Terracon

ANNUAL MONITORING REPORT – 2004/2005

PAYNESVILLE MUNICIPAL WATER SUPPLY – MPCA
PAYNESVILLE, MINNESOTA
MPCA SITE ID # LEAK00000131

Terracon Project No. 41987018
June 29, 2005

Prepared for:

MINNESOTA POLLUTION CONTROL AGENCY
Remediation Division
Petroleum and Closed Landfill Remediation Section
Petroleum Remediation Unit 1
520 Lafayette Road North
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Background Information

The Paynesville Municipal Water Supply site is located within the City of Paynesville (Figure 1). Based on available information and previous assessment work conducted by Terracon, the site has soil, soil vapor and groundwater impacts. The information shows the source of the impacts is a petroleum release that occurred at the former Midtown Auto located at 500 Lake Avenue South (southwest corner of Lake Avenue South and Mill Street).

This Annual Monitoring Report (AMR) includes groundwater monitoring results for monitoring events conducted since Terracon's "Annual Monitoring Report" dated May 24, 2004. In addition, this AMR includes the results of a Vapor Intrusion Assessment (VIA) study performed at the site during November 2004 and additional vapor monitoring results of vapor sampling conducted at the site in April 2005. A copy of the VIA study report dated January 21, 2005 is included in Appendix D.

Groundwater Quality

Depth to groundwater measurements were conducted at the following wells (Figure 2).

Well ID	Map ID
DW-1	1
DW-2	2
DW-3	3
DW-4	4
DW-5	45
DW-6	46
Midtown wells	
MW-10	24
MW-10D	5
MW-14	25
MW-14D	6
MW-16	27
MW-17	28
Johnson wells	
MW-4	44
MW-5	7
City of Paynesville monitoring wells	
	42
	43

Well construction information is summarized in Table 1. The groundwater level data is presented in Table 2. The fluid level data from wells screened between 75 and 95 feet below ground surface were used to prepare the groundwater contour maps depicted in Figures 3A and 3B.

The estimated groundwater contours for groundwater levels measured on August 24, 2004 and February 16, 2005 show the regional groundwater flow is generally down to the east-southeast. Available information indicates the water table aquifer flows north at and near the source area. However, local fluctuations and variations due to seasonal infiltration/exfiltration, geologic formations, groundwater pump-out and/or other site features can affect the groundwater flow. Fluid level data from select monitoring wells screened within the drinking water aquifer and/or located near recovery well DW-5 are depicted on hydrographs in Figures 4A and 4B. The hydrographs illustrate seasonal fluctuations in groundwater elevations, and in the case of wells CMW-42 (42) and DW-5 (45) (Figure 4A) the results of groundwater pumping activities.

The following table summarizes the groundwater monitoring/sampling activities.

Location	Analysis	Monthly	Quarterly	Semi-Annual	Annual
WTP Influent	VOCs			*	
WTP Effluent	VOCs			*	
CW-3	VOCs			*	
CW-4	VOCs	* Prior to April 2005	*		
CW-5	VOCs			*	
CW-6	VOCs			*	
CW-7	VOCs			*	
CW-8	VOCs				*
DW-3	BTEX, MTBE, GRO		*		
DW-5	BTEX, MTBE, GRO		*		
DW-6	BTEX, MTBE, GRO		*		
DW-7S	BTEX, MTBE, GRO				*
DW-7D	BTEX, MTBE, GRO				*
MW-17	BTEX, MTBE, GRO		*		

Municipal well CW-4 was previously sampled during monthly intervals until March 2005 and at quarterly intervals thereafter beginning in May 2005. The other sample locations were sampled at the intervals indicated in the table above, except for wells CW-5, CW-6, CW-7 and CW-8 were not sampled during a planned semi-annual event conducted in February 2005. These four wells were not sampled in February 2005 because the wells could not be accessed due to excessive snow cover blocking access to the wells. Therefore, the four wells were sampled in May 2005. Groundwater samples were collected from the city wells via sampling taps after purging. Groundwater samples were collected from the monitoring wells after purging three to five well volumes using disposable bailers, dedicated plastic purge pumps with polyethylene tubing or a Grundfos Redi-Flow 2 sampling pump with dedicated polyethylene tubing as described in the attached sampling forms. The laboratory results are summarized in

Table 3 and Table 4. Natural attenuation monitoring parameters are summarized in Table 5. Copies of laboratory reports are included in Appendix A and the sampling information forms are included in Appendix C.

The most recent monitoring event was conducted in February 2005 and included collecting groundwater samples from DW-3, DW-5, DW-6, DW-7S, DW-7D, MW-17, CW-3, CW-4, CW-7, CW-8, WTP influent and WTP effluent. The laboratory analytical results for the groundwater samples from these monitoring locations were below laboratory reporting limits for VOCs, except for concentrations detected in samples collected from wells DW-5, DW-6 and CW-4. In addition, wells CW-5 and CW-6 were last sampled in August 2004 and the laboratory analytical results of those samples were below the laboratory reporting limits for VOCs. The VOCs detected in the sample collected from well DW-5 include benzene (180 ug/L), toluene (2.1 ug/L), ethylbenzene (31 ug/L), total xylenes (39 ug/L) and GRO (400 ug/L). The VOCs detected in the sample from well DW-6 include benzene (33 ug/L), ethylbenzene (2.4 ug/L), MTBE (5.3 ug/L) and GRO (170 ug/L). The VOC detected in the sample collected from well CW-4 include 1,2-dichloroethane (0.46 ug/L). The detected VOCs are consistent with laboratory analytical results conducted on groundwater samples collected during previous monitoring events.

Section 2. VAPOR IMPACT MONITORING

If vapor impacts were detected during previous assessments, discuss the results of follow-up vapor monitoring. Include in your discussion the sampling instrument and sampling method.

Vapor monitoring of the subsurface soil vapors was conducted at four locations (VP-7 through VP-10) adjacent to nearby and/or down-gradient receptors. Initially, Terracon planned to conduct sub-slab vapor monitoring by installing sub-slab sampling points within the basements of buildings at the site. However, access to install the sampling points was denied by the property/building owners. Therefore, Terracon proceeded with gaining access arrangements to conduct temporary soil vapor monitoring points outside the buildings. In addition, previous vapor monitoring activities were conducted at the site and included six soil probes (VP-1 through VP-6) completed in the right-of-way of Lake Avenue. The results of the initial vapor monitoring work are discussed in Terracon's "VIA Pilot – Midtown Station" letter report dated January 21, 2005. The previous monitoring work noted elevated organic vapors, using a photoionization detector (PID), at depths corresponding to the soil/groundwater interface at and near the source area. Furthermore, soil probe VP-3 encountered a pocket of soil gas under pressure at about 22 feet below ground surface that exhibited elevated concentrations of organic vapors. Pressurized soil gas was also encountered in a previously completed probe (P-32). The vapor samples collected

from the probes each had laboratory analytical results showing elevated concentrations of VOCs and total hydrocarbons (THCs) as gas (Table 7 and 8, Figure 3).

The additional vapor monitoring work included four hand-driven probe sample points (VP-7 through VP-10, Figure 3). The sample points were selected to assess the vapor migration potential to receptors (i.e., building) located near the previously identified source area. Terracon attempted to assess several other properties/buildings at the site. However, access to those properties was denied by the owners. The probes were conducted by Terracon on April 21, 2005. The soil gas sampling methods using a manual push-probe monitor point are described in Appendix B. The vapor samples collected from the probes each had laboratory analytical results showing elevated concentrations of VOCs and total hydrocarbons (THCs) as gas (Table 7 and 8, Figure 3).

