

**Test/Production Well 4, 24 Hour APT,
Safe Yield Analysis,
& Drawdown Impact Assessment**

**Yorktown, Indiana
July 30, 2014**



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Safe Yield Analysis,
& Drawdown Impact Assessment

Yorktown, Indiana
July 30, 2014

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Prepared For:
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EXECUTIVE SUMMARY

Peerless-Midwest, Inc. (PMI) was contracted by the Town of Yorktown to construct Test/Production Well 4 (Well 4); conduct an Aquifer Performance Test (APT); analyze the APT data set; determine the 100 day safe yield rating for the well; and determine the radial area of influence of the new well.

Peerless-Midwest conducted a 24 hour APT at Well 4 in July 2014. Well 4 was discharged at an average rate of 955 gpm for 24 hours. Changes in water levels within Well 4, TW07A, and at 3 area residential wells were monitored during the test. The drawdown data from MW4 and TW07A was used to estimate the hydraulic parameter values of the bedrock aquifer.

From the 24 hour APT, the specific capacity of Well 4 at 955 gpm is 17.93 gpm/foot of drawdown. Using the Barker (1988) solution, the hydraulic conductivity (**K**) of the aquifer was estimated to be 18.91 feet/day. Assuming an aquifer thickness of 185 feet, the corresponding transmissivity (**T**) is estimated to be 3,498.4 ft²/day with an average **S_s** (fracture specific storage) of 1.12×10^{-5} .

The 100 day drawdown of Well 4 pumping at 955 gpm was calculated using the hydraulic parameter values above and the AQTESOLV Forward Solution method. The 100 day drawdown is estimated at 71.22 feet. A static water level of 15.5 feet below ground surface (bgs) yields an estimated 100 day pumping level of 86.72 feet bgs. In addition to the calculated pumping level, total drawdown should account for seasonal variations in static water level and potential loss of efficiency in well performance over time. For Well 4, we recommend a conservative pump setting of 140 feet bgs.

Once pumping was terminated at Well 4 on the morning of July 10th, three area residents reported they were without water. These residential properties are all located along W. Cornbread, and range from 2,100 to 3,400 feet west-southwest of the Site. Water levels recovered during the day at 2 of the wells and the third well required pump replacement.

An assessment of potential impact from long term groundwater production of 955 gpm at Well 4 was performed. The distribution of predicted drawdown at 100 days extends outward from Well 4 for a radius of approximately 2 miles (Figure 3). Potentially impacted wells are identified as any wells located inside the 5 foot drawdown contour. While it is difficult to predict which wells may be adversely impacted from long term pumping, the greatest potential for impacts from dewatering would be wells which have shallow construction, wells equipped with jet pumps (shallow installations), or wells that have submersible pumps installed at shallow depths.

This summary is provided for convenience to the reader and is considered part of the appended report. Interpretation of this summary should be considered incomplete without reviewing the complete report and associated appendices.

1.0 INTRODUCTION

Peerless-Midwest, Inc. (PMI) was contracted by the Town of Yorktown, to assist with the development of a new groundwater test/production well located on farmland owned by Mr. Mike Beaman. The test/production well site is located in Section 23, T20N, R9E, Mt. Pleasant Township, Delaware County, Indiana (hereafter referred to as the Site). A Site location map is provided as Figure 1.

1.1 BACKGROUND

Following the completion of a fracture trace analysis (PMI, 2003), Test Well TW07A was installed in May 2007 (PMI, 2007), to further evaluate the groundwater resource potential at the Site. The well was constructed of 6 inch diameter poly-vinyl chloride (PVC) casing, set 5.5 feet into competent bedrock, at a depth of 29.5 feet below ground surface (bgs). A significant water bearing zone of fractured limestone was encountered at 175 feet bgs and the well was completed open hole at a total depth of 225 feet bgs. TW07A construction details are provided on the well log included as Appendix A.

Pump testing and water quality sampling and analysis at TW07A were also completed in May 2007. The pumping test results suggested the bedrock aquifer beneath the site is confined with an estimated transmissivity (**T**) of 3,936 square feet per day (ft² /day) and an estimated hydraulic conductivity (**K**) of 20 ft/day. The specific capacity of TW-07A at a pumping rate of 180 gpm was calculated to be 18 gpm per foot of drawdown and the 100 day safe yield estimate for a 12 inch diameter production well was estimated to be 917 gpm.

The groundwater sampling results showed no Volatile Organic Compounds (VOCs) or Synthetic Organic Compounds (SOCs) were detected. Inorganic Compounds (IOCs) were for the most part, either below the detection limits or at naturally occurring levels that were below respective primary and secondary Maximum Contaminant Levels (MCLs). Iron, detected at a concentration of 1.018 mg/L, was the only analyte that exceeded an MCL. The secondary MCL for iron is 0.3 mg/L.

A number of domestic water supply wells were identified within the Site area and most of these wells are completed in the bedrock aquifer. Since there is a potential for pumping at the Site to negatively impact water levels in these wells, PMI recommended measuring water levels in area residential wells during future aquifer testing (PMI, 2007).

Butler, Fairman & Seufert, Inc. (BF&S) completed a New Well Site Survey (NWSS) application for Production Well 4 in February 2014. The Indiana Department of Environmental Management (IDEM) approved the NWSS on April 11, 2014. The IDEM survey is provided in Appendix B.

1.2 HYDROGEOLOGIC SETTING

The unconsolidated sediments encountered at the Site consist of glacial till with interbedded sand, gravel and clay from the surface to a depth ranging from 8 to 24 feet bgs. Bedrock was encountered at Well 4 at a depth of 8 feet bgs and at 24 feet bgs at TW07A. The bedrock consists of brown to gray limestone. At TW07A, gray shale was encountered from 79 to 90 feet and was underlain by brown limestone. A significant water bearing zone of fractured limestone was encountered in both wells at approximately 175 feet bgs. No other significant water-bearing zones were encountered in either well. The static water level at both wells is approximately 15.5 feet bgs.

1.3 PRODUCTION WELL CONSTRUCTION

In June 2014, Test/Production Well 4 (Well 4) was drilled and constructed by PMI using the direct rotary method and completed at a depth of 200 feet bgs. The well is constructed of 16 inch diameter steel casing set at a depth of 50 feet bgs and a 15 5/8 inch open rock borehole from 50 to 200 feet bgs. The well construction details for TW07A and Well 4 are summarized below in Table 1. Well logs are provided in Appendix A.

TABLE 1 Well Construction Details

Well	Northing ⁽¹⁾	Easting ⁽¹⁾	Total Depth (feet)	Open Interval (feet)	Static Water Level (feet)
TW07A	4,448,021	630,422	225	29.5-225	17.58
WELL 4	4,448,019	630,417	200	50-200	17.68

⁽¹⁾ - UTM, Zone 16 (NAD 1927), Meters

Static water levels measured from top of casing on July 9, 2014

2.0 AQUIFER PERFORMANCE TESTING & SAFE YIELD ANALYSES

A 24 hour aquifer performance test (APT) was conducted at Well 4 to determine the aquifer hydraulic parameters, provide information necessary to determine the 100 day safe yield rating of the well, assess any drawdown impacts at area residential wells, and provide groundwater quality information. The groundwater production capacity of Well 4 was tested in accordance with the IDEM requirements of 327 IAC 8-3.4-25. Details of the APT event are summarized below. Pumping test data tables and graphical analyses are provided in Appendix C.

2.1 WELL 4 APT

A 24 hour APT was completed at Well 4 beginning June 9, 2014. Initially, a 72 hour pumping period was planned. However, the length of the pumping period was decreased to 24 hours because of drawdown impact concerns at area residential wells. In case of a water supply disruption, a notification was also delivered to area residents by the Yorktown Water Department prior to the APT. A copy of this notice is provided in Appendix D.

During the APT, water was pumped to waste via irrigation piping to a farm field located 450 feet to the west of Well 4. The discharged water drained toward the southwest and west away from the Site. The discharge rate was measured using an 8 x 6 orifice.

Water levels were recorded within Well 4 and TW07A at one minute intervals during background, pumping, and recovery periods of the test using pressure transducers equipped with data loggers. Water levels at both wells were also recorded during the pumping and recovery period by field technicians. The transducer data and field sheets are provided in Appendix C.

In addition to the 2 Site wells, water levels were measured by field technicians at 3 residential wells prior to, during and at the end of the 24 hour pumping period. Residential wells monitored during the test are provided in Table 2 and the well locations are shown in Figure 2. The residential well logs are included in Appendix D.

TABLE 2 Residential Well Summary

Owner	Address	City	Northing⁽¹⁾	Easting⁽¹⁾
Beaman	8012 W. Cornbread	Yorktown, IN	4,448,450	630,440
Dixon	2217 Sacks Rd.	Yorktown, IN	4,447,878	630,192
Bess	2200 S. Webster Dr.	Yorktown, IN	4,447,948	629,620

⁽¹⁾ - UTM, Zone 16 (NAD 1927), Meters

2.1.1 Background Period

Background readings were recorded by pressure transducers within both Site wells at one minute intervals starting at 8:00 AM July 8, 2014. No significant fluctuations in background water levels were observed that might suggest the influence of other high capacity wells in the area. Graphical plots of the background readings are provided in Appendix C.

2.1.2 Pumping Period

Well 4 was pumped at an average rate of 991 gpm for the first 300 minutes of the 24 hour pumping period. After 300 minutes, the average rate for the remainder of the test was 955 gpm. The pumping period began at 8:00 AM July 9, 2014 and ended at 8:00 AM July 10, 2014.

Prior to pumping, the static water levels at MW4 and TW07A were 17.58 and 17.68 feet below top of casing (btoc), respectively. Pumping levels observed at MW4 and TW07A after 24 hours were 70.85 and 56.72 feet btoc, respectively. Thus, the total drawdown observed at MW4 was 53.27 feet and at TW07A, 39.04 feet. The specific capacity of Well 4 at 955 gpm is 17.93 gpm/foot of drawdown. The drawdown data and associated graphical plots are provided in Appendix C.

Water levels were measured by field technicians at the 3 residential wells shown in Table 2 at various times during the pumping period. Maximum drawdowns observed at the Beaman, Dixon and Bess wells were 23.99 feet, 6.33 feet, and 4.77 feet, respectively. A summary of water levels at these 3 residential wells is provided in Appendix D.

2.1.3 Recovery Period

Recovery readings within MW4 and TW07A were collected by a field technician for 2 hours after the end of the pumping period. The recovery readings were also collected by pressure

transducers in both wells for a period of 24 hours after the end of the pumping period from 8:00 AM July 10, 2014 to 8:00 AM July 11, 2014. The water level at MW4 recovered 93.2% to within the static water level condition measured prior to the start of the 24 hour pumping period. The recovery data and associated graphical plots are provided in Appendix C.

Once pumping was terminated on the morning of July 10th, 3 area residents called in to report they were without water. The 3 residents include the Stean household located at 8012 W. Cornbread, the Thomas residence located at 7601 W. Cornbread, and the Kalley household, located at 7600 W. Cornbread. As water levels recovered, both the Stean and Thomas wells were back pumping water on July 9th. The Kalley residence required a pump replacement. These well owners, addresses, nature of their wells/pumps, and problems encountered, are summarized in Appendix D. These impacted well locations are provided in Figure 2.

2.2 WELL 4 APT ANALYSIS

The drawdown data collected at MW4 and TW07A during the 24 hour APT were analyzed using the analytical modeling software AQTESOLV (HydroSOLV, 2007). AQTESOLV was used to match the type curves of the Cooper-Jacob (1946) method for a confined aquifer and the Barker (1988) method for a confined aquifer with radial flow in a porosity fractured aquifer. These methods were used to calculate the aquifer transmissivity (**T**) and storage coefficient (**S**).

The Cooper-Jacob (1946) solution was used to perform an analysis of the drawdown data for TW07A using a straight line match. The straight line was fit to the portion of the data that plotted along a similar slope. Using the Cooper-Jacob method, the aquifer **T** was estimated to be 4,356.5 ft²/day with an average **S** of 1.24×10^{-3} .

The Barker (1988) solution was then used to match type curves to both the Well 4 and TW07A drawdown data and calculate the 100-day safe yield of MW4. Using this method the hydraulic conductivity (**K**) of the aquifer was estimated to be 18.91 feet/day. Assuming an aquifer thickness of 185 feet, the corresponding **T** is estimated to be 3,498.4 ft²/day with an average **Ss** (fracture specific storage) of 1.12×10^{-5} . The graphical analyses are in Appendix C.

2.3 SAFE YIELD & RECOMMENDED PUMP SETTING

A safe yield is generally determined by extrapolating well performance based on the average hydraulic parameter values and well efficiency results for 100 days of continuous pumping with no recharge to the aquifer.

The hydraulic parameter values from the APT, as calculated using the Barker (1988) analytical solution, and the drawdown associated with pumping Well 4 at a rate of 955 gpm over a 100 day period, was calculated using the AQTESOLV Forward Solution method. The 100 day drawdown is estimated at 71.22 feet. This calculation assumes Well 4 is pumped continuously for 100 days, the aquifer does not receive recharge, and there is no interference from other wells. The results indicate Well 4 may be safely rated at 955 gpm, the average pumping rate during the 24 hour APT. A graph of the theoretical drawdown type curve is provided in Appendix C.

A drawdown value from the 100 day safe yield calculation of 71.22 feet at 955 gpm, and a static water level of 15.5 feet bgs yields an estimated pumping level of 86.72 feet bgs. In addition to the calculated pumping level, total drawdown should account for seasonal variations in static water level and potential loss of efficiency in well performance over time. For Well 4, we recommend a conservative pump setting of 140 feet bgs.

2.4 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater sampling was performed by PMI at Well 4 just prior to the end of the 24 hour pumping period. The samples were collected in laboratory supplied containers, placed in a cooler on ice, and shipped with chain of custody to Eurofins Eaton Analytical, Inc. (formerly UL) in South Bend, Indiana for laboratory analysis. The samples were analyzed for regulated and unregulated Volatile Organic Compounds (VOCs), Synthetic Organic Compounds (SOCs), Inorganic Compounds (IOCs) and general chemistry parameters. A copy of the laboratory reports are provided as Appendix E.

No VOCs were detected in any of the samples. The only SOC detected was Di(2-ethylhexyl)phthalate, detected at a concentration of 0.6 micrograms per liter (ug/L), which is also the laboratory detection limit. The United States Environmental Protection Agency (USEPA) Maximum Contaminant Level (MCL) established for this constituent, a common plasticizer, is 0.6 ug/L. At this low concentration, the detection may be from the plastic coating on the water level indicator, which was inadvertently pulled into the test pump during the test.

Where detected, all IOCs were below the United States MCLs established for drinking water. Nitrogen as ammonia was detected at a concentration of 0.3 mg/L. While there is no MCL established for this constituent, ammonia in source water can increase the amount of chlorine

required for drinking water disinfection. Arsenic was detected at a concentration of 4.6 ug/L. The MCL for arsenic is 10 ug/L. Iron (Fe) and manganese (Mn) were detected at concentrations of 0.99 milligrams per liter (mg/L) and 25 ug/L, respectively. The secondary MCL for iron is 0.3 mg/L and for manganese, 50 ug/L. Hardness (as CaCO₃), while not atypical for Indiana groundwater, was elevated at a concentration of 330 mg/L. These results, with the exception of the detection of Di(2-ethylhexyl)phthalate, compare closely to the previous sampling and analysis results for TW07A (PMI, 2007).

3.0 DRAWDOWN IMPACT ASSESSMENT

An assessment of potential impact from long term groundwater production of 955 gpm at Well 4 was performed. The extent of the drawdown field, determined during the safe yield analysis summarized in Section 2.3, was utilized. The distribution of predicted drawdown at 100 days is shown in Figure 3. The 5 foot drawdown contour extends outward from Well 4 for a radius of approximately 2 miles.

The estimated drawdown field assumes the aquifer receives no recharge; there is no interference from other wells; and no hydraulic boundaries, such as rivers and streams, are present. Both the White River, located approximately $\frac{3}{4}$ mile north of the Site, and Buck Creek, located approximately 1 mile south of the Site, may behave as boundary conditions, thereby limiting the extent of the predicted 5 foot drawdown.

