date: 30-Sep-08	28-Apr-09	15-Sep-09	30-Mar-10	05-May-10	15-Sep-10	27-Apr-11	19-Sep-11	10-Jul-07
Analyte	Units	Goal	Remediation								
Benzene	µg/L	5	165	137	230	1.00 U	na	220	26.1	6.19	1.00 U
Toluene	µg/L	2,000	1.00 U	1.00 U	5.98	1.00 U	na	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.00 U	4.96	61.4	1.00 U	na	1.27	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	3.00 U	3.00 U	22	6.00 U	na	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	10.6	3.78	7.83	0.0220 U	14.1	15.8	8.61	0.0220 U	4.16
Acenaphthylene	µg/L	--	15.6	7.75	17.8	0.0870 U	27.2	24.7	5.42	4.57	0.0850 U
Anthracene	µg/L	--	0.0417 J	0.0155 J	0.0107 J	0.0100 U	0.0100 U	0.0568 J	0.0258 J	0.0100 U	0.405
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U	0.189
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.197
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.292
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.114
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.139 J
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.218
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0495 J	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.53
Fluorene	µg/L	--	3.44	1.41	3.83	0.364	1.01	3.51	0.59	1.06	0.685
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.165
Naphthalene	µg/L	100	0.805	0.0460 U	49.6	R	0.0460 U	0.0460 U	0.0460 U	0.332 B	0.354
Phenanthrene	µg/L	--	0.199	0.0856 J	0.222	0.00500 U	0.435	0.868	0.0566 J	0.00500 U	0.329
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	2.35

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: W-128			W-128	W-128	W-128	W-128	W-128	W-128	W-128	W-128
Screened Unit: Silty Sand			Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
Depth BTOC (feet): 24.8			24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
Sample Date: 20-Sep-07			05-May-08	01-Oct-08	28-Apr-09	16-Sep-09	30-Mar-10	15-Sep-10	27-Apr-11	
Remediation Goal										
Analyte	Units	Goal								
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U, L5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	6.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	5.25	4.19	5.27	3.91	4.01	3.24	2.08	1.72
Acenaphthylene	µg/L	--	0.0850 U	0.0850 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.128 J	0.0764 J	0.0754 J	0.0936 J	0.0579 J	0.0291 J	0.0559 J	0.0462 J
Benzo(a)anthracene	µg/L	0.1	0.124 J	0.0553 J	0.0536 J	0.112 J	0.0698 J	0.0374 J	0.0547 J	0.0546 J
Benzo(a)pyrene	µg/L	0.2	0.147 J	0.120 J	0.088 J	0.169 J	0.0807 J	0.00800 U	0.00800 U	0.0417 J
Benzo(b)fluoranthene	µg/L	0.2	0.239	0.0130 U	0.0280 U	0.238	0.0929 J	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.2	0.0877 J	0.00800 U	0.117	0.112	0.00800 U	0.00800 U	0.0479 J
Benzo(k)fluoranthene	µg/L	0.2	0.116 J	0.0150 U	0.00700 U	0.0510 J	0.0375 J	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.218	0.162	0.164	0.205	0.0657 J	0.00800 U	0.0982 J	0.0831 J
Dibenzo(a,h)anthracene	µg/L	0.2	0.0235 J	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.63	0.334	0.306	0.375	0.17 J	0.0537 J	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.772	0.551	0.67	0.0160 U	0.452	0.0160 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.144	0.0696 J	0.00600 U	0.119	0.0612 J	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	0.627	0.0540 U	0.0460 U	0.0460 U	0.225	R	0.0460 U	0.0460 U
Phenanthrene	µg/L	--	0.653	0.113	0.0734 J	0.0879 J	0.0511 J	0.00500 U	0.00500 U	0.03 J
Pyrene	µg/L	--	1.31	0.485	0.481	0.221	0.11 J	0.0170 U	0.0170 U	0.0915 J

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: W-128
Screened Unit: Silty Sand
Depth BTOC (feet): 24.8
Sample Date: 19-Sep-11
Remediation

Analyte	Units	Goal	
Benzene	µg/L	5	1.00 U
Toluene	µg/L	2,000	1.00 U
Ethylbenzene	µg/L	700	1.00 U
Xylenes	µg/L	10,000	3.00 U
2-Methylnaphthalene	µg/L	--	na
Dibenzofuran	µg/L	--	na
Acenaphthene	µg/L	--	2.44
Acenaphthylene	µg/L	--	<0.0870
Anthracene	µg/L	--	<0.0100
Benzo(a)anthracene	µg/L	0.1	0.0306 J
Benzo(a)pyrene	µg/L	0.2	<0.00800
Benzo(b)fluoranthene	µg/L	0.2	<0.0280
Benzo(g,h,i)perylene	µg/L	--	<0.00800
Benzo(k)fluoranthene	µg/L	0.2	<0.00700
Chrysene	µg/L	0.2	<0.00800
Dibenzo(a,h)anthracene	µg/L	0.2	<0.0100
Fluoranthene	µg/L	--	<0.0100
Fluorene	µg/L	--	<0.0160
Indeno(1,2,3cd)pyrene	µg/L	0.4	<0.00600
Naphthalene	µg/L	100	1.09 B
Phenanthrene	µg/L	--	<0.00500
Pyrene	µg/L	--	0.128 J

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Sample Location: W-13			W-13	W-13	W-13	W-13	W-13	W-13	W-13	W-13
Screened Unit: Alluvial			Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
Depth BTOC (feet): 48.0			48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
Sample Date: 10-Oct-05			14-Mar-06	11-Sep-06	17-Apr-07	19-Sep-07	05-May-08	30-Sep-08	28-Apr-09	15-Sep-09
Analyte	Units	Goal	Remediation							
Benzene	µg/L	5	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U, L5	1.00 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	1.0 U	1.0 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	2.4 U	2.5 U*	0.0490 U	0.0544 U	0.0490 U	0.0490 U	0.0220 U	0.0220 U
Acenaphthylene	µg/L	--	1.2 U	1.3 U*	0.0850 U	0.0944 U	0.0850 U	0.0850 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.048 U	0.050 U*	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.020 Ja	0.13 U	0.015 J	0.00333 U	0.00300 U	0.00300 U	0.00500 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.021 Ja	0.13 U	0.0320 U	0.0356 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.048 U	0.050 U	0.0130 U	0.0144 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.19 U	0.20 U	0.00900 U	0.0100 U	0.00900 U	0.00900 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.048 U	0.050 U	0.0150 U	0.0167 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.12 U	0.13 U	0.0431 J	0.00556 U	0.00500 U	0.00500 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.29 U	0.30 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.048 Ja	0.13 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.24 U	0.25 U*	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.12 U	0.13 U	0.00700 U	0.00778 U	0.00700 U	0.00700 U	0.00800 U	0.00800 U
Naphthalene	µg/L	100	1.2 U	1.3 U*	0.0540 U	0.117 B	0.0540 U	0.0540 U	0.0460 U	0.0589 J
Phenanthrene	µg/L	--	0.096 U	0.099 Ua	0.0292 J	0.0115 J	0.00700 U	0.00700 U	0.0137 J	0.00500 U
Pyrene	µg/L	--	0.048 Ja	0.25 U	0.16 J	0.0211 U	0.0190 U	0.0190 U	0.0170 U	0.0170 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location:	W-13	W-13	W-13	W-13	W-13	W-15	W-15	W-15	W-15
			Screened Unit:	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			Depth BTOC (feet):	48.0	48.0	48.0	48.0	48.0	53.0	53.0	53.0	53.0
			Sample Date:	30-Mar-10	05-May-10	15-Sep-10	27-Apr-11	19-Sep-11	24-Sep-96	24-Sep-96	26-Nov-96	22-Jan-97
			Remediation									
Analyte	Units	Goal										
Benzene	µg/L	5	1.00 U	na	1.00 U	1.00 U	1.00 U	1.00 U	1 U	1 U	1 U	1 U
Toluene	µg/L	2,000	1.00 U	na	1.00 U	1.00 U	1.00 U	1.00 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	700	1.00 U	na	1.00 U	1.00 U	1.00 U	1.00 U	1 U	1 U	1.3	1 U
Xylenes	µg/L	10,000	6.00 U	na	3.00 U	3.00 U	3.00 U	3.00 U	1 U	1 U	na	na
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	na	na	na	na	na	na	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	0.234	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U	0.0200 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	R	0.0460 U	0.0645 J	0.0460 U	0.0952 J, B		10 U	10 U	10 U	10 U
Phenanthrene	µg/L	--	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	10 U	10 U	10 U	10 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15
			Screened Unit:	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			Depth BTOC (feet):	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
			Sample Date:	29-May-97	25-Sep-97	19-Dec-97	17-Mar-98	16-Jun-98	29-Sep-98	09-Dec-98	23-Mar-99
			Remediation	23-Jun-99							
Analyte	Units	Goal									
Benzene	µg/L	5	2.5	1 U	1 U	1 U	1 U	na	1 U	1 U	1 U
Toluene	µg/L	2,000	1 U	1 U	1 U	1 U	1 U	na	1 U	1 U	1 U
Ethylbenzene	µg/L	700	1.3	1 U	1 U	1 U	1 U	na	1 U	1 U	1 U
Xylenes	µg/L	10,000	3.9	1.1	1.8	1 U	1	na	3	1.1	1 U
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	11	2	5	10 U	10 U	5	10 U	10 U	10 U
Phenanthrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location:	W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15
			Screened Unit:	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			Depth BTOC (feet):	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
			Sample Date:	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00	14-Sep-00	14-Dec-00	20-Mar-01	06-Jun-01
			Remediation								19-Sep-01
Analyte	Units	Goal									
Benzene	µg/L	5	1 U	4.1	3	5.1	1 U	1 U	0.2 J	1 U	1 U
Toluene	µg/L	2,000	1 U	0.56	1.9	1.4	1 U	0.17 J	0.24 J	1 U	1 U
Ethylbenzene	µg/L	700	1 U	2.4	2.8	3.5	1 U	1 U	1 U	1 U	1 U
Xylenes	µg/L	10,000	1 U	1.5	4	2.8	1 U	0.45 J	0.69 J	1 U	1 U
2-Methylnaphthalene	µg/L	--	10 U	10 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	10 U	10 U	na	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	10 U	10 U	0.59	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	10 U	10 U	1.2	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	10 U	10 U	0.15	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	0.029	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	0.05	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	0.038	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	0.043	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	0.10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	0.034	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	0.20 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	10 U	10 U	0.12	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	10 U	10 U	0.079	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	0.091	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	10 U	5	2.5	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	--	10 U	10 U	0.27	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	10 U	10 U	0.13	10 U	10 U	10 U	10 U	10 U	10 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: Screened Unit: Depth BTOC (feet): Sample Date: Remediation			W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15
			Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
			11-Dec-01	13-Mar-02	05-Jun-02	18-Sep-02	04-Dec-02	10-Jun-03	30-Mar-04	15-Sep-04	15-Mar-05
Analyte	Units	Goal									
Benzene	µg/L	5	1 U	1 U	1 U	1 U	0.59	2 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	2,000	0.23 J	1 U	1 U	1 U	1 U	2 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	0.96 J	1.2	1 U	1 U	1 U	2 U	1.0 U	1.0 U	1.0 U
Xylenes	µg/L	10,000	0.41 J	1 U	1 U	1 U	1 U	7 U	1.0 U	1.0 U	1.0 U
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	na	na	na	na
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	na	na	na	na
Acenaphthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	2.4 U	2.4 U	2.4 U
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	1.2 U	1.2 U	1.3 U
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	0.048 U	0.048 U	0.049 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	0.1 U	0.12 U	0.12 U	0.13 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	0.1 U	0.12 U	0.12 U	0.13 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	0.1 U	0.048 U	0.048 U	0.049 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	0.19 U	0.19 U	0.19 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	0.1 U	0.048 U	0.048 U	0.049 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	0.1 U	0.12 U	0.12 U	0.13 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	0.1 U	0.29 U	0.29 U	0.29 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	0.12 U	0.12 U	0.13 U
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	0.24 U	0.24 U	0.24 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	0.1 U	0.12 U	0.12 U	0.13 U
Naphthalene	µg/L	100	1 J	4.6 J	10 U	2.2 J	10	0.1 U	1.2 U	1.2 U	1.3 U
Phenanthrene	µg/L	--	0.3 J	0.3 J	10 U	10 U	10 U	0.1 U	0.096 U	0.095 U	0.097 Ua
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	0.1 U	0.24 U	0.24 U	0.24 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Sample Location: Screened Unit: Depth BTOC (feet): Sample Date: Remediation			W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15	W-15
			Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
			11-Oct-05	15-Mar-06	12-Sep-06	18-Apr-07	20-Sep-07	06-May-08	01-Oct-08	28-Apr-09	16-Sep-09
Analyte	Units	Goal									
Benzene	µg/L	5	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	1.0 U	1.0 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	2.4 U	2.5 U	0.0557 U	0.0544 U	0.0490 U	0.0490 U	0.0220 U	0.0220 U	0.0220 U
Acenaphthylene	µg/L	--	1.2 U	1.3 U	0.0966 U	0.0944 U	0.0850 U	0.0850 U	0.0870 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.084	0.051 U	0.0114 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.059 Ja	0.13 U	0.00341 U	0.00333 U	0.00300 U	0.00300 U	0.00500 U	0.00500 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.12 U	0.13 U	0.0364 U	0.0356 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.035 Ja	0.051 U	0.0148 U	0.0144 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.19 U	0.20 U	0.0102 U	0.0100 U	0.00900 U	0.00900 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.048 U	0.051 U	0.0170 U	0.0167 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.032 Ja	0.13 U	0.00568 U	0.00556 U	0.00500 U	0.00500 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.29 U	0.30 U*	0.0114 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.12 J	0.13 U	0.0114 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.24 U	0.25 U	0.0114 U	0.0111 U	0.0100 U	0.0100 U	0.0160 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.12 U	0.13 U	0.00795 U	0.00778 U	0.00700 U	0.00700 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	1.2 U	1.3 U	0.0614 U	0.0600 U	0.0540 U	0.0540 U	0.0460 U	0.0460 U	0.0460 U
Phenanthrene	µg/L	--	0.076 Ja	0.10 U	0.00795 U	0.00778 U	0.00700 U	0.00700 U	0.00500 U	0.00500 U	0.00500 U
Pyrene	µg/L	--	0.11 Ja	0.25 U	0.0216 U	0.0211 U	0.0190 U	0.0190 U	0.0170 U	0.0170 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location: W-15 W-15 W-15 W-15 W-20 W-20 W-20 W-20 W-20								
			Screened Unit: Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial								
			Depth BTOC (feet): 53.0 53.0 53.0 53.0 51.0 51.0 51.0 51.0 51.0								
			Sample Date: 31-Mar-10 15-Sep-10 27-Apr-11 20-Sep-11 29-Apr-09 16-Sep-09 31-Mar-10 05-May-10 14-Sep-10								
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	8.71	1.00 U	na	1.00 U
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.09	1.00 U	na	1.00 U
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.7	1.00 U	na	1.00 U
Xylenes	µg/L	10,000	6.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.54	6.00 U	na	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na		na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na		na	na	na	na	na
Acenaphthene	µg/L	--	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.253	3.01	0.407	2.43	1.91
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0978 U	3.09	0.0870 U	2.18	1.48
Anthracene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0220 J	0.0691 J	0.0567 J	0.0447 J	0.0584 J
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.0200 U	0.0200 U	0.00562 U	0.0249 J	0.0216 J	0.00500 U	0.0123 J
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.0315 U	0.00889 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.00787 U	0.0311 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00899 U	0.00899 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00899 U	0.00778 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00899 U	0.0174 J	0.00800 U	0.00800 U	0.0376 J
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0112 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0374 J	0.0805 J	0.0187 J	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.223	2.66 M1	0.503	1.41	1.11
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00674 U	0.00667 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	R	0.0460 U	0.0460 U	0.0460 U	0.0517 U	0.916	R	0.183 J	0.13
Phenanthrene	µg/L	--	0.00500 U	0.0379 J	0.00500 U	0.00500 U	0.00562 U	0.127	0.00500 U	0.00500 U	0.00500 U
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0191 U	0.075 J	0.0170 U	0.0170 U	0.0255 J