Various petroleum related VOCs were detected in the soil gas samples collected from the ten soil-gas vapor points (VP-1 through VP-10). The vapor points exhibiting higher concentrations of VOCs were located at and/or down-gradient of the source area in regards to the inferred horizontal groundwater flow direction. Therefore, the source of the VOCs detected appears to be from the petroleum release and associated dissolved/free phase contaminant plume at the site. Many of the VOC concentrations detected were above their respective soil gas action levels [i.e., Minnesota Department of Health (MDH) Health Risk Value (HRV), Environmental Protection Agency (EPA) Reference concentrations (Rfcs) or MDH Interim Screening Concentrations (ISCs)].

NOTE: If vapor concentrations exceed 10 percent of the lower explosive limit, exit the building and contact the local fire department immediately. Then contact the Minnesota Duty Officer (24 hours) at 651/649-5451 (metro and outside Minnesota) or 1-800/422-0798 (Greater Minnesota). TTY users call 651/297-5353 (V/TTY) or 1-800/627-3529 (V/TTY). **Vapor mitigation is required.**

Section 3. RECOMMENDATIONS

Discuss your recommendations. Your recommendation should be based on Guidance Document 1-01 *Petroleum Remediation Program General Policy.*

Groundwater quality data indicates the contamination plume is responsive to groundwater pumping activities. In comparing data from similar time periods, the city well CW-4 pumping rates and laboratory analytical data for groundwater samples collected from wells at the site appear to correlate well. During increased groundwater pumping rates from well CW-4, a corresponding decrease in dissolved phase petroleum hydrocarbon concentrations were noted for samples collected from well CW-4 and nearby monitoring wells DW-3, DW-5 and DW-6. In addition, a

stoppage of groundwater pumping from well CW-4 showed a corresponding increase in dissolved phase petroleum hydrocarbons in well CW-4.

The groundwater pumping rate for well CW-4 has been about 102 to 103 gallons per minute (gpm) since October 2004. Prior to October 2004 the pumping rate was about 95 gpm. The laboratory analytical results for samples collected from well CW-4 have been decreasing steadily from March 2003 (13 ug/L benzene) to the present (below laboratory reporting limits for benzene). This decrease may be indicative of a reduction in the dissolved phase petroleum, a decreased pumping rate or other unidentified well or pump issue. The current pumping rate at city well CW-4 of approximately 103 gpm appears to be controlling contamination plume migration in the direction of city wells CW-5, CW-6 and CW-7. The pumping rate of city well CW-4 should be limited so that it does not promote excessive migration of the contaminant plume to the north or downward into the drinking water aquifer. The current pump installed in the well can not be operated at a lower pumping rate. Continued analysis of samples from the water treatment plant, city wells, and select monitoring wells should be performed in order to monitor the quality of the water supply and contaminant plume stability or migration.

If additional corrective action is recommended, please provide your justification.
Terracon understands the MPCA plans to request Terracon to evaluate the Midtown Auto site for possible corrective actions.

If significant reduction of risk has been achieved at the site, recommendations and rationale for the reduction or termination of corrective actions may be presented.
Not Applicable.

If additional monitoring is recommended, indicate the proposed monitoring schedule and frequency.

Pending the results of an evaluation of assessment and cleanup actions conducted at the Midtown Auto site, Terracon recommends the following activities:

- **Continue groundwater extraction activities utilizing city well CW-4 to contain the petroleum plume. Continue to adjust the pumping rate of city well CW-4 to establish an extraction rate that helps prevent excessive migration of the contaminant plume in the direction of either well CW-4 or wells DW-3, DW-7S, DW-7D, CW-5, CW-6 and CW-7.**

- **Collect semi-annual groundwater samples from city wells CW-3, CW-5, CW-6, water treatment plant influent, and water treatment effluent. The groundwater samples should be analyzed for the Minnesota Department of Health (MDH) list of VOCs and pH. The sampling schedule should be adjusted to monthly if the contaminant plume appears to become unstable.**

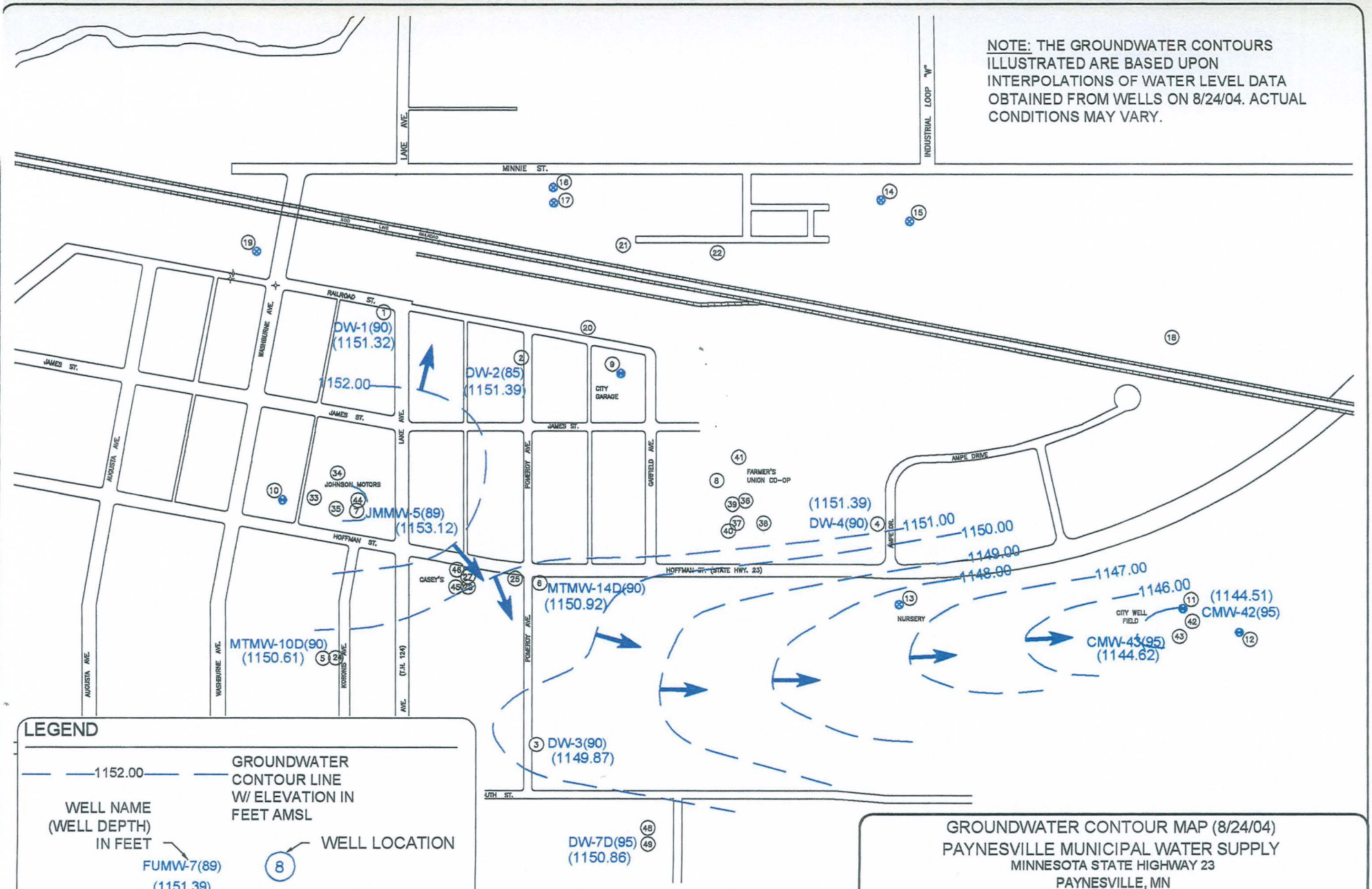
- **Collect annual groundwater samples from city wells CW-7 and CW-8. The groundwater samples should be analyzed for the MDH list of VOCs.**