Potentially impacted wells are identified as any wells located inside the 5 foot drawdown contour. Figure 3 shows the locations of the registered wells with respect to the drawdown field after 100 days of production. The Table provided in Appendix F provides a summary of the wells shown in Figure 3.

As summarized in Appendix F, there are over 500 residential wells located within the 5 foot drawdown contour. Only those wells with IDNR provided estimated or field verified easting and northing coordinates, are included. Additional water wells that have no IDNR records or that were not IDNR verified likely exist in this area. It is difficult to predict which wells may be adversely impacted from long term pumping at Well 4. The greatest potential for impacts from dewatering would be wells which have shallow construction, wells equipped with jet pumps (shallow installations), or wells that have submersible pumps installed at shallow depths. In general, the well log data summary in Appendix F does not provide details regarding pump type, design and installation.

4.0 RESULTS AND RECOMMENDATIONS

In June 2014, Production Well 4 was constructed at the Site by PMI using the direct rotary method. The well is constructed of 16 inch diameter steel casing set at a depth of 50 feet bgs and completed open hole in the bedrock from 50 to 200 feet bgs.

PMI conducted a 24 hour APT at test/production well 4 in July 2014. Well 4 was discharged at an average rate of 955 gpm for 24 hours. Changes in water levels within Well 4, TW07A, and 3 area residential wells were monitored during the test.

From the 24 hour APT data, the specific capacity of Well 4 at 955 gpm is 17.93 gpm/foot of drawdown. Using the Barker (1988) solution, the hydraulic conductivity (**K**) of the aquifer was estimated to be 18.91 feet/day. Assuming an aquifer thickness of 185 feet, the corresponding **T** is estimated to be 3,498.4 ft²/day with an average **Ss** (fracture specific storage) of 1.12×10^{-5} .

The 100 day drawdown of Well 4 pumping at 955 gpm was calculated using the hydraulic parameter values above and the AQTESOLV Forward Solution method. The 100 day drawdown is estimated at 71.22 feet. A static water level of 15.5 feet bgs yields an estimated 100 day pumping level of 86.72 feet bgs. In addition to the calculated pumping level, total drawdown should account for seasonal variations in static water level and potential loss of efficiency in well performance over time. For Well 4, we recommend a conservative pump setting of 140 feet bgs.

Once pumping was terminated at Well 4 on the morning of July 10th, three area residents reported they were without water. These residential properties are all located along W. Cornbread, and range from 2,100 to 3,400 feet west-southwest of the Site. Water levels recovered during the day at 2 of the wells and the third well required pump replacement.

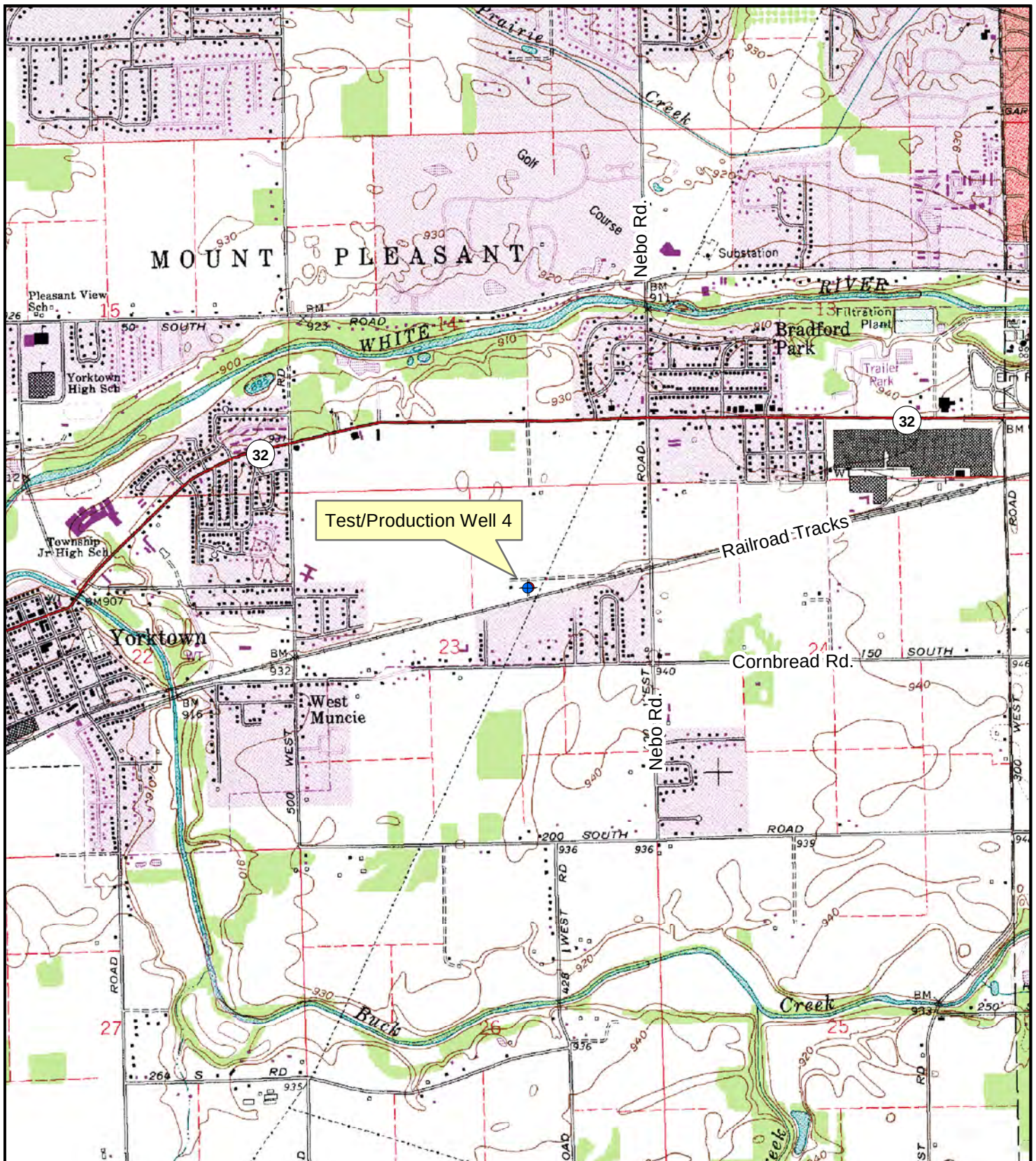
An assessment of potential impact from long term groundwater production of 955 gpm at Well 4 was performed. The distribution of predicted drawdown at 100 days extends outward from Well 4 for a radius of approximately 2 miles (Figure 3). Potentially impacted wells are identified as any wells located inside the 5 foot drawdown contour. While it is difficult to predict which wells may be adversely impacted from long term pumping, the greatest potential for impacts from dewatering would be wells which have shallow construction, wells equipped with jet pumps (shallow installations), or wells that have submersible pumps installed at shallow depths.

The calculations presented within this report are based upon the current understanding of the aquifer properties at the site and the recommended groundwater production rate. If future investigations and groundwater production practices indicate that the aquifer hydraulic parameter values are not consistent across the Site or groundwater production rates occur at rates other than those specified in this report the impact assessment should be re-evaluated.

5.0 REFERENCES

- Barker, J.A., 1988. A generalized radial flow model for hydraulic tests in fractured rock, *Water Resources Research*, vol. 24, no. 10, pp. 1796-1804.
- Cooper, H.H. and C.E. Jacob, 1946. A generalized graphical method for evaluating formation constants and summarizing well field history, *Am. Geophys. Union Trans.*, vol. 27, pp. 526-534.
- HydroSOLVE, Inc., 2007, AQTESOLV – Version 4.50.000, Glenn Duffield.
- Peerless-Midwest, Inc., April 2003, *Fracture Trace Analysis – Yorktown, Indiana*.
- Peerless-Midwest, Inc., June 2007, *Results of Beaman Property Groundwater Resource Evaluation, Yorktown, Indiana*.

FIGURES



MAP FEATURES

- ◆ Production Well 4
- ◆ Test Well TW07A

2000 0 2000



Feet

Scale 1: 24,000



SITE LOCATION MAP

Yorktown Well 4

S.O. 27357

Drawn by: TRN

Date: 7/30/14



PEERLESS-MIDWEST, INC.



MAP FEATURES

- + Production Well 4
- + Test Well TW07A
- Residential Well (Monitored for APT)
- Well Pumped Dry

800 0 800



Feet

Scale 1: 12,000

N



SITE DETAIL MAP

Yorktown Well 4

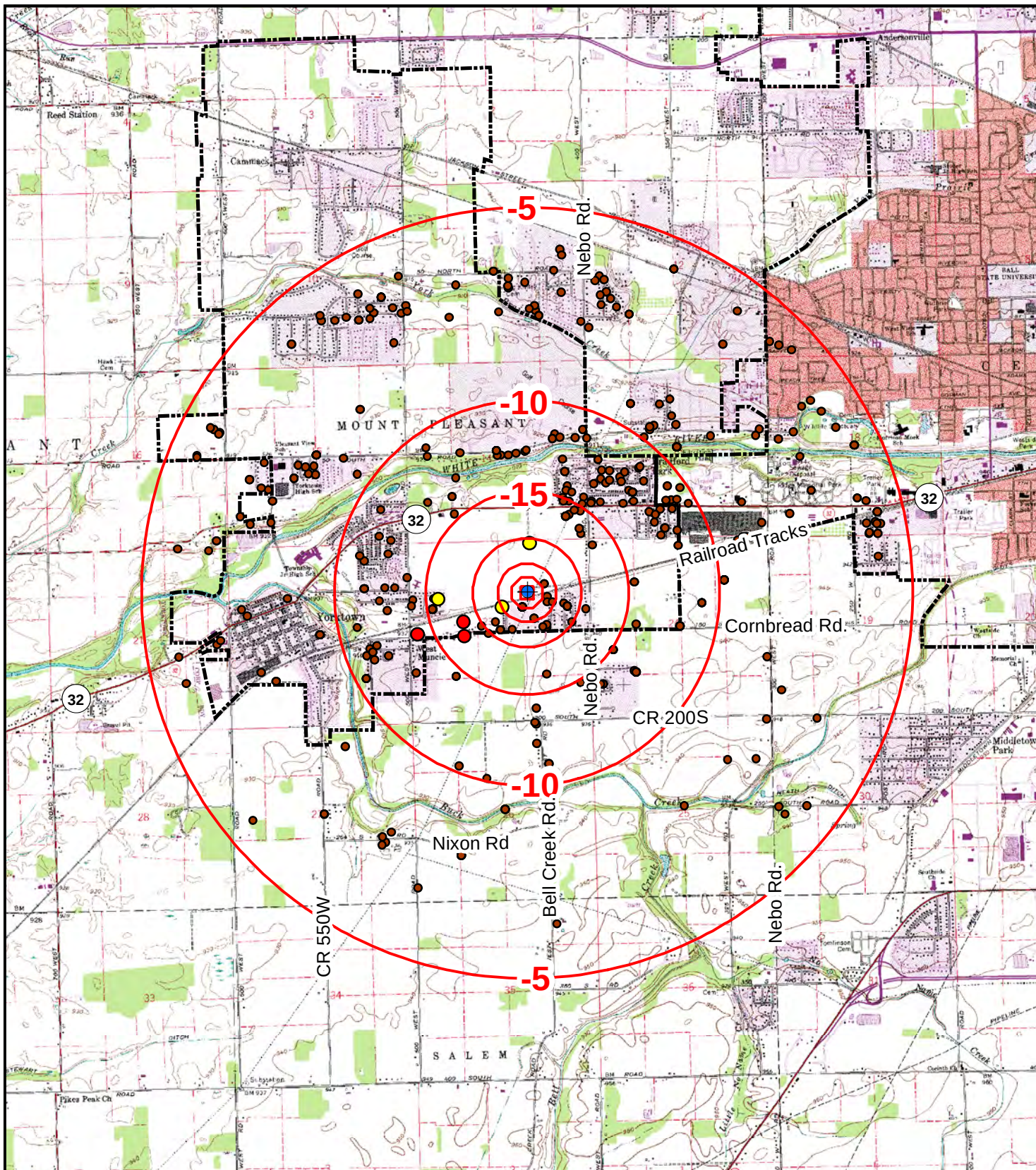
S.O. 27357

Drawn by: TRN

Date: 7/30/14



PEERLESS-MIDWEST, INC.



MAP FEATURES

- Production Well 4
- Drawdown Contour (C.I. = 5 feet)
- Residential Well (Monitored for APT)
- Well Pumped Dry
- IDNR Water Well Record
- Incorporated Areas

4000 0 4000

Feet

Scale 1: 48,000



WELL 4 - PREDICTED 100 DAY DRAWDOWN AT 955 GPM

Yorktown Well 4

S.O. 27357

Drawn by: TRN

Date: 7/30/14



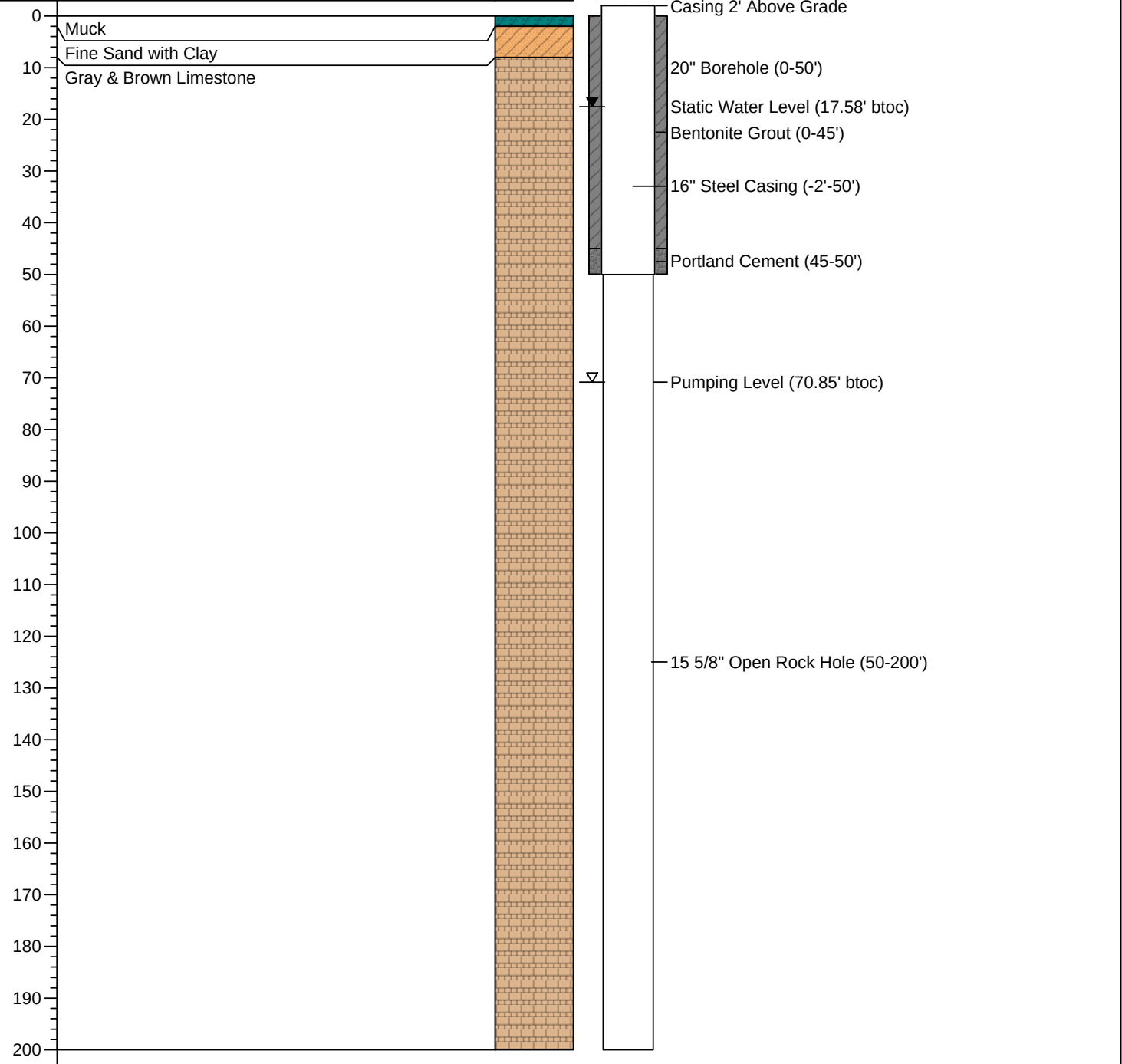
PEERLESS-MIDWEST, INC.

