PUBLIC WORKS COMMITTEE
CITY HALL CONFERENCE ROOM
AUGUST 14, 2013
5:00 P.M.

AGENDA

I. CALL TO ORDER

II. CONSENT AGENDA
   A. Minutes (page 1)

III. NEW BUSINESS
   A. Mazda Pickup Truck (page 4)

IV. OLD BUSINESS
   A. Water Plant Rehab Project – Update
   B. Wastewater Facility Re-Scoping Project – Update
   C. MPCA Former Mid Town Service Station (page 8)
   D. 2014 Street Improvement Project
   E. Snow Blower (page 37)
   F. Coakley Street Washout

V. INFORMATIONAL

VI. ADJOURN

***** Please call or email Ron at 320-243-3714 ext. 230 or at ron@paynesvillemn.com if you are not able to attend the meeting.*****

Members: Dave Peschong, Donavan Mayer, Melvin Schaefer, Keith Hemmesch, and Matt Quade – or his proxy.
Advisory Members: Chuck DeWolf, Ron Mergen, and Renee Eckerly

This agenda has been prepared to provide information regarding an upcoming meeting of the Paynesville Public Works Committee. This document does not claim to be complete and is subject to change.

BARRIER FREE: All Paynesville Public Works Committee meetings are accessible to the handicapped. Attempts will be made to accommodate any other individual need for special services. Please contact City Hall (320) 243-3714 early so necessary arrangements can be made.

REQUEST FOR COMMITTEE/COUNCIL ACTION

COMMITTEE/COUNCIL NAME: Public Works Committee

Committee/Council Meeting Date: August 14, 2013

Agenda Section: Consent

Originating Department:

Item Number: II - A

ITEM DESCRIPTION: Minutes

Prepared by: Staff

COMMENTS:

Please review the minutes of the July 10, 2013 Public Works Committee meeting.

ADMINISTRATOR COMMENTS:

COMMITTEE/COUNCIL ACTION:

Motion to approve the minutes of the July 10, 2013 Public Works Committee meeting.

MINUTES
PUBLIC WORKS COMMITTEE

JULY 10, 2013

The meeting was called to order by Chairperson Mel Schaefer at 5:00 p.m. Members present were Donavan Mayer, Matt Quade, and Dave Peschong. Keith Hemmesch was absent. Advisory members present were Ron Mergen, Public Works Director; and Chuck DeWolf, Bolton & Menk, Inc.

> **Motion was made by Peschong to approve the minutes from the June 10, 2013 Public Works Committee meeting. Seconded by Quade and unanimously carried.**

PONDS RIP RAP

Two quotes were reviewed:

Voss	$43.75 per ton or $65,625.00
Monson	$53.00 per ton or $79,500.00

A map showing the yearly progression of the pond rip rapping was presented. It was reported that this will be the final year of the project which started in 2008. After a short discussion,

> **Motion was made by Peschong to approve the quote from Voss in the amount of $43.75 per ton and recommend such to the City Council. Seconded by Quade and unanimously carried.**

2014 BUDGET

The 2014 proposed street, snow and ice, street lighting budgets and equipment lists were reviewed. Members noted the major increases and/or deceases. The proposed major increases discussed were street maintenance and repair due to increased cost of patching, street CIP for a possible regional pond and purchase, and future projects. The Equipment CIP was reduced due to the street sweeper purchase was less than had been budgeted for. It was reported that the budgets will also be presented to the Budget and Finance Committee prior to going to the City Council.

SNOW BLOWER

It was reported that there is a need to replace the large snow blower this fall. The usage is not only the downtown area, but at the airport where staff utilizes it to run the entire length of the runway several times a year. Price quotes will be presented at the next meeting.

COAKLEY AVE. WASHOUT

A picture of the washout was presented. The Committee discussed the two catch basin sink holes. The cause of the problems is coming from the property in the Township. It was suggested to meet and discuss a solution with Township officials.

WATER PLANT REHAB

DeWolf presented a water system timeline for improvements. The Water Plant Rehab would create a high pressure zone, elevated storage, booster pump station, and water main improvements. A map was presented with potential booster and tower sites. It was reported that the booster station could be utilized to solve the current issues and be utilized to serve future needs. There was some discussion; however, no action was taken.

WASTE WATER RE-SCOPING PROJECT

DeWolf updated the Committee on the construction and that work is proceeding in all areas of the project.

MPCA – FORMER MIDTOWN SERVICE STATION

MPCA has sent access requests to several property owners asking for monitoring wells to be installed on their private property with no compensation. A meeting is being scheduled with the City Council and MPCA.

HWY. 55 & CO. RD. 181 INTERSECTION

DeWolf reported that the project is complete. Members all agreed that the changes have improved the safety of the intersection.

2014 STREET PROJECT

DeWolf presented three layout options for the old Hwy. 23 rehab portion of the project:

1. Eliminates the center turn lane and creates a boulevard and parking
2. Has the center lane with no boulevard and an 8 foot parking lane
3. Has the center turn lane with no parking and no boulevard

There will be an informational meeting and a public hearing; the County Engineer will likely attend these meetings.

STREET CIP PLAN

The Street CIP was presented to members noting the changes of Lake Ave. and Minnie St. as a 2015 project. The past projects are scheduled to be overlaid every 20 years. If the streets are not overlaid prior to deterioration; it is not cost effective. After a short discussion,

> **Motion was made by Quade to approve the Street CIP Plan and recommend such to the City Council. Seconded by Peschong and unanimously carried.**

There being no further business, the meeting was adjourned at 5:45 p.m.

REQUEST FOR COMMITTEE/COUNCIL ACTION

COMMITTEE/COUNCIL NAME: Public Works Committee

Committee/Council Meeting Date: August 14, 2013

Agenda Section: New Business

Originating Department:

Item Number: III - A

ITEM DESCRIPTION: Mazda Pickup Truck

Prepared by: Staff

COMMENTS:

Ron Mergen will give a verbal report. Due to mechanical failures (engine and transmission) it is no longer cost effective to repair this vehicle. Please review the attached price quotes for a different vehicle.

ADMINISTRATOR COMMENTS:

COMMITTEE/COUNCIL ACTION:

PAYNESVILLE
CHEVROLET - BUICK
KORONIS MOTORS

28601 St. Hwy. 55 • P.O. Box 20
Paynesville, MN 56362

320-243-3716 • 1-800-249-3716 • Fax: 320-243-3717
www.koronismotors.com

CHEVROLET BUICK CERTIFIED PRE-OWNED CHEVROLET BUICK GMC

August 2, 2013

Ron Mergen
Public Works Director
City of Paynesville
221 Washburne Ave
Paynesville MN 56362

Dear Ron,

Thank you for the opportunity to bid the new truck for the City of Paynesville. As of August 2, 2013 there was a 2013 Silverado work truck that matched your bid requirements, with a 4.8 V8 engine above requirements (has to be available at bid letting to honor this bid as 2013 inventory is fast depleting) at an MSRP of $33,020, CK 10753, extended cab 4x4. Your price would be $21,866 plus any applicable sales tax, licenses & transfer fees. (See attached) for the 2013 Silverado work truck that was available as of August 2, 2013.

2014 Silverado product is now available and offers a 4.3 V6 as standard equipment; however, the double cab line up is just becoming available as well as bid assistance. The MSRP on this truck is $33,845, CK10753, Double Cab 4x4. Your price would be $23,947 plus any applicable sales tax, license & transfer fees if assistance amount is available. (See attached) on 2014 order out unit.

As of August 2, 2013 there were no new Chevrolet Colorado compact trucks available in the GM's System.

Todd Lokken
Paynesville Chevrolet – Buick
28601 State Hwy 55, PO Box 55
Paynesville MN 56362

If you would like to trade in the 1998 Mazda B4000 4x4, Extended Cab Pickup with the transmission issues we would allow $1000 off bid price on this unit.
VIN #4F4ZR17X7WTM33853

P.O Box 23
540 West Hwy. 23
Paynesville, MN 56362

YARMON FORD

Ford

Sales Service Bodyshop

Phone: 320-243-4235
1-800-243-4235
Fax: 320-243-4954

July 29th 2013

City of Paynesville
C/O Public Works Department
221 Washburne Ave
Paynesville, MN 56362

2003 Ford Ranger 4x4

FX4 Series

Arizona Beige Exterior

Dark Graphite Cloth Interior

- See attached for complete specifications

$8,900

Price does not include tax/title/license

Jesse Yarmon
Yarmon Ford Inc
(320) 243-4235
jesse@yarmonford.com

6

P.O Box 23
640 West Hwy. 23
Paynesville, MN 56362

YARMON FORD

Ford

Sales Service Bodyshop

Phone: 320-243-4235
1-800-243-4235
Fax: 320-243-4954

July 29th 2013

City of Paynesville
C/O Public Works Department
221 Washburne Ave
Paynesville, MN 56362

2013 Ford F150 Supercab 4x4
XL Series
Oxford White Exterior
Steel Gray Cloth Interior
3.7 V6 FFV
Trailer Tow Package

*See attached sheet for complete specifications

$21,541

Price does not include taxes/title/license
(Price is based on price level 345)

Jesse Yarmon
Yarmon Ford, Inc.
(320) 243-4235
jesse@yarmonford.com

1

Ron Mergen

From: Kania, Lauralin (MPCA) [lauralin.kania@state.mn.us]
Sent: Wednesday, July 31, 2013 8:55 AM
To: Ron Mergen
Subject: RE:

Ron-

Michael Kanner discussed this with the Department of Commerce specifically for this project. Commerce staff reviewed and concluded that doing so would require a rule change.

Our contractor, Terracon, again requested access from the private property owners to no avail. The MCPA c/o Michael Kanner will be sending the City a letter requesting access once more.

Laurie

From: Ron Mergen [Ron@paynesvillemn.com]
Sent: Wednesday, July 31, 2013 7:56 AM
To: Kania, Lauralin (MPCA)
Cc: Renee Eckerly
Subject: RE:

Laurie

For the remaining proposed monitoring wells are you going to be offering the home owners some monetary compensation in order to get them installed, thanks Ron

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From: Kania, Lauralin (MPCA) [mailto:lauralin.kania@state.mn.us]
Sent: Tuesday, July 30, 2013 2:52 PM
To: Ron Mergen
Subject:

Ron-

We have made no plans for a meeting. Attached is the scope of work that we intend to complete through November. It includes completing additional groundwater monitoring wells on the site where we have access, and restoration of the site. An Annual Monitoring Report will be available by October 1 and it will include recommendations for additional work through July 1, 2014. In the meantime Terracon will be sending you the most recent data to keep you informed.