- **Conduct quarterly site visits to collect fluid level data from wells DW-1(1), DW-2(2), DW-3(3), DW-4(4), DW-5(45), DW-6(46), DW-7S(48), and DW-7D(49); Midtown wells MW-10(24), MW-10D(5), MW-14(25), MW-14D(6), MW-16(27), and MW-17(28); Johnson Motors wells MW-4(44) and MW-5(7); City of Paynesville monitoring wells identified as CMW-42 and CMW-43.**

- **Collect quarterly groundwater quality samples for laboratory analysis from monitoring wells DW-3, DW-6 and DW-5; and semi-annual samples from monitoring wells MW-17, DW-7S and DW-7D. Well DW-5 should be sampled after purging with the recovery well pump. The samples should be analyzed for BTEX, MTBE, and GRO. A duplicate sample and field blank should be analyzed during each sampling event.**

- **Perform reporting and project management duties associated with the continued sampling of the municipal water supply and plume containment which includes permitting requirements, utility costs, submission of data to MPCA Staff and the City of Paynesville, and the preparation of an annual monitoring report. The annual report will fulfill the requirements of MPCA Guidance Document 4-08.**

- **Conduct additional vapor risk assessment work to assess the identified soil-gas VOCs potential for vapor intrusion (i.e., migrating and/or accumulating into buildings). The additional vapor risk assessment activities should include: an expanded soil gas survey to assess the horizontal extent of the vapor cloud, attaining access to buildings to perform additional assessment work, collection of indoor air samples of buildings that have been identified as being at risk of vapor intrusion, and perform the work in general accordance with MPCA Guidance Document 4-01a, "Vapor Intrusion Assessments Performed During Site Investigations". The possibility of encountering pockets of petroleum impacted gas should be considered during future assessment activities.**



LEGEND

1152.00 — GROUNDWATER CONTOUR LINE W/ ELEVATION IN FEET AMSL

WELL NAME (WELL DEPTH) IN FEET — FUMW-7(89)

GROUNDWATER LEVEL IN FEET AMSL — (1151.39)

8 — WELL LOCATION

VAPOR MONITORING POINTS

PRIVATE POTABLE WELLS

MUNICIPAL POTABLE WELLS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

GROUNDWATER CONTOUR MAP (8/24/04)
PAYNESVILLE MUNICIPAL WATER SUPPLY
MINNESOTA STATE HIGHWAY 23
PAYNESVILLE, MN
MPCA

Project Mngr:	PJW	Terracon	Project No.	41987018
Designed By:	BJS	3535 Hoffman Road East White Bear Lake, MN 55110	Scale:	AS SHOWN
Checked By:	BJS		Date:	6/24/05
Approved By:	PJW		Drawn By:	CDR (41)
File Name:	41987018gw.dwg	Layout1	Figure No.	3A

NOTE: THE GROUNDWATER CONTOURS ILLUSTRATED ARE BASED UPON INTERPOLATIONS OF WATER LEVEL DATA OBTAINED FROM WELLS ON 2/16/05. ACTUAL CONDITIONS MAY VARY.

MINNIE ST.
LAKE AVE.
INDUSTRIAL LOOP "W"
RAILROAD ST.
JAMES ST.
WASHBURNE AVE.
AUGUSTA AVE.
HOFFMAN ST.
HOFFMAN ST. (STATE HWY. 23)
POMEROY AVE.
OAKFIELD AVE.
AMPE DRIVE
AMPE DR.
KORONIS AVE.
(T.H. 124)
UTH ST.
CITY GARAGE
JOHNSON MOTORS
FARMER'S UNION CO-OP
CASEY'S
NURSERY
CITY WELL FIELD

DW-1(90)
(1150.72)
DW-2(85)
(1150.67)
JMMW-5(89)
(1150.05)
MTMW-10D(90)
(1150.00)
MTMW-14D(90)
(1151.37)
DW-3(90)
(1150.20)
DW-7D(95)
(1150.17)
(1150.65)
DW-4(90)
(1146.20)
CMW-42(95)
CMW-43(95)
(1146.25)

1151.00
1150.00
1149.00
1148.00
1147.00

LEGEND

1150.72 — GROUNDWATER CONTOUR LINE W/ ELEVATION IN FEET AMSL

WELL NAME (WELL DEPTH) IN FEET — FUMW-7(89)

GROUNDWATER LEVEL IN FEET AMSL — (1150.20)

8 — WELL LOCATION

VAPOR MONITORING POINTS

PRIVATE POTABLE WELLS

MUNICIPAL POTABLE WELLS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

GROUNDWATER CONTOUR MAP (2/16/05)
PAYNESVILLE MUNICIPAL WATER SUPPLY
MINNESOTA STATE HIGHWAY 23
PAYNESVILLE, MN
MPCA

Project Mngr:	PJW	Terracon	Project No.	41987018
Designed By:	BJS		Scale:	AS SHOWN
Checked By:	BJS	3535 Hoffman Road East White Bear Lake, MN 55110	Date:	6/24/05
Approved By:	PJW		Drawn By:	CDR (41)
File Name:	41987018gw.dwg	Layout2	Figure No.	3B