APPENDIX A

Well Logs

City : Yorktown	County : Delaware	Test Rate : 955 gpm
State : Indiana	Twp. (T/R) : Mt. Pleasant (T20N/R9E)	Static Water Level : 17.58' btoc
Location : 1100' N of Cornbread Rd. & 1800' W of Nebo Rd.	1/4,1/4,1/4,Sec.# : NE, SW, NE, 23	Pumping Level : 70.85' btoc
	UTM Coordinates : NAD 27 Zone 16	Specific Capacity : 17.93 gpm/ft drawdown
	N: 4,448,019 E: 630,417	Length of Test : 24 hours

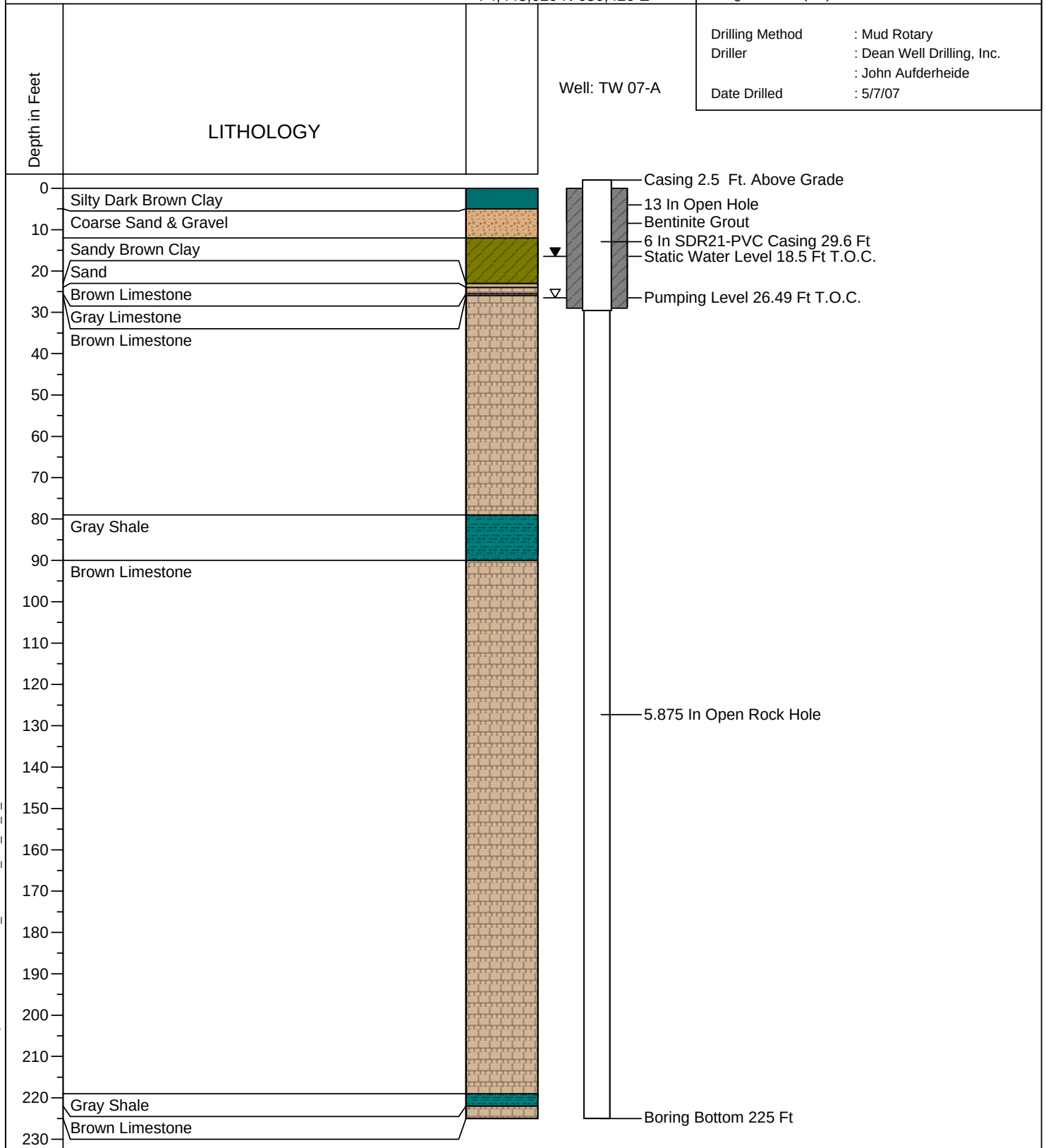
Depth in Feet	LITHOLOGY	Well: #4 Elev: 735 ±5	Drilling Method : Mud-Air Rotary
			Driller : Tim Hann
			Date Drilled : 6/21/14



City : Yorktown
 State : Indiana
 Location : 1,900' W of Nebo Rd. & 1,150'
 N of Cornbread Rd.

County : Delaware
 Twp. (T/R) : Mt. Pleasant (T20N/R9E)
 1/4,1/4,1/4,Sec.# : 23
 UTM Coordinates : NAD 27 ZONE 16
 : 4,448,020 N 630,426 E

Test Rate : 180 GPM
 Static Water Level : 18.5 Ft T.O.C.
 Pumping Level : 28.49 Ft T.O.C.
 Specific Capacity : 18.1 GPM/Ft. D.D.
 Length of Test (hrs) : 4



05-30-2007 K:\JOB FILES\SW-2\Yorktown, IN\Test Well\20998_Yorktown_TW_07_A_2007.bor

Town of Yorktown
 Yorktown, Indiana
 Job Number 20998



PEERLESS-MIDWEST
 Mishawaka, IN Ionia, MI
 Westfield, IN Wixom, MI
 Water Supply Contractors
 & Hydrogeologists
www.pmidwest.com

APPENDIX B

Well 4 New Well Site Survey



NEW WELL SITE SURVEY

State Form 50896 (R4 / 3-06)

Indiana Department of Environmental Management

Office of Water Quality

Date Submitted:

February 25, 2014

INSTRUCTIONS: Complete all information and mail two (2) copies to: IDEM, OWQ, DWB, Field Inspection Section
100 N. Senate Avenue, MC: 66-34
Indianapolis, IN 46204-2251

SECTION I - FOR ALL PUBLIC WATER SUPPLY SYSTEMS

1. System Name (Facility): Yorktown Water Department	2. System PWSID number: 5218014
3. Mailing Address: 2201 West St., Yorktown, IN 47396	
4. City of Facility: Yorktown	5. County of Facility: Delaware
6. System Contact Person: Wayne Studebaker, Water Superintendent	7. Telephone number: (765) 759-4009
8. Type of Application: ☐ New System Well ☐ Replacement Well ☒ Additional Well	

9. Provide the location of the proposed well site in UTM or Lat/Long coordinates. (Please provide this information on a separate sheet of paper in your packet.)

SECTION II - FOR COMMUNITY PUBLIC WATER SUPPLY SYSTEMS By 327 IAC 8-4.1 and 327 IAC 8-3.4 all community systems must submit:

	Location in Packet	IDEM Use Only		
		Information Present?	Reviewer	Item #
1. A USGS topographical map showing the areas surrounding the well and proposed well site.	Figure 1			1
2. A map drawn to a scale between 1"=400' and 1"=1,000', showing:				
A. Ownership and any easement boundaries of the proposed well site,	Figure 1			2
B. The location of the proposed well,	Figure 1			3
C. The isolation area,	Figure 1			4
D. The wellhead protection area.	Figure 1			5
3. A summary of the aquifer system used by the proposed well where available.	Page 1			6
4. An inventory of potential sources of contamination within a 3000' radius of the proposed well.	Page 1			7
5. A schedule for the development of a Phase I Wellhead Protection Plan.	Page 1			8
6. Driving directions to the proposed well site.	Page 1			9

SECTION III - FOR NONCOMMUNITY PUBLIC WATER SUPPLY SYSTEMS By 327 IAC 8-3.4 all noncommunity systems must submit:

1. A map drawn to a scale showing:				
A. Ownership and any easement boundaries of the proposed well site,				10
B. The location of the proposed well,				11
C. The isolation area,				12
D. An inventory of potential sources of contamination within a 1000' radius of the proposed well.				13
2. The name of the USGS topographical map(s) for the proposed well site.				14
3. A summary of the aquifer system used by the proposed well where available.				15
4. Driving directions to the proposed well site.				16

General Instructions - The application provides a check-list to ensure that all required information is provided. A well site visit will not be scheduled until all of the required information is submitted. In the column "Location in Packet" indicate the page number in the packet where each item may be found. Mail two (2) copies of the requested information to: IDEM, OWQ, DWB, Field Inspection Section, 100 N. Senate Avenue, MC: 66-34, Indianapolis, IN 46204-2251.

Instructions for Section I - For All Public Water Supply Systems

1. System name as it should appear on all reports and correspondence. If the system is currently in operation this is the name currently being used.
2. Public Water Supply Identification Number (PWSID #), a unique number assigned to every public water system. If you have not been assigned a number, leave this blank and one will be assigned at a later date. If you are currently an operating system you have a PWSID and should provide it here.
- 3.-5. The mailing address to be used for correspondence with the system along with the city and county.
- 6.-7. Contact person and telephone number. This will be the person that IDEM will contact concerning the public water system.
8. Indicate the type of application; a new well for a new public water system; a replacement well is replacing a well at an existing public water system; and an additional well is adding a well to an existing public water system.
9. On a separate sheet of paper (not on this application) provide the UTM or Latitude and Longitude coordinates for the proposed well site.

Instructions for Section II - For Community Public Water Supply Systems (a system with year round residents)

1. The topographical map showing the proposed well site and the area around the well. If you do not use the entire map make sure the map name, number, and scale are included in the "cut-up" version. Topographical maps are available for a small fee from the Department of Natural Resources, Map Sales Division. You may contact the Map Sales Division at (317) 232-4180.
2. A detailed map drawn to a scale between 1" = 1000' and 1" = 400'. (1" = 1000' is 2x the scale of a topographical map). The map must show the following:
 - a. Easements and property ownership boundaries for the property where the proposed well site will be located.
 - b. Locate as precisely as possible on the map where the proposed well will be located.
 - c. For community systems this is a 200' radius from the proposed well location.
 - d. Indicate the Wellhead Protection Area. The wellhead rule (327 IAC 8-4.1) provides five methods to delineate a wellhead protection area. For a proposed well **ANY** of these methods can be used regardless of the proposed pumping or actual pumping of the system. This means that **ANY** system can use a 3000' fixed radius for the proposed well site application. **This does not qualify the system to use the 3000' fixed radius as a delineation method for your Wellhead Protection Plan nor does this application qualify as a Wellhead Protection Plan.** For more information about delineation methods refer to 327 IAC 8-4.1 or call the wellhead protection program at (317) 308-3308.
3. If there has been a study or report for the aquifer system a summary of the report must be included.
4. A potential sources of contamination inventory performed in the 3,000' radius of the well which lists existing facilities, sites, practices, and activities for both regulated and unregulated potential sources of contamination. The inventory must be submitted in the following form:
 - a. A map with the potential sources of contamination plotted showing their locations relative to the wellhead protection boundaries drawn to a scale between 1" = 400' and 1" = 1000'.
 - b. A table containing information describing the potential sources of contamination including:
 - (i) Facility I.D. Number (cross-referenced to 'b' above);
 - (ii) Facility name and location;
 - (iii) Site description;
 - (iv) Any environmental permits issued for the site, including number and agency issuing the permit;
 - (v) Types of contaminants at the site; and,
 - (vi) The operating status of site.
 - c. A narrative description of land uses within the Wellhead Protection Area.
5. Provide a schedule for the development of the required Phase I portion of the Wellhead Protection Plan.
6. Provide detailed driving directions to the proposed well site.

Instructions Section III - For Noncommunity Public Water Supply Systems (a system with no year round residents)

1. A map drawn to any scale, which shows:
 - a. Easements and property ownership boundaries for the property where the proposed well site will be located.
 - b. Locate as precisely as possible on the map where the proposed well will be located.
 - c. For noncommunity systems this is a 200' radius from the proposed well location
 - d. The location of potential sources of contamination within a 1000' radius of the proposed well.
2. Provide the name of the topographical map(s) that the proposed well site appears on.
3. If there has been a study or report for the aquifer system a summary of the report must be included.
4. Provide detailed driving directions to the proposed well site.

**New Well Site Survey
Yorktown Water Department
Yorktown, Indiana**

Prepared for:

IDEM, OWQ, DWB, Field Inspection Section
100 N. Senate Avenue, MC: 66-34
Indianapolis, IN 46204-2251

Prepared By:

Butler, Fairman & Seufert, Inc.
8450 Westfield Blvd., Suite 300
Indianapolis, IN 46240

February 2014

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New Well Site Application

Section II – For Community Public Water Supply Systems

1. **A USGS topographical map showing the areas surrounding the well and proposed well site.**

Attached in Figure 1 is an USGS topographical map showing the areas surrounding the well and proposed well site.

2. **A map drawn to a scale between 1"=400' and 1"=1,000', showing:**

The isolation area, location of the proposed well, ownership and any easement boundaries of the proposed well, and limits of the wellhead protection area can be found in Figure 1.

3. **A summary of the aquifer system used by the proposed well where available.**

See Appendix B for the Report "Results of Beaman Property Groundwater Resource Evaluation" performed by Peerless Midwest, Inc.

4. **An inventory of potential sources of contamination within a 3000' radius of the proposed well.**

No potential sources of contamination within the 3000' wellhead protection area are known or anticipated at this time.

5. **A schedule for the development of a Phase I Wellhead Protection Plan.**

A Phase I Wellhead Protection Plan will be developed and submitted to IDEM within four years as required by WHP Rule 327 IAC 8-4.1-16.

6. **Driving directions to the proposed well site.**

From Indianapolis, take I-69 Northbound towards Daleville. Take Exit 234-34 from I-69 to State Road 32 Eastbound. Follow State Road 32 eight miles to South Nebo Road in Yorktown. Take a right, southbound, on Nebo Road and travel 0.60 miles to an access drive on the right just north of the Railroad Crossing. Take a right and travel southeast 1,800 feet along the access drive to the well site.