Laurie Kania

6

Terracon

July 18, 2013

Sent via email

Minnesota Pollution Control Agency
Remediation Division - Petroleum Remediation Program
525 South Lake Avenue, Suite 400
Duluth, Minnesota 55802

Attention: Ms. Laurie Kania
Ph: (218) 302-6639; Fax: (218) 723-4727
Email: lauralin.kania@pca.state.mn.us

Regarding: Additional Site Assessment and Operation / Maintenance Work Plan
Paynesville Municipal Water Supply / Former Midtown Service Station
400 Lake Avenue South
Paynesville, Minnesota 56362
Terracon Project No. 41987018 / Proposal No. P41130255A
MPCA Site ID #: R32PJXLS0000131

INTRODUCTION

Terracon Consultants, Inc. (Terracon) is pleased to present this Work Plan for performing continued remedial system operation / maintenance activities and additional site assessment activities at the above referenced Site during the period July 2013 through November 2013. The additional site assessment activities will involve installing additional monitoring wells on and near the former Midtown Service Station property, performing a quarterly groundwater sampling event and preparing an annual monitoring report. The proposed scope of services is in general accordance with that discussed during our telephone conversation on June 27, 2013 and telephone conversation with Mr. Paul Stock on July 16 and 17, 2013.

CONFLICT OF INTEREST

To the best of Terracon's knowledge and belief, no conflict of interest would be created by our performance of services for the MPCA at this site. To the best of our knowledge, no relationship exists between Terracon, its parent company, affiliates, subcontractors and subsidiaries, or any potentially responsible party involved with this site.

SCOPE OF SERVICES

This Work Plan proposes performing quarterly operation / maintenance (O/M) activities associated with the continued operation and sampling of the City Well CW-4 to contain the dissolved phase petroleum plume; conducting a quarterly groundwater monitoring event; and additional site assessment activities focused on installing fixed monitoring points on the former Midtown Service Station property within the light non-aqueous phase liquid (LNAPL) body and at one off-site location. Specifically, Terracon proposes the following:

Tasks 2 to 5 – Additional Assessment, Groundwater Monitoring and CW-4 Operation / Maintenance

Access Agreements and Health and Safety Plan

Access agreements already exist between the MPCA and various property owners and the City of

9

Paynesville where monitoring wells are currently located. The MPCA has purchased the Site property therefore can sign as the property owner on the monitoring well permit applications. The MPCA has a signed access agreement and well permit for installing a monitoring well near the northeast corner of 154 Mill Street. This Work Plan includes limited funds for supporting MPCA efforts to obtain off-site access and well permits to install monitoring wells at several off-site locations.

This Work Plan assumes that Level D safety precautions are adequate. The health and safety plan developed by Terracon for prior field activities will be used for this phase of the project. The cost estimate will be increased accordingly should site conditions warrant Level D modified or more stringent health and safety procedures.

Additional Assessment Activities

Public utilities shall be cleared prior to the initiation of field activities using Gopher-State-One-Call. The locations of the monitoring wells may be limited because of the lack of information and/or the presence of utilities.

Terracon will subcontract a qualified drilling firm to install up to four near water table monitoring wells, one intermediate depth monitoring well and one deep monitoring well. The soil boring for the deep monitoring well will be advanced using a rota-sonic drilling method and is anticipated to have a maximum depth of 100-feet. The soil boring for the intermediate monitoring well will be installed using a rota-sonic drilling method or hollow stem auger drilling method and is anticipated to have a maximum depth of 75-feet. The soil borings for the near water table monitoring wells will be advanced using a rota-sonic drilling method or hollow stem auger drilling method and are anticipated to have a maximum depth of 35-feet. The proposed monitoring well locations are as follows and are shown on the attached maps:

- A monitoring well cluster consisting of deep, intermediate and near water table monitoring wells will be installed near the southwest corner of the former Midtown Service Station. The deep well will be completed in the lower sand unit basal gravel subunit, if present, to provide a fixed monitoring point to be used to evaluate the vertical extent of the dissolved phase petroleum plume and the capture zone of City Well CW-4. A intermediate well will be completed in the lower sand unit upper fine-grained subunit, if present, to provide a fixed monitoring point to be used to evaluate the vertical extent of the dissolved phase petroleum plume and the capture zone of City Well CW-4. The near water table monitoring well will be complete in the upper sand unit, north of the deep and intermediate wells to provide a fixed monitoring point near the southwest edge of the LNAPL body.
- A near water table monitoring well completed in the upper sand unit will be installed approximately 50-feet south of monitoring well MW-28 and 50-feet west of monitoring well MW-30 to provide a fixed monitoring point near the south edge of the LNAPL body.
- A near water table monitoring well completed in the upper sand unit will be installed between approximately 20-feet south of monitoring well MW-1 and 15-feet west of monitoring well MW-18 to provide a fixed monitoring point west of the area where mobile LNAPL is currently being observed.
- A near water table monitoring well completed in the upper sand unit will be installed near the

10

northeast corner of the property at 154 Mill Street to provide a fixed monitoring point to monitor the dissolved phase petroleum plume down-gradient of the Site.

The actual well locations will be approved by MPCA staff and may need to be adjusted based upon the location of utilities, accessibility, data collected from the soil borings and discussions with MPCA staff. Subcontracting activities are described in Task S. Continuous soil samples will be collected from the soil borings using a core barrel (rota-sonic) or split barrel sampler (hollow stem auger). Based upon field conditions the sampling intervals may be adjusted at the discretion of our field scientist.

Terracon will screen soil samples recovered from each soil boring in the field for the presence of organic vapors using a photo-ionization detector (PID) equipped with a 10.6 eV lamp. Select soil samples may be collected from the soil borings for laboratory analysis to characterize the subsurface and provide data for the off-site disposal of the soil. The soil analyses are anticipated to include: benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), gasoline range organics (GRO), diesel range organics (DRO), total lead, lead by the toxic characteristic leaching procedure (TCLP) and volatile organic compounds (VOCs) by TCLP. The soil sampling strategy is summarized in the table below.

Soil Chemical and Physical Analyses – Monitoring Wells

Location	Samples	Depth	Parameter	Method	Container / Pres.
New MWs	-	0-100 ft	USCS (field)	ASTM D2487	None
New MWs	-	0-100 ft	Field Logging (field)	ASTM D5434	None
New MWs	-	0-100 ft	Moisture Content (field)	ASTM D2216/D4643	None
New MWs	-	0-100 ft	Density (field)	ASTM D4292/D2937	None
New MWs	-	0-100 ft	Soil Organic Vapor	MPCA	Ziplock Bag
New MWs	8	0-100 ft [1]	BTEX/MTBE/GRO	EPA 8021/WI GRO	2G-40 ml w/ 10g + MeOH
	5		DRO	WI DRO	2G-4 oz w/ 25g
	8		Soil Moist. Content	EPA 160.3	1P-Moisture Cup
	1	Cuttings	Total Lead [2]	EPA 6010	1G-4 oz
	1		Lead TCLP [2]	EPA 1311/6010	2G-4 oz
	1		VOCs TCLP [2]	EPA 1311/8260	2G-4 oz
Trip Blanks	1	-	BTEX/MTBE/GRO	EPA 8021/WI GRO	1G-40 ml MeOH

[1] – Soil samples based upon high PID reading.
[2] – Composite soil sample.

The near water table monitoring wells will be constructed with 2-inch diameter flush threaded Schedule 40 PVC well casing instrumented with a 10-foot length of continuous #10 slot Schedule 40 PVC well screen unless the stratigraphy requirements of the use of a shorter screen. The top of screen set at the top of the upper sand unit or portion of the unit with a high hydraulic conductivity. A filter pack sized for a #10 slot screen (#10 Red Flint) will be installed in the borehole annular space to approximately 1-foot above the top of the screen and remainder of the annular space will be filled with 2-feet of bentonite seal and then bentonite grout to the surface. The intermediate depth monitoring wells will be constructed with 2-inch diameter black steel well casing instrumented with a 5-foot length of wire wrapped #10 slot stainless well screens with the top of screen set near the top of the lower sand unit. The deep monitoring wells will be constructed with 2-inch diameter black steel well casing instrumented with a 5-foot length of wire wrapped #10 slot stainless well screens with the screen set within the basal gravel zone of the

lower sand unit. For the intermediate and deep monitoring wells a filter pack sized for a #10 slot screen (#10 Red Flint) will be installed in the borehole annular space to approximately 2-feet above the top of the screen and then a finer filler sand will be placed to approximately 3-foot above the top of the screen. The remainder of the annular space will be filled with 2-feet of bentonite seal and then bentonite grout to the surface. The monitoring wells in green areas will be completed with 6-inch diameter steel protops with locking covers. The monitoring wells in drive areas will be completed as at-grade wells with locking expansion caps. The monitoring wells will be developed by the drilling subcontractor using a surge block followed by pumping until the water is clear, no longer improves, or for a maximum of one hour. In addition, existing monitoring wells MW-27, MW-28, MW-29 and MW-30 will be redeveloped with a surge block followed by pumping until the water is clear, no longer improves, or for a maximum of one hour.

The ground surface and top of well casing elevations for each of the monitoring wells will be measured to the Site datum.

Downhole tools will be cleaned using a high-pressure hot water wash prior to mobilization to the site. Decontamination activities will consist of washing the down-hole equipment with an Alconox and water solution, and rinsing with potable water. This Work Plan assumes that cleaning fluids, purging fluids and soil cuttings will be thin spread on or near the site. This Work Plan assumes that drill cuttings from borings advanced on or near the Midtown property may need to be containerized for off-site disposal as there is limited space on site for thin-spreading the soil cuttings. This Work Plan includes funds for off-site disposal of soil cuttings in Task S.

After the monitoring wells have been installed and developed, the subcontractor will spread approximately 2-inch of black dirt on the non-paved portion of the former Midtown Service Station property and then apply starter fertilizer and grass seed. It is anticipated than a degradable landscaping fabric and silt fencing will be needed on much of the Site to reduce the potential for run-off. The goal will be to apply the seed during September 2013 in anticipation that fall rains will aid in the growth of the grass.

CW-4 Operation / Maintenance

Terracon will coordinate the operation of City Well CW-4 with the assistance of the City of Paynesville in an effort to contain the dissolved phase petroleum plume. Coordination activities will include quarterly monitoring of fluid levels in piezometer PZ-1; documenting the pumping rate and total gallons pumped; periodic adjustment of the pumping rate and maintenance activities; NPDES permitting requirements; and submission of data to MPCA Staff and the City of Paynesville. The groundwater pumping rate will be adjusted, when necessary, in order to maximize the efficiency of the system and to establish an extraction rate that limits migration of the dissolved phase petroleum plume in the direction of City Well CW-4 to the north, or monitoring wells DW-3R, DW-7S, DW-7D, MW-8, DW-9 and City Wells CW-5 through CW-7 to the east. This Work Plan includes funds for two site visits to sample City Well CW-4 and provide oversight during maintenance work on City Well CW-4. This Work Plan includes limited funds in Task S for subcontractor maintenance activities on City Well CW-4.