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
MONITORING WELLS												
1	DW-1	*G	03/05/98	<1	<1	<1	<3	<5	<5	<1	-	-
1	DW-1		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
1	DW-1	*G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
1	DW-1		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
2	DW-2	G	03/06/98	<1	<1	<1	<3	<5	<5	**20**	-	-
2	DW-2		03/25/98	<0.30	<0.30	<0.50	<0.80	<1.0	<0.40	<0.50	-	-
2	DW-2	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
2	DW-2		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
3	DW-3	G	03/16/98	<1	<1	<1	<3	<5	<5	<1	-	-
3	DW-3		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
3	DW-3	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
3	DW-3		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
3	DW-3		09/22/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
3	DW-3		12/09/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
3	DW-3		04/20/00	<1.0	**2.2**	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		07/27/00	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
3	DW-3		10/20/00	**4.9**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		01/16/01	<1.0	**4.4**	<1.0	**3.0**	<5.0	-	-	<100	-
3	DW-3	2	04/12/01	<1.0	**6.1**	<1.0	<3.0	<5.0	-	-	**400**	-
3	DW-3		08/13/01	**17**	<1.0	<1.0	<3.0	<5.0	<5.0	<5.0	<100	-
3	DW-3		10/09/01	**25**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		11/19/01	**24**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		01/29/02	**8.8**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		08/19/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		01/17/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		04/04/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		02/04/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
4	DW-4	G	03/16/98	<1	<1	<1	<3	<5	<5	<1	-	-
4	DW-4		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
4	DW-4	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
4	DW-4		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
46	DW-6	G	08/20/98	**330**	<100	<100	<300	-	<500	<100	-	-
46	DW-6		04/05/99	**140**	**3.9**	**29**	**17.4**	-	-	-	**720**	**150**
46	DW-6		06/21/99	**120**	**2.1**	**25**	**14**	-	-	-	**660**	**100**
46	DW-6		09/22/99	**99**	**1.4**	**16**	**9.3**	**10**	-	-	**400**	-
46	DW-6		12/09/99	**64**	**5.3**	**20**	**29**	**20**	-	-	**570**	-
46	DW-6		04/20/00	**170**	**1.6**	**9.8**	**24**	**13**	-	-	**760**	-
46	DW-6		07/27/00	**51**	**1.6**	**9.8**	**13**	<5.0	-	-	**260**	-
46	DW-6		10/20/00	**40**	<1.0	**10**	**7.3**	**6.2**	-	-	**370**	-
46	DW-6		01/16/01	**93**	**1.5**	**5.0**	**17**	**5.1**	-	-	**420**	-
46	DW-6		04/12/01	**86**	<1.0	**2.8**	**15**	**7.7**	-	-	**290**	-
46	DW-6		08/13/01	**110**	<1.0	**3.2**	**16**	**6.6**	-	-	**300**	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
46	DW-6		10/09/01	**50**	<1.0	**3.5**	**4.2**	<5.0	-	-	**180**	-
46	DW-6		01/29/02	**120**	**1.1**	**7.0**	**21**	**5.6**	-	-	**340**	-
46	DW-6		04/16/02	**93**	<1.0	**4.7**	**19**	**5.8**	-	-	**290**	-
46	DW-6		08/19/02	**160**	**1.1**	**2.7**	**16**	**5.1**	-	-	**360**	-
46	DW-6		11/05/02	**130**	<1.0	**2.1**	**17**	<5.0	-	-	**290**	-
46	DW-6		01/17/03	**76**	<1.0	**2.4**	**7.8**	<5.0	-	-	**180**	-
46	DW-6		04/04/03	**23**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
46	DW-6		07/24/03	**17**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
46	DW-6		10/28/03	**48**	<1.0	**1.7**	**5.3**	<5.0	-	-	**150**	-
46	DW-6		02/04/04	**45**	<1.0	**1.8**	<3.0	<5.0	-	-	**120**	-
46	DW-6		04/07/04	**32**	<1.0	<1.0	<3.0	<5.0	-	-	**130**	-
46	DW-6		08/24/04	**29**	<1.0	**1.6**	<3.0	<5.0	-	-	**140**	-
46	DW-6		02/16/05	**33**	<1.0	**2.4**	<3.0	**5.3**	-	-	**170**	-
48	DW-7S		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
48	DW-7S	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
48	DW-7S		10/09/01	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		01/29/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		04/03/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
48	DW-7S		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
49	DW-7D	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
49	DW-7D		10/09/01	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		01/29/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		04/03/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
49	DW-7D		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
21	BEI-MW-2		03/25/98	<0.30	**0.61**	<0.50	<1.2	<1.0	<0.40	<0.50	-	**170**
27	MW-16		04/05/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		06/21/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		10/06/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		12/09/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
27	MW-16		04/20/00	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
27	MW-16		03/22/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		06/26/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		09/28/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
27	MW-16		03/12/02	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17	G	06/13/98	**2,100**	<100	<100	<300	-	<500	**140**	-	-
28	MW-17		04/05/99	**360**	<2.0	<2.0	<6.0	-	-	-	**540**	<100
28	MW-17		06/21/99	**35**	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17		10/06/99	**2.8**	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17		12/09/99	**9.2**	**1.7**	**1.2**	**5.8**	<5.0	-	-	<100	-
28	MW-17		04/20/00	**2.9**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17		03/22/01	**2.1**	<1.0	<1.0	<3.0	-	-	-	<50	<100