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: Screened Unit: Depth BTOC (feet): Sample Date: Remediation			W-20	W-21	W-21	W-21	W-21	W-21	W-21	W-21	W-21
			Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			51.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
			27-Apr-11	26-Nov-96	22-Jan-97	29-May-97	25-Sep-97	18-Dec-97	18-Dec-97	17-Mar-98	16-Jun-98
Analyte	Units	Goal									
Benzene	µg/L	5	1.00 U	67	1 U	71	2.3	1 U	na	1 U	1 U
Toluene	µg/L	2,000	1.00 U	20 U	1 U	10 U	1 U	1 U	na	1 U	1 U
Ethylbenzene	µg/L	700	1.00 U	81	1.2	260	6.2	1 U	na	1 U	1 U
Xylenes	µg/L	10,000	3.00 U	na	na	89	3.2	1 U	na	1 U	1 U
2-Methylnaphthalene	µg/L	--	na	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	--	na	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	µg/L	--	2.72	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	--	0.0870 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	--	0.0904 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	0.043 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	0.0459 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	0.0588 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	0.0431 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.2	0.0666 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0533 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	--	0.0693 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	--	0.53	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.0788 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	100	0.318 B	10 U	10 U	10 U	2	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	--	0.0889 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	--	0.0170 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Analyte	Sample Location:		W-21	W-21	W-21	W-21	W-21	W-21	W-21	W-21	W-21
	Screened Unit:		Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
	Depth BTOC (feet):		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	Sample Date:		29-Sep-98	10-Dec-98	23-Mar-99	23-Jun-99	28-Sep-99	15-Dec-99	15-Mar-00	06-Jun-00	14-Sep-00
	Remediation										
Units	Goal										
Benzene	µg/L	5	2	3	2.3	3.9	0.48	0.91	0.56	4.7	1 U
Toluene	µg/L	2,000	1 U	1 U	1 U	1 U	1 U	0.36	0.48	1.5	1 U
Ethylbenzene	µg/L	700	1 U	0.5	1 U	6.1	1 U	1.4	0.42	2.9	1 U
Xylenes	µg/L	10,000	1 U	1 U	1 U	1.5	1 U	0.89	0.64	2.6	1 U
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	2.0 U	10 U	10 U
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	na	10 U	10 U
Acenaphthene	µg/L	--	2	10 U	10 U	10 U	10 U	10 U	2.0 U	10 U	10 U
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	2.0 U	10 U	10 U
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.20 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.10 U	10 U	10 U
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	0.20 U	10 U	10 U
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.029	10 U	10 U
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.048	10 U	10 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	0.20 U	10 U	10 U
Naphthalene	µg/L	100	10 U	10 U	10 U	10 U	10 U	4	2.0 U	2	10 U
Phenanthrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.062	10 U	10 U
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	0.023	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location:	W-21	W-21	W-21	W-21	W-21	W-21	W-21	W-21	W-21
			Screened Unit:	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			Depth BTOC (feet):	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
			Sample Date:	14-Dec-00	21-Mar-01	07-Jun-01	20-Sep-01	12-Dec-01	14-Mar-02	07-Jun-02	18-Sep-02	05-Dec-02
			Remediation									
Analyte	Units	Goal										
Benzene	µg/L	5	1 U	0.18 J	1 U	1 U	110	42	35	3.7	3	
Toluene	µg/L	2,000	0.3 J	0.29 J	1 U	1 U	16	6.6	5.5	0.39 J	0.45 J	
Ethylbenzene	µg/L	700	1 U	1 U	1 U	1 U	57	37	16	2.5	3.4	
Xylenes	µg/L	10,000	0.5 J	0.21 J	1 U	1 U	77	33	25	2.4	1.7	
2-Methylnaphthalene	µg/L	--	10 U	10 U	10 U	10 U	10 U	2.7 J	10 U	10 U	10 U	
Dibenzofuran	µg/L	--	10 U	10 U	10 U	10 U	10 U	4.3 J	1.6 J	0.53 J	4.1 J	
Acenaphthene	µg/L	--	10 U	10 U	10 U	10 U	0.6 J	37	12	4.1 J	14	
Acenaphthylene	µg/L	--	10 U	10 U	10 U	10 U	0.85 J	26	8.6 J	1.8 J	5.1 J	
Anthracene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene	µg/L	0.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)pyrene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenzo(a,h)anthracene	µg/L	0.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	1.2 J	10 U	10 U	
Fluorene	µg/L	--	10 U	10 U	10 U	10 U	10 U	4.4 J	1.6 J	10 U	3.0 J	
Indeno(1,2,3cd)pyrene	µg/L	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	100	10 U	10 U	10 U	10 U	270	1300	260	10 U	7	
Phenanthrene	µg/L	--	10 U	0.37 J	10 U	10 U	0.25 J	10 U	0.81 J	10 U	10 U	
Pyrene	µg/L	--	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J	10 U	10 U	

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

			Sample Location: W-21 W-21 W-21 W-21 W-21R W-21R W-21R W-21R W-21R								
			Screened Unit: Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial Alluvial								
			Depth BTOC (feet): 50.0 50.0 50.0 50.0 49.5 49.5 49.5 49.5 49.5								
			Sample Date: 09-Jun-03 30-Mar-04 14-Sep-04 14-Mar-05 02-May-05 10-Oct-05 14-Mar-06 11-Sep-06 17-Apr-07								
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	2 U	1.4	44	66	65	23	3.2	5.57	104
Toluene	µg/L	2,000	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	2 U	1.0 U	0.67 Ja	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	1.4	0.72 Ja	1.3Ja	0.92 Ja	12	7.2	3.7	1.69	7.79
Acenaphthylene	µg/L	--	0.28	1.2 Ja	11	3.1	30	12	4.9	0.0850 U	1.78
Anthracene	µg/L	--	0.12	0.055	0.034 Ja	0.026 Ja	0.32	0.31	0.25	0.306	0.288
Benzo(a)anthracene	µg/L	0.1	0.1	0.30	0.10 Ja	0.13	0.12 U	0.12 U	0.13 U	0.00300 U	0.00300 U
Benzo(a)pyrene	µg/L	0.2	0.14	0.43	0.12 J	0.16	0.12 U	0.12 U	0.13 U	0.0320 U	0.0320 U
Benzo(b)fluoranthene	µg/L	0.2	0.14	0.52	0.17	0.23	0.046 U	0.047 U	0.049 U	0.0130 U	0.0130 U
Benzo(g,h,i)perylene	µg/L	--	0.11	0.47	0.11 Ja	0.22	0.19 U	0.19 U	0.19 U	0.00900 U	0.00900 U
Benzo(k)fluoranthene	µg/L	0.2	0.15	0.25	0.079	0.11	0.046 U	0.047 U	0.049 U	0.0150 U	0.0150 U
Chrysene	µg/L	0.2	0.15	0.40	0.14	0.17 M	0.12 U	0.12 U	0.13 U	0.00500 U	0.00500 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.1 U	0.30 U	0.29 U	0.29 U	0.28 U	0.28 U	0.29 U*	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.36	0.78	0.29	0.36	0.12 U	0.12 U	0.13 U	0.0243 J	0.0100 U
Fluorene	µg/L	--	0.29	0.15 Ja	0.13 Ja	0.068 Ja	6.1	3.1	2.6	1.88	3.35
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.1	0.46	0.14	0.21	0.12 U	0.12 U	0.13 U	0.00700 U	0.00700 U
Naphthalene	µg/L	100	0.15	1.3 Ua	0.61 Ja	1.3 U	0.57 Ja	1.2 U	1.3 U	0.217	0.0540 U
Phenanthrene	µg/L	--	0.21	0.32	0.13	0.13	0.030 Ja	0.094 U	0.097 U	0.0445 J	0.00700 U
Pyrene	µg/L	--	0.27	0.60	0.20 Ja	0.28	0.23 U	0.24 U	0.24 U	0.102 J	0.0190 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Sample Location: W-21R			W-21R			W-21R			W-21R		
	Screened Unit: Alluvial			Alluvial			Alluvial			Alluvial		
	Depth BTOC (feet): 49.5			49.5			49.5			49.5		
	Sample Date: 19-Sep-07			05-May-08			30-Sep-08			28-Apr-09		
	Remediation Goal			15-Sep-09			30-Mar-10			05-May-10		
Units	Goal											
Benzene	µg/L	5	2.41	34.2	2.17	67.0	1.00 U	206	na	2.84		
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	na	1.00 U		
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.64	na	1.00 U		
Xylenes	µg/L	10,000	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	6.00 U	na	3.00 U		
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na		
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na		
Acenaphthene	µg/L	--	1.18	2.55	3.66	7.32	2.82	16.1	0.979	1.34		
Acenaphthylene	µg/L	--	0.0850 U	1.00	0.568	1.27	0.952	30.5	0.0870 U	0.0870 U		
Anthracene	µg/L	--	0.124 J	0.117 J	0.149 J	0.14800 J	0.257	0.0100 U	0.0583 J	0.188 J		
Benzo(a)anthracene	µg/L	0.1	0.00300 U	0.00300 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U		
Benzo(a)pyrene	µg/L	0.2	0.0320 U	0.0320 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U		
Benzo(b)fluoranthene	µg/L	0.2	0.0130 U	0.0130 U	0.0280 U	0.02800 U	0.02800 U	0.0280 U	0.0280 U	0.0280 U		
Benzo(g,h,i)perylene	µg/L	--	0.00900 U	0.00900 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U		
Benzo(k)fluoranthene	µg/L	0.2	0.0150 U	0.0150 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U		
Chrysene	µg/L	0.2	0.00500 U	0.00500 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U		
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U		
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0398 J	0.0631 J	0.0526 J	0.0100 U	0.0100 U	0.104 J		
Fluorene	µg/L	--	0.906	1.18	3.8	4.99	1.91	0.0160 U	0.724	1.14		
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00700 U	0.00700 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U		
Naphthalene	µg/L	100	0.119	0.438	0.417	0.04600 U	0.166	R	0.0460 U	0.0460 U		
Phenanthrene	µg/L	--	0.0589 J	0.0589 J	0.0547 J	0.00500 U	0.00666 J	0.00500 U	0.00500 U	0.00500 U		
Pyrene	µg/L	--	0.0190 U	0.0190 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U		

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Sample Location: Screened Unit: Depth BTOC (feet): Sample Date: Remediation			W-21R	W-21R	W-24	W-24	W-24	W-24	W-24	W-24	W-24
			Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			49.5	49.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
			27-Apr-11	19-Sep-11	29-Apr-09	16-Sep-09	31-Mar-10	06-May-10	14-Sep-10	27-Apr-11	20-Sep-11
Analyte	Units	Goal									
Benzene	µg/L	5	1.00 U	28.5	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	na	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	3.00 U	3.00 U	3.00 U	3.00 U	6.00 U	na	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	0.2	0.0220 U	0.0250 U	0.0220 U	0.0220 U	0.0220 U	0.0244 U	0.0220 U	0.0220 U
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0989 U	0.0870 U	0.0870 U	0.0870 U	0.0967 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.0324 J	0.204	0.0114 U	0.0100 U	0.0100 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.0200 U	0.0200 U	0.00568 U	0.00500 U	0.00500 U	0.00500 U	0.00556 U	0.0200 U	0.0200 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	0.00889 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0318 U	0.0280 U	0.0280 U	0.0280 U	0.0311 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	0.00889 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00795 U	0.00700 U	0.00700 U	0.00700 U	0.00778 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00909 U	0.00800 U	0.00800 U	0.00800 U	0.00889 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0114 U	0.0100 U	0.0100 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.133 J	0.0114 U	0.0100 U	0.0100 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.301	7.8	0.0182 U	0.0160 U	0.0160 U	0.0160 U	0.0178 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00682 U	0.00600 U	0.00600 U	0.00600 U	0.00667 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	0.0460 U	0.0460 U	0.0523 U	0.120	R	0.0460 U	0.0511 U	0.215 B	0.0717 JB
Phenanthrene	µg/L	--	0.00500 U	0.00500 U	0.00568 U	0.0117 J	0.00500 U	0.00500 U	0.00556 U	0.00500 U	0.00500 U
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0193 U	0.0170 U	0.0170 U	0.0170 U	0.0189 U	0.0170 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location:	W-27	W-27	W-27	W-27	W-27	W-27	W-27	W-27
			Screened Unit:	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial	Alluvial
			Depth BTOC (feet):	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
			Sample Date:	10-Oct-05	14-Mar-06	12-Sep-06	17-Apr-07	19-Sep-07	05-May-08	01-Oct-08	28-Apr-09
			Remediation								
Analyte	Units	Goal									
Benzene	µg/L	5	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U, L5	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	1.0 U	1.0 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/L	--	2.5 U	2.5 U*	0.0490 U	0.0490 U	0.0490 U	0.0490 U	0.0220 U	0.0220 U	0.0220 U
Acenaphthylene	µg/L	--	1.3 U	1.3 U*	0.0850 U	0.0850 U	0.0850 U	0.0850 U	0.0870 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.051 U	0.049 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.13 U	0.13 U	0.00300 U	0.00300 U	0.00300 U	0.00300 U	0.00500 U	0.00500 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.13 U	0.13 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.051 U	0.049 U	0.0130 U	0.0130 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.20 U	0.20 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.051 U	0.049 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.13 U	0.13 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.30 U	0.29 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.13 U	0.13 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.25 U	0.25 U*	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0160 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.13 U	0.13 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	1.3 U	1.3 U*	0.0540 U	0.0540 U	0.0540 U	0.0540 U	0.0460 U	0.0460 U	0.0874 J
Phenanthrene	µg/L	--	0.10 U	0.098 U	0.00956 J	0.00700 U	0.00700 U	0.00700 U	0.00500 U	0.00500 U	0.00500 U
Pyrene	µg/L	--	0.25 U	0.25 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0170 U	0.0170 U	0.0170 U

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

			Sample Location: W-27 W-27 W-27 W-27 W-27 Screened Unit: Alluvial Alluvial Alluvial Alluvial Alluvial Depth BTOC (feet): 49.7 49.7 49.7 49.7 49.7 Sample Date: 30-Mar-10 06-May-10 15-Sep-10 27-Apr-11 19-Sep-11 Remediation				
Analyte	Units	Goal					
Benzene	µg/L	5	1.00 U	na	1.00 U	1.00 U	1.00 U
Toluene	µg/L	2,000	1.00 U	na	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	700	1.00 U	na	1.00 U	1.00 U	1.00 U
Xylenes	µg/L	10,000	6.00 U	na	3.00 U	3.00 U	3.00 U
2-Methylnaphthalene	µg/L	--	na	na	na	na	na
Dibenzofuran	µg/L	--	na	na	na	na	na
Acenaphthene	µg/L	--	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Acenaphthylene	µg/L	--	0.0870 U	0.0870 U	0.0870 U	0.0870 U	0.0870 U
Anthracene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.00500 U	0.00500 U	0.00500 U	0.0200 U	0.0200 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Naphthalene	µg/L	100	R	0.0460 U	0.0460 U	0.0460 U	0.189 B
Phenanthrene	µg/L	--	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Notes:

-- = Remediation Goal not established.
BTOC = Below top of casing.
na = Not analyzed.
ns = Not sampled.
* = LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
a = Concentration is below the reporting limit.
B = Analyte was detected in the associated Method Blank.
C9 = Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
CIN = The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
ET = Matrix interference in sample is causing an endpoint timeout.
FM = Elevated detection limits due to sample foaming.
H = Sample analysis performed past method-specified holding time.
J = Estimated concentration below the reporting limit.
L1 = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
L5 = Laboratory Control Sample was outside of acceptance Limits. The MS or MSD was used to validate the batch.
M1 = The MS and/or MSD were outside control limits.
MHA = Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
N1 = See case narrative.
pH<12 = Sample received at pH<12. It was adjusted correctly prior to analysis.
pH>2 = Sample received at pH>2. It was adjusted correctly prior to analysis.
P-HS = The sample container contained headspace.
Q = Poor chromatographic match to standard.
R = Sample result rejected; not usable.
S3 = Post digestion spike is out of acceptance limits for this analyte.
U = Analyte not detected at or above reporting limit.
µg/l = Microgram(s) per liter.
mg/L = Milligram(s) per liter.
ZX = Due to sample matrix effects, the surrogate recovery was outside the control limits.