Figure 1: Proposed Well Location 1" = 800'

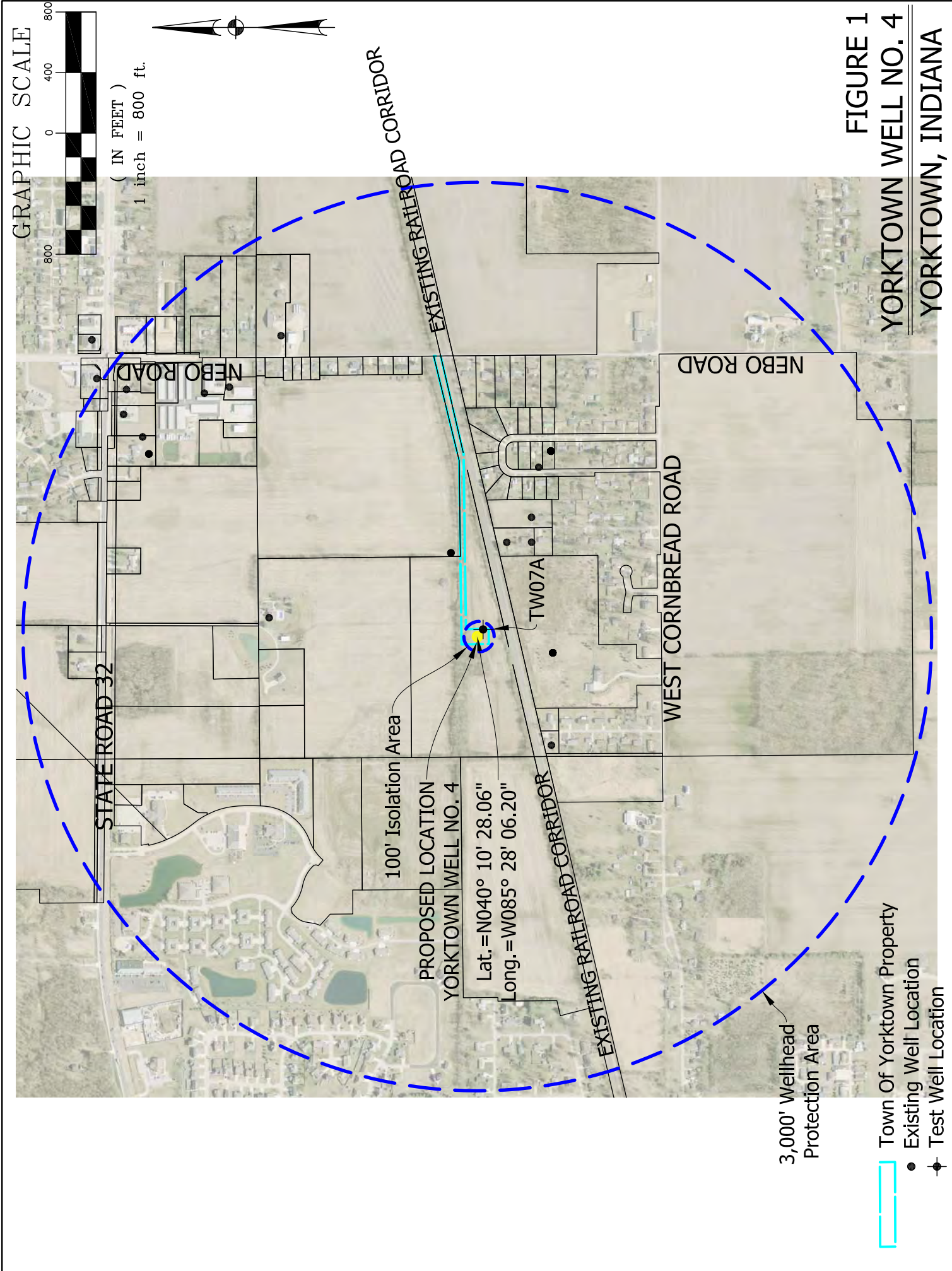


Figure 2: Proposed Well Location 1" = 400'

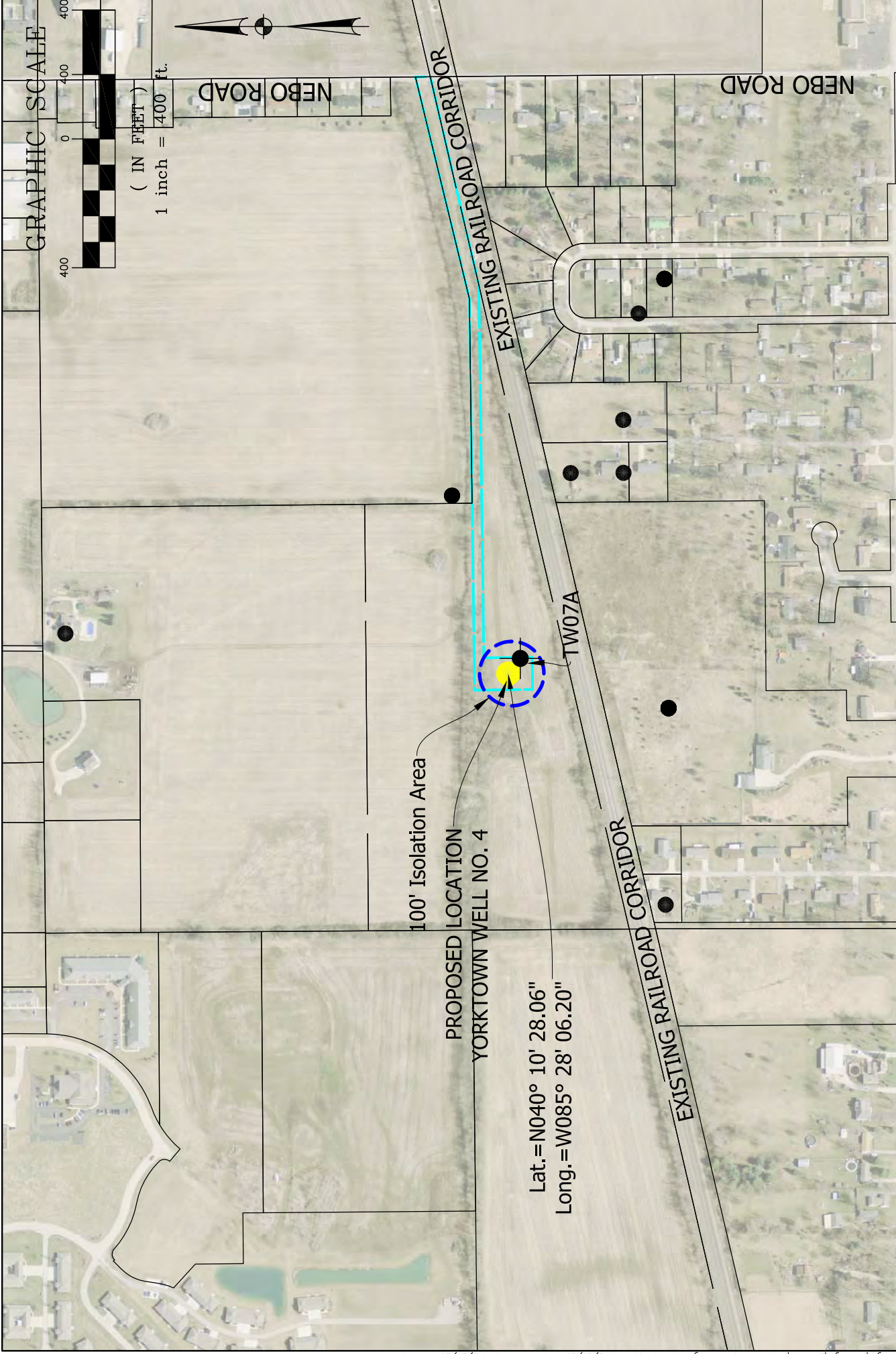


FIGURE 2
YORKTOWN WELL NO. 4
YORKTOWN, INDIANA

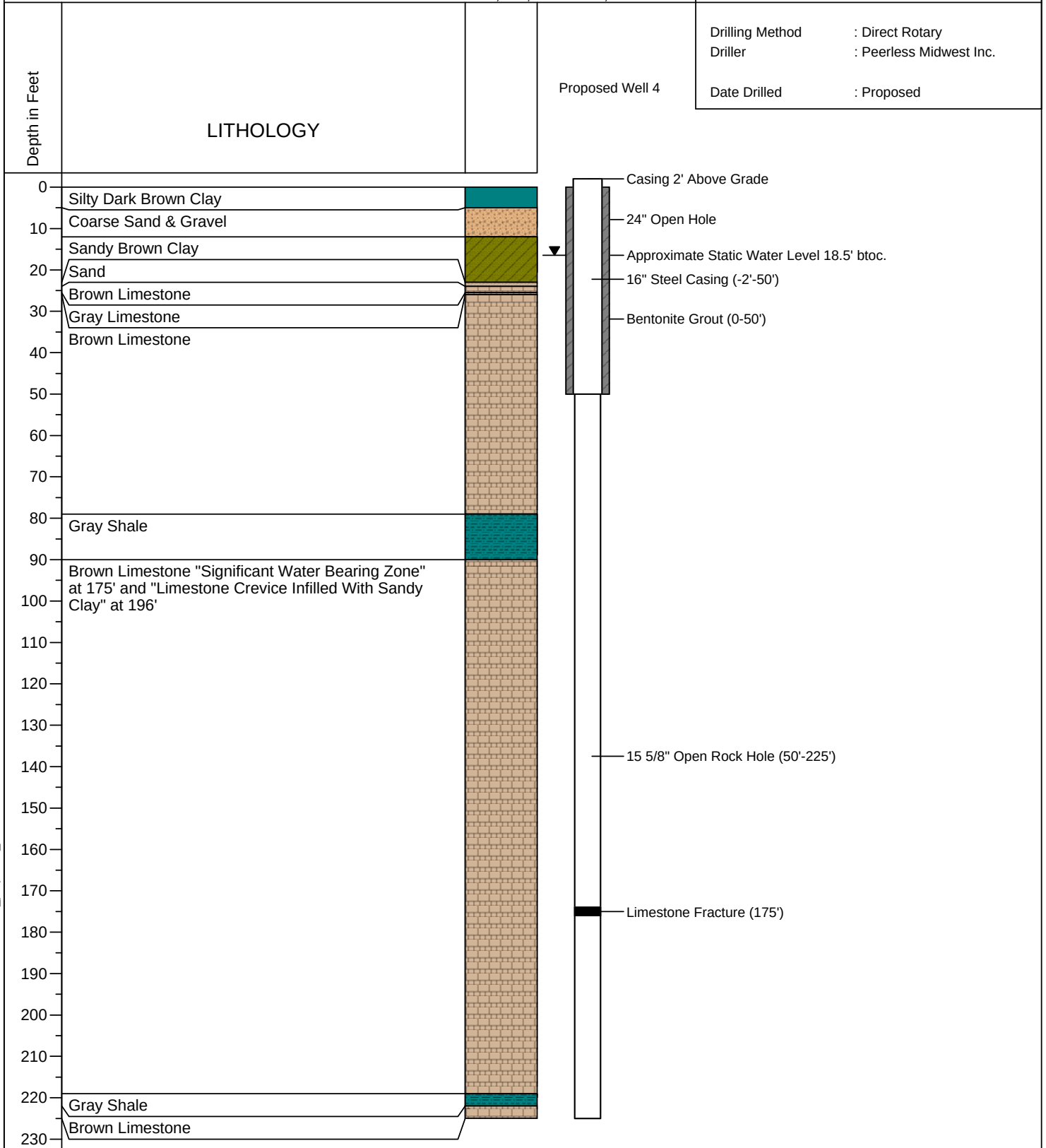
- Town Of Yorktown Property
- Existing Well Location
- Test Well Location

Appendix A: Proposed Well Design

City : Yorktown
 State : Indiana
 Location : 1,900' W of Nebo Rd. & 1,150'
 N of Cornbread Rd.

County : Delaware
 Twp. (T/R) : Mt. Pleasant (T20N/R9E)
 1/4,1/4,1/4,Sec.# : 23
 UTM Coordinates : NAD 27 ZONE 16
 : 4,448,020 N 630,426 E

Test Rate :
 Static Water Level : ~18.5' btoc
 Pumping Level :
 Specific Capacity :
 Length of Test (hrs) :



Town of Yorktown
 Yorktown, Indiana
 Proposed Well 4





INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

April 11, 2014

Mr. Wayne Studebaker
Yorktown Water Department
2201 West Street
Yorktown, Indiana 47396

Mr. Studebaker:

Re: Well Site Survey
Yorktown Water Department
PWSID #5218014

Ms. Carolyn Chappell of this office conducted a well site survey on March 28, 2014 at Yorktown Water Department, Delaware County, Yorktown, Indiana. All information has been received and the enclosed survey has been issued. The survey is valid for one (1) year from the date of survey. A copy has been forwarded to the Construction Permit Section of the Drinking Water Branch.

If you have any questions regarding this correspondence, please contact Ms. Carolyn Chappell of my staff at 317/694-2397.

Sincerely,

Liz Melvin, Chief
Field Inspection Section
Drinking Water Branch
Office of Water Quality

Enclosure

cc: Mr. Marc Hancock, IDEM
Delaware County Health Department

REPORT OF SURVEY
Proposed Well Site
Yorktown Water Department
PWSID #5218014

LOCATION: Mount Pleasant Township, Delaware County, Indiana

SURVEYED BY: Ms. Carolyn Chappell, Indiana Department of Environmental Management

SURVEY DATE: March 28, 2014

GENERAL: At the request of Mr. Wayne Studebaker, certified operator of the Yorktown Water Department, a sanitary well site survey was conducted for additional production well for the Yorktown Water system. Mr. Roger Britton, Yorktown Water Department, was present during the survey.

GENERAL
DESCRIPTION OF
WELL SITE:

The proposed well is located on the east side of Yorktown, 1800 feet to the west of Nebo Road.

COMMENTS: The proposed well is a new production well that will serve the Yorktown Water system. A water treatment plant will be built next to the proposed well.

The location covered in this report was surveyed from the standpoint of providing protection from sources of contamination originating at or near the ground surface in the vicinity of the proposed well.

CONDITIONS
OF OPERATION:

The proposed well location complies with 327 IAC 8-3.4-9 and once permitted and installed may serve the Yorktown Water community public water supply subject to the following conditions.

1. That the Yorktown Water Department public water supply system control the area within 100 feet from the wells by purchase, registered easement, long-term lease, or by covenants in the deeds of the surrounding land, prohibiting the construction or maintenance of any sewers, drains, privies, cesspools, septic tanks, or any other potential source of contamination within 100 feet of the well. Copies of these documents are to be provided to this office.

2. That the Yorktown Water Department public water supply system submits to this office a complete report on each well drilled. This report should include a log showing the different strata encountered and the depth of the pump setting, the length of the screen, the static and pumping water levels, pumping capacity, log of pump test, back-grouting, and details of how the well casing is sealed into rock, if rock is encountered. Copies of the report shall be maintained on site.
3. That complete plans and specifications for the construction of the well and pumphouse, and the disinfection equipment, connecting piping, sampling spigots, and other pertinent information be prepared by a professional Engineer registered in the State of Indiana and submitted to Indiana Department of Environmental Management for review and approval.
4. That the system be equipped with a sampling tap for raw water from the well. Sampling taps shall be of the smooth nosed type without interior or exterior threads, shall not be of the mixing type, and shall not have a screen, aerator, or other such appurtenance. The tap is to be located before all treatment and storage. The sample tap is to be in compliance with the requirements of the ground water rule.
5. That a determination of the influences of the surface water sources upon the quality of the water produced by the well shall be made and if determined to be ground water under the influence of surface water, treatment and monitoring must be provided in accordance with Indiana 327 IAC 8-2-8.5 through 8-2-8.8 inclusive.

To complete the GWUDI assessment of the new well, the Yorktown Water Department must provide the results of six (6) months **raw** water bacteriological sample analysis to the Drinking Water Branch. Also four (4) months of raw water temperatures must be submitted. The analysis of the six (6) months of raw samples and the temperature analysis are to be sent in one report at the end of the test period.

The results of this determination must be submitted to the Drinking Water Branch within eight (8) months of the completion of the well construction.

That the water from the well(s) be treated with conventional surface water treatment, if the water is determined to be under the influence of surface water.

6. That two (2) consecutively satisfactory bacteriological samples taken at least twenty-four (24) hours apart, one (1) satisfactory nitrate sample, and one (1) fluoride sample be taken from each well before the wells are put into production. Copies of the sample results are to be mailed to Liz Melvin, Chief, Field Inspection Section, of the Drinking Water Branch.
7. That the area immediately surrounding the well casings be sloped, so that surface water drains away and prevent any water from pooling or standing next to the casing.
8. That in accordance with 327 IAC 8-3.4-16(a)(5)(A)(ii) the permanent well casing shall terminate at a level of at least eighteen (18) inches above finished grade or at least thirty-six (36) inches above the regulatory flood elevation if located in a designated flood hazard area identified by the Federal Emergency Management Agency (FEMA).
9. That original well logs and copies of well production tests are submitted to the Division of Water, Department of Natural Resources in accordance with IC 25-39-4 within thirty (30) days after completion. Copies of the logs and tests shall be maintained on site.
10. That a meter capable of measuring the discharge from the well be located at a convenient point in the piping system.
11. That all water from the well be subjected to automatic disinfection treatment meeting the provisions of 327 IAC 8-2-8.6 prior to entering the distribution system.
12. That the system develops a wellhead protection plan to include the new well.
13. This well site survey shall be valid for a period of one (1) year ending March 28, 2015. If construction has not begun by March 28, 2015, a request for an updated well site survey or an extension of this survey must be made prior to beginning construction.