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
28	MW-17		06/26/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17		09/28/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17		03/12/02	**2.5**	<1.0	<1.0	<3.0	-	-	-	<50	<100
28	MW-17		07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
POTABLE WELLS												
9	CW-3		03/25/98	**18**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		05/20/98	**11**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3	G	06/10/98	**9.3**	<1	<1	<3	-	<5	<1	-	-
9	CW-3		06/10/98	**7.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
9	CW-3		08/20/98	**6.2**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		09/09/98	**5.2**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		10/05/98	**4.8**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		11/18/98	**3.4**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		12/15/98	**2.9**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		01/25/99	**1.6**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		02/18/99	**1.3**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		03/17/99	**0.86**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		04/22/99	**0.63**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		05/21/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
9	CW-3		06/24/99	**0.37**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		07/19/99	**0.48**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		08/23/99	**1.4**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		09/22/99	**1.1**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		10/25/99	**0.59**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		11/24/99	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		12/09/99	**0.36**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
9	CW-3		02/17/00	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		03/13/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		04/20/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		05/23/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		06/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		07/27/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
9	CW-3		08/16/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
9	CW-3		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	11/05/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
9	CW-3		01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
9	CW-3		04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
9	CW-3		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
9	CW-3		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
10	CW-4	c	12/19/90	**2.2**	<0.2	<0.2	**0.4**	<0.2	<0.5	**0.3**	-	-
10	CW-4	c	10/23/97	**16**	<0.30	<0.50	<1.2	<1.0	<0.40	**1.5**	-	-
10	CW-4	c	03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c, G	06/10/98	**3.0**	<1	<1	<3	-	<5	**2.2**	-	-
10	CW-4	c	06/10/98	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	-	-
10	CW-4	c, G	06/13/98	**3.5**	<1	<1	<3	-	<5	**2.7**	-	-
10	CW-4	c	08/20/98	**6.6**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
10	CW-4	c	09/09/98	**8.8**	<0.3	<0.5	<1.2	<1.0	<0.4	**0.78**	-	-
10	CW-4	c	10/05/98	**12**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
10	CW-4	c	11/18/98	**19**	<0.3	<0.5	<1.2	<1.0	<0.4	**0.6**	-	-
10	CW-4	c	12/15/98	**18**	**0.4**	<0.5	<1.2	<1.0	<0.4	**0.8**	-	-
10	CW-4	c	01/25/99	**20**	**0.38**	**0.51**	<1.2	<1.0	<0.4	**1.1**	-	-
10	CW-4	c	02/18/99	**19**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
10	CW-4	c	03/17/99	**19**	<0.3	**0.55**	<1.2	<1.0	<0.4	**0.88**	-	-
10	CW-4	c	04/22/99	**12**	<0.3	<0.50	<1.2	<1.0	<0.4	**0.51**	-	-
10	CW-4	c	05/21/99	**8.8**	<0.3	<0.50	<1.2	<1.0	<0.4	**0.62**	-	-
10	CW-4	c	06/24/99	**11**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c	07/19/99	**7.7**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c	08/23/99	**7.3**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c	09/22/99	**6.7**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.59**	-	-
10	CW-4	c	10/25/99	**6.6**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c	11/24/99	**5.7**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.5**	-	-
10	CW-4	c	12/09/99	**4.9**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4	c	01/13/00	**3.5**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
10	CW-4		02/17/00	**3.0**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.72**	-	-
10	CW-4		03/13/00	**2.4**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4		04/20/00	**1.7**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4		05/23/00	**0.49**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4		06/17/00	**1.0**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4		07/27/00	**0.66**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.67**	-	-
10	CW-4		08/16/00	**0.56**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
10	CW-4		02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	**0.55**	-	-
10	CW-4		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	07/30/01	**0.38 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	**0.75**	-	-
10	CW-4		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	**0.78**	**0.77**	-	-
10	CW-4	3	11/19/01	**0.17 J**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
10	CW-4	3	12/03/01	**0.11 J**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
10	CW-4	3	01/29/02	**1.3**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.31 J**	-	-
10	CW-4	3	02/08/02	**1.8**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
10	CW-4	3	03/19/02	**2.8**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
10	CW-4	3	05/23/02	**4.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.62**	-	-
10	CW-4	3	06/07/02	**4.9**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.66**	-	-
10	CW-4	3	07/30/02	**5.7**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	08/19/02	**6.2**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	09/09/02	**6.6**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4		10/11/02	**8.2**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	11/05/02	**7.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.70**	-	-
10	CW-4	3	12/16/02	**7.7**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	01/16/03	**10**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
10	CW-4	3	02/06/03	**11**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.86**	-	-
10	CW-4	3	03/06/03	**13**	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
10	CW-4	5	04/03/03	**11**	<1.0	<1.0	<3.0	<1.0	<5.0	**0.089 J**	-	-
10	CW-4	3	05/19/03	**9.7**	<1.0	<1.0	<3.0	<1.0	<5.0	**0.63**	-	-
10	CW-4	3, 4	06/19/03	**7.7**	<0.50	<0.50	<1.5	<1.0	<2.0	**0.63**	-	-
10	CW-4	1	07/24/03	**8.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.64**	-	-
10	CW-4	3	08/12/03	**7.0**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.67**	-	-
10	CW-4	1,3	09/09/03	**7.7**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.79**	-	-
10	CW-4	3	10/28/03	**6.4**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.60**	-	-
10	CW-4		11/25/03	**6.6**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.59**	-	-
10	CW-4	3	12/31/03	**5.3**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.42 J**	-	-
10	CW-4	5	01/28/04	**3.9**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.35 J**	-	-
10	CW-4	3	02/04/04	**2.8**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.81**	-	-
10	CW-4	5	03/02/04	**3.6**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.44 J**	-	-
10	CW-4	3	04/07/04	**2.8**	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
10	CW-4	3	05/25/04	**1.2**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.38 J**	-	-
10	CW-4	3	06/17/04	**1.1**	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
10	CW-4	3	07/26/04	**0.79**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.42 J**	-	-
10	CW-4	3	08/25/04	**0.92**	<0.50	<0.50	<1.50	<0.50	<0.50	**0.37 J**	-	-
10	CW-4	3	09/15/04	**0.84**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.42 J**	-	-
10	CW-4	3	10/22/04	**0.48 J**	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
10	CW-4	3	11/10/04	**0.3 J**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.29 J**		
10	CW-4	3	12/02/04	**0.18 J**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.85**	-	-
11	CW-4	3	01/18/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.05	**0.92**	-	-
11	CW-4	3	02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	**0.46 J**	-	-
11	CW-4	3	03/14/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
11	CW-4		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	**0.31 J**	-	-
11	CW-5		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
11	CW-5	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
11	CW-5	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
11	CW-5	3	10/28/03	**0.091 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
11	CW-5		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
11	CW-5		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
12	CW-6		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
12	CW-6	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
12	CW-6	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
12	CW-6	3	10/28/03	**0.081 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
12	CW-6		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
12	CW-6		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
	CW-7	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-7	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-7	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-7		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
	CW-7		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-7		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
	CW-8	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-8	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-8	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-8		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-8		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-8		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
PACKER TEST												
	CW-4 (70-80')	1	09/23/02	**5.3**	**6.6**	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-4 (80-90')		09/23/02	**5.5**	**7.9**	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-4 (90-100')		09/23/02	**6.4**	**8.9**	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-4 (100-110')		09/23/02	**8.2**	**6.8**	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-Influent		03/25/98	**5.8**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent	G	04/23/98	**1.0**	<1	<1	<3	<5	<5	<1	-	-
	CW-Influent		06/10/98	**3.7**	**1.0**	**4.7**	**1.3**	<1.0	<1.0	<1.0	-	-
	CW-Influent		08/20/98	**0.5**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		10/05/98	**1.1**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		11/18/98	**0.34**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		12/15/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		01/25/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		02/18/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		03/17/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		04/22/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		05/21/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		06/24/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Influent		07/19/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		08/23/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		09/22/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		10/25/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		11/24/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		12/09/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		01/13/00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
	CW-Influent		02/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		03/13/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		04/20/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		05/23/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		06/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent	1	07/27/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Influent		08/16/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-Influent	1	02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	3	07/30/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	1, 3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
	CW-Influent	3	09/11/01	**0.31 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	3	11/19/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	*, 3	12/03/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	*, 3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	3	02/08/02	**0.6**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	*, 3	03/08/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	3	05/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Influent	3	06/07/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	07/30/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	09/09/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	10/11/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	11/05/02	**0.33 J**	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	12/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	1,3	02/06/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	1,3	03/06/03	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	CW-Influent	3	04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	05/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3, 4	06/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<2.0	<0.5	-	-