Groundwater Monitoring Activities

Terracon will collect quarterly groundwater samples from City Well CW-4 per the requirements of the NPDES Permit on two occasions. The samples will be analyzed for the presence of the

12

Minnesota Department of Health (MDH) list of VOCs using EPA Method 8260. Terracon will request that the laboratory report benzene and 1,2-dichloroethane concentrations to the method detection limits (J-Flag). This sampling schedule should be adjusted to monthly if the dissolved phase petroleum plume appears to become unstable. The sampling frequency of the City Wells may be adjusted based on the apparent stability of the dissolve phase petroleum plume.

Summary of Potable Well Sampling Plan

Well	Scheduled	Frequency	Analyses	Containers / Pres.
Influent	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
Effluent	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
CW-3	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
CW-4	**Yes**	**Quarterly**	**VOCs-8260 [1]**	**3-40ml vials w/ HCl**
CW-5	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
CW-6	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
CW-7	No	Semi-Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
CW-8	No	Annual	VOCs-8260 [1]	3-40ml vials w/ HCl
Duplicate	-	-	VOCs-8260 [1]	3-40ml vials w/ HCl
Trip Blank	**Yes**	**Quarterly**	**VOCs-8260 [1]**	**3-40ml vials w/ HCl**
[1] = report benzene and 1,2-DCA results to the method detection limit (J-Flag)				

Terracon will collect quarterly fluid level data from wells MW-1, MW-18, MW-26, MW-27, MW-28, MW-29, MW-30, DPE-1, DPE-2 and the new monitoring wells which are located within the LNAPL source area to assess for the presence of LNAPL on two occasions. If a recoverable amount of LNAPL is encountered, a product recharge test(s) will be performed consistent with MPCA Guidance Document 2-02a. Terracon will also measure the specific gravity of the recovered LNAPL in the field using a hydrometer. Historical fluid data from the site indicates that only monitoring wells MW-1 and MW-18 have contained recoverable amounts of LNAPL. The product recharge tests will involve the removal of LNAPL from the monitoring wells followed by monitoring the rate of LNAPL accumulation (i.e., recharge) in wells over a period of time. To minimize groundwater extracted and maximize product removal, the method of removing the product from the wells tested will involve pumping the product using disposable polyethylene tubing with a peristaltic pump. Prior to and during the product removal work, the thickness of the LNAPL will be measured using an electronic product / water interface probe. The measurement time, start time and stop time will be recorded for the product removal work. In addition, the volume of product removed will be estimated based on measuring the total volume removed. Once the product has been removed so that the remaining product thickness is less than 0.05 feet, product removal will stop and then product recharge will be monitored. Product recharge will be monitored by measuring the depth to product and the depth to water at one minute intervals. If the product recovery rate is slow (i.e., less than 0.1-feet per minute) then monitoring intervals will be modified accordingly. The monitoring will continue until the LNAPL recharges to pre-removal levels, a maximum of 24 hours or until work associated with the Site visit has been completed. The product recharge test will be repeated once the product has recovered to pre-removal levels, after 24 hours or if recoverable volume of LNAPL is again present in the well during a later Site visit. This Work Plan assumes that LNAPL recovery tests will be performed on two monitoring wells during the monitoring installation and sampling activities planned for August 2013 and during the sampling event planned for October 2013. This Work Plan includes limited funds for the disposal

13

of LNAPL in Task S.

Terracon will collect quarterly fluid level data on one occasion from wells DW-1, DW-2, DW-3R, DW-4, DW-5, DW-6, DW-7S, DW-7D, DW-8S, DW-8, DW-9, DW-10A/B/C and CMW-43; Midtown wells MW-1, MW-10, MW-10D, MW-14, MW-14D, MW-15, MW-16, MW-17, MW-18, MW-19, MW-26, MW-27, MW-28, MW-29, MW-30, DPE-1 and DPE-2, and; Johnson Motors monitoring wells JMMW-4 and JMMW-5; piezometer PZ-1; and six new monitoring wells.

Terracon will collect quarterly groundwater samples from DW-8, DW-9, DW-10A/B/C and six new monitoring wells on one occasion. Monitoring wells containing measureable LNAPL will not be sampled. The samples from monitoring wells DW-8 and DW-9, will be analyzed for BTEX, MTBE and GRO. The samples from monitoring wells DW-10A/B/C and the new monitoring wells, will be analyzed for VOCs and GRO. A duplicate sample will be analyzed for BTEX, MTBE and GRO during each sampling event. A pump blank and trip blank will be analyzed for VOCs and GRO during each sampling event.

Summary of Monitoring Well Sampling Plan

Well	Method	Depth	8/13	11/13	Analyses	Containers / Pres.
DW-3R	RediFlo 2	90	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-5	RediFlo 2	67	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-6	Bailer	45	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-7S	Bailer	35	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-7D	RediFlo 2	95	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-8S	RediFlo 2	35	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-8	RediFlo 2	90	X	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-9	Bailer	31.5	X	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-10A	Bailer	30	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-10B	RediFlo 2	60	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-10C	RediFlo 2	90	X	-	VOC/GRO	6-40ml vials w/ HCl
MW-14	Bailer	25	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-14D	RediFlo 2	90	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-16	Bailer	25	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-17	RediFlo 2	62	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-1	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-18	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-19	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-26	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-27	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-28	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-29	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
MW-30	Bailer	30	-	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
DW-new	RediFlo 2	90	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-new	RediFlo 2	65	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-new	Bailer	35	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-new	Bailer	35	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-new	Bailer	35	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-new	Bailer	35	X	-	VOC/GRO	6-40ml vials w/ HCl
DW-9 (dup)	-	-	X	-	BTEX/MTBE/GRO	3-40ml vials w/ HCl
Pump Blank	-	-	X	-	VOCs/GRO	6-40ml vials w/ HCl
Trip Blank	-	-	X	-	VOCs/GRO	3-40ml vials w/ HCl

14

Task R – Reporting

Terracon will prepare an Annual Monitoring Report during September/October 2013 documenting the results of the LIF/EC probes advanced during 2012, monitoring well installation activities, and groundwater monitoring and product recharge testing activities completed since our last report. The annual report will fulfill the requirements of MPCA Guidance Document 4-08. The report will include the results of remediation system operation and maintenance activities, groundwater quality data, fluid level data, groundwater contour maps illustrating the apparent capture zone, groundwater contour maps for the source area including well MW-15, plots of fluid level and groundwater quality data, operation/maintenance log for the plume containment system including up/down time, nominal and average flow rates, updated site conceptual model and recommendations for additional actions, if warranted. The report will also include site maps, tables, methods, boring logs and well construction records, sampling forms and laboratory analytical reports.

Task S – Subcontractor Costs

Terracon will perform subcontract coordination and / or bidding activities as required consistent with the requirements in the Multi Site Contract. Terracon will subcontract firms with State Contracts, if possible. If firms with State Contracts cannot perform the needed service or are unable to meet the project schedule, Terracon will solicit bids from firms qualified to perform the needed service consistent with the requirements in the most recent version of the MPCA *Contractor and Subcontracting Purchasing Manual.*

This Work Plan includes funds for costs associated with laboratory analyses. Samples will be analyzed by a Minnesota Department of Health certified State Contract Laboratory. The samples will be analyzed using the methods described above. This Work Plan also includes funds for costs associated with the maintenance on City Well CW-4 ($4,000), drilling subcontractor ($34,000), landscaping subcontractor ($6,000), and disposal of soil cuttings and LNAPL ($2,500). Additional unplanned activities such as services of an electrician, mechanical contractor or other subcontractors may also be required.

SCHEDULE

We anticipate initiation of this project within five working days of receipt of written authorization to proceed. The project schedule is summarized in the table below. The actual schedule may be influenced by our ability to obtain access and the availability of the various contractors and equipment. Terracon will keep MPCA apprised of our schedule. Terracon will schedule field activities in coordination with other projects in central Minnesota to reduce costs, when practical.

Time Line	Task
August 2013	Task 2 – O/M including sampling CW-4, monitoring well permitting and specifications, monitoring well installation, quarterly groundwater sampling, product recharge testing and annual report preparation.
September 2013	Task 3 – O/M, landscaping and annual report preparation
October 2013	Task 4 – O/M.
November 2013	Task 5 – O/M including sampling CW-4 and product recharge testing

STAFF ASSIGNED TO PROJECT

The assigned staff persons are listed in the table below. Two alternate project managers are listed to ensure appropriate staff is able to promptly review reports and provide senior level oversight. See previously submitted proposal and resumes for experience and job descriptions.

Terracon Staff	Job Classification
David J. Wolfgram, P.E.**	Project Manager / Engineer III
William J. Breitzman, P.S.S.**	Project Manager
David Svingen **	Project Manager
Mike Hagemeister**	Project Manager / Engineer III
Paul J. Wiese, P.G.*	Project Manager
Brett Staeden, P.E.	Project Manager / Engineer III
Jennifer Shepard*	Project Manager / Scientist II
Jerry Hentges	Groundwater Modeler (Scientist III)
Various	Engineer I/II, Scientist I/II
Various	Technician I/II
Various	CADD Specialist
*Primary Project Team, **Alternate Project Manager(s)	

COST ESTIMATE

The cost estimate for the proposed scope of services is **$81,041.42** to be invoiced at the rates in Terracon's current Multi-Site Contract with the MPCA. An itemized breakdown of this cost estimate is provided on the attached spreadsheet.

Terracon will contact the MPCA for authorization prior to expanding the scope of services described herein. These costs will be invoiced based on the actual units of work performed using the rates in Terracon's current contract.

GENERAL CONDITIONS

It is the responsibility of the MPCA to provide any known information pertaining to known restrictions or special requirements regarding this site. This information should be submitted to Terracon prior to the initiation of the field activities.

Terracon appreciates the opportunity to submit this Work Plan and we look forward to our working together on this project. If you have questions or require additional information, please contact our office at 651-770-1500.

Sincerely,
TERRACON CONSULTANTS, INC.