**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

		Sample Location:	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112	P-112
		Screened Unit:	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth BTOC (feet):	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
		Sample Date:	25-Apr-05	11-Oct-05	15-Mar-06	12-Sep-08	18-Apr-07	20-Sep-07	06-May-08	01-Oct-08	29-Apr-09	18-Sep-09	31-Mar-10
		Remediation Goal											
Analyte	Units												
Alkalinity, Total as CaCO3	mg/L	—	510	670	810	854	986	1090	1220	1200	1340	1290	1680
Ammonia(NH3+NH4), as N	mg/L	—	31	32	32	41.6	41.3	54.3	58.2	74.2	95.7	114	128
Chloride	mg/L	—	na	na	na	984 M1	na	na	na	na	na	na	na
Iron, Total	mg/L	—	na	95	120	122 MHA	137	101 MHA	65	94.7	78.8	68.8	64.8
Iron, Dissolved	mg/L	—	na	99	120	119 MHA	125	98.8 MHA	100	89.5	86.2	71.8	70
Manganese, Total	mg/L	—	na	5.5	8.2	6.07	6.24	5.33 MHA	9.82	5.17	4.29	4.08	3.78
Manganese, Dissolved	mg/L	—	na	na	8.8	5.97	5.87	5.21	5.08	4.91	4.80	4.2	4.04
Methane	µg/L	—	2400	2900	2800	11600	16200	4600 M7	4200	8530	18500	10800	7170
Nitrate as N (NO3-N)	mg/L	—	0.10 U	0.10 U	0.10 U	0.100 U M1	0.100 U	0.100 U M1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite as N (NO2-N)	mg/L	—	0.020 U	0.020 U	0.020 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Nitrogen, Total Kjeldahl as N	mg/L	—	27	30	32	34.2 M1	43.1	50.4 M1	81.8	58.1	93.8	113 M1	130
Phosphate, Ortho as P	mg/L	—	0.027 B^	0.050 U	0.018 B	0.100 U	0.100 U	1.00 U RL1	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Sulfate	mg/L	—	9.3	15	5.0 U	15.9		12.2 M7	88.7	140	78.3	81.9	165
Sulfide	mg/L	—	2.3	6.3	8.8	1	1.55 pH<12	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U pH<12
Total Organic Carbon	mg/L	—	12	18	18	18.6 M1	7.42 ET	7.22 ET, M1	7.88 ET	18.9 ET	26.7 ET	25.4	26.7 ET
Benzene	µg/L	5	49	29	270	286	285	369 M1	551	554	786	1280	1580
Toluene	µg/L	2,000	3.7	1.5	10 U	21.8	18.8	22.8 M1	11.2 L1	5.15	10.7	26.7	14.4
Ethylbenzene	µg/L	700	91	57	500	715	538	585	789	871	890	831	1170
Xylenes	µg/L	10,000	75	29	220	734	232	279 M1	236 L1	556	235	277	117
Acenaphthene	µg/L	—	2.0 Ja	18	11	32.4	54.3	55.4	84.7	79.4	80.8	101	109
Acenaphthylene	µg/L	—	50	380	270	0.0850 U	0.0944 U	0.0850 U	0.0850 U	0.0870 U	0.0870 U	0.0870 U	1.74 U
Anthracene	µg/L	—	0.050 U	0.24 U	0.051 U	0.0113	0.0721 J	0.138 J	0.217	0.125 J	0.160 J	0.285	0.0100 U
Benzo(a)anthracene	µg/L	0.1	0.13 U	0.82 U	0.13 U	0.00558	0.00333 U	0.00300 U	0.01 J	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.13 U	0.82 U	0.13 U	0.0320 U	0.0356 U	0.0320 U	0.0320 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.050 Ua	0.24 U	0.051 U	0.0130 U	0.0144 U	0.0130 U	0.0130 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	—	0.20 U	0.95 U	0.20 U	0.00900 U	0.0100 U	0.00900 U	0.00900 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.050 U	0.24 U	0.051 U	0.0150 U	0.0187 U	0.0150 U	0.0150 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U
Chrysene	µg/L	0.2	0.13 U	0.82 U	0.13 U	0.0338 J	0.00556 U	0.00500 U	0.00500 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.30 U	1.4 U	0.30 U*	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	—	0.13 U	0.22 Ja	0.13 U	0.0100 U	0.0111 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.198	0.0100 U
Fluorane	µg/L	—	0.25 U	1.8	1.2	10.1	20.3	33.5	84.2	8.08	11.5	91.7	53
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.13 U	0.82 U	0.13 U	0.00700 U	0.00778 U	0.007	0.00700 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Naphthalene	µg/L	100	58	520	380	187	727 B	719	508	211	324	703	R
Phenanthrene	µg/L	—	0.099 Ua	0.48 U	0.10 U	0.544	2.4	1.85	2.95	2.17	2.83	3.52	0.100 U
Pyrene	µg/L	—	0.25 U	1.2 U	0.25 U	0.0190 U	0.0211 U	0.0190 U	0.0248 J	0.0170 U	0.0170 U	0.0170 U	0.00500 U, M1
TPH as Gasoline	mg/L	—	na	na	na	na	na	na	na	na	na	na	8.53
Diesel	µg/L	—	na	na	na	na	na	na	na	na	na	na	5340 N1,Q
Gasoline	µg/L	—	na	na	na	na	na	na	na	na	na	na	13000 B,N1,Q
Motor Oil	µg/L	—	na	na	na	na	na	na	na	na	na	na	512 N1,Q
Total Extractable Hydrocarbons	µg/L	—	na	na	na	na	na	na	na	na	na	na	18900
BOD - 5 Day	mg/L	—	na	na	na	na	na	na	na	na	na	na	18.4
Chemical Oxygen Demand	mg/L	—	na	na	na	na	na	na	na	na	na	na	75.7 M1
Phosphorous, Total	mg/L	—	na	na	na	na	na	na	na	na	na	na	na

Dubuque-PNG Groundwater (12-11).xlsx
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GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Sample Location:			P-112	P-112	P-112	W-117	W-117R	W-117R	W-117R	W-117R	W-117R	W-117R	W-117R
Screened Unit:			Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
Depth BTOC (feet):			38.8	38.8	38.8	35.0	35.7	35.7	35.7	35.7	35.7	35.7	35.7
Sample Date:			14-Sep-10	28-Apr-11	20-Sep-11	27-Apr-05	11-Oct-05	15-Mar-06	12-Sep-08	18-Apr-07	20-Sep-07	6-May-08	1-Oct-08
Remediation Goal													
Analyte	Units	Goal											
Alkalinity, Total as CaCO3	mg/L	--	1490	1160	1030	650	590	640	590	673	639	621	615
Ammonia(NH3+NH4),as N	mg/L	--	127	83.8	76.4	77	38	23	25	27.3	28.7	17.5	32.9
Chloride	mg/L	--	1080	NA	na	na	na	na	2160	na	na	na	na
Iron, Total	mg/L	--	75.8	65	81	na	110	70	71.1	83.5 MHA	53.8	101	43.6
Iron, Dissolved	mg/L	--	59.1	62.7	65.1	na	43	48	46.2	64.0 MHA	48.9	63.1	42.4
Manganese, Total	mg/L	--	3.79	3.58	3.6	na	9.4	8.6	8.04	9.47	6.81	5.09	5.95
Manganese, Dissolved	mg/L	--	3.28	3.5	3.27	na	na	8.5	7.28	9.05 MHA	6.7	9.48	5.84
Methane	µg/L	--	6870	4300	2830	1000	200	140	530	748	273	154	529
Nitrate as N (NO3-N)	mg/L	--	0.10 U,H3,P2	0.10 U, P2	0.10 U	0.10 U	0.10 U	0.10 U	0.100 U	0.100 U	0.100 U	0.10 U	0.10 U
Nitrite as N (NO2-N)	mg/L	--	0.100 U,H3	0.100,U	0.100,U	0.020 U	0.020 U	0.020 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Nitrogen, Total Kjeldahl as N	mg/L	--	114	86.4	72.1	80	44	23	21.3	27 M1	29.2	31.5	33.4
Phosphate, Ortho as P	mg/L	--	0.100 U,H3	0.100 U	0.100 U	0.015 B	0.050 U	0.016 B	0.100 U	0.108 M1	0.100 U	0.100 U	0.100 U
Sulfate	mg/L	--	108	20.5	49.8	230	280	270	284	346	398	347	347
Sulfide	mg/L	--	2.00 U,pH<12	2.00 U, pH<12	2.00 U, pH<12	6.5	7.9	6.6	1	1.76	2.00 U	2.00 U	2.00 U
Total Organic Carbon	mg/L	--	18.5 ET	6.65 ET	10.2 ET	7	15	14	8.88	2.93 ET, M1	2.86 ET	2.47 ET	7.79 ET
Benzene	µg/L	5	1590	454	151	1.1	2.7	35	24.8	16.6	39.8	15.8	8.08
Toluene	µg/L	2,000	24.8	5.89	1.0 U	1.0 U	1.0 U	3.1	9	2.55	9.32	1.26	1.00 U
Ethylbenzene	µg/L	700	798	173	74.6	1.0 U	1.8	3.2	5.72	2.56	8.3	5.91	3.42
Xylenes	µg/L	10,000	278	155	70.9	1.0 U	1.0 U	3.4	10.2	4.36	14.2	6.80	6.09
Acenaphthene	µg/L	--	113	41.4	50.2	1.0 Ja	1.2 Ja	2.4 U	3.04	3.93	4.49	3.41	4.33
Acenaphthylene	µg/L	--	0.435 U	0.0870 U	56.8	2.3	15	15	4.95	7.51	11.5	6.44	16.3
Anthracene	µg/L	--	0.432	0.128 J	0.0100 U	0.050 Ua	0.029 Ja	0.049 Ua	0.0407 J	0.0495 J	0.075 J	0.0270 J	0.0100 U
Benzo(a)anthracene	ug/L	0.1	0.00500 U	0.0200 U	0.0200 U	0.13 U	0.018 Ja	0.13 U	0.00341 U	0.00337 U	0.00300 U	0.00300 U	0.00500 U
Benzo(a)pyrene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.13 U	0.025 Ja	0.13 U	0.0364 U	0.0360 U	0.0320 U	0.0320 U	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	0.0280 U	0.0280 U	0.0280 U	0.050 U	0.025 Ja	0.049 Ua	0.0148 U	0.0146 U	0.0130 U	0.0130 U	0.0280 U
Benzo(g,h,i)perylene	µg/L	--	0.00800 U	0.00800 U	0.00800 U	0.20 U	0.19 U	0.19 U	0.0102 U	0.0101 U	0.00900 U	0.00900 U	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	0.00700 U	0.00700 U	0.00700 U	0.050 U	0.047 U	0.049 U	0.0170 U	0.0169 U	0.0150 U	0.0150 U	0.00700 U
Chrysene	µg/L	0.2	0.00800 U	0.00800 U	0.00800 U	0.13 U	0.046 Ja	0.13 U	0.00568 U	0.00562 U	0.00500 U	0.00500 U	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.30 U	0.28 U	0.29 U*	0.0114 U	0.0112 U	0.0100 U	0.0100 U	0.0100 U
Fluoranthene	µg/L	--	0.0100 U	0.0100 U	0.0100 U	0.13 U	0.068 Ja	0.13 U	0.0114 U	0.0112 U	0.0100 U	0.0100 U	0.0100 U
Fluorene	µg/L	--	41.6	4.64	15.3	0.079 Ja	1.2	1.1	1.52	2.23	2.82	1.7	3.08
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.00800 U	0.00800 U	0.00800 U	0.13 U	0.12 U	0.13 U	0.00795 U	0.00787 U	0.00700 U	0.00700 U	0.00800 U
Naphthalene	µg/L	100	877	6.63	5.09 B	0.51 Ja	1.2 U	1.3 U	2.47	4.18 B	6.12	2.4	6.68
Phenanthrene	µg/L	--	5.05	1.39	0.00500 U	0.052 Ja	0.12	0.11	0.13	0.152	0.296	0.204	0.308
Pyrene	µg/L	--	0.0170 U	0.0170 U	0.0170 U	0.25 U	0.23 U	0.24 U	0.0216 U	0.0213 U	0.0190 U	0.0190 U	0.0170 U
TPH as Gasoline	mg/L	--	na	na	na	na	na	na	na	na	na	na	na
Diesel	µg/L	--	na	na	na	na	na	na	na	na	na	na	na
Gasoline	µg/L	--	na	na	na	na	na	na	na	na	na	na	na
Motor Oil	µg/L	--	na	na	na	na	na	na	na	na	na	na	na
Total Extractable Hydrocarbons	µg/L	--	na	na	na	na	na	na	na	na	na	na	na
BOD - 5 Day	mg/L	--	na	na	na	na	na	na	na	na	na	na	na
Chemical Oxygen Demand	mg/L	--	na	na	na	na	na	na	na	na	na	na	na
Phosphorous, Total	mg/L	--	na	na	na	na	na	na	na	na	na	na	na

Dubuque-PNG Groundwater (12-11).xlsx
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**GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA**