If IDEM issues a construction permit for this project, these conditions will be incorporated into the construction permit. This survey does not constitute a construction permit. You must obtain a valid construction permit prior to construction. If your construction application has not yet been submitted, you must include a copy of this survey as part of a complete construction permit application

APPENDIX C

Aquifer Test Data & Type Curve Analyses

Aquifer Performance Test Drawdown Data, Yorktown Well 4, Yorktown, Indiana

Elapsed Time Since Pumping Began (minutes)	Drawdown (feet)	
	Well 4	TW07A
1	16.23	8.42
2	25.85	13.06
3	26.57	14.09
4	29.13	15.65
5	29.99	16.48
6	30.58	17.09
7	30.85	17.58
8	31.85	18.12
9	32.51	18.65
10	32.91	19.07
11	32.97	19.44
12	33.91	19.73
13	33.86	20.10
14	34.44	20.40
15	34.92	20.65
16	34.95	20.88
17	35.55	21.16
18	35.26	21.36
19	35.68	21.60
20	35.89	21.80
21	36.35	21.97
22	36.17	22.13
23	36.20	22.34
24	36.64	22.45
25	36.62	22.65
26	37.06	22.78
27	37.07	22.92
28	37.46	23.06
29	37.05	23.24
30	37.51	23.36
35	38.39	24.02
40	38.87	24.43
45	38.68	24.88
50	39.53	25.31
55	39.92	25.74
60	40.29	26.05
65	40.75	26.38
70	41.14	26.70
75	41.28	27.00
80	41.50	27.25
85	41.87	27.52
90	41.84	27.72
105	42.65	28.44
120	43.19	28.92
135	43.62	29.43
150	43.92	29.82
165	44.33	30.14
180	44.45	30.53
195	44.69	30.92
210	45.65	31.25
225	45.68	31.53
240	45.74	31.86
255	46.10	32.04
270	46.20	32.28

Aquifer Performance Test Drawdown Data, Yorktown Well 4, Yorktown, Indiana

Elapsed Time Since Pumping Began (minutes)	Drawdown (feet)	
	Well 4	TW07A
285	46.35	32.50
300	46.65	32.74
315	46.87	32.95
330	47.13	33.13
345	47.61	33.36
360	47.46	33.51
375	47.67	33.72
390	48.12	33.95
405	48.33	34.07
420	48.52	34.20
435	48.49	34.38
450	48.93	34.55
465	49.12	34.71
480	48.85	34.86
495	49.25	35.05
510	49.29	35.17
525	49.42	35.32
540	49.66	35.43
555	49.78	35.58
570	49.72	35.72
585	49.93	35.79
600	50.21	35.96
615	50.16	36.00
630	50.13	36.13
645	50.50	36.27
660	50.28	36.38
675	50.79	36.52
690	50.81	36.65
705	50.82	36.81
720	50.91	36.89
735	51.05	37.03
750	50.97	37.16
765	50.93	37.28
780	51.60	37.42
795	51.31	37.55
810	51.59	37.67
825	51.67	37.78
840	51.96	37.86
855	52.09	37.99
870	52.30	38.12
885	51.97	38.19
900	52.52	38.29
915	52.25	38.36
930	52.32	38.40
945	52.63	38.45
960	52.59	38.51
975	52.62	38.57
990	52.63	38.57
1005	52.81	38.61
1020	52.60	38.60
1035	52.74	38.62
1050	52.81	38.63
1065	52.75	38.66
1080	52.77	38.63

Aquifer Performance Test Drawdown Data, Yorktown Well 4, Yorktown, Indiana

Elapsed Time Since Pumping Began (minutes)	Drawdown (feet)	
	Well 4	TW07A
1095	52.69	38.61
1110	52.77	38.64
1125	52.54	38.64
1140	52.83	38.66
1155	52.53	38.69
1170	52.66	38.68
1185	52.58	38.72
1200	52.64	38.70
1215	52.90	38.68
1230	53.10	38.72
1245	52.91	38.74
1260	52.77	38.73
1275	52.66	38.70
1290	52.76	38.76
1305	52.88	38.75
1320	52.88	38.79
1335	52.87	38.83
1350	53.12	38.88
1365	52.99	38.93
1380	53.10	38.93
1395	52.87	38.92
1410	53.07	38.96
1425	52.95	38.97
1426	53.12	39.00
1427	53.03	38.98
1428	53.12	39.02
1429	53.00	38.99
1430	53.15	38.99
1431	53.16	38.98
1432	52.93	38.97
1433	53.02	38.99
1434	53.09	39.03
1435	53.07	39.02
1436	52.86	38.95
1437	52.98	38.99
1438	52.92	38.99
1439	53.13	38.98
1440	52.86	39.00
1441	27.18	27.36
1442	25.42	25.41
1443	24.09	24.14
1444	23.15	23.19
1445	22.42	22.43
1446	21.81	21.87
1447	21.30	21.35
1448	20.84	20.90
1449	20.45	20.47
1450	20.08	20.11
1451	19.76	19.82
1452	19.47	19.53
1453	19.20	19.25
1454	18.94	18.99
1455	18.70	18.72
1456	18.49	18.54

Aquifer Performance Test Drawdown Data, Yorktown Well 4, Yorktown, Indiana

Elapsed Time Since Pumping Began (minutes)	Drawdown (feet)	
	Well 4	TW07A
1457	18.29	18.30
1458	18.08	18.11
1459	17.90	17.93
1460	17.73	17.77
1461	17.55	17.59
1462	17.39	17.41
1463	17.24	17.27
1464	17.09	17.13
1465	16.96	16.98
1466	16.81	16.85
1467	16.69	16.71
1468	16.56	16.61
1469	16.43	16.46
1470	16.33	16.34
1475	15.78	15.80
1480	15.30	15.33
1485	14.88	14.93
1490	14.50	14.52
1495	14.13	14.16
1500	13.82	13.84
1505	13.50	13.54
1510	13.24	13.27
1515	12.96	12.99
1525	12.44	12.53
1535	12.04	12.09
1545	11.63	11.65
1555	11.26	11.28
1565	10.89	10.96
1575	10.61	10.65
1605	9.79	9.84
1635	9.08	9.15
1665	8.50	8.55
1695	7.95	7.98
1725	7.48	7.51
1755	7.05	7.14
1785	6.67	6.71
1815	6.25	6.32
1845	5.84	5.92
1875	5.45	5.53
1905	5.07	5.15
1935	4.72	4.80
1965	4.41	4.48
1995	4.10	4.17
2025	3.81	3.87
2055	3.53	3.58
2085	3.30	3.37
2115	3.06	3.11
2145	2.85	2.89
2175	2.66	2.73
2205	2.49	2.57
2235	2.32	2.36
2265	2.20	2.27
2295	2.06	2.11
2325	1.92	1.96

Aquifer Performance Test Drawdown Data, Yorktown Well 4, Yorktown, Indiana

Elapsed Time Since Pumping Began (minutes)	Drawdown (feet)	
	Well 4	TW07A
2355	1.78	1.83
2385	1.69	1.73
2415	1.61	1.67
2445	1.59	1.65
2475	1.55	1.63
2505	1.51	1.60
2535	1.50	1.53
2565	1.48	1.54
2595	1.43	1.49
2625	1.40	1.44
2655	1.34	1.38
2685	1.23	1.28
2715	1.13	1.15
2745	0.99	1.07
2775	0.91	0.93
2805	0.79	0.83
2835	0.70	0.77
2865	0.62	0.67
2880	0.57	0.63

Recovery data is shaded



17707 Sun Park Drive / Westfield, Indiana 46074 / 317-896-2987 / Fax 317-896-3748

24 HOUR PUMPING TEST DATA REPORT

Job No. 27375 Owner Yorktown Date: 7/9-10/2014

Location Well 4 Page 1 of 2

Pumping Test Performed on Well # _____

Readings Measured on: **Pumping Well #** Well 4 Observation Well # _____

Hydrogeologist TRN Project Manager EJW

Static Water Level 17.58' Readings Made By: Airline _____ Electronic Water Level Indicator X

Measured From Top of Casing Which is _____ Above Ground Level Elev. Of _____

Orifice Size _____ Inches _____ PSI _____

8:00 Start 7/9/2014

Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)
8:01a.m.	1			8:35	35	991	56.15	1:00p.m.	300	955	64.52
8:02	2	Adjust		8:40	40		56.45	1:30	330	955	64.93
8:03	3	Valve		8:45	45		56.92	2:00	360	955	65.35
8:04	4	991	47.24	8:50	50	991	57.37	3:00	420	955	66.02
8:05	5		48.20	8:55	55		57.80	4:00	480	955	66.70
8:06	6		48.83	9:00	60		58.14	5:00	540	955	67.30
8:07	7		50.00	9:15	75		58.95	6:00	600	955	67.74
8:08	8		50.50	9:30	90		59.82	7:00	660	955	68.20
8:09	9		50.89	9:45	105		60.38	8:00	720	955	68.70
8:10	10		51.22	10:00	120		60.83	9:00	780	955	69.15
8:12	12		51.65	10:15	135		61.35	10:00	840	955	69.70
8:14	14		52.33	10:30	150		61.69	11:00	900	955	70.10
8:16	16		52.75	10:45	165		62.00	Midnight 7/10/14	960	955	70.30
8:18	18		53.28	11:00	180		62.30	1:00a.m.	1020	955	70.40
8:20	20		53.71	11:30	210		63.10	2:00	1080	955	70.40
8:25	25		24.59	Noon	240		63.65	3:00	1140	955	70.40
8:30	30		55.41	12:30	270	Residential Wells	--	4:00	1200	955	70.50

Readings Taken By:



17707 Sun Park Drive / Westfield, Indiana 46074 / 317-896-2987 / Fax 317-896-3748

24 HOUR PUMPING TEST DATA REPORT

Job No. 27375 Owner Yorktown Date: 7/10/2014

Location Well 4 Page 2 of 2

Pumping Test Performed on Well # _____

Readings Measured on: **Pumping Well #** Well 4 Observation Well # _____

Hydrogeologist TRN Project Manager EJW

Static Water Level 17.58' Readings Made By: Airline _____ Electronic Water Level Indicator X

Measured From Top of Casing Which is _____ Above Ground Level Elev. Of _____

Orifice Size _____ Inches _____ PSI _____

Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)
5:00a.m. 7/10/14	1260	955	70.45		16		36.00				
6:00	1320	955	70.60		18		36.50				
7:00	1380	955	70.80		20		35.20				
24 Hrs.	1440	955	70.85		25		34.55				
RECOVERY					30		33.82				
8:01	1		43.50		35		33.40				
8:02	2		41.50		40		32.82				
8:03	3		40.90		45		32.47				
8:04	4		40.40		50		32.08				
8:05	5		40.10		55		31.63				
8:06	6		39.50	9:00	60		31.20				
8:07	7		38.90	9:15	75		30.50				
8:08	8		38.35		90						
8:09	9		37.95		105						
8:10	10		37.55	11:02	120		27.00				
8:12	12		37.00		END OF RECOVERY						
8:14	14		36.45								

Readings Taken By:



17707 Sun Park Drive / Westfield, Indiana 46074 / 317-896-2987 / Fax 317-896-3748

PUMPING TEST DATA REPORT

Job No. 27375 Owner The Town of Yorktown, Indiana Date: 7/9-10/2014

Location Well 4 Page 1 of 2

Pumping Test Performed on Well # 4

Readings Measured on: Pumping Well # _____ Observation Well # Obs. Well (20' East)

Hydrogeologist TRN Project Manager EJW

Static Water Level 17.68' Readings Made By: Airline _____ Electronic Water Level Indicator X

Measured From Top of Casing Which is _____ Above Ground Level Elev. Of _____

Orifice Size _____ Inches _____ PSI _____

Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)
	1			8:35	35	991	41.88	1:00	300	955	50.52
	2	Adjust		8:40	40		42.30	1:30	330		50.92
	3	Valve		8:45	45		42.70	2:00	360		51.31
	4	991	34.40	8:50	50		43.21	3:00	420	955	51.98
	5		35.05	8:55	55		43.90		480		52.63
8:06	6		35.50	9:00	60		43.94		540		53.20
	7		36.38	9:15	75		44.82		600		53.64
	8		36.82	9:30	90		45.72		660		54.20
	9		37.11	9:45	105		46.21		720	955	54.70
8:10	10		37.58	10:00	120		46.70		780		55.15
8:12	12		37.81	10:15	135		47.21		840		55.60
	14		38.42	10:30	150		47.63		900		56.00
	16		38.73	10:45	165		48.00		960		56.30
	18		39.23	11:00	180		48.31		1020		56.35
8:20	20		39.56	11:30	210		49.05		1080		56.35
8:25	25		40.52	Noon	240		49.55		1140		56.40
8:30	30		41.20	12:30	270		--		1200		56.45

Readings Taken By:



17707 Sun Park Drive / Westfield, Indiana 46074 / 317-896-2987 / Fax 317-896-3748

PUMPING TEST DATA REPORT

Job No. 27375 Owner The Town of Yorktown, Indiana Date: 7/10/2014

Location Well 4 Page 2 of 2

Pumping Test Performed on Well # 4

Readings Measured on: Pumping Well # _____ Observation Well # Obs. Well (20' East)

Hydrogeologist TRN Project Manager EJW

Static Water Level 17.68' Readings Made By: Airline _____ Electronic Water Level Indicator X

Measured From Top of Casing Which is _____ Above Ground Level Elev. Of _____

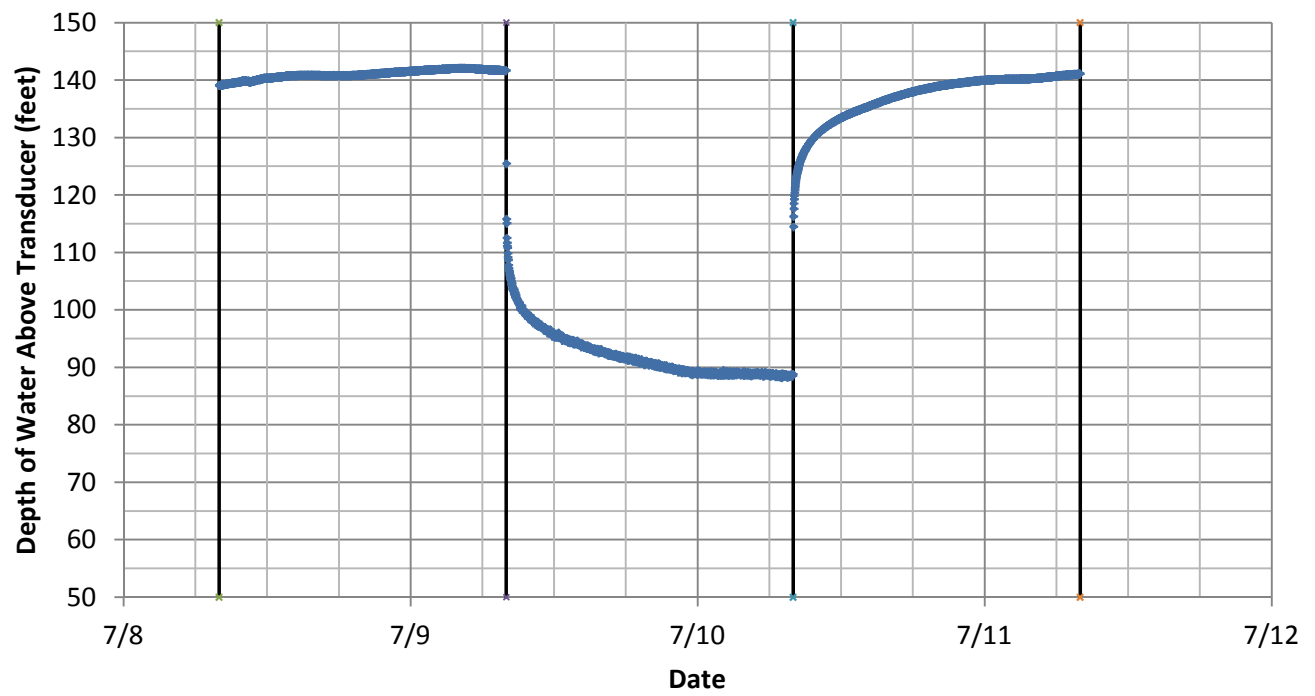
Orifice Size _____ Inches _____ PSI _____