Paul J. Wiese, P.G.
Senior Project Manager

David J. Wolfgram, P.E.
Principal

PJW/DJW:pjw \\wbl1\data\projects\1998\41987018\pro-budget-inv-subcon\proposals\p41130255proasa-o&m fy14.docx

16

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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											
DW-1	*G	03/05/98	<1	<1	<1	<3	<5	<5	<1	-	-
DW-1		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
DW-1	*G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
DW-1		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
DW-2	G	03/06/98	<1	<1	<1	<3	<5	<5	**20**	-	-
DW-2		03/25/98	<0.30	<0.30	<0.50	<0.80	<1.0	<0.40	<0.50	-	-
DW-2	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
DW-2		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
DW-3	G	03/16/98	<1	<1	<1	<3	<5	<5	<1	-	-
DW-3		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
DW-3	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
DW-3		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
DW-3		09/22/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
DW-3		12/09/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
DW-3		04/20/00	<1.0	**2.2**	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		07/27/00	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
DW-3		10/20/00	**4.9**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		01/16/01	<1.0	**4.4**	<1.0	**3.0**	<5.0	-	-	<100	-
DW-3	2	04/12/01	<1.0	**6.1**	<1.0	<3.0	<5.0	-	-	**400**	-
DW-3		08/13/01	**17**	<1.0	<1.0	<3.0	<5.0	<5.0	<5.0	<100	-
DW-3		10/09/01	**25**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3	0	11/19/01	**24**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		01/29/02	**8.8**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		08/19/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		01/17/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/04/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		02/04/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		11/02/05	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-3		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-3		05/05/06	Abandoned								
DW-3R		05/03/07	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
DW-3R		09/25/07	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<50	-
DW-3R		02/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50	-
DW-3R		11/12/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		02/12/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		08/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		02/03/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		10/29/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		03/03/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		09/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		03/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		08/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3R		06/11/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-

17

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PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
DW-4	G	03/16/98	<1	<1	<1	<3	<5	<5	<1	-	-
DW-4		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
DW-4	G	06/13/98	<1	<1	<1	<3	-	<5	<1	-	-
DW-4		06/13/98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
DW-5		12/24/98	1,600	81	64	41	<5.0	-	-	2,800	-
DW-5		12/30/98	1,300	47	51	41	44	-	-	1,700	-
DW-5		01/25/99	600	28	41	41	5.4	-	-	1,100	-
DW-5		02/18/99	400	13	25	<5.0	<25	-	-	550	-
DW-5		03/17/99	380	13	22	17	<5.0	-	-	610	-
DW-5		04/22/99	240	<1.0	13	18	<5.0	-	-	590	-
DW-5		05/21/99	160	8.7	14	13	<1.0	-	5.8	-	-
DW-5		06/24/99	170	6.2	9.9	8.9	<5.0	-	-	280	-
DW-5		07/19/99	170	5.7	11	11	<5.0	-	-	300	-
DW-5		08/23/99	160	6.2	12	8.9	5.3	-	-	280	-
DW-5		09/22/99	170	5.7	11	8.6	<5.0	-	-	280	-
DW-5		10/25/99	160	5.6	12	10	<5.0	-	-	260	-
DW-5		11/24/99	150	5.8	11	10	5.2	-	-	250	-
DW-5		12/09/99	140	5.7	12	9.7	<5.0	-	-	230	-
DW-5		01/13/00	140	10	12	15	<130	-	-	290	-
DW-5		02/17/00	150	5.5	12	11	<5.0	-	-	270	-
DW-5		03/13/00	140	4.3	11	9	<5.0	-	-	220	-
DW-5		04/20/00	140	8	11	13	6.7	-	-	320	-
DW-5		05/23/00	96	3.6	8.2	7.8	<5.0	-	-	180	-
DW-5		06/17/00	150	4.9	11	10	<5.0	-	-	270	-
DW-5		07/27/00	130	4	9.2	9.8	<5.0	-	-	210	-
DW-5		10/20/00	57	2.1	5.5	6	<5.0	-	-	120	-
DW-5		01/16/01	79	3.3	7.7	9.9	<5.0	-	-	170	-
DW-5		04/12/01	44	<1.0	6	9.2	<5.0	-	-	130	-
DW-5		08/13/01	68	1.3	8	9	<5.0	-	-	190	-
DW-5		10/09/01	81	1.9	9.7	7.9	<5.0	-	-	180	-
DW-5		01/29/02	7	<1.0	1.3	<3.0	<5.0	-	-	<100	-
DW-5		04/16/02	98	1.6	16	12	<5.0	-	-	260	-
DW-5		11/05/02	110	<1.0	5.3	7.1	<5.0	-	-	170	-
DW-5		01/16/03	230	<1.0	9	10	<5.0	-	-	310	-
DW-5		04/04/03	350	1.2	20	20	<5.0	-	-	530	-
DW-5		07/24/03	280	1.1	29	16	6.0	-	-	670	-
DW-5		10/28/03	470	1.3	20	11	<5.0	-	-	610	-
DW-5		02/04/04	470	<1.0	25	18	<5.0	-	-	650	-
DW-5		04/07/04	400	1.3	30	25	<5.0	-	-	630	-
DW-5		08/24/04	230	<1.0	10	18	<5.0	-	-	510	-
DW-5		02/16/05	180	2.1	31	39	<5.0	-	-	400	-
DW-5		11/03/05	160	2.3	30	25	<1.0	-	-	350	-
DW-5		05/04/06	180	1.5	32	32	1.3	-	-	440	-
DW-5	5	12/14/06	74	<1.0	42	19	1.6	-	-	260	-
DW-5	5	03/20/07	64	<1.0	55	19	1.8	-	-	280	-
DW-5	6	09/25/07	100	2.3	43	29	<1.0	-	-	410	-
DW-5	6	02/12/08	79	<1.0	32	28	<1.0	-	-	270	-
DW-5		11/10/08	12.3	<1.0	12.5	7.5	<5.0	-	-	<100	-
DW-5		02/11/09	58.8	<1.0	11.5	16.8	<5.0	-	-	186	-
DW-5		08/11/09	18.4	<1.0	15.3	14.9	<5.0	-	-	<100	-
DW-5		02/04/10	36.1	<1.0	24.4	6.9	<5.0	-	-	<100	-
DW-5		10/28/10	51.5	1.6	14.9	15.6	<5.0	-	-	161	-
DW-5		03/03/11	20.4	<1.0	22.1	23.1	<5.0	-	-	162	-

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
DW-5		09/15/11	Not sampled due to pump not functioning								
DW-5		03/21/12	2.7	<1.0	22.4	12.0	<5.0	-	-	<100	-
DW-5		08/21/12	20.5	<1.0	10.3	<3.0	<5.0	-	-	<100	-
DW-5		06/11/13	1.9	<1.0	14.9	10.1	<5.0	-	-	102	-
DW-6	G	08/20/98	330	<100	<100	<300	-	<500	<100	-	-
DW-6		04/05/99	140	3.9	29	17.4	-	-	-	720	150
DW-6		06/21/99	120	2.1	25	14	-	-	-	660	100
DW-6		09/22/99	99	1.4	16	9.3	10	-	-	400	-
DW-6		12/09/99	64	5.3	20	29	20	-	-	570	-
DW-6		04/20/00	170	1.6	9.8	24	13	-	-	760	-
DW-6		07/27/00	51	1.6	9.8	13	<5.0	-	-	260	-
DW-6		10/20/00	40	<1.0	10	7.3	6.2	-	-	370	-
DW-6		01/16/01	93	1.5	5.0	17	5.1	-	-	420	-
DW-6		04/12/01	86	<1.0	2.8	15	7.7	-	-	290	-
DW-6		08/13/01	110	<1.0	3.2	16	6.6	-	-	300	-
DW-6		10/09/01	50	<1.0	3.5	4.2	<5.0	-	-	180	-
DW-6		01/29/02	120	1.1	7.0	21	5.6	-	-	340	-
DW-6		04/16/02	93	<1.0	4.7	19	5.8	-	-	290	-
DW-6		08/19/02	160	1.1	2.7	16	5.1	-	-	360	-
DW-6		11/05/02	130	<1.0	2.1	17	<5.0	-	-	290	-
DW-6		01/17/03	76	<1.0	2.4	7.8	<5.0	-	-	180	-
DW-6		04/04/03	23	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		07/24/03	17	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		10/28/03	48	<1.0	1.7	5.3	<5.0	-	-	150	-
DW-6		02/04/04	45	<1.0	1.8	<3.0	<5.0	-	-	120	-
DW-6		04/07/04	32	<1.0	<1.0	<3.0	<5.0	-	-	130	-
DW-6		08/24/04	29	<1.0	1.6	<3.0	<5.0	-	-	140	-
DW-6		02/16/05	33	<1.0	2.4	<3.0	5.3	-	-	170	-
DW-6		11/03/05	26	<1.0	<1.0	<3.0	<1.0	-	-	63	-
DW-6		05/04/06	27	<1.0	1.7	<3.0	<1.0	-	-	71	-
DW-6		12/01/06	22	<0.36	2.5	2.7	1.2	-	-	80	-
DW-6	5	03/20/07	24	<1.0	2.8	2.4	1.1	-	-	100	-
DW-6		09/25/07	16	<1.0	1.5	<3.0	<1.0	-	-	<50	-
DW-6		02/13/08	11	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-6		11/11/08	8.5	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		02/11/09	10	<1.0	1.0	<3.0	<5.0	-	-	<100	-
DW-6		08/11/09	6.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		02/04/10	6.6	<1.0	1.1	<3.0	<5.0	-	-	<100	-
DW-6		10/28/10	8.3	<1.0	1.2	<3.0	<5.0	-	-	<100	-
DW-6		03/03/11	5.9	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		09/15/11	5.7	<1.0	1.1	<3.0	<5.0	-	-	<100	-
DW-6		03/21/12	9.3	<1.0	1.8	<3.0	<5.0	-	-	<100	-
DW-6		08/21/12	4.7	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		06/11/13	5.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
DW-7S	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
DW-7S		10/09/01	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		01/29/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		04/03/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
DW-7S		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		11/02/05	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7S		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7S		11/30/06	<0.14	<0.36	<0.40	<1.1	<0.36	-	-	<26	-
DW-7S		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7S		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7S		11/11/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		08/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		10/29/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		03/03/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		09/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7S		08/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
DW-7D	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
DW-7D		10/09/01	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		01/29/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		04/03/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		11/02/05	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7D		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7D		11/30/06	<0.14	<0.36	<0.40	<1.1	<0.36	-	-	<26	-
DW-7D		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7D		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-7D		11/11/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		08/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		10/29/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		03/03/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		09/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-7D		08/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		05/03/07	**7.6**	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
DW-8		09/25/07	**3.1**	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<50	-
DW-8		02/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
DW-8		11/11/08	**2.0**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		02/12/09	**1.2**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		08/11/09	**6.3**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		02/04/10	**9.4**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		10/29/10	**9.4**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		03/03/11	**8.5**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		09/15/11	**9.5**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		03/21/12	**14.0**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		08/22/12	**16.5**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		11/05/12	**13.5**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		04/09/13	**8.7**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8		06/11/13	**10.1**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		12/29/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	-
DW-8S	3	02/12/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	-