Analyte	Units	Sample Location:												
		Screened Unit:												
		Depth BTOC (feet):												
		Sample Date:												
		Remediation Goal	W-117R Silty Sand 35.7 16-Sep-09	W-117R Silty Sand 35.7 31-Mar-10	W-117R Silty Sand 35.7 6-May-10	W-117R Silty Sand 35.7 16-Sep-10	W-117R Silty Sand 35.7 28-Apr-11	W-117R Silty Sand 35.7 20-Sep-11	D-8 Silty Sand 37.0 27-Apr-05	D-8 Silty Sand 37.0 11-Oct-05	D-8 Silty Sand 37.0 15-Mar-06	D-8 Silty Sand 37.0 12-Sep-08	D-8 Silty Sand 37.0 18-Apr-07	D-8 Silty Sand 37.0 09-Sep-07
Alkalinity, Total as CaCO3	mg/L	--	853	837	na	858	748	886 M1	1300	1200	1300	1480	1820	1500
Ammonia(NH3+NH4),as N	mg/L	--	47.7	39.7	na	40.3	82.2	47.8	110	120	130	193	185	147
Chloride	mg/L	--	na	na	na	2280	na	na	na	na	na	1380	na	na
Iron, Total	mg/L	--	45.8	42.1	na	40.4	35	48 MHA	na	84	88	88.2	31.0 pH >2	59.7
Iron, Dissolved	mg/L	--	43.8	42.7 S3	na	39.0	33.2	43.3	na	38	31	49	9.45	45.8
Manganese, Total	mg/L	--	8.82	8.50 MHA	na	5.95	5.85	8.47 MHA	na	5.3	8.3	8.85	4.04 pH>2	8.74
Manganese, Dissolved	mg/L	--	6.58	8.80 S3	na	5.82	5.84	8.28	na	na	7.2	7.7	3.54	8.28
Methane	µg/L	--	997	823	na	808	740	561	5100	2200	4000	7880	10800	5780
Nitrate as N (NO3-N)	mg/L	--	0.10 U	0.10 U,M1	na	0.10 U	0.10 U, P2	0.10 U	0.10 U	0.1	0.040 B	0.100 U	0.100 U	0.100 U
Nitrite as N (NO2-N)	mg/L	--	0.100 U	0.100 U	na	0.100 U	0.100 U	0.100 U	0.020 U	0.020 U	0.020 U	0.100 U	0.100 U	0.100 U
Nitrogen, Total Kjeldahl as N	mg/L	--	43.5	39.4 M1	na	37.1	88.9	48.5 M1	130	130	130	108	169	184
Phosphate, Ortho as P	mg/L	--	0.100 U	0.100 U	na	0.100 U	0.100 U	<0.100 M1	0.044 B	0.050 U	0.022 B	0.100 U	0.100 U	0.100 U
Sulfate	mg/L	--	357	288	na	388	308	400 M1	20	80	50	30.2	13.8	198
Sulfide	mg/L	--	2.00 U	2.00 U pH<12	na	2.00 U, pH<12	2.00 U, pH<12	2.00 U, pH<12	87	7.5	11	2.4	5.5 pH <12	2.0 U
Total Organic Carbon	mg/L	--	18.7 ET	12.4 ET	na	7.18 ET	2.84	5.2 ET	35	38	35	28	28.9 ET	30.3 ET
Benzene	µg/L	5	43 FM	27.1	na	31.5	1.00 U	1.88	810	880	870	838	558	1220
Toluene	µg/L	2,000	5.1 FM	1.00 U	na	1.8	1.00 U	1.00 U	87	120	33	24.4	22.3	159
Ethylbenzene	µg/L	700	8.1 FM	4.91	na	11.1	2.72	1.00 U	820	730	820	835	582	785
Xylenes	µg/L	10,000	15.0 U FM	8.00 U	na	9.87	12.6	3.00 U	840	800	340	253	222	584 MHA
Acenaphthene	µg/L	--	0.135 J	5.29	3.8	0.184 J	4.89 RL1	3.04	890	88	110	170	228	143
Acenaphthylene	µg/L	--	0.0870 U	13.8	18.1	0.0870 U	10.5 RL1	9.48	4300	1300	1400	48.4	0.0850 U	0.0850 U
Anthracene	µg/L	--	0.0278 J	0.0100 U	0.0100 U	0.0100 U	0.108 RL1, J	0.0802 J	290	20	20	52.2	54.8	19.4
Benzo(a)anthracene	µg/L	0.1	0.0508 J	0.00500 U	0.00500 U	0.00500 U	0.0400 U, RL1	0.0200 U	180	8.3	9.8	21.9	22.9	8.0
Benzo(a)pyrene	µg/L	0.2	0.0888 J	0.00800 U	0.00800 U	0.00800 U	0.0180 U, RL1	0.00800 U	110	5.2	5.8	22	20.9	9.38
Benzo(b)fluoranthene	µg/L	0.2	0.0838 J	0.0280 U	0.0280 U	0.0280 U	0.0580 U, RL1	0.0280 U	55	2.7	3.1	17.8	18.8	5.74
Benzo(g,h,i)perylene	µg/L	--	0.085 J	0.00800 U	0.00800 U	0.00800 U	0.0180 U, RL1	0.00800 U	37	1.8 Ja	2.1	8.07	7.98	8.81
Benzo(k)fluoranthene	µg/L	0.2	0.0588 J	0.00700 U	0.00700 U	0.00700 U	0.0140 U, RL1	0.00700 U	35	1.1	1.3	7.07	7.24	2.83
Chrysene	µg/L	0.2	0.0745 J	0.00800 U	0.00800 U	0.00800 U	0.0204 RL1, J	0.00800 U	120	5.5	8.2	24.8	18.8	8.74
Dibenzo(a,h)anthracene	µg/L	0.2	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0200 U, RL1	0.0100 U	20	0.87 Ja	0.88 Ja*	1.95	1.73	1.07
Fluoranthene	µg/L	--	0.0732 J	0.0100 U	0.0100 U	0.0100 U	0.0318 RL1, J	0.0100 U	810	42	44	75.2	108	29.1
Fluorene	µg/L	--	0.0579 J	1.52	1.81	0.0160 U	0.0320 U, RL1	1.43	350	35	34	149	149	142
Indeno(1,2,3cd)pyrene	µg/L	0.4	0.0771 J	0.00800 U	0.00800 U	0.00800 U	0.0120 U, RL1	0.00800 U	47	2.2	2.7	9.41	10	5.07
Naphthalene	µg/L	100	0.151	R	15	0.0480 U	0.831 RL1	0.0480 U	4800	1200	800	583	712 B	854
Phenanthrene	µg/L	--	0.0784 J	0.00500 U	0.155	0.00500 U	0.0887 RL1, J	0.178	1200	74	77	170	181	86.3
Pyrene	µg/L	--	0.107 J	0.0170 U	0.0170 U	0.0335 J	0.0340 U, RL1	0.0170 U	450	21	24	317	320	27
TPH as Gasoline	mg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Diesel	µg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Gasoline	µg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Motor Oil	µg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Total Extractable Hydrocarbons	µg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
BOD - 5 Day	mg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Chemical Oxygen Demand	mg/L	--	na	na	na	na	na	na	na	na	na	na	na	na
Phosphorous, Total	mg/L	--	na	na	na	na	na	na	na	na	na	na	na	na

GROUNDWATER ANALYTICAL RESULTS
MIDAMERICAN ENERGY COMPANY
PEOPLES NATURAL GAS SITE
DUBUQUE, IOWA

Sample Location:			D-6	D-6	D-6	D-6	D-6	D-6	D-6	SS-6
Screened Unit:			Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
Depth BTOC (feet):			37.0	37.0	37.0	37.0	37.0	37.0	37.0	33.4
Sample Date:			06-May-08	15-Sep-09	31-Mar-10	06-May-10	16-Sep-10	26-Apr-11	20-Sep-11	20-Sep-11
Remediation										
Analyte	Units	Goal								
Alkalinity, Total as CaCO3	mg/L	—	1840	1720	1630	na	1680	1420	1190	588
Ammonia(NH3+NH4),as N	mg/L	—	204	210	194	na	199	198	118	21.6
Chloride	mg/L	—	na	na	na	na	1640	na	na	
Iron, Total	mg/L	—	15.4	44.7	30	na	29.1 pH>2	59	90.2	48.2
Iron, Dissolved	mg/L	—	15.2	22.7 pH>2	23.7	na	21.2	57.2	70.3	42.5
Manganese, Total	mg/L	—	9.82	8.9	5.53	na	6.74 pH>2	8.17	5.14	14.2
Manganese, Dissolved	mg/L	—	7.56	8.22 pH >2	6.25	na	8.08	8.17	4.89	13.7
Methane	µg/L	—	2390	12500	11500	na	8740	4200	7380	615
Nitrate as N (NO3-N)	mg/L	—	0.10 U	0.10 U	0.10 U	na	0.10 U	0.10 U, P2	0.10 U	0.10 U
Nitrite as N (NO2-N)	mg/L	—	0.100 U	0.100 U	0.100 U	na	0.100 U	0.100 U	0.100 U	0.100 U
Nitrogen, Total Kjeldahl as N	mg/L	—	188	205	193	na	180	203	113	21.4
Phosphate, Ortho as P	mg/L	—	0.100 U	0.100 U	0.100 U	na	0.199	0.100 U	0.100 U	0.100 U
Sulfate	mg/L	—	122	222	63	na	147	4.25	7.75	145
Sulfide	mg/L	—	2.0 U	3.84	2.0 U pH <12	na	2.00 U,pH<12	2.00 U, pH<12	2.00 U, pH<12	2.00 U, pH<12
Total Organic Carbon	mg/L	—	32.6 ET	39.3 ET	36.2 ET	na	21.4 ET	8.14 ET	13.1 ET	7.29 ET
Benzene	µg/L	5	1030	988	1470	na	1060	859	1800	7.93
Toluene	µg/L	2,000	25.8	49.2	49.6	na	44.8	39.5	219	1.00 U
Ethylbenzene	µg/L	700	948	870	882 C9	na	737	424	709	1.82
Xylenes	µg/L	10,000	253	1140	345 C9	na	358	230	713	3.00 U
Acenaphthene	µg/L	—	194	213	188	148	3.87	151	228	1.98
Acenaphthylene	µg/L	—	0.0850 U	4.35 U	1.35 U	1.74 U	13.9	0.0870 U	225	0.0870 U
Anthracene	µg/L	—	37.9	33.6	29.7	14.8	0.0854 J	22.1	48.5	0.0288 J
Benzo(a)anthracene	ug/L	0.1	16.5	13.4	14.5	4.83	0.00500 U	8.6	15.8	0.0200 U
Benzo(a)pyrene	µg/L	0.2	18.2	12.4	13.4	4.9	0.00800 U	8.8	13.8	0.00800 U
Benzo(b)fluoranthene	µg/L	0.2	12.8	7.56	0.0433 U	0.0280 U	0.0280 U	4.88	13	0.0280 U
Benzo(g,h,i)perylene	µg/L	—	10	7.3	0.0124 U	2.38	0.00800 U	4.08	7.28	0.00800 U
Benzo(k)fluoranthene	µg/L	0.2	8.44	4.54	0.0108 U	0.00700 U	0.00700 U	2.31	3.32	0.00700 U
Chrysene	µg/L	0.2	17.7	10.1	0.124 U	2.47	0.00800 U	11.3	16.2	0.00800 U
Dibenzo(a,h)anthracene	µg/L	0.2	1.95	1.56	0.140 J	0.0100 U	0.0100 U	0.338	1.15	0.0100 U
Fluoranthene	µg/L	—	73.4	58.4	42.2	18	0.0100 U	20.1	81.1	0.0100 U
Fluorene	µg/L	—	207	207	103	86.8	2.41	42.7	140	0.0160 U
Indeno(1,2,3cd)pyrene	µg/L	0.4	9.59	6.91	0.00928 U	1.98	0.00600 U	3.95	7.31	0.00600 U
Naphthalene	µg/L	100	591	659	R	816	10.2	538	2610 B	2.53 B
Phenanthrene	µg/L	—	158	153	120	53.2	0.228	71.2	163	0.00500 U
Pyrene	µg/L	—	52.6	43.8	0.0283 U	2.95	0.0170 U	1.82	50.3	0.0234 J
TPH as Gasoline	mg/L	—	na	na	10	na	na	na	na	na
Diesel	µg/L	—	na	na	15900 N1,Q	na	na	na	na	na
Gasoline	µg/L	—	na	na	22800 B,N1,Q	na	na	na	na	na
Motor Oil	µg/L	—	na	na	2480 N1,Q	na	na	na	na	na
Total Extractable Hydrocarbons	µg/L	—	na	na	41300	na	na	na	na	na
BOD - 5 Day	mg/L	—	na	na	30.3	na	na	na	na	na
Chemical Oxygen Demand	mg/L	—	na	na	102 M1	na	na	na	na	na
Phosphorous, Total	mg/L	—	na	na	102 M1	na	na	na	na	na

ATTACHMENT B



MWH

**MWH****Drilling Log**Monitoring Well **SE-3**

Page: 1 of 2

Project Peoples Natural Gas Site Client MidAmerican Energy Company
 Location Dubuque, Iowa Project Number 1011180.0107
 Surface Elev. 609.30 ft North 4708575.60 East 692448.50
 Top of Casing 611.46 ft Water Level Initial 0 NA Static 593.13
 Hole Depth 38.0 ft Screen: Diameter 6 in Length 6.5 ft Type/Size PVC/0.01 in
 Hole Diameter 12.0 in Casing: Diameter 6 in Length 33.0 ft Type Sch 80 PVC
 Drill Co. Cahoy Pump Service, Inc. Drilling Method Hollow Stem Auger Sand Pack 20-40 Silica Sand
 Driller Dennis Auld Driller Reg. # NA Log By T. Wineland
 Start Date 10/17/2011 Completion Date 10/18/2011 Checked By N. Day

COMMENTS

Core samples collected with 2' split-spoon ahead of 4.25" ID hollow-stem augers prior to "blind" advance of 8.25" ID hollow-stem augers for well construction.

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0					ML	Silty loam, dark brown, moist, firm, medium plasticity, no odor.		609.30
0.2	100%							608
2	100%					Fine to medium sand, light brown grading to rusty brown below 2.5' bgs, loose, dry, no odor. Very thin (<0.1') clay seems at 4.4, 4.9, 5.0, 6.5, 8.3, and 8.7' bgs (silt clay, dark brown, moist, high plasticity).		606
4	100%					Grades from light brown/rusty brown to dark gray at 16.4' bgs and becomes water saturated.		604
6	100%							602
8	100%							600
10	100%				SW			598
12	100%							596
14	100%							594
16	100%							592
18	100%							590
20	100%					Silty clay, dark gray, moist, moderate plasticity, stiff, noticeable gas plant-type odor starting at approximately 21' bgs. Very thin (<0.025') sand seam at 25.2' bgs and 0.025' thick sections of wood at 28.6 and 28.7' bgs.		588
22	100%				CL			586
24	100%							

Continued Next Page



MWH

Drilling Log

Monitoring Well

SE-3

Page: 2 of 2

Project Peoples Natural Gas Site

Client MidAmerican Energy Company

Location Dubuque, Iowa

Project Number 1011180.0107

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
24	0.2	100%				Continued		584
26	0	100%			CL			582
28	0.4	100%						580
30	3.1	100%				Medium to coarse sand with trace silt, dark gray, loose, wet, slight gas plant-type odor. 0.025' thick clay seem at 32.6' bgs. Coarse sand beds at 34.8-34.9' and 35.6-35.7' bgs and clay bed at 34.9-35.1' bgs.		578
32	3.4	100%			SM			576
34	5.1	100%						574
36	2.7	100%			CL	Clayey silt, brown, low plasticity, medium stiff, no noticeable odor.		572
38						End of boring = 38'.		570
40								568
42								566
44								564
46								562
48								560
50								558
52								556
54								554
56								

Drilling Log WELLLO-1.GPJ MWH I.A.GDT 1/8/12



MWH

Drilling Log

Monitoring Well TP-101

Page: 1 of 2

Project Peoples Natural Gas Site Client MidAmerican Energy Company
 Location Dubuque, Iowa Project Number 1011180.0106
 Surface Elev. 609.76 ft North 4708579.20 East 692454.40
 Top of Casing 609.54 ft Water Level Initial ☒ NA Static ☒ NA
 Hole Depth 37.0 ft Screen: Diameter 1.4 in Length 5.0 ft Type/Size Sch 40 PVC/10 slot
 Hole Diameter 8.0 in Casing: Diameter 1.4 in Length 31.0 ft Type Sch 40 PVC
 Drill Co. Thiele Geotech Drilling Method Hollow-Stem Auger Sand Pack FilterSil Industrial Qtz 12/20
 Driller Cory Bachman Driller Reg. # 8505 Log By T. Wineland
 Start Date 7/28/2011 Completion Date 7/28/2011 Checked By N. Day

COMMENTS

5 foot length of pre-packed screen, additional sand pack added to borehole annular space.