	CW-Influent	3	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.5	-	-
	CW-Influent	3	01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.5	-	-
	CW-Influent	1,3	04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	CW-Influent		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-Influent		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-Filtered	c	03/25/98	**6.8**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c, G	04/23/98	<1	<1	<1	<3	<5	<5	<1	-	-
	CW-Filtered	c	06/10/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	08/20/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	10/05/98	**0.73**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	11/18/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	12/15/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	01/25/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	02/18/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	03/17/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	04/22/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	05/21/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	06/24/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	CW-Filtered	c	07/19/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	08/23/99	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	09/22/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	10/25/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	11/24/99	**5.80**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	12/09/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	01/13/00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
	CW-Filtered	c	02/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	2.1**	<0.50	-	-
	CW-Filtered	c	03/13/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	c	04/20/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	1, c	05/23/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	1, c	06/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
	CW-Filtered	1, c	07/27/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
	CW-Filtered	c	08/16/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1, c	09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1, c	10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1, c	11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	CW-Filtered	c	02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	02/28/01	**0.2**	<0.2	<0.2	<0.4	<2.0	<0.5	<0.2	-	-
	CW-Filtered	c	03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	3, c	07/30/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1, 3, c	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1, 3, c	09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	*, c	10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	*, 3, c	11/19/01	<0.50	<0.50	<0.50	<1.5	<1.0	**0.92**	<0.50	-	-
	CW-Filtered	3, c	12/03/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	*, 3, c	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	*, 3, c	02/08/02	**0.36 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	3, c	03/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	3, c	04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	1,3, c	05/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	CW-Filtered	c	06/07/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c'	07/30/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	09/09/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	10/11/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	11/05/02	**0.24 J**	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	12/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	02/06/03	**0.43 J**	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	03/06/03	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	CW-Filtered	3, c	04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	05/19/03	<0.50	<0.50	**0.55**	**3.9**	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, 4, c	06/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<2.0	<0.50	-	-
	CW-Filtered	1, 3, c	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	3, c	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	CW-Filtered	6, c	01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	-	-
	CW-Filtered	c	04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	CW-Filtered	c	08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	CW-Filtered	c	02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Storm Dis.		03/17/99	<0.3	**0.86**	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	Storm Dis.		04/22/99	**3.0**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	<100	<100
	Storm Dis.		09/22/99	**1.8**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	Storm Dis.		12/09/99	**1.1**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
	Storm Dis.		03/13/00	**0.6**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
13	Nursery Well	G	02/26/98	<1	<1	<1	<3	<5	<5	<1	-	-
13	Nursery Well		02/26/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
19	AMPI Well		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
17	Bus Gar. (south)		03/25/98	<0.30	**0.35**	<0.50	<1.2	<1.0	<0.40	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
GW PUMPING TEST & EXTRACTION												
10	CW-4-1		05/20/98	<1.0	<1.0	<1.0	<1.0	<5.0	NA	NA	<100	-
10	CW-4-2		05/20/98	<1.0	<1.0	<1.0	<1.0	<5.0	NA	NA	<100	-
10	CW-4-3		05/20/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
10	CW-4-4		05/20/98	<1.0	<1.0	<1.0	<1.0	49	NA	NA	<100	-
10	CW-4-5		05/21/98	<1.0	<1.0	<1.0	<1.0	<5.0	NA	NA	<100	-
10	CW-4-6		05/21/98	0.41	<0.30	<0.50	<1.2	<1.0	<0.40	0.46	-	-
45	DW-5	G	08/20/98	2,200	140	<100	<300	-	<500	100	-	-
45	DW-5 - 2 hrs	G	08/20/98	2,300	120	<100	<300	-	<500	110	-	-
45	DW-5 - 2 hrs	G*	08/20/98	760	120	73	65	1.7	<0.40	41	2700	-
45	DW-5		12/24/98	1,600	81	64	41	<5.0	-	-	2,800	-
45	DW-5		12/30/98	1,300	47	51	41	44	-	-	1,700	-
45	DW-5		01/25/99	600	28	41	41	5.4	-	-	1,100	-
45	DW-5		02/18/99	400	13	25	<5.0	<25	-	-	550	-
45	DW-5		03/17/99	380	13	22	17	<5.0	-	-	610	-
45	DW-5		04/22/99	240	<1.0	13	18	<5.0	-	-	590	-
45	DW-5		05/21/99	160	8.7	14	13	<1.0	-	5.8	-	-
45	DW-5		06/24/99	170	6.2	9.9	8.9	<5.0	-	-	280	-
45	DW-5		07/19/99	170	5.7	11	11	<5.0	-	-	300	-
45	DW-5		08/23/99	160	6.2	12	8.9	5.3	-	-	280	-
45	DW-5		09/22/99	170	5.7	11	8.6	<5.0	-	-	280	-
45	DW-5		10/25/99	160	5.6	12	10	<5.0	-	-	260	-
45	DW-5		11/24/99	150	5.8	11	10	5.2	-	-	250	-
45	DW-5		12/09/99	140	5.7	12	9.7	<5.0	-	-	230	-
45	DW-5		01/13/00	140	10	12	15	<130	-	-	290	-
45	DW-5		02/17/00	150	5.5	12	11	<5.0	-	-	270	-
45	DW-5		03/13/00	140	4.3	11	9	<5.0	-	-	220	-
45	DW-5		04/20/00	140	8	11	13	6.7	-	-	320	-
45	DW-5		05/23/00	96	3.6	8.2	7.8	<5.0	-	-	180	-
45	DW-5		06/17/00	150	4.9	11	10	<5.0	-	-	270	-
45	DW-5		07/27/00	130	4	9.2	9.8	<5.0	-	-	210	-
45	DW-5		10/20/00	57	2.1	5.5	6	<5.0	-	-	120	-
45	DW-5		01/16/01	79	3.3	7.7	9.9	<5.0	-	-	170	-
45	DW-5		04/12/01	44	<1.0	6	9.2	<5.0	-	-	130	-
45	DW-5		08/13/01	68	1.3	8	9	<5.0	-	-	190	-
45	DW-5		10/09/01	81	1.9	9.7	7.9	<5.0	-	-	180	-
45	DW-5		01/29/02	7	<1.0	1.3	<3.0	<5.0	-	-	<100	-
45	DW-5		04/16/02	98	1.6	16	12	<5.0	-	-	260	-
45	DW-5		11/05/02	110	<1.0	5.3	7.1	<5.0	-	-	170	-
45	DW-5		01/16/03	230	<1.0	9	10	<5.0	-	-	310	-
45	DW-5		04/04/03	350	1.2	20	20	<5.0	-	-	530	-
45	DW-5		07/24/03	280	1.1	29	16	6.0	-	-	670	-
45	DW-5	7	10/28/03	470	1.3	20	11	<5.0	-	-	610	-
45	DW-5	7	02/04/04	470	<1.0	25	18	<5.0	-	-	650	-
45	DW-5		04/07/04	400	1.3	30	25	<5.0	-	-	630	-
45	DW-5		08/24/04	230	<1.0	10	18	<5.0	-	-	510	-
45	DW-5		02/16/05	180	2.1	31	39	<5.0	-	-	400	-
QA/QC DUPLICATES & BLANKS												
46	DW-6	D	10/20/00	43	<1.0	9.7	7.3	<5.0	-	-	340	-
46	DW-6	D	08/13/01	110	<1.0	2.8	15	5.5	-	-	310	-
3	DW-3	D	01/16/01	<1.0	3.4	1.1	3.6	<5.0	-	-	<100	-
3	DW-3	D	04/12/01	<1.0	4.7	<1.0	<3.0	<5.0	-	-	490	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
3	DW-3	D	10/09/01	**26**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	01/29/02	**6.6**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	08/19/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	01/17/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	04/04/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
46	DW-6	D	10/28/03	**48**	<1.0	**1.4**	**4.4**	<5.0	-	-	**150**	-
3	DW-3	D	02/04/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
3	DW-3	D	08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
28	MW-17	D	02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Trip Blank	1	10/20/00	<0.50	**0.58**	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank	1	01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank	*	04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		07/30/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank	*	10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		11/19/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank	**	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	**1.9**	<0.50	<100	-
	Trip Blank	*	02/08/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		03/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		06/07/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		07/30/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		09/09/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		09/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		10/17/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		11/05/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		12/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank		01/17/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		02/06/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Trip Blank		04/03/03	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<100	-
	Trip Blank		05/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Trip Blank	3, 4	06/19/03	<0.50	<0.50	**0.57**	**2.0**	<1.0	<2.0	<0.50	-	-
	Trip Blank	3	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	<100	-
	Trip Blank		08/12/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank	*, 1	09/09/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	<100	-
	Trip Blank	1	11/25/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		12/31/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Trip Blank		01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	-	-
	Trip Blank		02/04/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	<100	-
	Trip Blank		03/02/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	-	-
	Trip Blank		04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
	Trip Blank	*	04/30/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank	*	05/03/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank	*	06/17/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank	*1	07/26/04	<0.50	**0.22 J**	**0.16 J**	**0.62 J**	<0.50	<0.50	<0.50	-	-
	Trip Blank		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	<0.50	<0.50	-	-
	Trip Blank		09/16/04	<1.0	**0.2 J**	<1.0	<3.0	<5.0	<0.50	<0.50	-	-
	Trip Blank		11/22/04	<1.0	<1.0	<1.0	<3.0	<5.0	<0.50	<0.50	-	-
	Trip Blank		11/10/04	<1.0	<1.0	<1.0	<3.0	<5.0	<0.50	<0.50	-	-
	Trip Blank		12/02/04	<1.0	**0.21**	<1.0	<3.0	<5.0	<0.50	<0.50	-	-
	Trip Blank	8	01/19/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank	3	03/14/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Trip Blank		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
	Method Blank		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		07/30/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		11/19/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		02/08/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		03/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		05/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		06/07/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		07/30/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		09/09/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		09/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		10/17/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		11/05/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		12/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		01/17/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		02/06/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank		03/06/03	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	Method Blank		04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
	Method Blank		05/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
	Method Blank	3, 4	06/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<2.0	<0.50	-	-
	Method Blank		07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	<100	-
	Method Blank		08/12/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Method Blank		09/09/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Method Blank		10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	<100	-
	Method Blank		11/25/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Method Blank		12/31/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
	Method Blank		01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	-	-
	Method Blank		02/04/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	<100	-
	Method Blank		03/02/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.5	<0.50	-	-