7/10/2014

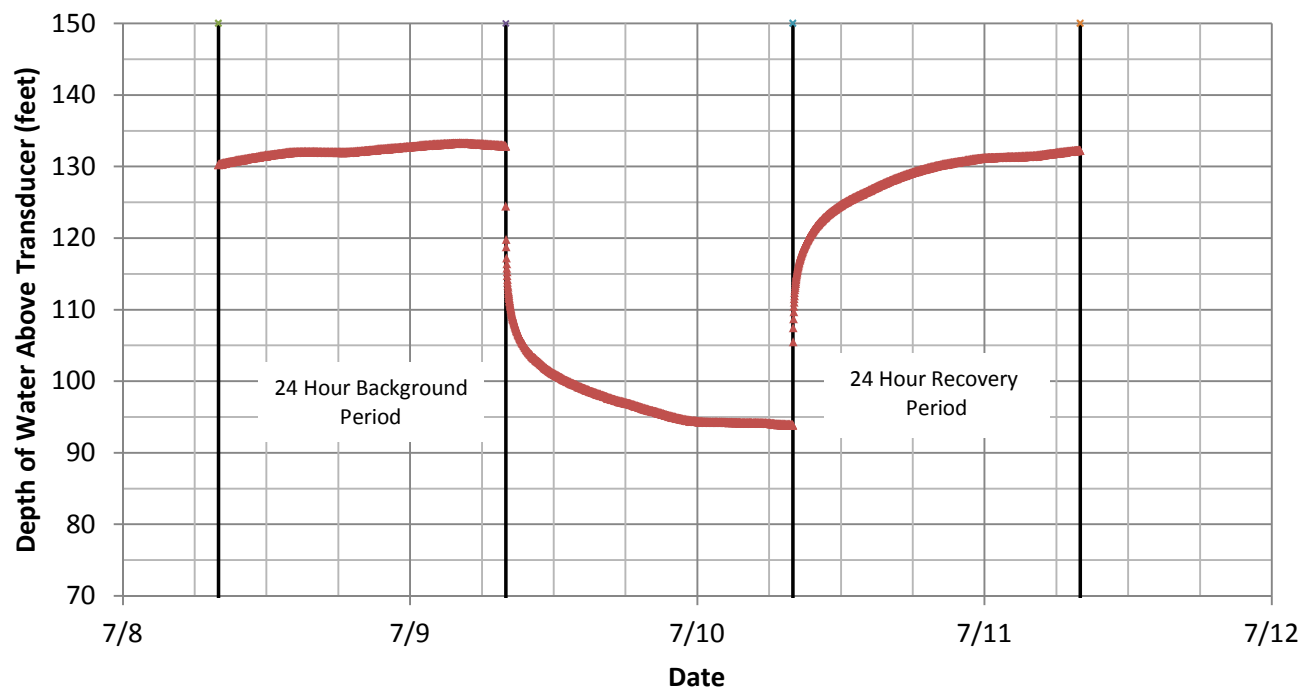
Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)	Date / Time	Elapsed Time	GPM	Water Level (ft)
5:00a.m.	1260		56.50	8:16	16		36.32	11:02			
6:00	1320		56.55	8:18	18		35.71				
7:00	1380		56.65	8:20	20		35.45				
24 Hrs.	1440		56.72	8:25	25		34.50				
RECOVERY				8:30	30		33.78				
8:01	1		44.40	8:35	35		33.43				
8:02	2		42.30	8:40	40		32.85				
8:03	3		41.41	8:45	45		32.47				
8:04	4		40.72	8:50	50		32.11				
8:05	5		39.95	8:55	55		31.67				
8:06	6		39.38	9:00	60		31.23				
8:07	7		38.82	9:15	75		30.53				
8:08	8		38.42	9:30	90						
8:09	9		38.04	9:45	105						
8:10	10		37.68	11:02	120		27.08				
8:12	12		37.21	END OF RECOVERY							
8:14	14		36.52								

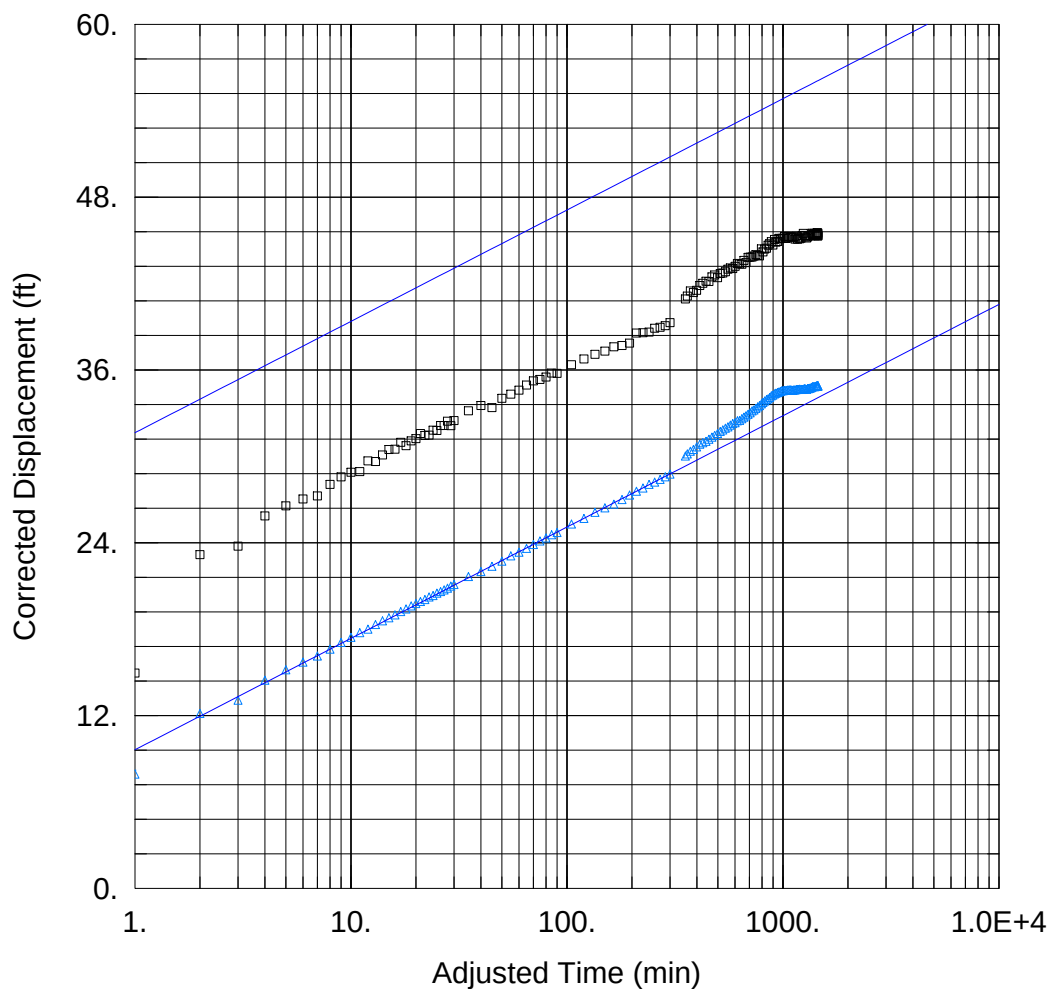
Readings Taken By:

**Yorktown Well 4, Background, Pumping & Recovery Periods,
24-Hour APT**



Yorktown Well 4 Observation Well TW07A, Background, Pumping & Recovery Periods, 24-Hour APT





WELL TEST ANALYSIS

Data Set: C:\Projects\Yorktown\24hrAPT\Yorktown_cooperjacob_straightline.aqt
 Date: 07/29/14 Time: 14:08:41

PROJECT INFORMATION

Company: Peerless-Midwest
 Client: Yorktown
 Project: 27375
 Location: New Well 4
 Test Well: Well 4
 Test Date: 7/9/2014

AQUIFER DATA

Saturated Thickness: 185. ft Anisotropy Ratio (Kz/Kr): 0.06685

WELL DATA

Pumping Wells

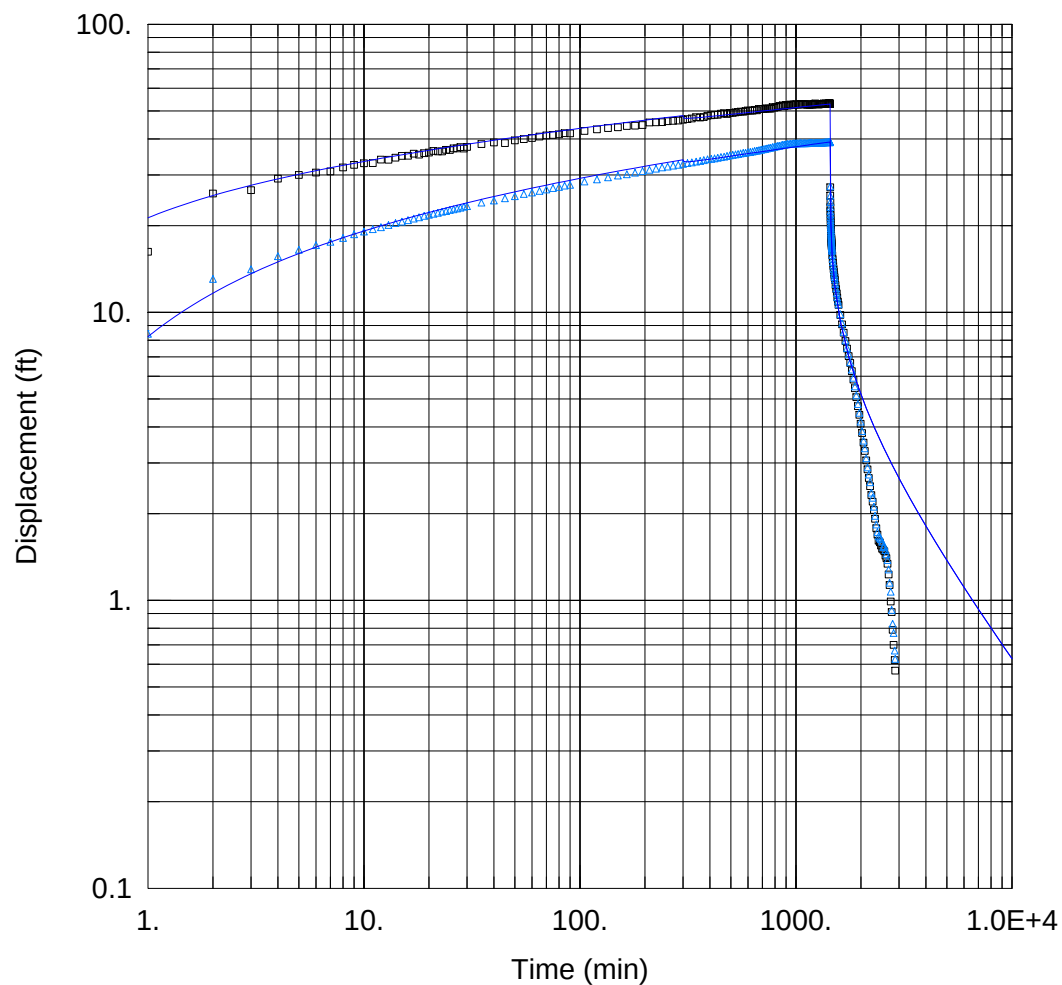
Well Name	X (ft)	Y (ft)
Well 4	2068297.31	14593238.66

Observation Wells

Well Name	X (ft)	Y (ft)
□ <u>Well 4</u>	2068297.31	14593238.66
△ <u>TW07A</u>	2068313.714	14593245.22

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 4356.5 ft²/day S = 0.00124



YORKTOWN WELL 4, APT RESULTS

Data Set: C:\...\Yorktown_barker_confined_finalsolution.aqt

Date: 07/28/14

Time: 13:56:17

PROJECT INFORMATION

Company: Peerless-Midwest

Client: Yorktown

Project: 27375

Location: New Well 4

Test Well: Well 4

Test Date: 7/9/2014

AQUIFER DATA

Saturated Thickness: 185. ft

Anisotropy Ratio (Kz/Kr): 0.06685

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Well 4	2068297.31	14593238.66

Observation Wells

Well Name	X (ft)	Y (ft)
□ <u>Well 4</u>	2068297.31	14593238.66
△ <u>TW07A</u>	2068313.714	14593245.22

SOLUTION

Aquifer Model: Confined

Solution Method: Barker

K = 18.91 ft/day

Ss = 1.115E-5

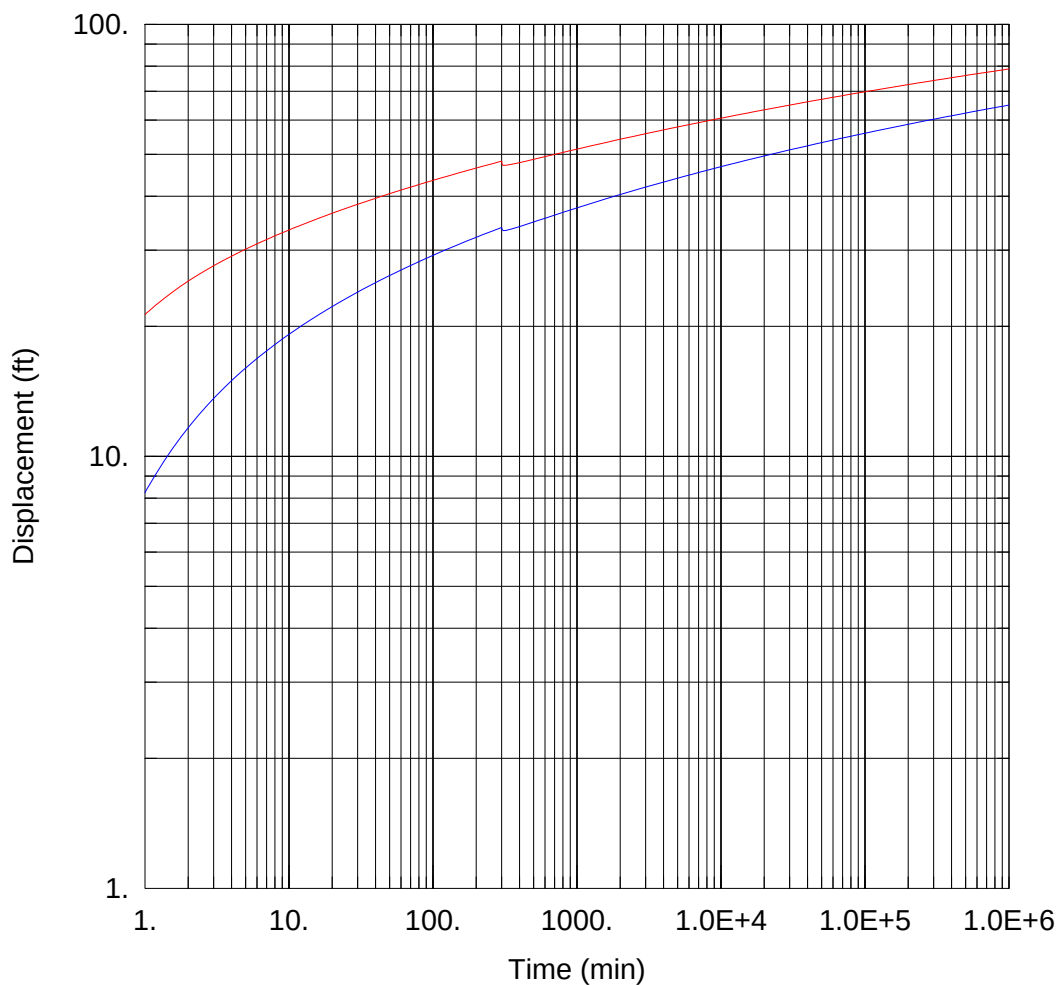
n = 2.011

b = 185. ft

Sw = -1.665

r(w) = 0.666 ft

r(c) = 0.666 ft



FORWARD SOLUTION, PUMPING RATE = 955 GPM

Data Set: C:\...\Yorktown_fs_barker_confined_finalsolution.aqt

Date: 07/28/14

Time: 13:49:32

PROJECT INFORMATION

Company: Peerless-Midwest

Client: Yorktown

Project: 27375

Location: New Well 4

Test Well: Well 4

Test Date: 7/9/2014

AQUIFER DATA

Saturated Thickness: 185. ft

Anisotropy Ratio (K_z/K_r): 0.06685

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Well 4	2068297.31	14593238.66

Observation Wells

Well Name	X (ft)	Y (ft)
Well 4	2068297.31	14593238.66
TW07A	2068313.714	14593245.22