☒ Bentonite Grout ☒ Bentonite Granules ☒ Grout ☒ Portland Cement ☒ Sand Pack ☒ Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0						See CPT log for TP-101 for lithology.		609.76
2								608
4								606
6								604
8								602
10								600
12								598
14								596
16								594
18								592
20								590
22								588
24								586

Continued Next Page

Drilling Log WELLO-1.GPJ MWH I.A.GDT 8/19/11


MWH
Drilling Log
Monitoring Well TP-101

Page: 2 of 2

 Project Peoples Natural Gas Site

 Client MidAmerican Energy Company

 Location Dubuque, Iowa

 Project Number 1011180.0106

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
24						Continued		
26								584
28								582
30								580
32								578
34								576
36								574
38						End of boring = 37'.		572
40								570
42								568
44								566
46								564
48								562
50								560
52								558
54								556
56								554


MWH
Drilling Log
Monitoring Well TP-102

Page: 1 of 2

Project Peoples Natural Gas Site Client MidAmerican Energy Company
 Location Dubuque, Iowa Project Number 1011180.0106
 Surface Elev. 609.64 ft North 4708576.30 East 692453.80
 Top of Casing 609.26 ft Water Level Initial NA Static NA
 Hole Depth 37.5 ft Screen: Diameter 1.4 in Length 5.0 ft Type/Size Sch 40 PVC/10 slot
 Hole Diameter 8.0 in Casing: Diameter 1.4 in Length 30.8 ft Type Sch 40 PVC
 Drill Co. Thiele Geotech Drilling Method Hollow-Stem Auger Sand Pack FilterSil Industrial Qtz 12/20
 Driller Cory Bachman Driller Reg. # 8505 Log By T. Wineland
 Start Date 7/28/2011 Completion Date 7/28/2011 Checked By N. Day

COMMENTS

5 foot length of pre-packed screen, additional sand pack added to borehole annular space.

☒ Bentonite Grout ☒ Bentonite Granules ☒ Grout ☒ Portland Cement ☒ Sand Pack ☒ Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
0						See CPT log for TP-102 for lithology.		609.64
2								608
4								606
6								604
8								602
10								600
12								598
14								596
16								594
18								592
20								590
22								588
24								586

Continued Next Page



MWH

Drilling Log

Monitoring Well

TP-102

Page: 2 of 2

Project Peoples Natural Gas Site

Client MidAmerican Energy Company

Location Dubuque, Iowa

Project Number 1011180.0106

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion	Elevation (ft)
24						Continued		
26								584
28								582
30								580
32								578
34								576
36								574
38						End of boring = 37.5'		572
40								570
42								568
44								566
46								564
48								562
50								560
52								558
54								556
56								554

Drilling Log WELLO-1.GPJ MWH I.A.GDT 8/18/11



MWH

Drilling Log

Soil Boring **DP-4**

Page: 1 of 2

Project Peoples Natural Gas Site Client MidAmerican Energy Company
 Location Dubuque, Iowa Project Number 1011180.0106
 Surface Elev. 609.81 ft North 4708545.60 East 692445.20
 Top of Casing NA Water Level Initial NA Static NA
 Hole Depth 45.0 ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter NA Casing: Diameter NA Length NA Type NA
 Drill Co. Theile Geotech, Inc. Drilling Method Direct Push (Geoprobe) Sand Pack NA
 Driller Cory Bachman Driller Reg. # 8505 Log By T. Wineland
 Start Date 7/26/2011 Completion Date 7/26/2011 Checked By N. Day

☒ Bentonite Grout
 ☒ Bentonite Granules
 ☐ Grout
 ☐ Portland Cement
 ☐ Sand Pack
 ☐ Sand Pack

COMMENTS

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Elevation (ft)
0							609.81
1.9		88%			SP	SAND, light brown, moist, medium grained.	
2					CL	Silty CLAY, light brown, moist, soft, medium plasticity.	608
4					SP	SAND, light brown, moist, fine grained.	606
6		78%				SAND, light grey, moist, medium grained, with dark brown silty clay (moist, high plasticity, medium stiff) at 6.8-7.0' (CH).	604
8					SP		602
10						SILT, grey, wet, slight plasticity, stiff, with numerous thin silty sand/sandy clay layers.	600
12		70%			ML		598
14						SAND, well graded, light brown, wet, medium to coarse sand, w/trace rounded gravel (igneous).	596
16		75%			SW		594
18						At 17.5', color change to dark grey.	592
20						Silty CLAY, dark grey, wet, low plasticity, soft.	590
22		84%			CL		588
24						At 22-23', color is black, no sheen, odor.	586

Continued Next Page

Drilling Log: WELLO-1.GPJ MWH I.A.GDT 8/19/11


MWH
Drilling Log

 Soil Boring **DP-4**

Page: 2 of 2

 Project Peoples Natural Gas Site

 Client MidAmerican Energy Company

 Location Dubuque, Iowa

 Project Number 1011180.0106

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Elevation (ft)
24	2.0					<i>Continued</i>	
26	1.8	100%					584
28	1.7						582
30					CL		580
32	2.5	100%					578
34	2.5						576
36	2.6	88%			SW	SAND, well graded, w/fines, dark grey, wet, fine to coarse grained, odor.	574
38							572
40	2.0				SP SC	Silty SAND, dark grey, wet, fine grained, no odor. Silty CLAY, light brown, moist, low plasticity, soft, grading to reddish brown color near bottom.	570
42	1.4	87%			CL		568
44	2.4				SP	SAND, grey, wet, fine to medium grained.	566
46						End of boring = 45'.	564
48							562
50							560
52							558
54							556
56							554

**MWH****Drilling Log**Soil Boring **DP-5**

Page: 1 of 2

Project Peoples Natural Gas Site Client MidAmerican Energy Company
 Location Dubuque, Iowa Project Number 1011180.0106
 Surface Elev. 609.74 ft North 4708596.40 East 692456.50
 Top of Casing NA Water Level Initial NA Static NA
 Hole Depth 42.5 ft Screen: Diameter NA Length NA Type/Size NA
 Hole Diameter NA Casing: Diameter NA Length NA Type NA
 Drill Co. Theile Geotech, Inc. Drilling Method Direct Push (Geoprobe) Sand Pack NA
 Driller Cory Bachman Driller Reg. # 8505 Log By T. Wineland
 Start Date 7/26/2011 Completion Date 7/26/2011 Checked By N. Day

COMMENTS

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Elevation (ft)
0					CL	Silty LOAM, light brown, moist to dry, low plasticity, stiff, w/vegetation.	609.74
2	1.6	83%			SW	SAND w/trace gravel, well graded, light brown to brown, fine to medium grained, dry to moist, with numerous thin silty clay layers.	608
4	2.1						606
6	0.9	77%			SW	SAND w/trace gravel, light brown to brown, dry to moist, fine to medium grained.	604
8	2.6						602
10	1.8	75%			SW		600
12	1.3						598
14	2.3	88%			SW	SAND w/trace gravel, well graded, light brown to brown, wet, fine to medium grained. At 12.5' and 13.5', silty clay layers (0.5").	596
16	2.3					At 16.5', color change to black, odor.	594
18	2.3				CL	Silty CLAY, black, moist, medium plasticity, medium stiff, odor.	592
20	4.8	100%					590
22							588
24							586

Continued Next Page

Drilling Log WELLLO-1.GPJ MWH I.A.GDT 8/19/11


MWH
Drilling Log

 Soil Boring **DP-5**

Page: 2 of 2

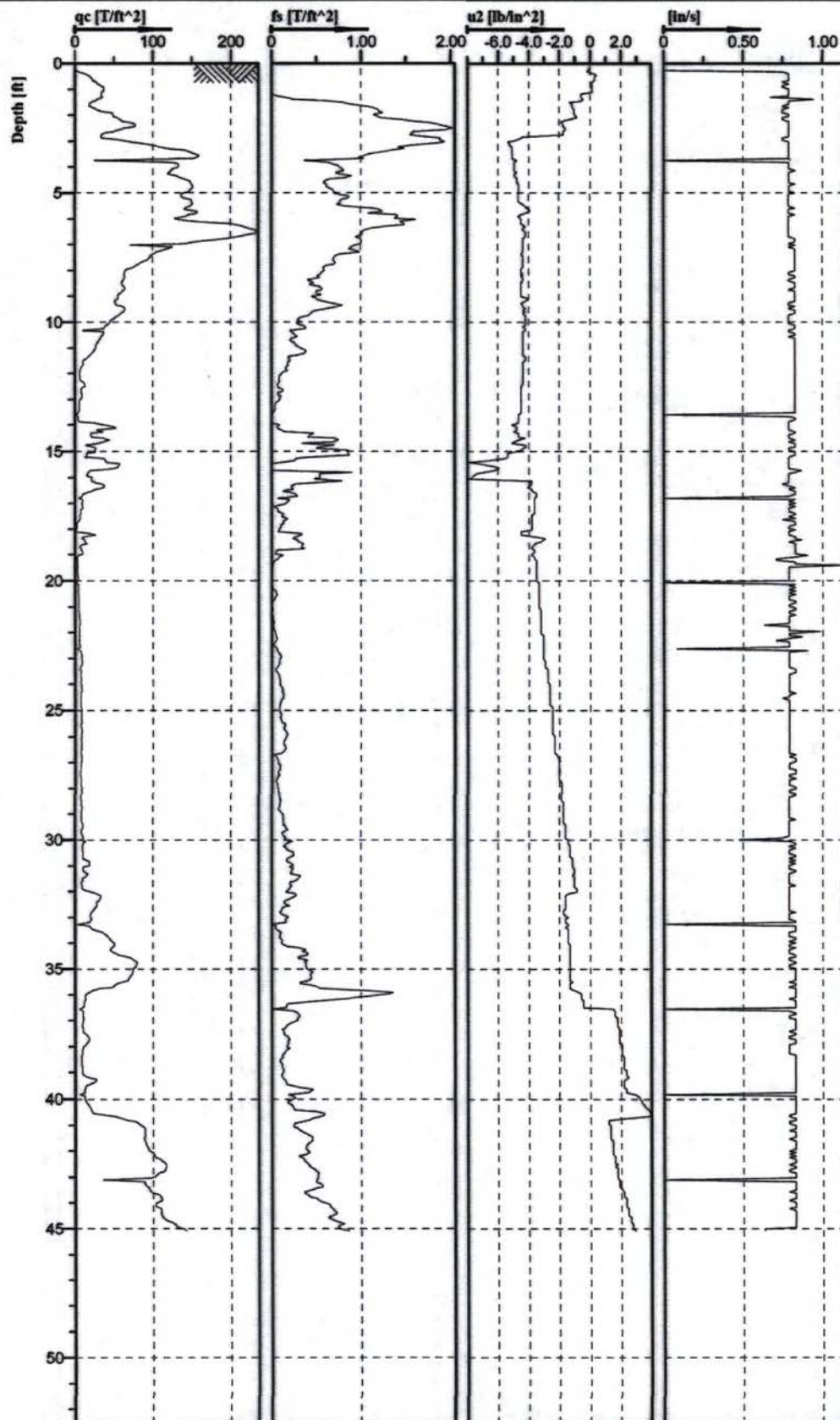
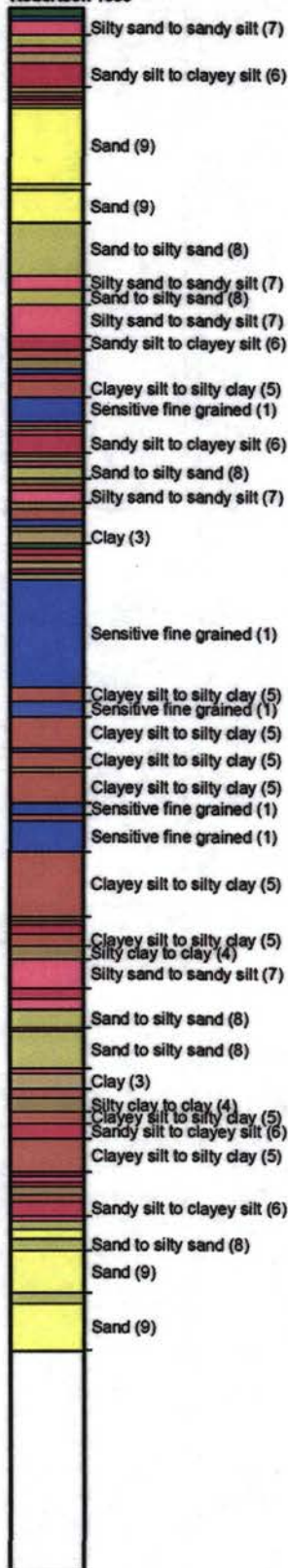
 Project Peoples Natural Gas Site

 Client MidAmerican Energy Company

 Location Dubuque, Iowa

 Project Number 1011180.0106

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Elevation (ft)
24	1.9					<i>Continued</i>	
26	1.9	95%			CL	SAND w/fines, dark grey, wet, fine to coarse grained, odor.	584
28	3.6						582
30	2.5	100%			SW		580
32	2.3	88%				Refusal at 32.5' (wood in drive shoe), offset 1.5' and resumed sample collection at 32.5'.	578
34	2.8						576
36	2.8				SM	Silty SAND, dark grey, wet, fine grained, odor.	574
38	1.6	88%			CL	Silty CLAY, dark grey, moist, very low plasticity, very soft, slight odor, grading to reddish brown near bottom.	572
40	2.9				SP	SAND, reddish brown, wet, fine to medium grained, grading to light brown at bottom.	570
42						End of boring = 42.5'.	568
44							566
46							564
48							562
50							560
52							558
54							556
56							554