20

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
DW-8S		02/12/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		08/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		02/04/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		10/29/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		03/03/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		09/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		03/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		08/22/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-8S		06/11/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-9	*, 1	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
DW-9	1, 5	09/25/07	1,000	93	150	61	<25	<120	<25	3,000	-
DW-9	5	02/13/08	1,200	<10	200	<30	<10	-	-	4,300	-
DW-9		11/11/08	797	21.6	335	5.4	<5.0	-	-	3,730	-
DW-9		02/12/09	1,330	<5.0	256	<15.0	<25.0	-	-	3,920	-
DW-9		08/11/09	5.2	<1.0	6.9	<3.0	16.4	-	-	1,430	-
DW-9		02/04/10	1,690	<5.0	144	<15.0	<25.0	-	-	3,980	-
DW-9		10/28/10	924	<5.0	169	<15.0	<25.0	-	-	3,040	-
DW-9		03/04/11	<1.0	1.1	38.5	3.9	23.2	-	-	2,610	-
DW-9		09/16/11	7.9	<1.0	<1.0	<3.0	<5.0	-	-	318	-
DW-9		03/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-9		08/22/12	4.1	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-9		11/05/12	1,340	193	359	218.2	5.9	-	-	4,240	-
DW-9		04/09/13	1,530	<5.0	273	18.4	42.0	-	-	4,930	-
DW-9		06/11/13	563	<5.0	163	<15.0	38.2	-	-	2,840	-
DW-10A		08/22/12	<1.0	<1.0	16.5	8.2	<1.0	<4.0	<1.0	1,290	-
DW-10A		11/05/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	676	-
DW-10A		04/09/13	<1.0	<1.0	<1.0	<3.0	29.4	-	-	644	-
DW-10A		06/11/13	<1.0	1.1	1.2	<3.0	26.6	-	-	597	-
DW-10B		08/22/12	31.2	11.0	129	25.9	<1.0	<4.0	<1.0	706	-
DW-10B		11/05/12	32.9	14.3	115	9.2	<1.0	<4.0	<1.0	797	-
DW-10B		04/09/13	27.5	9.1	110	6.6	15.4	-	-	811	-
DW-10B		06/12/13	35.3	21.7	139	23.8	23.5	-	-	1,340	-
DW-10C		08/22/12	5.5	3.3	2.1	<3.0	<1.0	<4.0	<1.0	<100	-
DW-10C		11/05/12	6.9	1.0	1.7	<3.0	<1.0	<4.0	1.4	<100	-
DW-10C		04/09/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-10C		06/12/13	29.3	4.0	6.5	<3.0	<5.0	-	-	126	-
BEI-MW-2		03/25/98	<0.30	0.61	<0.50	<1.2	<1.0	<0.40	<0.50	-	170
MW-1		7/17/91	4,000	8,800	2,000	9,600	2,700	-	-	50,000	73,000
MW-1		8/13/91	3,800	8,700	2,200	8,900	11,000	-	-	87,000	-
MW-1		1/13/92	5,100	8,400	2,700	6,800	2,000	-	-	63,000	-
MW-1		3/30/93	560	1,800	400	3,000	ND	-	-	17,000	43,000
MW-1		6/1/93	1,000	3,000	750	3,480	ND	-	-	300	-
MW-1		9/21/93	360	1,900	ND	2,680	1,500	-	-	20,000	-
MW-1		12/23/93	ND	ND	ND	ND	ND	-	-	140	-
MW-1		6/27/94	-	-	-	-	-	-	-	-	-
MW-1		12/1/94	1,180	1,600	602	2,380	ND	-	-	13,400	-
MW-1		09/16/11	LNAPL Present - Not Sampled								
MW-1		06/12/13	10.7	10.9	20.9	251	<50.0	-	-	13,600	-

21

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
MW-10		7/17/91	ND	ND	ND	ND	ND	-	-	**7**	ND
MW-10		8/13/91	ND	ND	ND	ND	ND	-	-	ND	-
MW-10		1/13/92	**7**	**2**	ND	ND	**34**	-	-	**150**	-
MW-10		3/30/93	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		6/1/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-10		9/21/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-10		12/23/93	ND	ND	ND	ND	ND	-	-	**140**	-
MW-10		6/27/94	**11**	ND	ND	**13**	ND	-	-	**1,890**	-
MW-10		12/1/94	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		3/9/95	ND	ND	ND	ND	ND	-	-	ND	-
MW-10		7/2/96	ND	ND	ND	ND	ND	-	-	ND	**100**
MW-10		4/10/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		6/13/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		9/9/97	ND	ND	ND	ND	ND	-	-	ND	**400**
MW-10		1/29/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		4/30/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		8/3/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-10		12/3/98	ND	ND	ND	**4.1**	ND	-	-	ND	ND
MW-10		4/5/99	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	ND
MW-10		6/21/99	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	ND
MW-10		10/6/99	<1.0	<1.0	<1.0	<3.0	-	-	-	ND	ND
MW-10		12/28/00	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	ND
MW-10		3/22/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	**110**
MW-10		6/26/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-10		9/28/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	**110**
MW-10		3/12/02	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-10		10/11/02	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	**160**
MW-10		6/9/03	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-10		2/25/04	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<94
MW-10D	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<100
MW-10D	3	2/12/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<110
MW-14		7/17/91	ND	ND	ND	ND	ND	-	-	ND	ND
MW-14		8/13/91	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		1/13/92	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		3/30/93	**50**	**1.1**	ND	ND	ND	-	-	**130**	ND
MW-14		6/1/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		9/21/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		12/23/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		6/27/94	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		12/1/94	ND	ND	ND	ND	ND	-	-	ND	-
MW-14		3/9/95	ND	ND	ND	ND	ND	-	-	ND	ND
MW-14		7/2/96	ND	ND	ND	ND	ND	-	-	ND	**100**
MW-14		4/10/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-14		6/13/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-14		9/9/97	ND	<1.0	<1.0	<1.0	<3.0	-	-	<10	**300**
MW-14		1/29/98	ND	ND	ND	ND	ND	-	-	ND	**300**
MW-14		4/30/98	ND	ND	ND	ND	ND	-	-	ND	**100**
MW-14		8/3/98	ND	ND	ND	ND	ND	-	-	ND	**210**
MW-14		12/3/98	ND	ND	**1**	**5.1**	ND	-	-	ND	ND
MW-14		4/5/99	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	ND
MW-14		6/21/99	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	**190**

22

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
MW-14	10/6/99	<1.0	<1.0	<1.0	<3.0	ND	-	-	ND	ND
MW-14	12/28/00	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	3/22/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	6/26/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	9/28/01	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	3/12/02	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	**1,700**
MW-14	10/11/02	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	6/19/03	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<100
MW-14	2/25/04	<1.0	<1.0	<1.0	<3.0	ND	-	-	<50	<120
MW-14	8/22/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-14D	11/30/06	<0.14	<0.36	<0.40	<1.1	**0.43 J**	-	-	<26	-
MW-14D	3/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-14D	9/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-14D	2/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-14D	11/12/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-14D	8/22/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-15	7/17/91	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	8/13/91	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	1/13/92	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	3/30/93	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	6/1/93	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	9/21/93	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	12/23/93	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	6/27/94	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	12/1/94	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	3/9/95	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	7/2/96	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	4/10/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	6/13/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	9/9/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	1/29/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	4/30/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	8/3/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	12/3/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-15	4/5/99	<1.0	<1.0	<1.0	<3.0	-	-	-	ND	ND
MW-15	6/21/99	-	-	-	-	-	-	-	-	-
MW-15	10/6/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-15	12/28/00	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-15	3/22/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-15	6/26/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-15	9/28/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-15	3/12/02	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	**230**
MW-15	10/11/02	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	**170**
MW-15	2/25/04	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<94
MW-16	5/7/93	**550**	**23**	**74**	ND	ND	-	-	**2,600**	**400**
MW-16	6/1/93	**1,300**	**190**	**110**	ND	ND	-	-	**390**	-
MW-16	9/21/93	**390**	**73**	**1**	**9.9**	**740**	-	-	**4,100**	-
MW-16	12/23/93	**1,200**	**6**	**41**	ND	**72**	-	-	**1,800**	-
MW-16	6/27/94	**2,520**	**16**	**134**	ND	**105**	-	-	**6,530**	-
MW-16	12/1/94	**34**	ND	ND	ND	ND	-	-	**1,050**	-
MW-16	3/9/95	**10**	ND	ND	ND	ND	-	-	**1,100**	-

23

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
MW-16		7/2/96	**1.3**	ND	ND	ND	ND	-	-	ND	**100**
MW-16		4/10/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-16		6/13/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-16		9/9/97	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	ND	**100**
MW-16		1/29/98	<1.0	<1.0	<1.0	<3.0	<10	-	-	ND	**100**
MW-16		4/30/98	ND	ND	ND	ND	ND	-	-	ND	**200**
MW-16		8/3/98	ND	ND	ND	ND	ND	-	-	ND	**620**
MW-16		12/3/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-16		4/5/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		6/21/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		10/6/99	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		12/9/99	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
MW-16		4/20/00	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		12/28/00	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		3/22/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		6/26/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		9/28/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		3/12/02	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		10/11/02	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		6/9/03	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-16		2/25/04	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<94
MW-16		11/30/06	<0.14	<0.36	<0.40	<1.1	<0.36	-	-	<26	-
MW-16		3/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-16		9/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-16		2/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-16		11/11/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		2/12/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		8/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		2/4/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		10/28/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		3/3/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		9/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		3/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		8/22/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-16		6/12/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		9/21/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-17		12/23/93	ND	ND	ND	ND	ND	-	-	ND	-
MW-17		6/27/94	ND	ND	ND	ND	ND	-	-	ND	-
MW-17		12/1/94	ND	ND	ND	ND	ND	-	-	ND	ND
MW-17		3/9/95	ND	ND	ND	ND	ND	-	-	ND	-
MW-17		7/2/96	**3.7**	ND	ND	ND	ND	-	-	ND	-
MW-17		4/10/97	**2.6**	ND	ND	ND	ND	-	-	ND	ND
MW-17		6/13/97	ND	ND	ND	ND	ND	-	-	ND	ND
MW-17		9/9/97	<1.0	<1.0	<1.0	<3.0	<10	-	-	-	**300**
MW-17		1/29/98	ND	ND	ND	ND	ND	-	-	ND	ND
MW-17		4/30/98	**1,540**	<10	<10	<30	<10	-	-	**2,100**	**300**
MW-17	G	6/13/98	**2,100**	<100	<100	<300	-	<500	**140**	-	-
MW-17		8/3/98	**407**	**1.1**	ND	ND	ND	-	-	**580**	**120**
MW-17		12/3/98	**980**	ND	ND	ND	-	-	-	**1,300**	ND
MW-17		4/5/99	**360**	<2.0	<2.0	<6.0	-	-	-	**540**	<100
MW-17		6/21/99	**35**	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		10/6/99	**2.8**	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		12/9/99	**9.2**	**1.7**	**1.2**	**5.8**	<5.0	-	-	<100	-