SOLUTION

Aquifer Model: Confined

Solution Method: Barker

K = 18.91 ft/day

Ss = 1.115E-5

n = 2.011

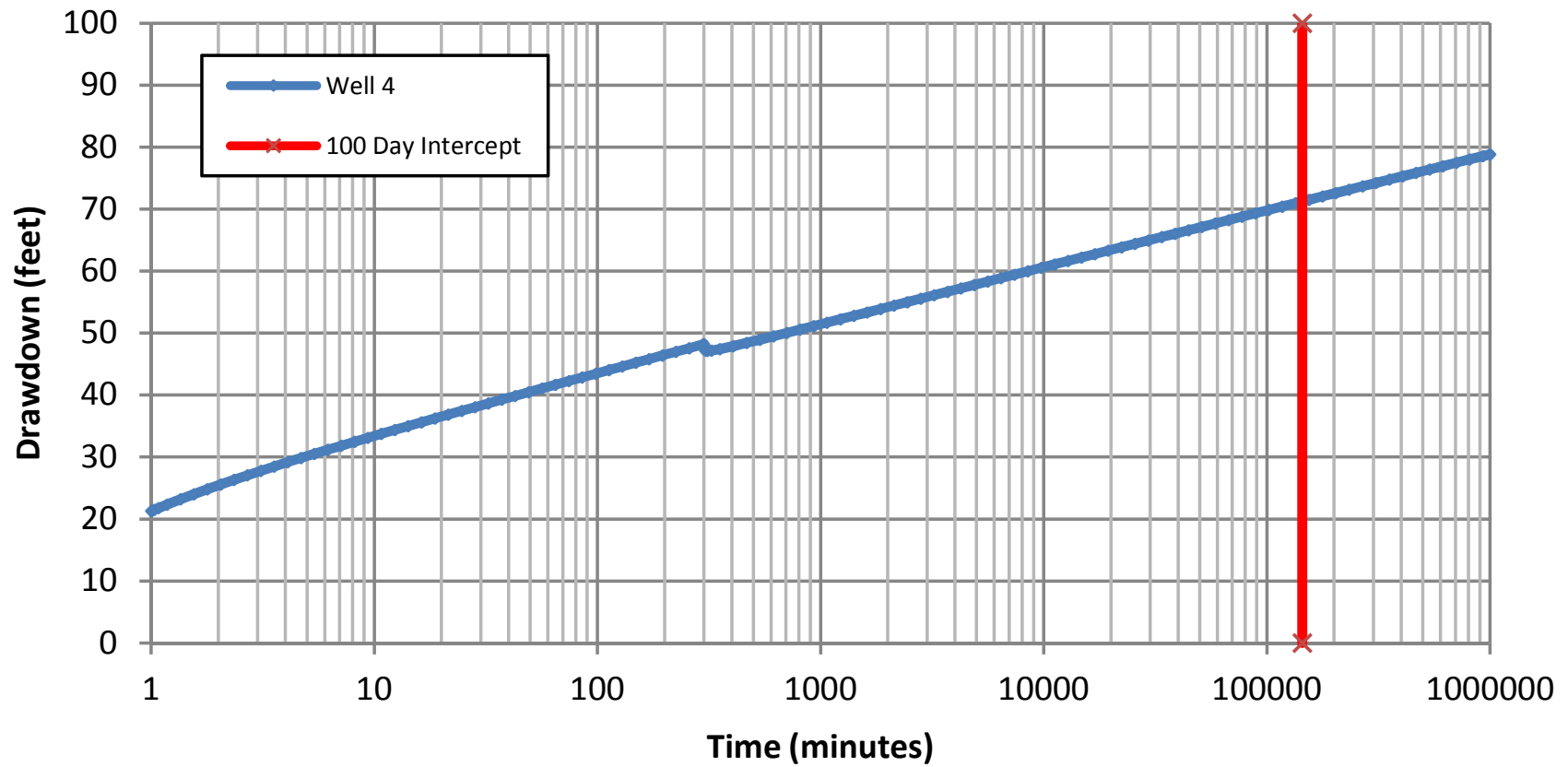
b = 185. ft

Sw = -1.665

r(w) = 0.666 ft

r(c) = 0.666 ft

100 Day Drawdown Calculation Yorktown Well #4, 955 gpm



APPENDIX D

Area Residential Well Water Levels & Public Notice

Water Levels at Residential Wells Monitored During the Well 4 APT, Yorktown, Indiana

Beeman Well, located at farmhouse north of Site Casing is 1" above ground level				
Date	Time	SWL (depth below TOC)	Drawdown (feet)	Well Running (yes/no)
7/9/2014	7:45 AM	23.91	0.00	No
7/9/2014	9:40 AM	36.54	12.63	No
7/9/2014	12:23 PM	40.76	16.85	No
7/9/2014	3:37 PM	43.25	19.34	No
7/9/2014	6:30 PM	44.95	21.04	No
7/9/2014	9:37 PM	46.40	22.49	No
7/10/2014	6:40 AM	47.90	23.99	No
7/10/2014	10:54 AM	33.50	9.59	No

Dixon Well, located at 2217 Sacks Rd. Casing is 8" above ground level				
Date	Time	SWL (depth below TOC)	Drawdown (feet)	Well Running (yes/no)
7/9/2014	7:35 AM	17.67	0.00	No
7/9/2014	9:30 AM	18.83	1.16	No
7/9/2014	12:10 PM	20.58	2.91	No
7/9/2014	3:15 PM	21.70	4.03	No
7/9/2014	6:15 PM	22.00	4.33	No
7/9/2014	9:16 PM	24.00	6.33	No
7/10/2014	6:28 AM	23.00	5.33	No
7/10/2014	10:40 AM	21.92	4.25	No

Bess Well, located at 2200 S. Webster Dr. Casing is 16" above ground level				
Date	Time	SWL (depth below TOC)	Drawdown (feet)	Well Running (yes/no)
7/9/2014	7:39 AM	20.33	0.00	No
7/9/2014	9:34 AM	21.25	0.92	No
7/9/2014	12:17 PM	22.25	1.92	No
7/9/2014	3:24 PM	22.92	2.59	No
7/9/2014	6:23 PM	23.75	3.42	No
7/9/2014	9:23 PM	25.10	4.77	No
7/10/2014	6:34 AM	24.90	4.57	No
7/10/2014	10:46 AM	24.50	4.17	No

Record of Water Well

Indiana Department of Natural Resources

Reference Number 526	Driving directions to well FARM HOUSE ON LONG LANE ON S SIDE OF SR32 4 HOUSES W OF NEBO			Date completed Sep 01, 1986
Owner-Contractor	Name	Address	Telephone	
Owner	MIKE BEEMAN	YORKTOWN IN		
Driller	BUEL BROWN	R9 BX462 MUNCIE IN		
Operator	BUEL BROWN	License: null		
Construction Details				
Well	Use: Home	Drilling method: Rotary	Pump type:	
	Depth: 170.0	Pump setting depth:	Water quality:	
Casing	Length: 45.0	Material:	Diameter: 4.0	
Screen	Length:	Material:	Diameter: Slot size:	
Well Capacity Test	Type of test: Bail / Pump	Test rate: 40.0 gpm for 0.5 hrs.	BailTest rate: 40.0 gpm for 0.5 hrs.	
	Drawdown: 5.0 ft.	Static water level: 30.0 ft.	Bailer Drawdown 5.0 ft.	
Grouting Information	Material:	Depth: from to		
	Installation Method:	Number of bags used:		
Well Abandonment	Sealing material:	Depth: from to		
	Installation Method:	Number of bags used:		
Administrative	County: DELAWARE		Township: 20N Range: 9E	
	Section: NE of the NW of the NE of Section 23		Topo map: MUNCIE WEST	
	Grant Number:			
	Field located by: TFA		on: Jul 05, 1988	
	Courthouse location by:		on:	
	Location accepted w/o verification by:		on:	
	Subdivision name:		Lot number:	
	Ft W of EL: 1700.0	Ft N of SL:	Ft E of WL:	Ft S of NL: 100.0
	Ground elevation: 938.0	Depth to bedrock: 42.0	Bedrock elevation: 896.0	Aquifer elevation:
	UTM Easting: 630440.0		UTM Northing: 4448450.0	
Well Log	Top	Bottom	Formation	
	0.0	22.0	CLAY	
	22.0	27.0	YELLOW SAND	
	27.0	40.0	YELLOW CLAY	
	42.0	170.0	STONE	
Comments	VERIFIED BY OWNER (MAP INCLUDED),BSU CONFIRM UTM			

Record of Water Well

Indiana Department of Natural Resources

Reference Number 283149	Driving directions to well ON THE WEST SIDE OF S. SACKS DRIVE NORTH OF CORN BREAD ROAD 2217 S. SACKS DRIVE, YORKTOWN	Date completed Nov 06, 1996
--	---	---------------------------------------

Owner-Contractor	Name	Address	Telephone
Owner	JERRY DIXON	898 N. NEBO, MUNCIE, INDIANA	(317) 741-8241
Driller	WILEY WELL DRILLING, INC.	7474 E SR32, UNION CITY, INDIANA	(371) 584-8648
Operator	JIM MICHAEL	License: 1416	

Construction Details

Well	Use: Home	Drilling method: Rotary	Pump type:
	Depth: 81.0	Pump setting depth:	Water quality: CLEAR
Casing	Length: 33.0	Material: PVC	Diameter: 5.0
Screen	Length:	Material:	Diameter: Slot size:

Well Capacity Test	Type of test: Air	Test rate: 20.0 gpm for 1.0 hrs.	BailTest rate: gpm for hrs.
	Drawdown: 30.0 ft.	Static water level: 30.0 ft.	Bailer Drawdown: ft.

Grouting Information	Material: BENSEAL & E-Z MUD	Depth: from 0.0 to 33.0
	Installation Method: PUMPED	Number of bags used: 2.0

Well Abandonment	Sealing material:	Depth: from to
	Installation Method:	Number of bags used:

Administrative	County: DELAWARE	Township: 20N Range: 9E
	Section: SW of the SW of the NE of Section 23	Topo map: MUNCIE WEST
	Grant Number:	
	Field located by: VOISARD	on: Nov 03, 1997
	Courthouse location by:	on:
	Location accepted w/o verification by:	on:
	Subdivision name:	Lot number:
	Ft W of EL: 2550.0	Ft N of SL:
	Ground elevation: 938.0	Bedrock elevation: 905.0
	UTM Easting: 630192.0	UTM Northing: 4447878.0
		Ft E of WL: Ft S of NL: 1950.0
		Aquifer elevation:

Well Log	Top	Bottom	Formation
	0.0	13.0	BROWN CLAY
	13.0	20.0	GRAVEL
	20.0	28.0	GRAY CLAY

28.0	33.0	BROKEN LIMESTONE
33.0	81.0	LIMESTONE

Comments	MC; SEE MAP
----------	-------------

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving Direction to Well	Date Completed
368809	LEAVE YORKTOWN GOING E ON 32 TO ANDREWS RD TO 2200 S. WEBSTER	7/19/2002

Owner-Contractor	Name	Address	Telephone
Owner	BILL BESS	2200 S. WEBSTER, YORKTOWN, IN	Not available
Driller	BUEL BROWN WELL DRILLING	12800 W BETHEL YORKTOWN, IN	Not available
Operator	BUEL BROWN	License: 295	

Construction Details

Well	Use: Home	Drilling Method: Rotary	Pump Type: Submersible
	Depth: 75.0	Pump Setting Depth: 45.0	Water Quality: CLEAR
Casing	Length: 50.0	Material: PVC	Diameter: 4.0
Screen	Length: Not available	Material: Not available	Diameter: Not available
	Slot Size: Not available		

Well Capacity Test	Type of Test: Air / Bailing	Test Rate: 25.0 gpm	Bail Test Rate: Not available
	Drawdown: 5.0 ft.	Static Water Level: 30.0 ft.	Bailer Drawdown: Not available

Grouting Information	Material: GROUT	Depth: From 0.0 To 50.0
	Installation Method: PUMP	Number of Bags Used: 6.0

Well Abandonment	Sealing Material: Not available	Depth: From (not available) To (not available)
	Installation Method: Not available	Number of Bags Used: Not available

Administrative	County: DELAWARE Range: 9E Topo Map: MUNCIE WEST Field Located By: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not available Subdivision Name: Not available Ft W of EL: Not available Ft E of WL: Not available Ground Elevation: Not available Bedrock Elevation: Not available UTM Easting: Not available	Township: 20N Section: NE of Section 23 Grant: Not available Field Located On: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not available Lot Number: Not available Ft N of SL: Not available Ft S of NL: Not available Depth of Bedrock: Not available Aquifer Elevation: Not available UTM Northing: Not available
-----------------------	--	---

Well Log

Top	Bottom	Formation
0.0	50.0	CLAY
50.0	75.0	STONE

Comments
None

Impacted Water Well Summary, Yorktown Well 4 APT, Yorktown, Indiana

Owner	Address	City	Telephone	Nature of Problem	Easting UTM NAD 27	Northing UTM NAD 27
Ron Stean	8012 W. Cornbread	Yorktown, IN	765-405-1214	Jet Pump, SWL at 26'4" at 10 AM on 7/10, Pump is likely breaking suction, owner called in at 9AM, water restored on its own by 4PM on 7/10	629,436	4,447,631
Harry Thomas	7601 W. Cornbread	Yorktown, IN	765-759-5753	Submersible, owner called in at 10:30AM on 7/10, temporarily out of water, tapped pressure switch and back in water	629,855	4,447,615
Clifford Kalley	7600 W. Cornbread	Yorktown, IN	Not available	Well never recovered, the jet pump was replaced with a submersible pump on 7/14/2014	629,847	4,447,743

WATER NOTICE

Beginning Wednesday July 9th at 8 am and ending Thursday July 10th at 8 am, you might experience partial or complete loss of water supply from your well.

Why?

The Yorktown Water Department is committed to securing long-term water supplies to support the growth and welfare of our community.

We are planning to run a continuous 1-day test in a nearby farm field in order to estimate how much ground water may be available from the area. Though it is unlikely this test will affect your well, it could cause the water level to drop. This may cause your pump to be able to supply less water, or no water at all, for the 24 hour duration of the test.

Groundwater levels will get back to normal soon after the test is completed.

Response Plan for You and Your Family

For the duration of the test, and in general agreement with the intent of Indiana Code 14-25-4, in the event that your residential well is affected, Yorktown has prepared the following response plan:

- Technical staff familiar with residential wells and pump systems will be available at all times during the test. They will be able to assist any impacted resident to restore well operation, as is practically feasible.
- Yorktown will provide bottled water to any resident who experiences loss of water during the test.

If you have any concern or question, please contact the Response Coordinator as necessary during the test:

Mr. Tim Northam, LPG

Mobile: 317-695-7639

APPENDIX E

Groundwater Sampling Laboratory Analytical Report

LABORATORY REPORT

This report contains 10 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at
(800) 332-4345 or (574) 233-4777.

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Eaton Analytical, Inc.*

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Peerless Midwest

 Attn: Tim Northam
 17707 Sun Park Drive
 Westfield, IN 46074

Report: 320926
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Copies
 to: None

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3059617	Yorktown Well #4	531.2	07/10/14 07:30	Client	07/10/14 11:32
3059618	Yorktown Well #4	515.3	07/10/14 07:30	Client	07/10/14 11:32
3059619	Yorktown Well #4	335.4	07/10/14 07:30	Client	07/10/14 11:32
3059620	Yorktown Well #4	1613	07/10/14 07:30	Client	07/10/14 11:32
3059621	Yorktown Well #4	549.2	07/10/14 07:30	Client	07/10/14 11:32
3059622	Yorktown Well #4	504.1	07/10/14 07:30	Client	07/10/14 11:32
3059623	Yorktown Well #4	548.1	07/10/14 07:30	Client	07/10/14 11:32
3059624	Yorktown Well #4	150.1	07/10/14 07:30	Client	07/10/14 11:32
3059624	Yorktown Well #4	300.0	07/10/14 07:30	Client	07/10/14 11:32
3059624	Yorktown Well #4	353.2	07/10/14 07:30	Client	07/10/14 11:32
3059625	Yorktown Well #4	547	07/10/14 07:30	Client	07/10/14 11:32
3059626	Yorktown Well #4	200.8	07/10/14 07:30	Client	07/10/14 11:32
3059626	Yorktown Well #4	2340 B	07/10/14 07:30	Client	07/10/14 11:32
3059626	Yorktown Well #4	245.1	07/10/14 07:30	Client	07/10/14 11:32
3059626	Yorktown Well #4	200.7	07/10/14 07:30	Client	07/10/14 11:32
3059627	Yorktown Well #4	4500-NH3 D	07/10/14 07:30	Client	07/10/14 11:32
3059628	Yorktown Well #4	524.2	07/10/14 07:30	Client	07/10/14 11:32
3059629	Yorktown Well #4	525.2	07/10/14 07:30	Client	07/10/14 11:32
3059630	Yorktown Well #4	505	07/10/14 07:30	Client	07/10/14 11:32
3059631	Yorktown Well #4	5310 C	07/10/14 07:30	Client	07/10/14 11:32

Report Summary

Note: Dioxin analysis was performed by EEA Lancaster Laboratories, Lancaster, PA.