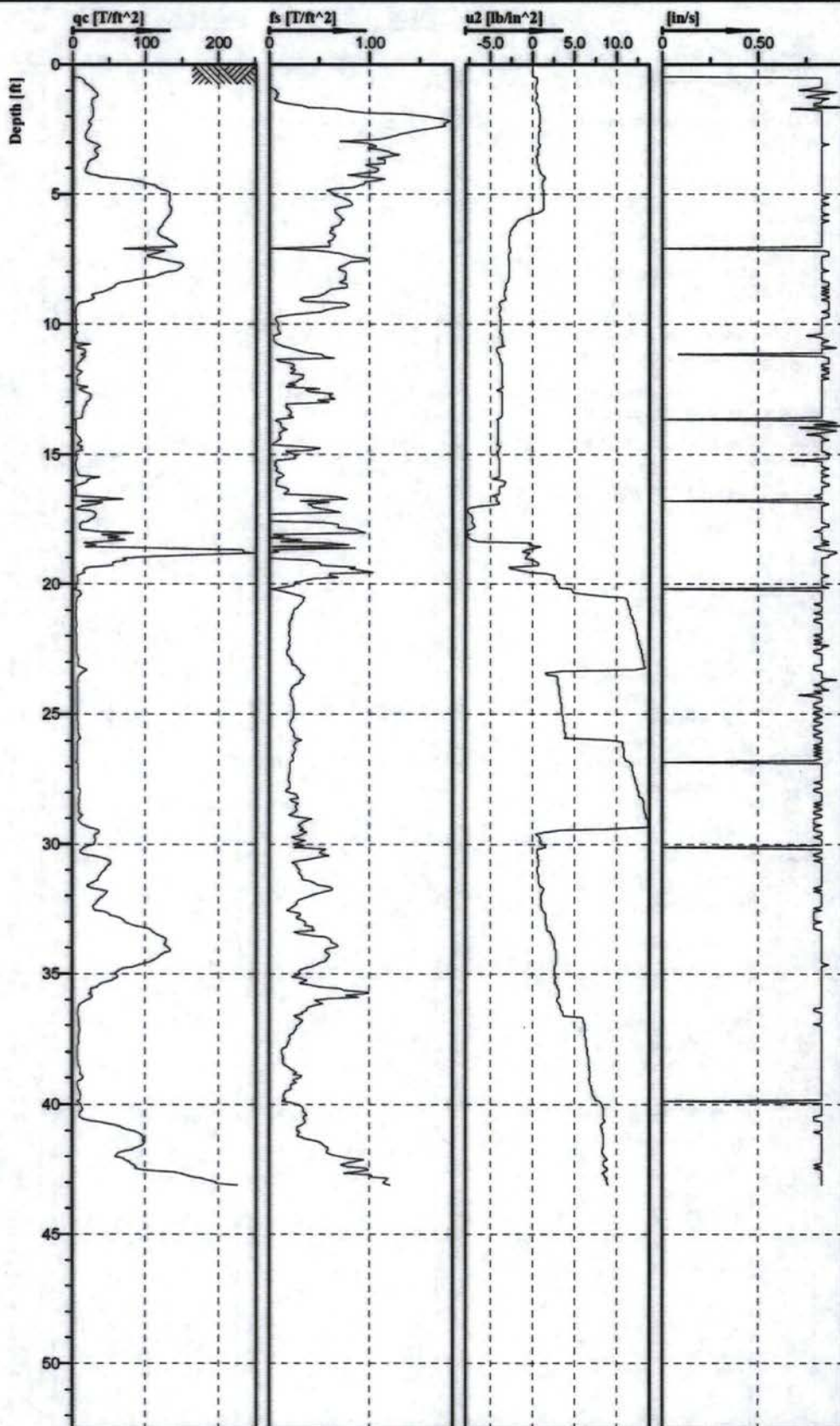
Classification by
Robertson 1986

Cone No: 3918
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	Dubuque, Iowa	Position:	X: 4708499.21 m, Y: 692426.12 m	Ground level:	609.02	Test no:	DP-1
Project ID:	11284.00	Client:	MWH Global	Date:	7/26/2011	Scale:	1 : 75
Project:	MEC Dubuque FMGP Sampling			Page:	1/1	Fig:	
				File:	1011180.0106-DP-1.cpt		

Classification by
Robertson 1986

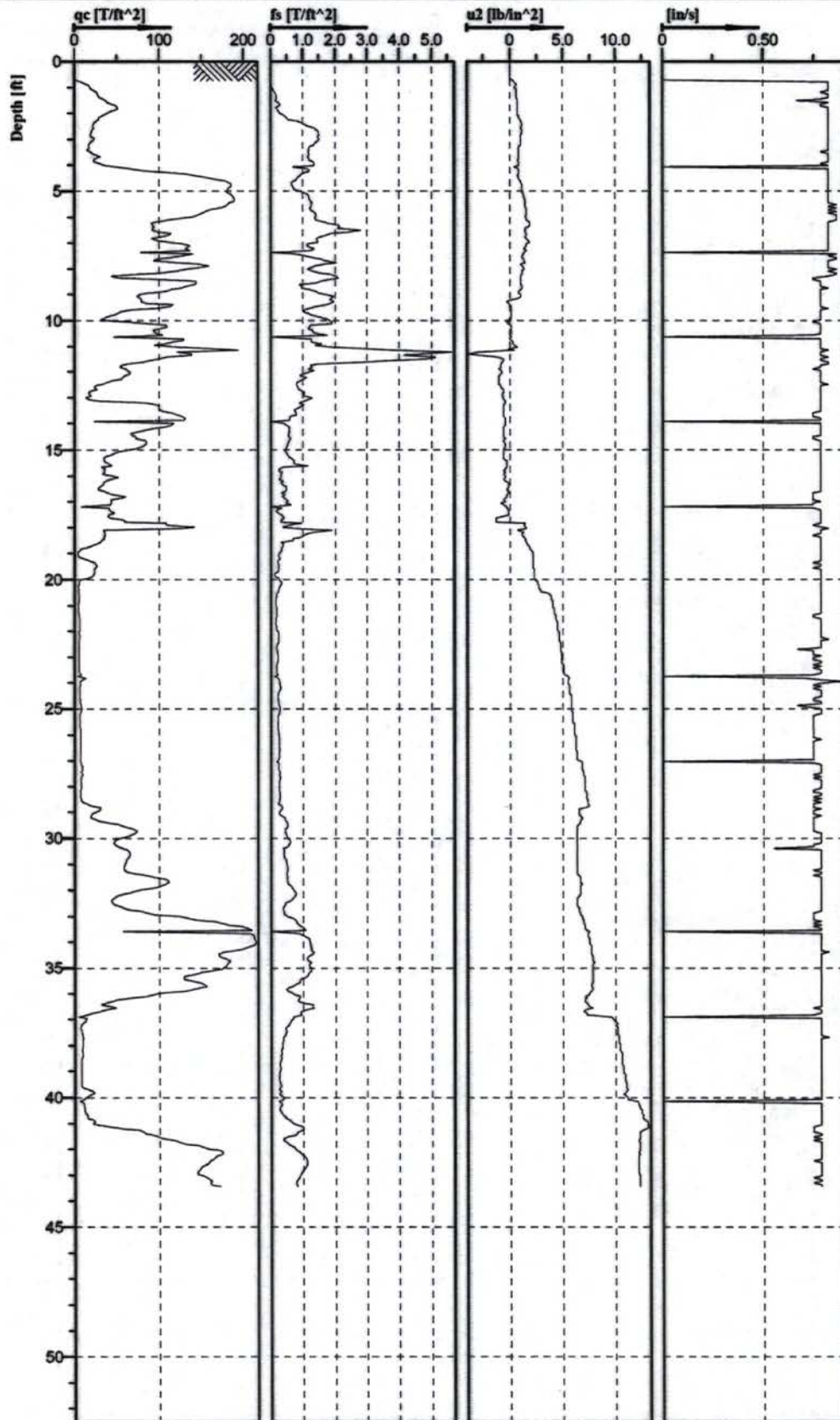
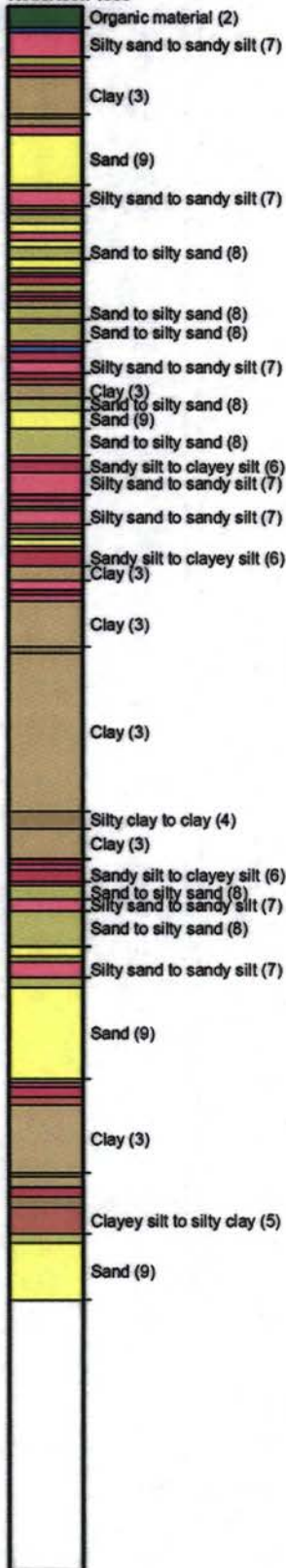
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Silty sand to sandy silt (7)
Clay (3)
Clayey silt to silty clay (5)
Clay (3)
Sand (9)
Sand (9)
Silty sand to sandy silt (7)
Sensitive fine grained (1)
Sensitive fine grained (1)
Sandy silt to clayey silt (6)
Clay (3)
Clayey silt to silty clay (5)
Sandy silt to clayey silt (6)
Clay (3)
Clay (3)
Sensitive fine grained (1)
Silty sand to sandy silt (7)
Clay (3)
Sand to silty sand (8)
Clay (3)
Clay (3)
Silty clay to clay (4)
Clay (3)
Clay (3)
Silty clay to clay (4)
Clay (3)
Silty clay to clay (4)
Silty clay to clay (4)
Silty sand to sandy silt (7)
Silty sand to sandy silt (7)
Silty sand to sandy silt (7)
Sand to silty sand (8)
Sand (9)
Sand to silty sand (8)
Clay (3)
Clayey silt to silty clay (5)
Clayey silt to silty clay (5)
Sand to silty sand (8)
Sand (9)
Sand to silty sand (8)
Sand (9)



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	Dubuque, Iowa	Position:	X: 4708509.0 m, Y: 692431.3 m	Ground level:	609.09	Test no:	DP-2
Project ID:	11284.00	Client:	MWH Global	Date:	7/27/2011	Scale:	1 : 75
Project:	MEC Dubuque FMGP Sampling			Page:	1/1	Fig:	
				File:	1011180.0106-DP-2.cpt		

Classification by
Robertson 1986

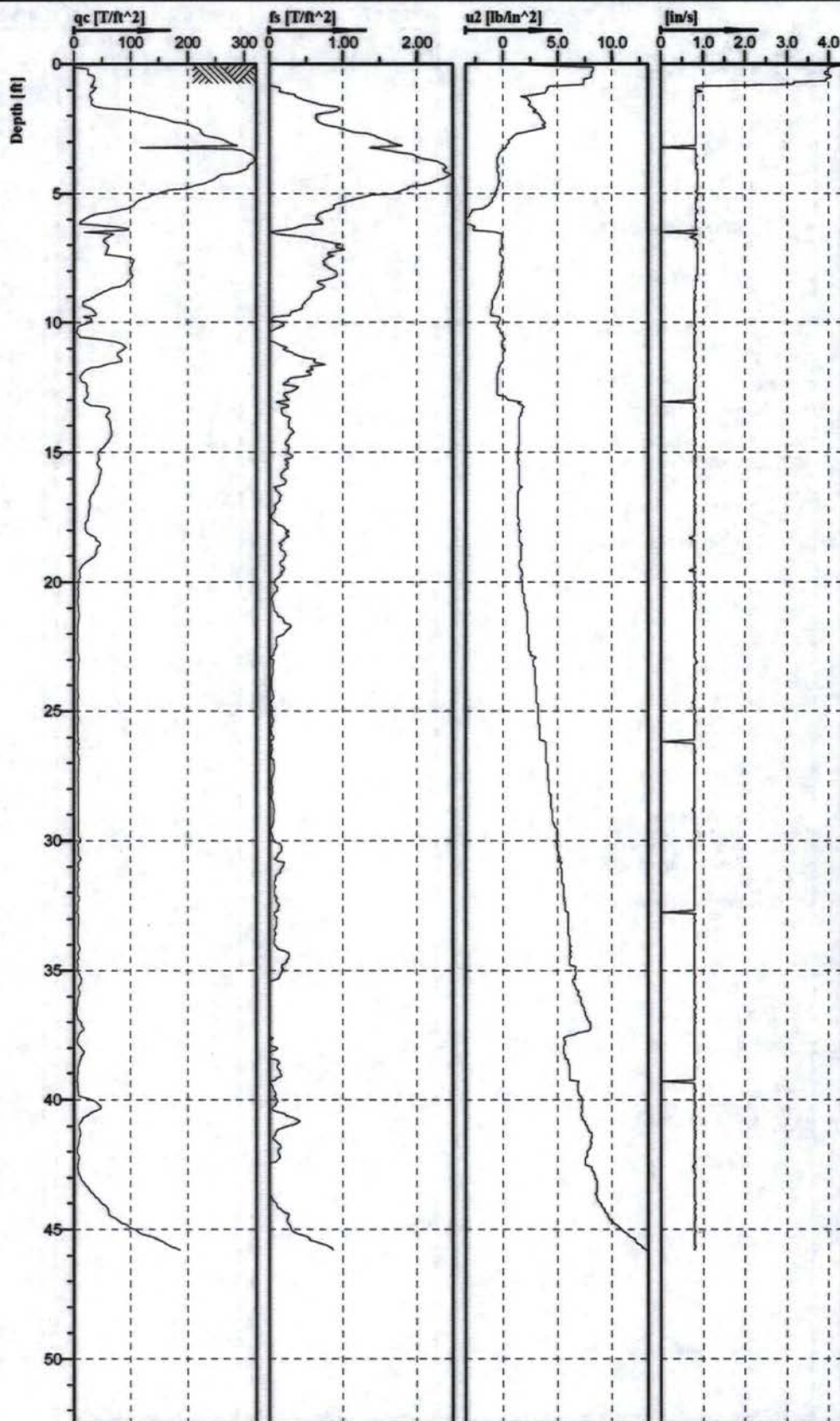


Cone No: 3918
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Dubuque, Iowa	Position:	X: 4708518.8 m, Y: 692436.9 m	Ground level:	609.15	Test no:	DP-3
Project ID:	11284.00	Client:	MWH Global	Date:	7/27/2011	Scale:	1 : 75
Project:	MEC Dubuque FMGP Sampling			Page:	1/1	Fig:	
				File:	1011180.0106-DP-3.cpt		