24

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
MW-17		4/20/00	**2.9**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		12/28/00	**3.4**	<1.0	<1.0	<3.0	-	-	-	<50	**130**
MW-17		3/22/01	**2.1**	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		6/26/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		9/28/01	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		3/12/02	**2.5**	<1.0	<1.0	<3.0	-	-	-	<50	<100
MW-17		10/11/02	<1.0	<1.0	<1.0	<3.9	-	-	-	<50	<100
MW-17		6/9/03	<1.0	<1.0	<1.0	3.2	-	-	-	<50	<100
MW-17		7/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		10/28/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		2/25/04	<1.0	<1.0	<1.0	<3.0	-	-	-	<50	<94
MW-17		4/7/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		8/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		2/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		11/2/05	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-17		5/4/06	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-17		12/1/06	<0.14	<0.36	<0.40	<1.1	<0.36	-	-	<26	-
MW-17		3/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-17		9/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-17		2/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	-	-	<50	-
MW-17		11/11/08	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		2/12/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		8/11/09	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		2/4/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		10/28/10	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		3/3/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		9/15/11	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		3/21/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		8/22/12	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		6/12/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-18		9/15/11	LNAPL Present - Not Sampled								
MW-18		8/23/12	LNAPL Present - Not Sampled								
MW-19		6/12/03	**62**	**73**	**8.6**	**118**	<5.0	-	-	**2,200**	**15,000**
MW-19		2/26/04	**900**	**3,000**	**690**	**3,040**	-	-	-	**13,000**	**1,700**
MW-19	T7	10/28/10	**815**	**2,110**	**460**	**1,840**	**8.9**	-	-	**8,970**	**1,800**
MW-19		3/2/11	**395**	**1,400**	**354**	**1,500**	<25.0	-	-	**9,240**	**2,500**
MW-19		9/16/11	**13.7**	**160**	**58.9**	**243**	**5.8**	-	-	**963**	-
MW-19		3/21/12	**128**	**541**	**158**	**663**	<25.0	-	-	**4,200**	-
MW-19		8/23/12	**246**	**1,160**	**247**	**1,130**	<25.0	-	-	**6,350**	-
MW-19		6/12/13	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-20		7/2/96	**7,340**	**11,800**	**1,930**	**1,160**	**2,750**	-	-	**56,900**	**100**
MW-20		4/10/97	**4,500**	**12,500**	**1,640**	**13,100**	<500	-	-	**46,600**	**10,600**
MW-20		6/13/97	**8,370**	**9,810**	**1,900**	**11,400**	**361**	-	-	**52,300**	**11,200**
MW-20		9/9/97	**1,980**	**3,060**	**790**	**3,730**	<2000	-	-	**15,200**	**400**
MW-20		1/29/98	**16,700**	**3,370**	**4,330**	**24,100**	<2000	-	-	**137,000**	**822,000**
MW-20 Sealed		10/4/10									
MW-21		2/26/04	**240**	**490**	**120**	**720**	<2.5	-	-	**5,600**	**3,800**
MW-21 Sealed		10/6/10									
MW-23		6/12/03	**3,800**	**3,100**	**1,200**	**6,300**	<25	-	-	**24,000**	**4,300**

25

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
MW-23		2/26/04	1,100	930	520	2,410	-	-	-	12,000	1,600
MW-23 Sealed		10/6/10									
MW-26	T7	10/27/10	1,720	4,520	1,670	7,100	<50.0	-	-	38,800	9,200
MW-26	T7	3/2/11	3,310	10,000	1,120	5,280	105	-	-	44,900	7,700
MW-26		9/15/11	1,400	2,690	473	2,170	51.0	-	-	12,800	-
MW-26		3/21/12	1,940	3,360	644	3,220	<100	-	-	16,200	-
MW-26		8/23/12	878	1,760	649	2,950	<50.0	-	-	12,800	-
MW-26		6/12/13	4,580	13,300	1,500	7,880	124	-	-	66,500	-
MW-27	T7	10/27/10	1,760	5,620	1,370	5,900	45.7	-	-	31,200	5,100
MW-27	T7	3/2/11	727	2,160	785	4,010	<100	-	-	22,900	5,700
MW-27		9/15/11	1,370	3,560	747	3,430	63.3	-	-	16,800	-
MW-27		3/21/12	1,660	5,270	890	4,390	<100	-	-	25,000	-
MW-27		8/23/12	1,890	5,140	1,020	4,810	<100	-	-	23,700	-
MW-27		6/12/13	3,090	17,200	1,510	8,790	122	-	-	58,000	-
MW-28	T7	10/25/10	6.1	18.3	38.6	127	17.0	-	-	5,570	3,600
MW-28	T7	3/2/11	<5.0	5.8	26.0	101	35.6	-	-	9,810	9,800
MW-28		9/14/11	<2.0	<2.0	20.0	51.4	36.7	-	-	4,970	-
MW-28		3/21/12	<5.0	<5.0	17.6	54.7	29.4	-	-	5,380	-
MW-28		8/23/12	<2.0	<2.0	14.3	36.6	<10.0	-	-	3,650	-
MW-28		6/13/13	<2.0	<2.0	15.4	36.1	45.0	-	-	4,030	-
MW-29	T7	10/25/10	<1.0	9.6	96.1	529	29.6	-	-	5,510	3,300
MW-29	T7	3/2/11	<5.0	<5.0	135	851	57.6	-	-	15,100	10,700
MW-29		9/14/11	<2.0	2.1	85.0	566	65.8	-	-	7,420	-
MW-29		3/21/12	<5.0	<5.0	87.0	692	47.1	-	-	6,400	-
MW-29		8/23/12	<5.0	<5.0	84.9	733	<25.0	-	-	6,700	-
MW-29		6/13/13	<5.0	<5.0	62.1	568	109	-	-	9,640	-
MW-30	T7	10/25/10	628	1,230	235	870	34.0	-	-	13,000	4,500
MW-30	T7	3/2/11	67.1	611	314	1,230	62.9	-	-	22,000	14,600
MW-30		9/16/11	29.9	239	100	357	86.5	-	-	8,780	-
MW-30		3/21/12	14.8	163	63.3	180	41.5	-	-	5,970	-
MW-30		8/23/12	15.7	142	58.9	135	<25.0	-	-	4,790	-
MW-30		6/13/13	142	394	92.2	259	83.0	-	-	8,560	-
POTABLE WELLS											
CW-3		03/25/98	18	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		05/20/98	11	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3	G	06/10/98	9.3	<1	<1	<3	-	<5	<1	-	-
CW-3		06/10/98	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
CW-3		08/20/98	6.2	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		09/09/98	5.2	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		10/05/98	4.8	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		11/18/98	3.4	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		12/15/98	2.9	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		01/25/99	1.6	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		02/18/99	1.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		03/17/99	0.86	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		04/22/99	0.63	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		05/21/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-3		06/24/99	0.37	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-

26

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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-3		07/19/99	**0.48**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		08/23/99	**1.4**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		09/22/99	**1.1**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		10/25/99	**0.59**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		11/24/99	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		12/09/99	**0.36**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
CW-3		02/17/00	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		03/13/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		04/20/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		05/23/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		06/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		07/27/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-3		08/16/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
CW-3		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	11/05/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		09/25/07	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-3		01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	-	-
CW-3		04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-3		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-3		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-3		11/02/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-3		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
CW-3		11/30/06	<0.41	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-3		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-3		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-3	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-3	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-3		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-3	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		12/19/90	**2.2**	<0.2	<0.2	**0.4**	<0.2	<0.5	**0.3**	-	-
CW-4		10/23/97	**16**	<0.30	<0.50	<1.2	<1.0	<0.40	**1.5**	-	-
CW-4		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4	G	06/10/98	**3.0**	<1	<1	<3	-	<5	**2.2**	-	-
CW-4		06/10/98	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	-	-
CW-4	G	06/13/98	**3.5**	<1	<1	<3	-	<5	**2.7**	-	-
CW-4		08/20/98	**6.6**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-4		09/09/98	**8.8**	<0.3	<0.5	<1.2	<1.0	<0.4	**0.78**	-	-
CW-4		10/05/98	**12**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-4		11/18/98	**19**	<0.3	<0.5	<1.2	<1.0	<0.4	**0.6**	-	-

27

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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-4		12/15/98	**18**	**0.4**	<0.5	<1.2	<1.0	<0.4	**0.8**	-	-
CW-4		01/25/99	**20**	**0.38**	**0.51**	<1.2	<1.0	<0.4	**1.1**	-	-
CW-4		02/18/99	**19**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-4		03/17/99	**19**	<0.3	**0.55**	<1.2	<1.0	<0.4	**0.88**	-	-
CW-4		04/22/99	**12**	<0.3	<0.50	<1.2	<1.0	<0.4	**0.51**	-	-
CW-4		05/21/99	**8.8**	<0.3	<0.50	<1.2	<1.0	<0.4	**0.62**	-	-
CW-4		06/24/99	**11**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		07/19/99	**7.7**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		08/23/99	**7.3**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		09/22/99	**6.7**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.59**	-	-
CW-4		10/25/99	**6.6**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		11/24/99	**5.7**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.5**	-	-
CW-4		12/09/99	**4.9**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		01/13/00	**3.5**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
CW-4		02/17/00	**3.0**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.72**	-	-
CW-4		03/13/00	**2.4**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		04/20/00	**1.7**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		05/23/00	**0.49**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		06/17/00	**1.0**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4		07/27/00	**0.66**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.67**	-	-
CW-4		08/16/00	**0.56**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
CW-4		02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	**0.55**	-	-
CW-4		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	07/30/01	**0.38 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	**0.75**	-	-
CW-4		10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	**0.78**	**0.77**	-	-
CW-4	3	11/19/01	**0.17 J**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
CW-4	3	12/03/01	**0.11 J**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
CW-4	3	01/29/02	**1.3**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.31 J**	-	-
CW-4	3	02/08/02	**1.8**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.37 J**	-	-
CW-4	3	03/19/02	**2.8**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	05/23/02	**4.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.62**	-	-
CW-4	3	06/07/02	**4.9**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.66**	-	-
CW-4	3	07/30/02	**5.7**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	08/19/02	**6.2**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	09/09/02	**6.6**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4		10/11/02	**8.2**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	11/05/02	**7.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.70**	-	-
CW-4	3	12/16/02	**7.7**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	01/16/03	**10**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-4	3	02/06/03	**11**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.86**	-	-
CW-4	3	03/06/03	**13**	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4	3	04/03/03	**11**	<1.0	<1.0	<3.0	<1.0	<5.0	**0.089 J**	-	-
CW-4	3	05/19/03	**9.7**	<1.0	<1.0	<3.0	<1.0	<5.0	**0.63**	-	-