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Map ID#	Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
	Method Blank		04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
	Method Blank		06/17/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		07/26/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		08/24/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<100	-
	Method Blank		09/21/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		10/26/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		11/10/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		12/02/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		01/19/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		02/19/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		03/22/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
	Method Blank		06/02/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
	Pump Blank		11/19/01	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		01/17/03	<1.0	**1.2**	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	Pump Blank		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
	HRL / *HBV*	a	-	10	10,000	700	10,000	*70*	300	4	*200*	*200*
	MCL	b	-	5	1,000	700	10,000	NE	NE	5	NE	NE
	NPDES	c	-	114	253	NE	166	NE	NE	190	500	NE

Note: Concentrations in micrograms per liter (µg/L), equivalent to parts per billion.
Results at or below the laboratory reporting limits (RLs) were preceded by the less than symbol (<).
Analytes not sampled, or results not applicable, were represented with a hyphen (-).
Bolded values exceeded the Health Risk Limit (HRL), Health Based Value (HBV), NPDES, &/or Maximum Contaminant Level (MCL) for the analyte.
NA - Not Analyzed
D - Duplicate
G - Samples analyzed using GC in Geoprobe Sampling Vehicle.
* - Other petroleum related volatile organic compounds detected.
** - Concentration due to sample carry over.
a. Health Risk Limit / Health Based Values (Minnesota Department of Health, http://www.health.state.mn.us/divs/eh/groundwater/hritable.html, 11/30/2004)
b. Maximum Contaminant Levels (Environmental Protection Agency, http://www.epa.gov/safewater/mcl.html#mcls, 3/8/2005)
c. National Pollutant Discharge Elimination System limits only apply to water discharged from CW-4.
1. Non-petroleum VOC detected
2. Large unidentified peak present in DW-3 and Dup GRO (tentative ID 2-ethyl-1-hexanol).
3. Benzene and 1,2-DCA were not detected between the MDL and PQL unless J flagged
4. Reporting limit for naphthalene was raised due to carryover from a previous sample.
5. Benzene and 1,2 DCA were J-flagged
6. pH of the sample was greater than 2.0
7. Quantitation was performed on a dilution of the sample.
8. Trip-blank was received and analyzed past holding time.

TABLE 4 - NATURAL ATTENUATION DATA
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Sample Location	Date	Temperature (Celsius)	pH	Conductivity (uS/cm3)	ORP (mV)
Influent	07/24/03	15.8	6.74	662	-
Influent	10/28/03	8.4	6.61	711	-
Influent	04/07/04	12.5	7.49	851	135
Influent	08/25/04	12	7.30	681	105
Influent	02/16/05	9.3	7.35	670	272
Effluent	07/24/03	14.5	6.75	648	-2
Effluent	10/28/03	9.3	6.63	715	-
Effluent	04/07/04	11.2	7.78	704	260
Effluent	08/25/04	12.4	7.47	675	115
Effluent	02/16/05	9.2	7.45	644	282
CW-3	07/24/03	14.6	6.7	690	-21
CW-3	10/28/03	8.4	6.63	700	-
CW-3	04/07/04	13.6	7.4	802	25
CW-3	08/25/04	14.6	7.26	743	65
CW-3	02/16/05	10.7	7.49	709	341
CW-4	07/24/03	18	6.68	928	-26
CW-4	08/12/03	17.1	5.52	1151	61
CW-4	09/09/03	20.5	10.98	1430	-
CW-4	10/28/03	9.4	6.7	877	-
CW-4	11/25/03	8.5	7.03	3390	40
CW-4	12/31/03	11.5	7.14	2200	-
CW-4	02/04/04	6.9	7.13	620	63
CW-4	03/02/04	13.1	7.12	1090	90
CW-4	04/07/04	13.3	7.42	875	72
CW-4	05/25/04	11.9	7.23	1046	-30
CW-4	06/17/04	15.1	7.2	905	35
CW-4	07/26/04	14.0	7.36	1276	-70
CW-4	08/25/04	14.0	7.19	963	160
CW-4	09/15/04	15.1	7.27	1283	80
CW-4	12/02/04	10.3	7.25	1195	UR
CW-4	01/18/05	9.8	7.57	982	43
CW-4	02/16/05	13.8	7.36	477	192
CW-4	03/14/05	11.1	7.56	434	210
CW-4	05/27/05	14.9	6.92	897	-
CW-5	10/28/03	10.1	6.73	756	-
CW-5	08/25/04	12.6	7.32	703	160
CW-5	05/27/05	11.9	7.15	341	-
CW-6	10/28/03	10.3	6.69	749	-
CW-6	08/25/04	12.2	7.36	668	125
CW-6	05/27/05	11.6	7.16	782	-
CW-7	10/28/03	10.3	6.87	621	-
CW-7	08/25/04	11.4	7.26	667	125
CW-7	05/27/05	11	7.17	759	-

TABLE 4 - NATURAL ATTENUATION DATA
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Sample Location	Date	Temperature (Celsius)	pH	Conductivity (uS/cm3)	ORP (mV)
CW-8	10/28/03	10.5	6.98	680	-
CW-8	08/25/04	11.6	7.35	642	125
CW-8	05/27/05	10.3	7.32	623	-
DW-3	07/24/03	20.8	6.76	855	-65
DW-3	10/28/03	6.1	7.8	648	20
DW-3	02/04/04	9.1	7.21	488	16
DW-3	04/07/04	12.9	7.39	607	-35
DW-3	08/24/04	16.1	6.86	7.21	-
DW-3	02/16/05	11.3	7.17	662	215
DW-5	07/24/03	21	6.57	1067	-
DW-5	10/29/03	8.7	6.17	737	-70
DW-5	02/04/04	8.2	7.17	504	-32
DW-5	04/07/04	8.5	7.46	739	-30
DW-5	08/24/04	18.2	7.05	802	-
DW-5	02/16/05	12.5	7.20	747	153
DW-6	07/24/03	17.3	6.99	599	-82
DW-6	10/29/03	7.5	6.47	756	-37
DW-6	02/04/04	9.2	7.86	435	-17
DW-6	04/07/04	10	7.62	720	25
DW-6	08/24/04	14.4	7.56	744	95
DW-6	02/16/05	5.3	7.82	665	129
DW-7S	10/28/03	7.1	7.64	647	-
DW-7S	04/07/04	12.8	7.52	674	250
DW-7S	02/16/05	5.0	7.56	716	243
DW-7D	10/28/03	7.7	7.89	215	-
DW-7D	04/07/04	10	7.85	492	15
DW-7D	02/16/05	2.8	7.48	604	242
MW-17	07/24/03	16.6	6.59	1271	-48
MW-17	10/29/03	7.8	6.22	948	-23
MW-17	04/07/04	7.4	7.37	919	10
MW-17	08/24/04	14.2	7.04	1140	-50
MW-17	02/16/05	5.6	7.22	929	135

Notes: uS/cm3 = Conductivity in micro second per cubic centimeter
Redox = Oxidation / reduction potential in millivolts (mV).