Classification by
Robertson 1986

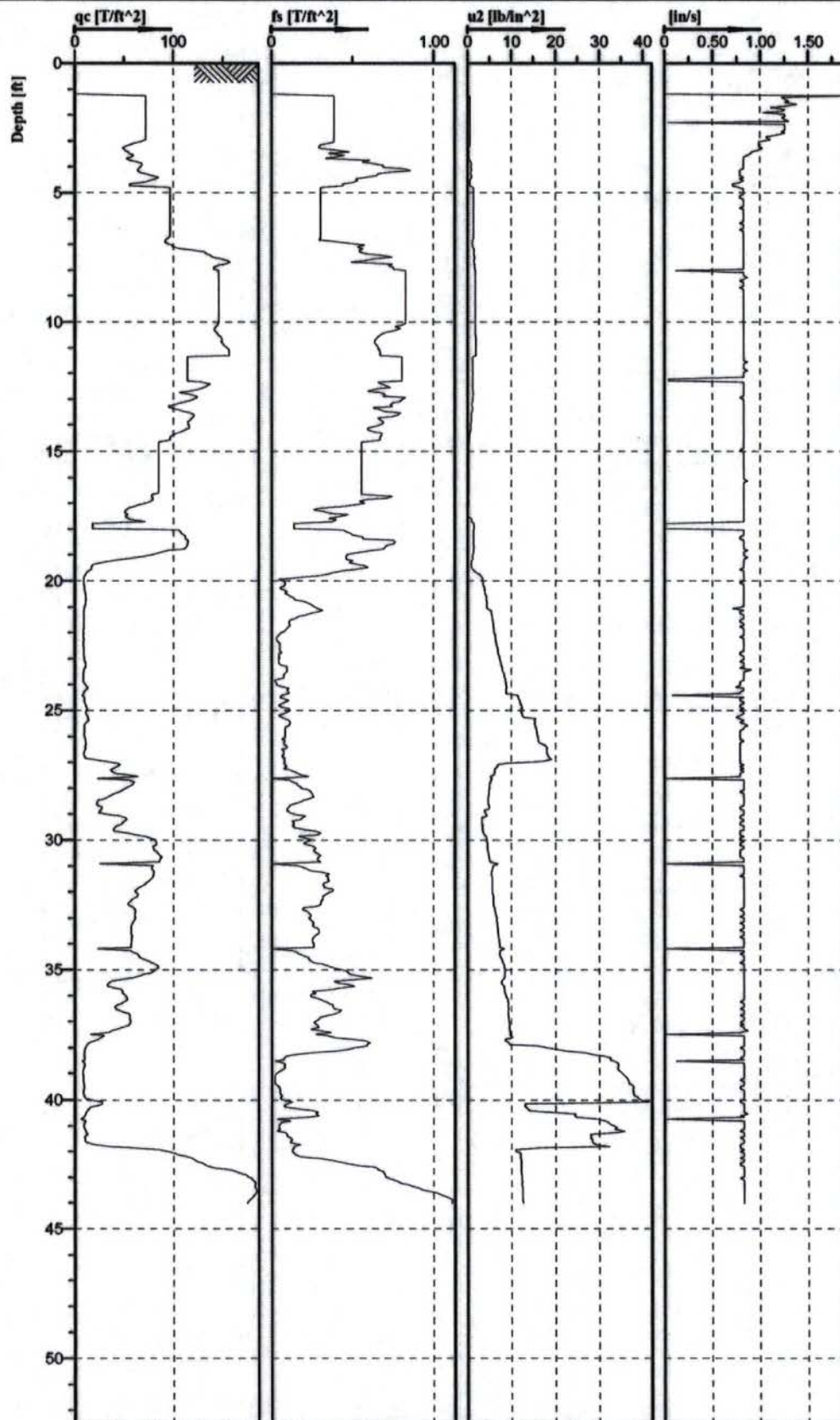
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Silty sand to sandy silt (7)
Sandy silt to clayey silt (6)
Sand (9)
Sand (9)
Sand to silty sand (8)
Silty sand to sandy silt (7)
Sand to silty sand (8)
Silty sand to sandy silt (7)
Sensitive fine grained (1)
Sand to silty sand (8)
Sand to silty sand (8)
Silty sand to sandy silt (7)
Silty sand to sandy silt (7)
Clayey silt to silty clay (5)
Sensitive fine grained (1)
Clay (3)
Sensitive fine grained (1)
Sensitive fine grained (1)
Clayey silt to silty clay (5)
Clayey silt to silty clay (5)
Sensitive fine grained (1)
Clay (3)
Silty clay to clay (4)
Sensitive fine grained (1)
Sensitive fine grained (1)
Clayey silt to silty clay (5)
Sensitive fine grained (1)
Sand to silty sand (8)
Sensitive fine grained (1)
Silty sand to sandy silt (7)
Sand to silty sand (8)
Sand (9)



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	Dubuque, Iowa	Position:	X: 4708545.6 m, Y: 692445.2 m	Ground level:	609.81	Test no:	DP-4
Project ID:	11284.00	Client:	MWH Global	Date:	7/26/2011	Scale:	1 : 75
Project:	MEC Dubuque FMGP Sampling			Page:	1/1	Fig:	
				File:	1011180.0106 - DP-4.cpt		

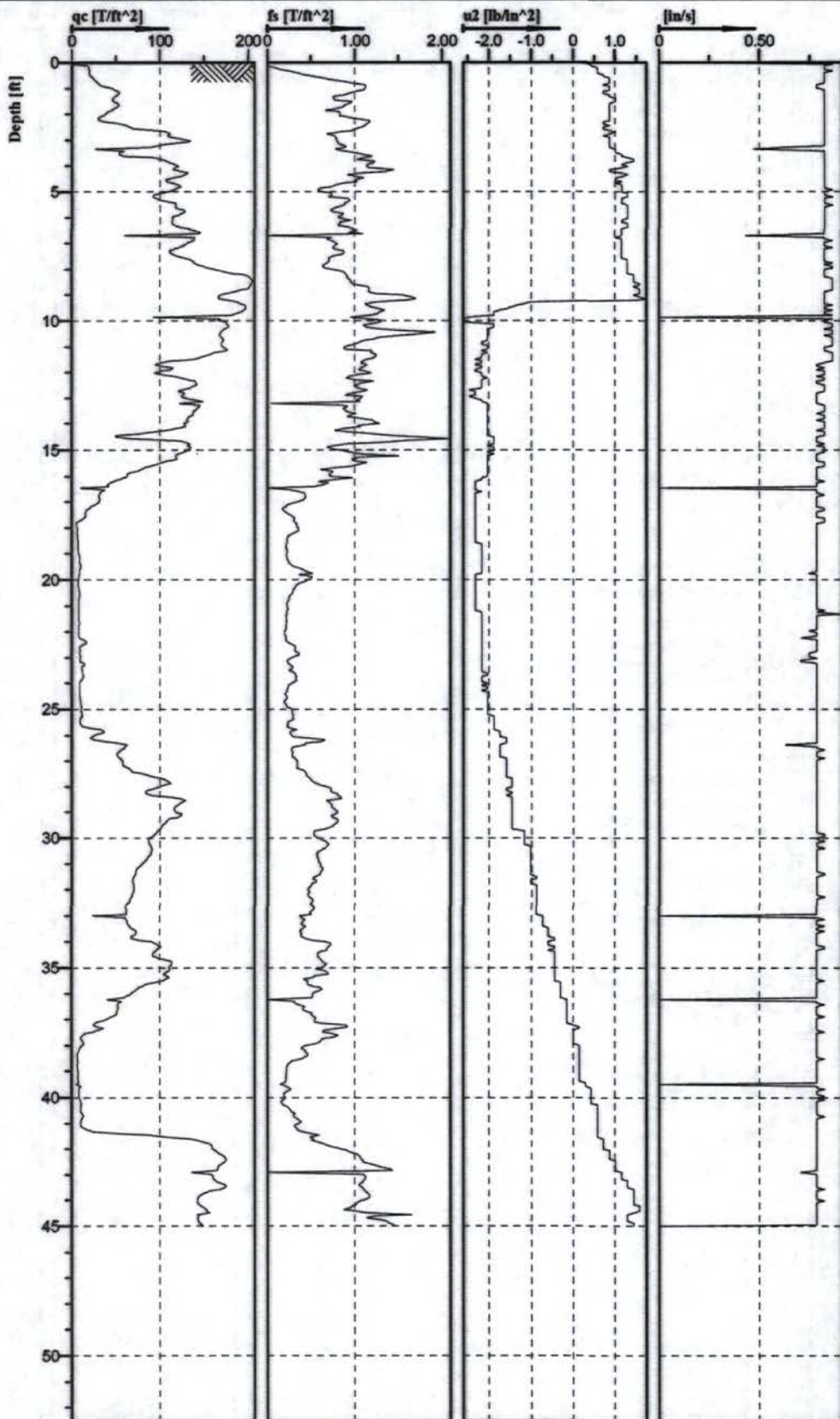
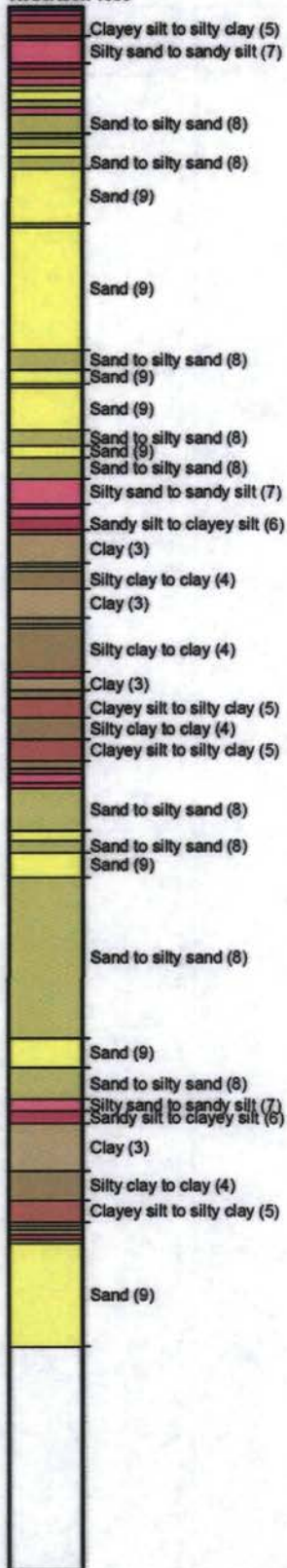
Classification by
Robertson 1986



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Dubuque, Iowa	Position: X: 4708596.4 m, Y: 692456.5 m	Ground level: 609.74	Test no: DP-5
Project ID: 11284.00	Client: MWH Global	Date: 7/26/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
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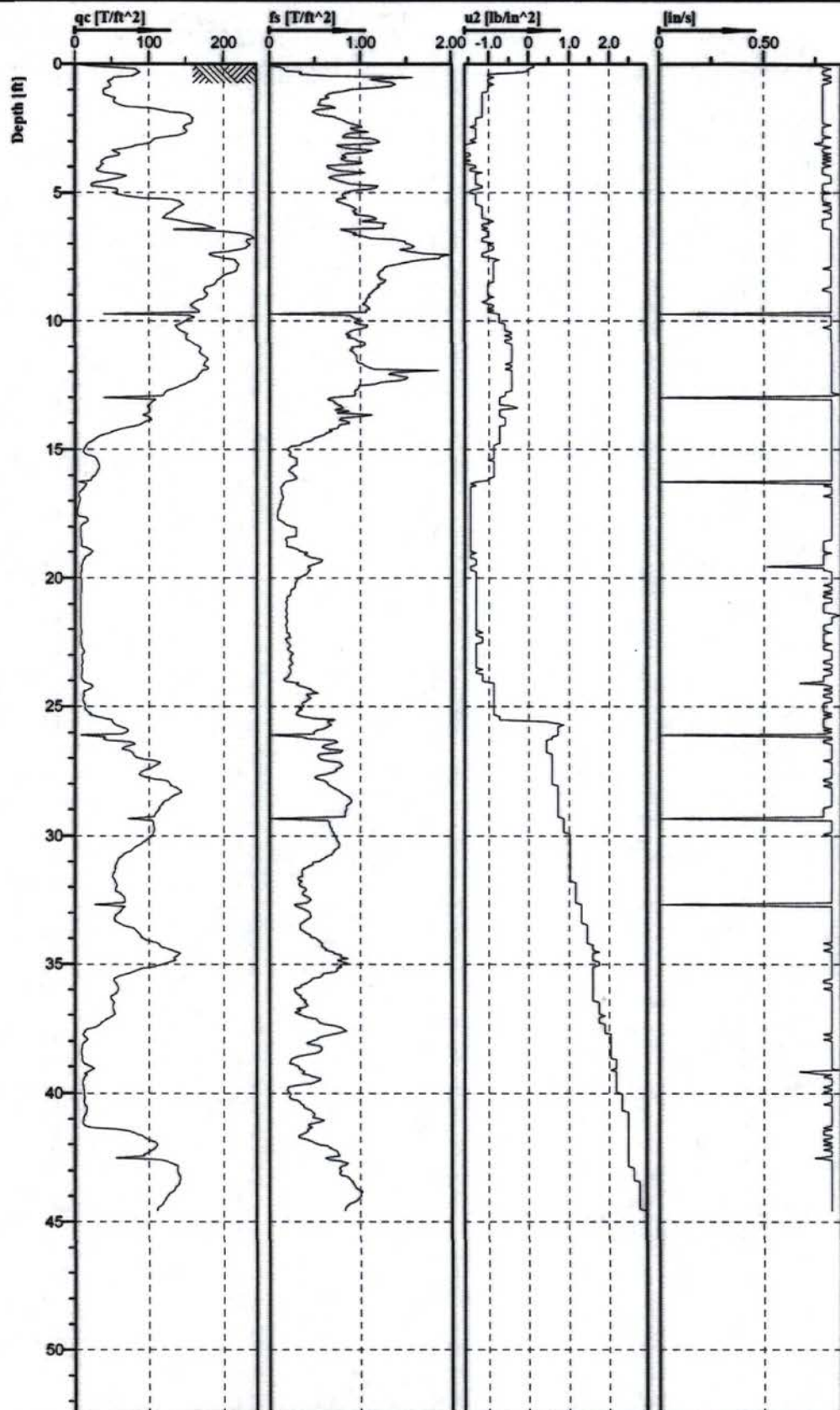
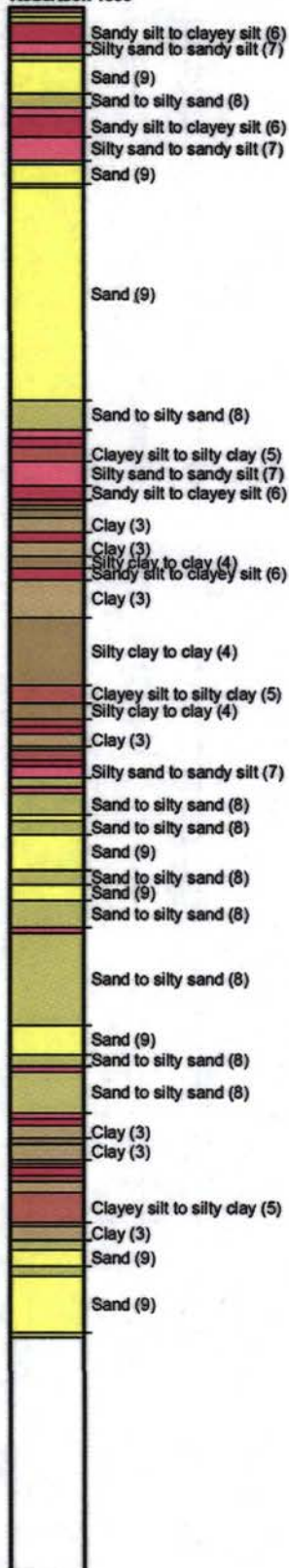
Classification by
Robertson 1986