28

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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-4	3	06/19/03	**7.7**	<0.50	<0.50	<1.5	<1.0	<2.0	**0.63**	-	-
CW-4	1	07/24/03	**8.2**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.64**	-	-
CW-4	3	08/12/03	**7.0**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.67**	-	-
CW-4	1,3	09/09/03	**7.7**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.79**	-	-
CW-4	3	10/28/03	**6.4**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.60**	-	-
CW-4		11/25/03	**6.6**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.59**	-	-
CW-4	3	12/31/03	**5.3**	<0.50	<0.50	<1.5	<1.0	<0.50	**0.42 J**	-	-
CW-4	3	01/28/04	**3.9**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.35 J**	-	-
CW-4	3	02/04/04	**2.8**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.81**	-	-
CW-4	3	03/02/04	**3.6**	<0.50	<0.50	<1.5	<5.0	<0.50	**0.44 J**	-	-
CW-4	3	04/07/04	**2.8**	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4	3	05/25/04	**1.2**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.38 J**	-	-
CW-4	3	06/17/04	**1.1**	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-4	3	07/26/04	**0.79**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.42 J**	-	-
CW-4	3	08/25/04	**0.92**	<0.50	<0.50	<1.50	<0.50	<0.50	**0.37 J**	-	-
CW-4	3	09/15/04	**0.84**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.42 J**	-	-
CW-4	3	10/22/04	**0.48 J**	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-4	3	11/10/04	**0.3 J**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.29 J**	-	-
CW-4	3	12/02/04	**0.18 J**	<0.50	<0.50	<1.5	<0.50	<0.50	**0.85**	-	-
CW-4	3	01/18/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.05	**0.92**	-	-
CW-4	3	02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	**0.46 J**	-	-
CW-4	3	03/14/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-4	3	05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	**0.31 J**	-	-
CW-4	3	09/19/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-4	3	11/02/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	**0.36 J**	-	-
CW-4	3	02/15/06	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-4	3	06/02/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
CW-4	3	08/21/06	**0.66 J**	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-4	1, 3	11/30/06	**0.78 J**	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-4		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4		04/25/07	<0.41	<1.0	<1.0	<3.0	<1.0	<5.0	<0.56	-	-
CW-4		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4		11/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4		02/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-4	3	05/20/08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.36	-	-
CW-4	3	08/13/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	3	02/11/09	**0.73 J**	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		04/28/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	3	12/22/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	3	02/03/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		06/23/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		09/30/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		03/04/11	**0.74 J**	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		11/11/11	**2.6**	**1.3**	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		03/22/12	**1.1**	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		06/19/12	<1.0	<1.0	<1.0	**3.0**	<1.0	<4.0	<1.0	-	-
CW-4		08/23/12	**0.10 J**	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		11/05/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-4		03/21/13	<0.062	<1.0	<1.0	<3.0	<1.0	<4.0	<0.37	-	-
CW-5		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-

29

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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-5	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-5	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-5	3	10/28/03	**0.091 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-5		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-5		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
CW-5		11/02/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-5		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
CW-5	1	11/30/06	<0.41	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-5		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-5		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-5	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-5	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-5		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-5	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-5		08/23/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-6		01/13/00	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	-	-
CW-6	3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-6	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-6	3	10/28/03	**0.081 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-6		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-6		05/27/05	<0.50	<0.50	<0.50	<1.5	<2.0	<0.50	<0.50	-	-
CW-6		11/02/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-6		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
CW-6	1	11/30/06	<0.41	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-6		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-6		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-6	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-6	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-6		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-6	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
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	-	-
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-7		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-
CW-7		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-7		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-7	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-7	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-7		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-7	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-7		08/23/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
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	-	-
CW-8		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	-	-

30

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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-8		03/20/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-8		09/25/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-8	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-8	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-8		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-8	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-8		08/23/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
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	-	-
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	-	-

31

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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	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	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-Influent		11/02/05	<0.41	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-Influent		05/04/06	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.36	-	-
CW-Influent	1	11/30/06	<0.41	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-
CW-Influent		03/20/07	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	-	-
CW-Influent		09/25/07	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	-	-
CW-Influent		02/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-Influent	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent	3	02/11/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent	3	02/03/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent	3	03/04/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent		03/22/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Influent		08/23/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered		03/25/98	**6.8**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered	G	04/23/98	<1	<1	<1	<3	<5	<5	<1	-	-
CW-Filtered		06/10/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		08/20/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		10/05/98	**0.73**	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		11/18/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		12/15/98	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		01/25/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		02/18/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		03/17/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		04/22/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		05/21/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		06/24/99	<0.3	<0.3	<0.5	<1.2	<1.0	<0.4	<0.5	-	-
CW-Filtered		07/19/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		08/23/99	**0.35**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		09/22/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-

32

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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		10/25/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		11/24/99	**5.80**	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		12/09/99	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		01/13/00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
CW-Filtered		02/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	2.1**	<0.50	-	-
CW-Filtered		03/13/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		04/20/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered	1	05/23/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered	1	06/17/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered	1	07/27/00	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-Filtered		08/16/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1	09/12/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1	10/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1	11/20/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		12/13/00	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		01/16/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	<100	-
CW-Filtered		02/15/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		02/28/01	**0.2**	<0.2	<0.2	<0.4	<2.0	<0.5	<0.2	-	-
CW-Filtered		03/08/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		04/12/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		05/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		06/22/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	3,	07/30/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1, 3,	08/13/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1, 3,	09/11/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	*	10/09/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	*, 3,	11/19/01	<0.50	<0.50	<0.50	<1.5	<1.0	**0.92**	<0.50	-	-
CW-Filtered	3	12/03/01	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	*, 3	01/29/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	*, 3	02/08/02	**0.36 J**	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	3	03/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	3	04/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered	1,3	05/23/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.50	<0.50	-	-
CW-Filtered		06/07/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	07/30/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	08/19/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	09/09/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	10/11/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	11/05/02	**0.24 J**	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	12/16/02	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	01/16/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	02/06/03	**0.43 J**	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	03/06/03	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-Filtered	3	04/03/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	05/19/03	<0.50	<0.50	**0.55**	**3.9**	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	06/19/03	<0.50	<0.50	<0.50	<1.5	<1.0	<2.0	<0.50	-	-
CW-Filtered	1, 3	07/24/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered	3	10/28/03	<0.50	<0.50	<0.50	<1.5	<1.0	<0.5	<0.50	-	-
CW-Filtered		01/28/04	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	-	-
CW-Filtered		04/07/04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-Filtered		08/25/04	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-Filtered		02/16/05	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-Filtered		05/04/06	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	-	-
CW-Filtered	1	11/30/06	<0.41	<0.67	<0.54	<2.6	<0.61	<0.74	<0.36	-	-

33

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

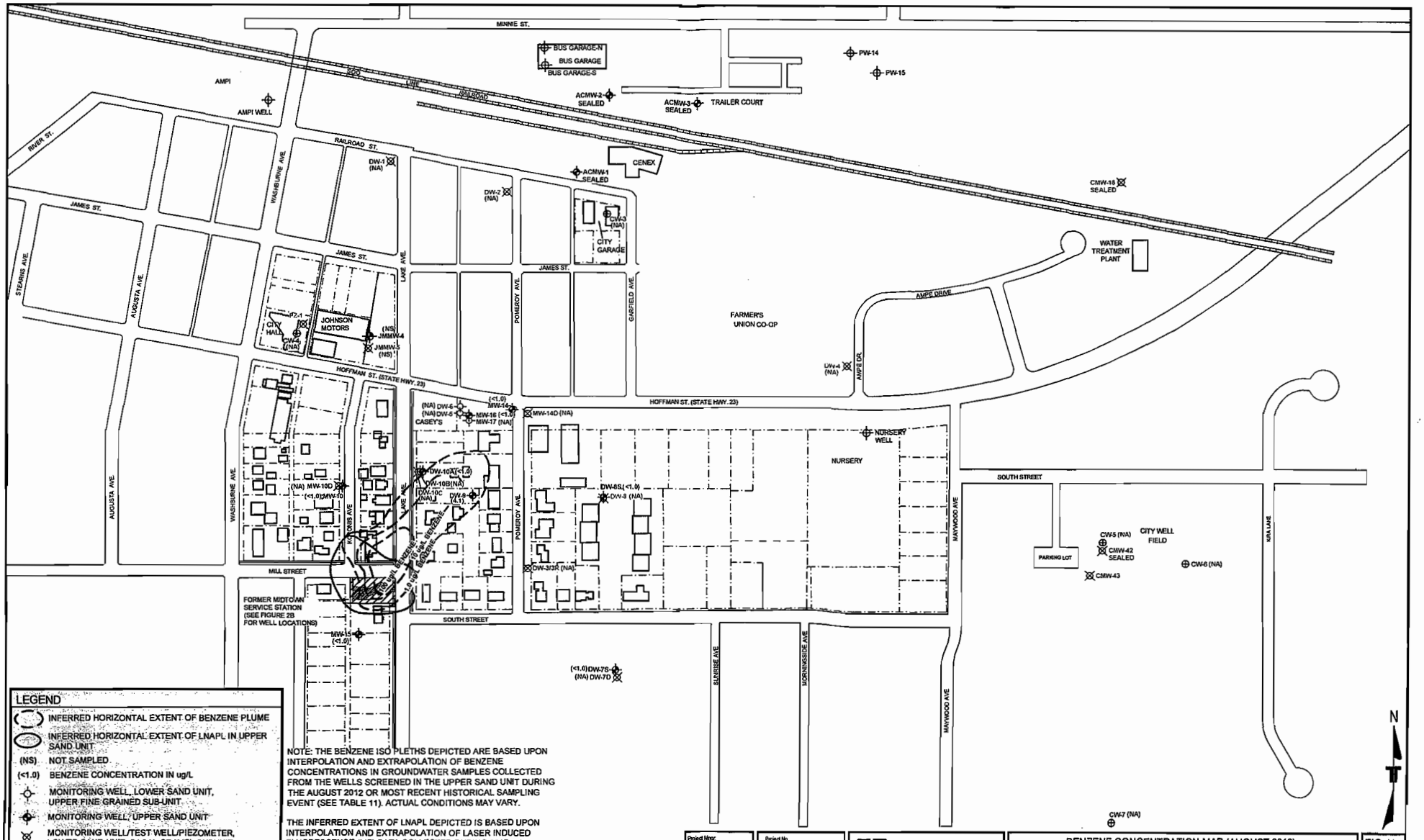
Sample ID		Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Methyl Tert-Butyl Ether (µg/L)	Naphthalene (µg/L)	1,2-Dichloro-ethane (µg/L)	Gasoline Range Organics (µg/L)	Diesel Range Organics (µg/L)
CW-Filtered		03/20/07	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	-	-
CW-Filtered		09/25/07	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	-	-
CW-Filtered		02/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	-	-
CW-Filtered	3	11/12/08	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered	3	02/11/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered	3	08/10/09	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered	3	02/03/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered		10/29/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered	3	03/04/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered	4	09/16/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered		03/22/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
CW-Filtered		08/23/12	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	-	-
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	-	-
Nursery Well	G	02/26/98	<1	<1	<1	<3	<5	<5	<1	-	-
Nursery Well		02/26/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
AMPI Well		03/25/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
Bus Gar. (south)		03/25/98	<0.30	**0.35**	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4-1		05/20/98	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
CW-4-2		05/20/98	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
CW-4-3		05/20/98	<0.30	<0.30	<0.50	<1.2	<1.0	<0.40	<0.50	-	-
CW-4-4		05/20/98	<1.0	<1.0	<1.0	<1.0	**49**	-	-	<100	-
CW-4-5		05/21/98	<1.0	<1.0	<1.0	<1.0	<5.0	-	-	<100	-
CW-4-6		05/21/98	**0.41**	<0.30	<0.50	<1.2	<1.0	<0.40	**0.46**	-	-
DW-5	G	08/20/98	**2,200**	**140**	<100	<300	-	<500	**100**	-	-
DW-5 - 2 hrs	G	08/20/98	**2,300**	**120**	<100	<300	-	<500	**110**	-	-
DW-5 - 2 hrs	G*	08/20/98	**760**	**120**	**73**	**65**	**1.7**	<0.40	**41**	**2,700**	-
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	-
Holding Tank		10/29/10	**70.3**	**150**	**66.5**	**218**	**8.1**	-	-	**2,780**	-
DPE-2	T7	11/05/10	**36.8**	**39.1**	**113**	**467**	<25.0	-	-	**2,610**	**2,600**
DPE-2 (Post-T)		11/09/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<100
DPE-1	T7, *	11/12/10	**220**	**444**	**157**	**795**	<5.0	**42.8**	<5.0	**4,400**	**1,000**
DPE-1 (Post-T)		11/12/10	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<100
Pre-Treatment											