TABLE 7 - SOIL VAPOR ANALYTICAL RESULTS
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Sample Location (depth in feet)		Sample Date	Sample Duration	Benzene (ug/m3)	Ethylbenzene (ug/m3)	Toluene (ug/m3)	Total Hydrocarbons as Gas (ug/m3)	1,3,5-Trimethylbenzene (ug/m3)	1,2,4-Trimethylbenzene (ug/m3)	m-& p-Xylene (ug/m3)	o-Xylene (ug/m3)	Method
Soil Vapor Assessment												
VP-1 2' - 0724	1	11/04/04	Grab	**20.5**	18.5	35.2	1,650	<17	<17	<30	<15	TO-15
VP-1 5' - 0633	1	11/04/04	Grab	<11	<15	16.5	<580	<17	<17	<30	<15	TO-15
VP-2 5' - 0145	1	11/04/04	Grab	**24.4**	53	54.4	5,990	<18	<17	**31.8**	<16	TO-15
VP-2 16' - 0501	1	11/04/04	Grab	**34.1**	34.0	105.0	8,290	<17	**44.5**	**75.9**	27.4	TO-15
VP-3 5' - 0561	1	11/04/04	Grab	<750	**1000.0**	**880.0**	72,900	<1100	<1100	<2000	<1000	TO-15
VP-3 19.5' - 0357	1	11/04/04	Grab	<6000	<8100	<7000	16,900,000	<9200	<9000	<16000	<8100	TO-15
VP-4 5' - 0722	1	11/04/04	Grab	**61.4**	39.3	64.4	38,400	<17	**25**	**36.2**	15.9	TO-15
VP-4 14' - 0088	1	11/04/04	Grab	<45	<61	<53	46,900	<69	<68	<120	<61	TO-15
VP-5 5' - 0354	1	11/04/04	Grab	<12	<16	28.0	10,500	<18	**19.5**	**48.1**	<16	TO-15
VP-5 14' - 0007	1	11/04/04	Grab	**15.6**	21.6	69.3	3,290	<18	**63.5**	**79.5**	30.0	TO-15
VP-6 5' - 0324	1	11/04/04	Grab	**23.1**	<16	18.8	4,730	<18	**18.0**	<30	<16	TO-15
VP-6 12' - 0414	1	11/04/04	Grab	**14.6**	19.4	48.7	2,740	<17	**52.0**	**75.9**	27.8	TO-15
VP-7 8.5' - 0741		04/21/05	Grab	<3.2	5.3	8.4	525	<4.9	**12.0**	**21.2**	8.4	TO-15
VP-8 5.5' - 0803		04/21/05	Grab	**66.2**	20.7	56.7	2,010	<4.5	**13.5**	**32.2**	13.2	TO-15
VP-9 5.5' - 0126		04/21/05	Grab	**5.9**	14.6	17.6	677	5.0	**15.5**	**26.9**	11.9	TO-15
VP-10 6.5' - 0566		04/21/05	Grab	**12.7**	30.9	26.8	1,980	15.0	**34.5**	**71.5**	36.2	TO-15
QA/QC Samples												
Method Blank: 25167		11/04/04	-	<0.52	ND	ND	-	ND	ND	ND	ND	TO-15
Method Blank: 81927		04/21/05	-	<0.52	ND	ND	-	ND	ND	ND	ND	TO-15
MDH HRV Acute / *Chronic*	A	-	-	1000 / *1.3 - 4.5*	10000 / *NE*	37000 / *400*	NE	NE	NE	43000t / *NE*	43000t / *NE*	-
EPA Rfc	B			NE	1,000	NE	NE	NE	NE	700t	700t	-
MDH ISC	C	-	-	NE	NE	NE	NE	NE	NE	NE	NE	-
MPCA SV (non-cancer / *cancer*)	D	-	-	*3.1 - 11*	22	400	NE	6	6	700t	700t	-

Notes: Analytical data reported in micrograms per cubic meter (ug/m3).
Results at or below the laboratory reporting limits (RLs) were preceded by the less than symbol (<).
Concentrations at or above the Health Risk Values (MN Pollution Control Agency (MPCA), 03/05/2005, http://www.health.state.mn.us/divs/eh/air/hrvtable.htm) are bolded.
Concentrations above screening levels are in bold.
ND - Non-detect
NE - Not Established
1. Sample diluted during laboratory analysis.
A. MDH Health Risk Value (http://www.health.state.mn.us/divs/eh/air/hrvtable.htm, 3/21/05)
B. EPA Reference concentrations
C. MDH Interim Screening Concentration
D. MPCA Screening Value

TABLE 8 - OTHER NOTABLE SOIL VAPOR ANALYTICAL RESULTS
PAYNESVILLE PUBLIC WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56362
TERRACON PROJECT NO. 41987018

Sample Location (depth in feet)		Sample Date	Sample Duration	Acetone (ug/m3)	1,3-Butadiene (ug/m3)	2-Butanone (MEK) (ug/m3)	Cyclohexane (ug/m3)	4-Ethyltoluene (ug/m3)	Methylene Chloride (ug/m3)	n-Heptane (ug/m3)	n-Hexane (ug/m3)	Propylene (ug/m3)	Tetrahydro-furan (ug/m3)	Method
Soil Vapor Assessment														
VP-1 2' - 0724	1	11/04/04	Grab	54.8	<7.9	20.7	<12	<18	<12	<15	19.7	87.1	<10	TO-15
VP-1 5' - 0633	1	11/04/04	Grab	32.1	<7.9	<11	<12	<18	<12	<15	<13	16.4	<10	TO-15
VP-2 5' - 0145	1	11/04/04	Grab	<9.2	<8.1	<11	<13	<18	<13	37.9	**177**	<6.1	<11	TO-15
VP-2 16' - 0501	1	11/04/04	Grab	280	**99.2**	124	<12	27.5	<12	30.8	**53**	359	40.8	TO-15
VP-3 5' - 0561	1	11/04/04	Grab	<590	<520	<730	<800	<1200	**4,240**	<960	<840	<390[2]	<690	TO-15
VP-3 19.5' - 0357	1	11/04/04	Grab	<4700	<4100	<5800	<6400	<9300	<6500	<7700	<6700	<3100	<5500	TO-15
VP-4 5' - 0722	1	11/04/04	Grab	321	<7.9	121	<12	<18	<12	<15	<13	227	<10	TO-15
VP-4 14' - 0088	1	11/04/04	Grab	128.0	<31	51.0	261	<71	<49	<58	<51	<24[2]	<42	TO-15
VP-5 5' - 0354	1	11/04/04	Grab	133.0	<8.3	42.0	<13	<19	<13	<15	<14	250 [2]	<11	TO-15
VP-5 14' - 0007	1	11/04/04	Grab	161	<8.1	44.7	<13	37	<13	<15	**24**	268	<11	TO-15
VP-6 5' - 0324	1	11/04/04	Grab	46.1	<8.1	15.6	<13	<18	<13	<15	<13	213	<11	TO-15
VP-6 12' - 0414	1	11/04/04	Grab	101	<7.9	37.8	<12	30.5	<12	<15	<13	<5.9[2]	<10	TO-15
VP-7 8.5' - 0741		04/21/05	Grab	4.83	**5.85**	8.99	<3.4	20.5	<3.5	<4.1	<3.6	<6.6	<2.9	TO-15
VP-8 5.5' - 0803		04/21/05	Grab	3.62	**103**	10.5	5.6	13.5	<3.2	15	**26.2**	341	<2.7	TO-15
VP-9 5.5' - 0126		04/21/05	Grab	3.38	**8.77**	8.09	3.85	12	<3	5.42	**7.52**	12.1	<2.6	TO-15
VP-10 6.5' - 0566		04/21/05	Grab	7.49	**21.8**	14.7	25.9	21	<2.6	15	**21.9**	27.8	<2.2	TO-15
QA/QC Samples														
Method Blank: 25167		11/04/04	-	ND	ND	ND	ND	ND	ND	ND	ND	ND [2]	ND	TO-15
Method Blank: 81927		04/21/05	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	TO-15
MDH HRV Acute / *Chronic*	A	-	-	NE / *NE*	0.04 / *NE*	10,000 / *NE*	NE / NE	NE / NE	10,000 / 20	NE / NE	2000 / *NE*	NE / *NE*	NE / *NE*	-
EPA Rfc	B			350	2	5000	6,000	NE	NE	NE	20	NE	NE	-
MDH ISC	C	-	-	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	-

Notes: Analytical data reported in micrograms per cubic meter (ug/m3).
Results at or below the laboratory reporting limits (RLs) were preceded by the less than symbol (<).
Concentrations at or above the Health Risk Values (MN Pollution Control Agency (MPCA), 03/05/2005, http://www.health.state.mn.us/divs/eh/air/hrvtable.htm) are bolded.
Concentrations above screening levels are in bold.
ND - Non-detect above RLs.
NE - Not Established
1. Sample diluted during laboratory analysis.
2. Initial calibration for this compound is outside of method control limits, therefore results is an estimation.

A. MDH Health Risk Value (http://www.health.state.mn.us/divs/eh/air/hrvtable.htm, 3/21/05)
B. EPA Reference concentrations
C. MDH Interim Screening Concentration
D. MPCA Screening Value