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Dubuque, Iowa	Position: X: 4708613.0 m, Y: 692462.0 m	Ground level: 609.88	Test no: DP-6
Project ID: 11284.00	Client: MWH Global	Date: 7/27/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
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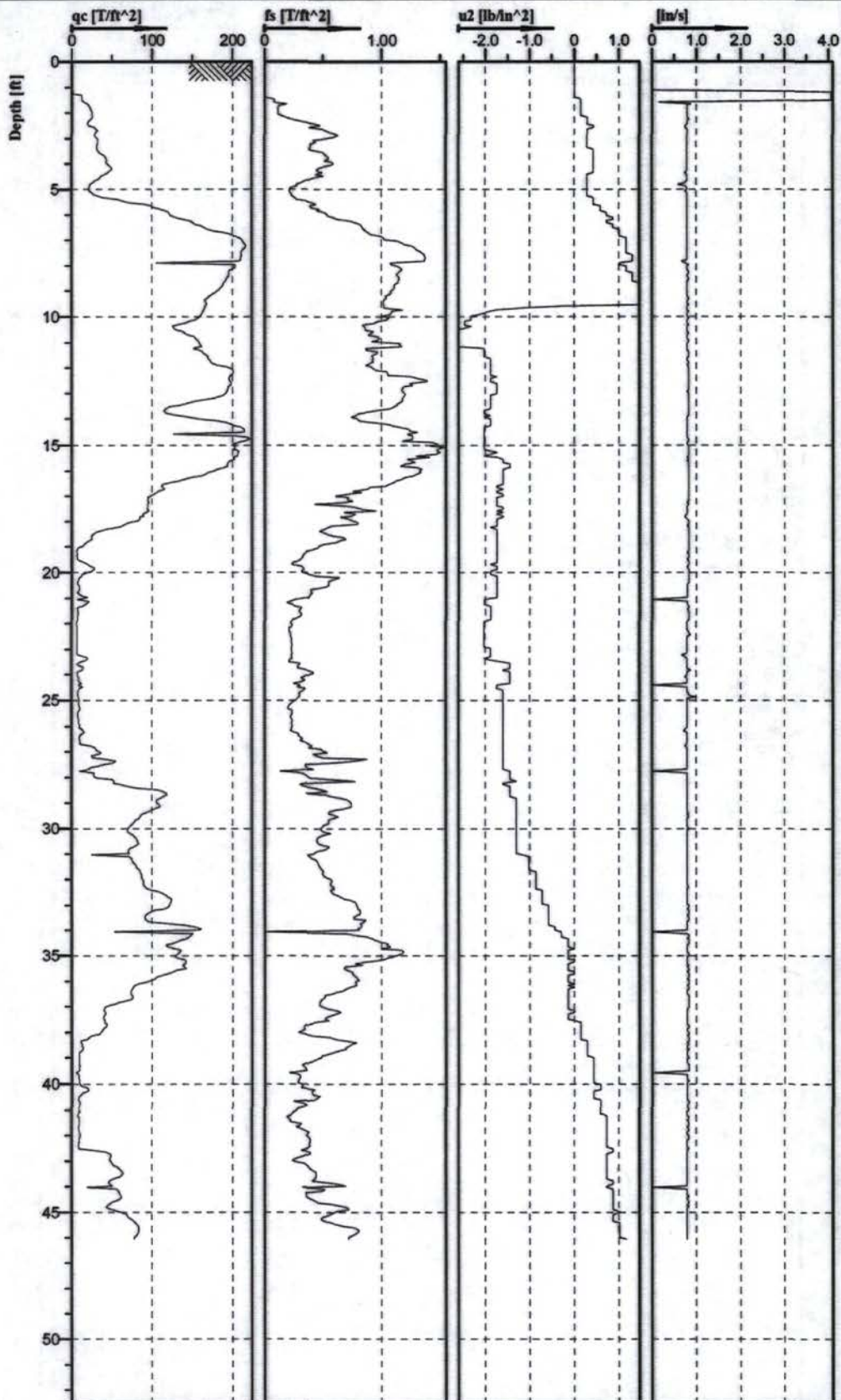
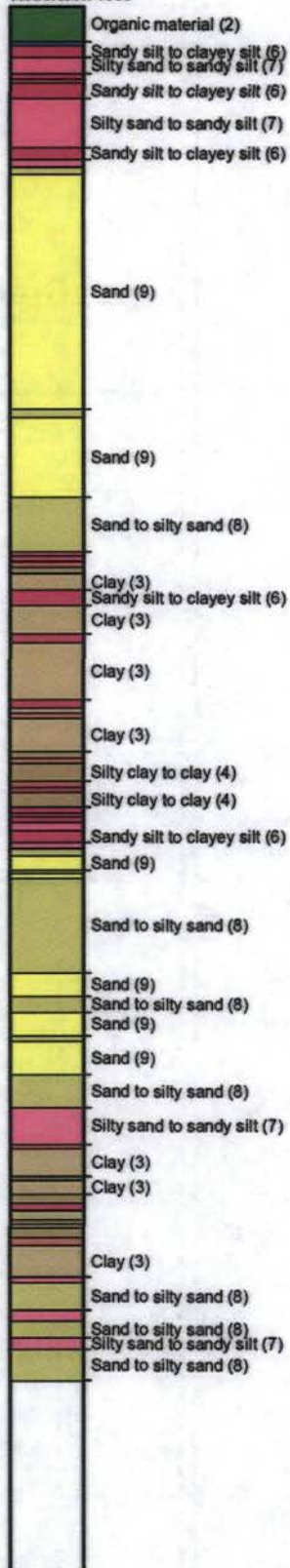
Classification by
Robertson 1986



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Dubuque, Iowa	Position: X: 4708625.3 m, Y: 692465.1 m	Ground level: 609.84	Test no: DP-7
Project ID: 11284.00	Client: MWH Global	Date: 7/27/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
		File: 1011180.0106-DP-7.cpt	

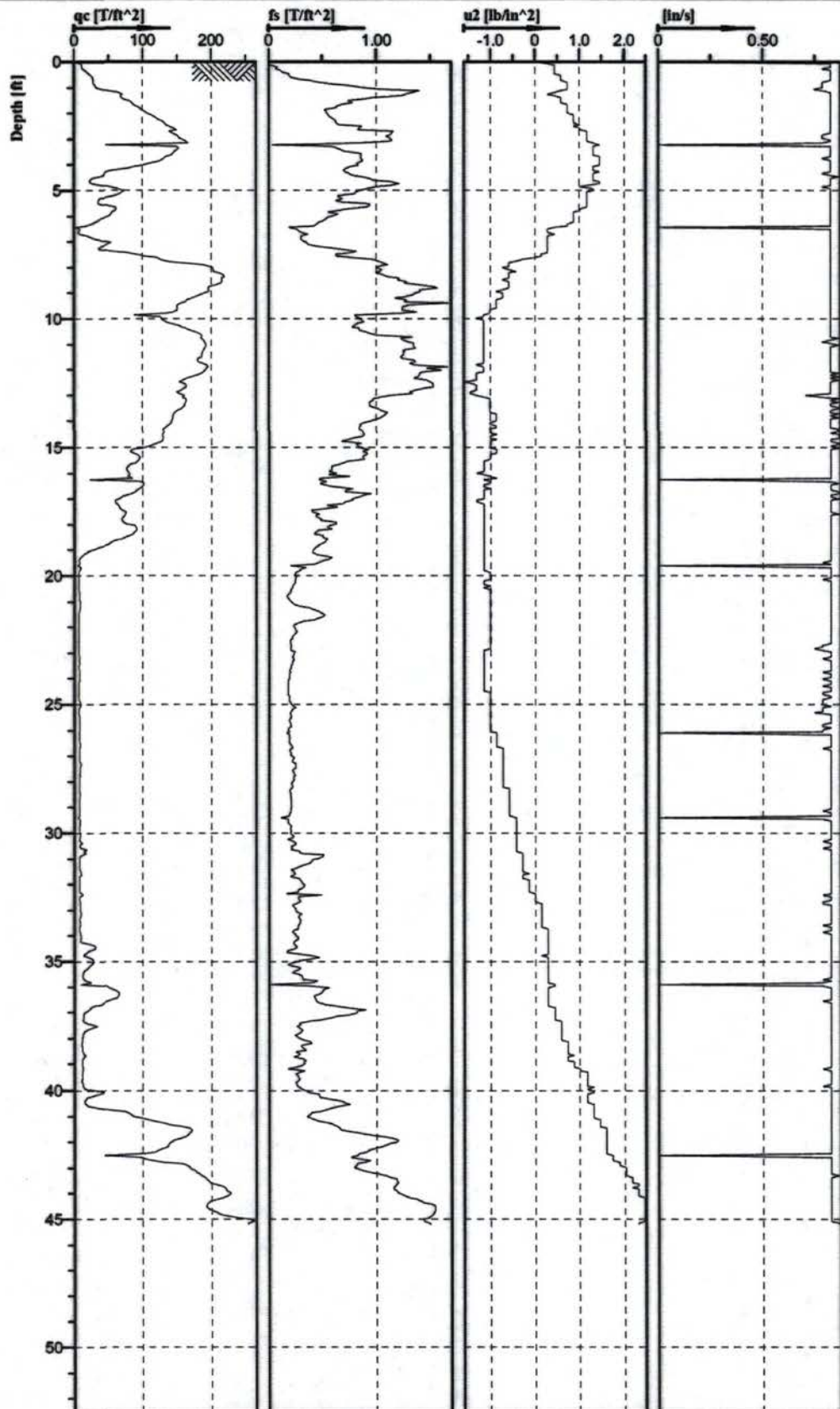
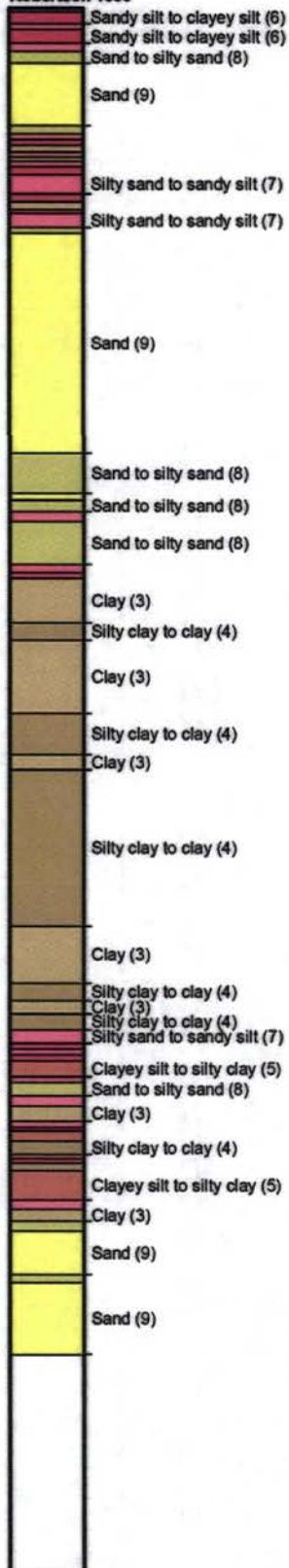
Classification by
Robertson 1986



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

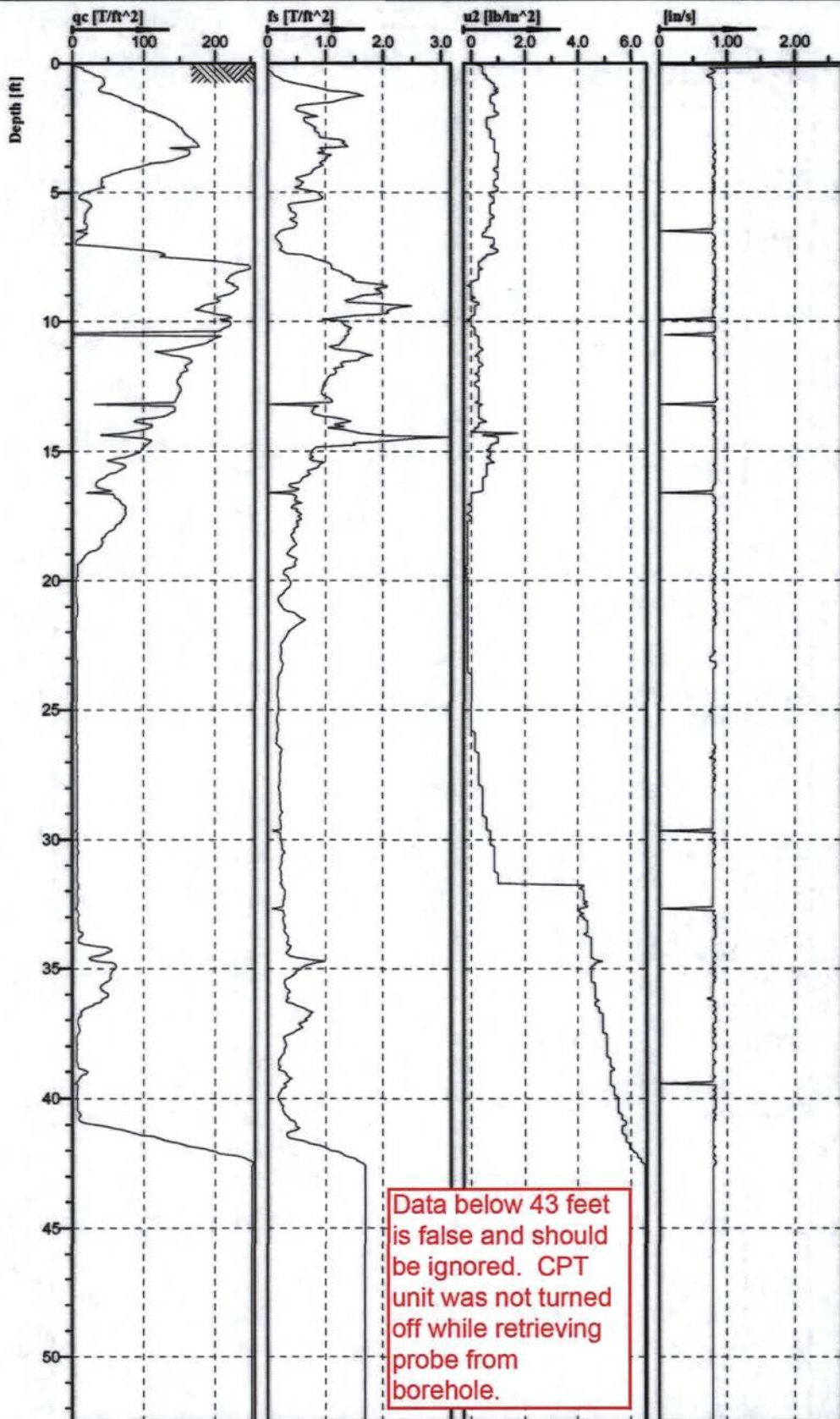
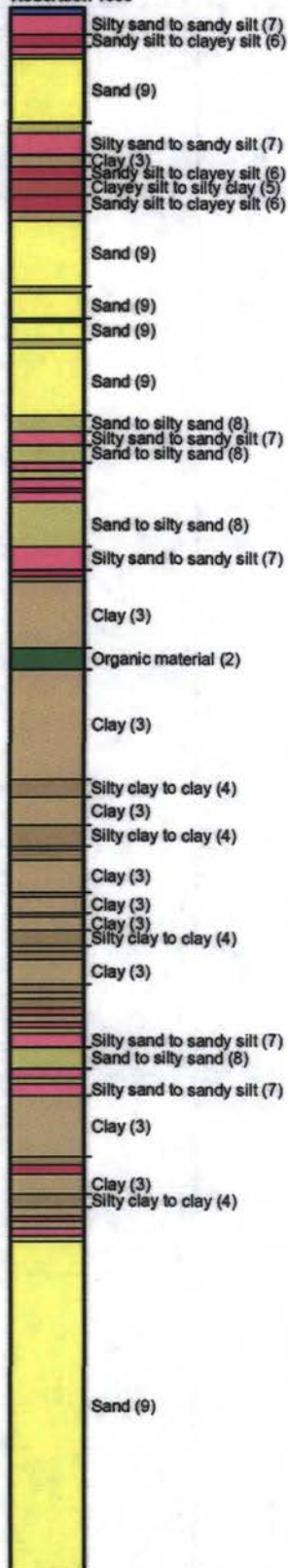
Location: Dubuque, Iowa	Position: X: 4708636.3 m, Y: 692468.6 m	Ground level: 609.68	Test no: DP-8
Project ID: 11284.00	Client: MWH Global	Date: 7/27/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
		File: 1011180.0106-DP-8.cpt	

Classification by
Robertson 1986



Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Dubuque, Iowa	Position: X: 4708579.2 m, Y:692454.4 m	Ground level: 609.74	Test no: TP-101
Project ID: 11284.00	Client: MWH Global	Date: 7/27/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
		File: 1011180.0106-TP-101.cpt	

Classification by
Robertson 1986

Cone No: 3918
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Dubuque, Iowa	Position: X: 4708576.3 m, Y: 692453.8 m	Ground level: 609.65	Test no: TP-102
Project ID: 11284.00	Client: MWH Global	Date: 7/27/2011	Scale: 1 : 75
Project: MEC Dubuque FMGP Sampling		Page: 1/1	Fig:
		File: 1011180.0106-TP-102.cpt	