34

TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)
PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA
PAYNESVILLE, MINNESOTA 56363
TERRACON PROJECT NO. 41987019

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)
DPE-2 Pre-T (14:40)	T7, *	04/19/11	**93.0**	**97.3**	**271**	**1,050**	<2.0	**84.3**	<2.0	**7,230**	**2,100**
DPE-1 Pre-T (10:10)	T7, *	04/21/11	**113**	**101**	**35.8**	**158**	<1.0	**14.3**	<1.0	**2,210**	**610**
DPE-1 Pre-T (16:21)	T7, *	04/21/11	**69.4**	**60.9**	**21.4**	**99.6**	<1.0	**8.3**	<1.0	**1,380**	**420**
DPE-2 Pre-T (16:02)	T7, *	04/21/11	**182**	**99.9**	**296**	**1,160**	<5.0	**112**	<5.0	**9,240**	**2,400**
Post-Treatment											
Post GAC-1 (14:50)		04/19/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<110
Post GAC-2 (10:00)		04/21/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<100
Post GAC-3 (15:20)		04/21/11	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	<1.0	<100	<100
QA/QC SAMPLES											
DUPLICATE											
DW-6		10/20/00	**43**	<1.0	**9.7**	**7.3**	<5.0	-	-	**340**	-
DW-6		08/13/01	**110**	<1.0	**2.8**	**15**	**5.5**	-	-	**310**	-
DW-3		01/16/01	<1.0	**3.4**	**1.1**	**3.6**	<5.0	-	-	<100	-
DW-3		04/12/01	<1.0	**4.7**	<1.0	<3.0	<5.0	-	-	**490**	-
DW-3		10/09/01	**26**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		01/29/02	**6.6**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/16/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		08/19/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		11/05/02	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		01/17/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/04/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		07/24/03	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-6		10/28/03	**48**	<1.0	**1.4**	**4.4**	<5.0	-	-	**150**	-
DW-3		02/04/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		04/07/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-3		08/24/04	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
MW-17		02/16/05	<1.0	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-5		11/02/05	**160**	**2.3**	**29**	**26**	<1.0	-	-	**340**	-
DW-5		05/04/06	**180**	**1.5**	**32**	**33**	**1.3**	-	-	**440**	-
MW-17		12/01/06	<0.14	<0.36	<0.40	<1.1	<0.36	-	-	<26	-
DW-5	5	03/20/07	**64**	<1.0	**55**	**19**	**1.8**	-	-	**270**	-
DW-5	6	09/25/07	**110**	**2.3**	**45**	**30**	<1.0	-	-	**370**	-
DW-5	6	02/12/08	**80**	<1.0	**32**	**28**	<1.0	-	-	**290**	-
DW-5		11/10/09	**12.0**	<1.0	**12.3**	**7.1**	<5.0	-	-	<100	-
DW-5		02/11/09	**58.7**	<1.0	**11.4**	**16.3**	<5.0	-	-	**169**	-
DW-5		08/11/09	**17.4**	<1.0	**14.8**	**14.3**	<5.0	-	-	<100	-
DW-5		02/04/10	**38.3**	<1.0	**25.8**	**7.5**	<5.0	-	-	<100	-
DW-5		10/28/10	**51.3**	<1.0	**15.0**	**14.8**	<5.0	-	-	**200**	-
DW-5		03/03/11	**24.7**	<1.0	**26.2**	**27.4**	<5.0	-	-	**193**	-
Duplicate [(DPE-1 Pre-T (10:10)]	T7, *	04/21/11	**107**	**97.8**	**33.5**	**151**	<1.0	**13.0**	<1.0	**1,930**	**570**
DW-8		09/15/11	**9.4**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-5		03/21/12	**2.3**	<1.0	**19.9**	**9.9**	<5.0	-	-	<100	-
DW-6		08/21/12	**4.6**	<1.0	<1.0	<3.0	<5.0	-	-	<100	-
DW-9		11/05/12	**1,120**	**172**	**281**	**196**	<1.0	-	-	**4,210**	-
DW-9		04/09/13	**1,520**	<5.0	**279**	**17.5**	**43.9**	-	-	**4,960**	-
DW-9		06/11/13	**513**	<5.0	**157**	<15.0	**33.8**	-	-	**5,940**	-
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	-	-

35



LEGEND

- INFERRED HORIZONTAL EXTENT OF BENZENE PLUME
- INFERRED HORIZONTAL EXTENT OF LNAPL IN UPPER SAND UNIT
- (NS) NOT SAMPLED
- (<1.0) BENZENE CONCENTRATION IN ug/L
- MONITORING WELL, LOWER SAND UNIT, UPPER FINE GRAINED SUB-UNIT
- MONITORING WELL, UPPER SAND UNIT
- MONITORING WELL/TEST WELL/PIEZOMETER, LOWER SAND UNIT, BASAL GRAVEL SUBUNIT
- PRIVATE WATER SUPPLY WELLS
- MUNICIPAL WELLS

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

NOTE: THE BENZENE ISO PLETHS DEPICTED ARE BASED UPON INTERPOLATION AND EXTRAPOLATION OF BENZENE CONCENTRATIONS IN GROUNDWATER SAMPLES COLLECTED FROM THE WELLS SCREENED IN THE UPPER SAND UNIT DURING THE AUGUST 2012 OR MOST RECENT HISTORICAL SAMPLING EVENT (SEE TABLE 11). ACTUAL CONDITIONS MAY VARY.

THE INFERRED EXTENT OF LNAPL DEPICTED IS BASED UPON INTERPOLATION AND EXTRAPOLATION OF LASER INDUCED FLUORESCENCE (LIF) DATA COLLECTED DURING 2007 - 2008. ACTUAL CONDITIONS MAY VARY.

280 0 70 140 210 280
APPROXIMATE SCALE: 1" = 280'

Project Mngr:	PJW
Drawn By:	JLM (41)
Checked By:	PJW
Approved By:	PJW
Project No.	41987018
Scale:	AS SHOWN
File No.	41987018.09.dwg
Date:	9/19/2012

Terracon
Consulting Engineers and Scientists
3535 HOFFMAN ROADE WHITE BEAR LAKE, MN 55110
PH. (651) 770-1500 FAX. (651) 770-1857

BENZENE CONCENTRATION MAP (AUGUST 2012)
UPPER SAND UNIT
PAYNESVILLE MUNICIPAL WATER SUPPLY
FORMER MIDTOWN SERVICE STATION
PAYNESVILLE MINNESOTA

FIG. No. 7A
(FIG7A 8.2012)

30

REQUEST FOR COMMITTEE/COUNCIL ACTION

COMMITTEE/COUNCIL NAME: Public Works Committee

Committee/Council Meeting Date: August 14, 2013

Agenda Section: Old Business

Originating Department:

Item Number: IV - E

ITEM DESCRIPTION: Snow Blower

Prepared by: Staff

COMMENTS:

Ron Mergen will give a verbal report. Please review the 2013 Snow Blower Specifications. Prices will be presented at the meeting.

ADMINISTRATOR COMMENTS:

COMMITTEE/COUNCIL ACTION:

City of Paynesville
2013 Snow blower Specifications

Width of cut	108" Min.
Height of cut	44" Min.
RPM	540
Fan diameter	30" X 11"Deep Min.
No. of augers	2 or 3, 16" dia Min.
Hitch	Cat. 11
Cutting Edge	Hardened Steel, Bolt on type
Roller chain	# 80
Parking Stand	
Gear driven spout	270 degree rotation, hydraulically operated
Spout type	Truck loading type
Spout opening	14" min
Spout Deflector	Hydraulically Operated

Make of Snow blowers to be accepted
Loftness
Lorenz
Schulte

To be Traded in 2005 Farm King Snow blower, model Y10180DT
To view contact Ron @ City Hall 243-3714