Note: In the Method 515.3 analysis, the pentachlorophenol recovery in the MS (49%) and MSD (52%) was outside the acceptance limits of 70-130%.

Client Name: Peerless Midwest

Report #: 320926

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jim Vernon at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature

Title

Date

Client Name: Peerless Midwest

Report #: 320926

Client Name: Peerless Midwest

Report #: 320926

Sampling Point: Yorktown Well #4

PWS ID: Not Supplied

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
---	pH	150.1	6.5-8.5 ^	N/A	7.3	pH units	---	07/10/14 17:12	3059624
---	Hardness, Total	2340 B	---	0.66	330	mg/L as CaCO3	---	07/18/14 17:10	3059626
16887-00-6	Chloride	300.0	250 ^	2.0	13	mg/L	---	07/15/14 18:38	3059624
16984-48-8	Fluoride	300.0	4 *	0.5	< 0.5	mg/L	---	07/15/14 18:38	3059624
14808-79-8	Sulfate	300.0	250 ^	5.0	26	mg/L	---	07/15/14 18:38	3059624
57-12-5	Cyanide, Total	335.4	0.2 *	0.01	< 0.01	mg/L	07/16/14 12:20	07/16/14 14:27	3059619
14797-55-8	Nitrate	353.2	10 *	0.1	< 0.1	mg/L	---	07/11/14 17:24	3059624
7664-41-7	Nitrogen, Ammonia	4500-NH3 D	---	0.1	0.3	mg/L	---	07/15/14 14:38	3059627
---	Total Organic Carbon (TOC)	5310 C	---	0.500	0.798	mg/L	---	07/17/14 22:04	3059631

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7440-70-2	Calcium	200.7	---	0.1	79	mg/L	---	07/17/14 11:25	3059626
7439-89-6	Iron	200.7	0.3 ^	0.020	0.99	mg/L	---	07/17/14 11:25	3059626
7439-95-4	Magnesium	200.7	---	0.1	32	mg/L	---	07/17/14 11:25	3059626
7440-09-7	Potassium	200.7	---	0.2	1.6	mg/L	---	07/17/14 11:25	3059626
7440-36-0	Antimony	200.8	6 *	1.0	< 1.0	ug/L	---	07/11/14 17:32	3059626
7440-38-2	Arsenic	200.8	10 *	1.0	4.6	ug/L	---	07/11/14 17:32	3059626
7440-39-3	Barium	200.8	2000 *	2.0	190	ug/L	---	07/11/14 17:32	3059626
7440-41-7	Beryllium	200.8	4 *	0.3	< 0.3	ug/L	---	07/11/14 17:32	3059626
7440-43-9	Cadmium	200.8	5 *	1.0	< 1.0	ug/L	---	07/11/14 17:32	3059626
7440-47-3	Chromium	200.8	100 *	0.9	2.3	ug/L	---	07/11/14 17:32	3059626
7439-96-5	Manganese	200.8	50 ^	2.0	25	ug/L	---	07/11/14 17:32	3059626
7440-02-0	Nickel	200.8	100 *	1.0	1.4	ug/L	---	07/11/14 17:32	3059626
7782-49-2	Selenium	200.8	50 *	2.0	< 2.0	ug/L	---	07/11/14 17:32	3059626
7440-28-0	Thallium	200.8	2 *	0.3	< 0.3	ug/L	---	07/11/14 17:32	3059626
7439-97-6	Mercury	245.1	2 *	0.1	< 0.1	ug/L	07/21/14 09:40	07/21/14 13:45	3059626

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	504.1	0.2 *	0.01	< 0.01	ug/L	07/11/14 15:23	07/12/14 01:37	3059622
106-93-4	1,2-Dibromoethane (EDB)	504.1	0.05 *	0.01	< 0.01	ug/L	07/11/14 15:23	07/12/14 01:37	3059622
12674-11-2	Aroclor 1016	505	---	0.08	< 0.08	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
11104-28-2	Aroclor 1221	505	---	0.19	< 0.19	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
11141-16-5	Aroclor 1232	505	---	0.23	< 0.23	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
53469-21-9	Aroclor 1242	505	---	0.26	< 0.26	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
12672-29-6	Aroclor 1248	505	---	0.1	< 0.1	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
11097-69-1	Aroclor 1254	505	---	0.1	< 0.1	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
11096-82-5	Aroclor 1260	505	---	0.2	< 0.2	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	07/15/14 16:15	07/16/14 04:05	3059630
94-75-7	2,4-D	515.3	70 *	0.1	< 0.1	ug/L	07/14/14 08:00	07/18/14 20:06	3059618

75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
1918-00-9	Dicamba	515.3	---	0.1	< 0.1	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
1918-02-1	Picloram	515.3	500 *	0.1	< 0.1	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
93-72-1	2,4,5-TP (Silvex)	515.3	50 *	0.1	< 0.1	ug/L	07/14/14 08:00	07/18/14 20:06	3059618
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
309-00-2	Aldrin	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
23184-66-9	Butachlor	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
60-57-1	Dieldrin	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	0.6	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
1024-57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
51218-45-2	Metolachlor	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
21087-64-9	Metribuzin	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
1918-16-7	Propachlor	525.2	---	0.1	< 0.1	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
122-34-9	Simazine	525.2	4 *	0.07	< 0.07	ug/L	07/21/14 09:30	07/22/14 17:08	3059629
116-06-3	Aldicarb	531.2	---	0.5	< 0.5	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
1646-88-4	Aldicarb sulfone	531.2	---	0.7	< 0.7	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
1646-87-3	Aldicarb sulfoxide	531.2	---	0.5	< 0.5	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
63-25-2	Carbaryl	531.2	---	0.5	< 0.5	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
1563-66-2	Carbofuran	531.2	40 *	0.9	< 0.9	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
16655-82-6	3-Hydroxycarbofuran	531.2	---	0.5	< 0.5	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
16752-77-5	Methomyl	531.2	---	0.5	< 0.5	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
90-15-3	1-Naphthol	531.2	---	1.0	< 1.0	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
23135-22-0	Oxamyl	531.2	200 *	1.0	< 1.0	ug/L	07/16/14 09:10	07/17/14 16:47	3059617
1071-83-6	Glyphosate	547	700 *	6.0	< 6.0	ug/L	07/14/14 11:45	07/14/14 23:50	3059625
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	07/11/14 07:30	07/14/14 20:27	3059623
85-00-7	Diquat	549.2	20 *	0.4	< 0.4	ug/L	07/11/14 08:00	07/11/14 16:39	3059621

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
71-43-2	Benzene	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
108-86-1	Bromobenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
74-97-5	Bromochloromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-27-4	Bromodichloromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-25-2	Bromoform	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
74-83-9	Bromomethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
104-51-8	n-Butylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
135-98-8	sec-Butylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628

98-06-6	tert-Butylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-00-3	Chloroethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
67-66-3	Chloroform	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
74-87-3	Chloromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
95-49-8	2-Chlorotoluene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
106-43-4	4-Chlorotoluene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
124-48-1	Dibromochloromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
---	Total Trihalomethanes	524.2	80 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	524.2	---	0.2	< 0.2	ug/L	---	07/16/14 20:01	3059628
106-93-4	1,2-Dibromoethane (EDB)	524.2	---	0.2	< 0.2	ug/L	---	07/16/14 20:01	3059628
74-95-3	Dibromomethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
541-73-1	1,3-Dichlorobenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-71-8	Dichlorodifluoromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-34-3	1,1-Dichloroethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
142-28-9	1,3-Dichloropropane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
594-20-7	2,2-Dichloropropane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
563-58-6	1,1-Dichloropropylene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
10061-01-5	cis-1,3-Dichloropropylene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
10061-02-6	trans-1,3-Dichloropropylene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
542-75-6	1,3-Dichloropropylene, cis & trans	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
87-68-3	Hexachlorobutadiene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
98-82-8	Isopropylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
99-87-6	4-Isopropyltoluene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
1634-04-4	Methyl-t-butyl ether (MTBE)	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
91-20-3	Naphthalene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
103-65-1	n-Propylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
630-20-6	1,1,1,2-Tetrachloroethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
79-34-5	1,1,2,2-Tetrachloroethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
87-61-6	1,2,3-Trichlorobenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-69-4	Trichlorofluoromethane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
96-18-4	1,2,3-Trichloropropane	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
95-63-6	1,2,4-Trimethylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628

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108-67-8	1,3,5-Trimethylbenzene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	---	07/16/14 20:01	3059628
95-47-6	1,2-Xylene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	---	07/16/14 20:01	3059628

Compliance monitoring for 1,2-Dibromo-3-chloropropane (DBCP) must be done using EPA method 504.1.

Compliance monitoring for 1,2-Dibromoethane (EDB) must be done using EPA method 504.1.

Reference Lab Tests									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
1746-01-6	Dioxin	1613	30 *	5.0	< 5.0	pg/L	---	07/22/14 19:44	3059620

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



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Batch # 320926

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CHAIN OF CUSTODY RECORD

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REPORT TO:				Shaded area for EEA use only		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
BILL TO:				COMPLIANCE MONITORING		Yes	No	POPULATION SERVED	SOURCE WATER					
LAB Number	COLLECTION			SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED					
	DATE	TIME	AM	PM						YES	NO			
1	3059	617	7-10	7:30	X	Yorktown Well #4	531							
2	618						515							
3	619						CN							
4	620						1613							
5	621						549							
6	622						504							
7	623						548							
8	624						10C							
9	625						547							
10	626						metals							
11	627						NH4							
12	628						VOC							
13	629						525							
14	630						505							

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
	7/10	11:30				LAB COMMENTS
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	CONDITIONS UPON RECEIPT (check one):
				7/10/13	11:30	☒ Iced: Wet/Blue ☐ Ambient ☐ °C Upon Receipt ☐ N/A

MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES	
DW-DRINKING WATER	SW = Standard Written: (15 working days)	0%
RW-REAGENT WATER	RV* = Rush Verbal: (5 working days)	50%
GW-GROUND WATER	RW* = Rush Written: (5 working days)	75%
EW-EXPOSURE WATER	IV* = Immediate Verbal: (3 working days)	100%
SW-SURFACE WATER	IW* = Immediate Written: (3 working days)	125%
PW-POOL WATER	SP* = Weekend, Holiday	CALL
WW-WASTE WATER	STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



Eaton Analytical

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South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 256171
Batch # _____

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CHAIN OF CUSTODY RECORD

Page 2 of 2

Shaded area for EEA use only

REPORT TO:		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
Peerless Midwest						Yorktown				
BILL TO:		COMPLIANCE MONITORING		Yes	No	POPULATION SERVED	SOURCE WATER			
Peerless Midwest							# 4			
LAB Number	COLLECTION			SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED	
	DATE	TIME	AM PM						YES	NO
1	3059631	7-10	7:30	X		Yorktown Well #4	TOC PH<8			
2										
3	632					LTB	6/12/14			
4	633					X	VOC			
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS
	7/10	11:30				
		AM PM				
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one): ☒ Iced: Wet/Blue Ambient _____ °C Upon Receipt _____ N/A
		AM PM				
		AM PM				
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	
		AM PM		7/10/13	11:30	
		AM PM				

MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75% * Please call, expedited service not available for all testing	IV* = Immediate Verbal: (3 working days) 100% IW* = Immediate Written: (3 working days) 125% SP* = Weekend, Holiday CALL STAT* = Less than 48 hours CALL	Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
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APPENDIX F

Potentially Impacted Residential Well Summary

IDNR Water Well Records Within the 5-Foot Drawdown Contour, Yorktown Well 4, Yorktown, Indiana

Well Log ID	UTM Easting NAD 27	UTM Northing NAD 27	Depth to Bedrock	Pump Rate	Screen Length	Static Water Level	Total Well Depth	Casing Length	Owner	Owner Address
402018	629,747	4,448,871	0	50	3	27	51	48	JIM BROWN C/O B & B SANDBLASTI	PO BOX 121 YORKTOWN, IN
275831	627,954	4,445,958		60	5	10	80	75	STEVE JUSTIN	4200 S. 600 W., YORKTOWN, IN
21176	627,653	4,449,446		30	5	17	75	71	VAUGHN DALE TOWNSEND	YORKTOWN IN
101	629,286	4,450,520	42	15			65	48	DON CLARK	MUNCIE IN
587	628,785	4,446,622	0	0	0	6	62	50	ALEXANDER GOOD	R2 YORKTOWN IN
275848	627,450	4,449,240	86	20		25	141	92	FRED & DONNA SCHEIDENBERGER	9900 50 S.
393455	631,385	4,448,104	0	50	0	40	186	156		
576	630,504	4,446,822	45	10		15	100		JOHN E BUCK	1315 STOCKPORT DR MUNCIE IN
270424	630,576	4,448,086	0	60	2	19	70	68		
454	629,091	4,447,932	53	12		24	85	53	VERNON WILLIAMS	SKINNER RD R2 YORKTOWN IN
563	631,044	4,447,040		10		25	145	145	EARL BARBER	R2 YORKTOWN IN
564	631,043	4,447,042		8.3		24	156	156	EARL BARBER	R2 YORKTOWN IN
575	630,490	4,446,840	168	30		40	200	168	BOTHEL	YORKTOWN IN
449	628,029	4,447,291	61				62		UNITED MILK PRODUCTS CO.	YORKTOWN IN
451	629,341	4,448,144	45	10		19	80	45	JOE BUSH	BETHEL PIKE
577	630,507	4,446,652	155	16.6		40	165		PAUL JERNEGAN	R2 YORKTOWN IN
142833	633,361	4,449,335	0	30	5	6	60	55		
346108	630,143	4,449,283	0	25	0	12	164	37	ELDON BUCK	423 N CHERRY WOOD LANE, MUNCIE, IN
100	629,041	4,450,526	28	16.7		19	75	31	C.M. KINTNER	MUNCIE IN
375495	629,785	4,447,255	0	65	2	14	53	51	DON TINGLER	2215 EVAN PARK, YORKTOWN, IN
448	629,009	4,447,502	30	8.67		9	48	30	JOE HANNON	
549	631,197	4,447,493	0	0	4	10	39	39	CARL WOLF	YORKTOWN IN
450	629,170	4,448,353	47	8.67		23	66	48	WILLIAM E ROBERTS	YORKTOWN IN
440	628,893	4,447,693	38	330		10	210	38.5	YORKTOWN CITY	YORKTOWN IN
578	630,058	4,446,334		13.3		27	70	70	DICK HOOD	R2 YORKTOWN IN
250672	631,423	4,449,130		30	5	25	61	56	TODD AND LAURA HECKMAN	1006 ITALIANO DR
270416	627,450	4,449,224		25	5	21	47	42	FRED & DONNA SCHEIDENBERGER	
250602	631,766	4,449,316	0	30	0	7	160	25	TRACY DOVE	MUNCIE
250613	631,353	4,449,708	0	30	0	40	126	101		
250638	631,766	4,449,316	10	0	5	35	58	54	MRS. JOE CHESTERMAN	6204 TAYLOR RD., MUNCIE, IN
250667	630,143	4,449,283	5	0	5	30	68	64	D & J SERVICE	5620 KILGORE AVE, MUNCIE IND
27088	633,195	4,449,495		60	5		92	88	FRANK BALL	
27087	633,392	4,448,857	70	50		45	81	73	WEARLY MONUMENTS	3600 KILGORE AVE MUNCIE IN
453	629,140	4,448,050	49	10		22	65	49	CECIL DRAGOO	R2 YORKTOWN IN
445	629,230	4,448,050		10		25	167	167	GLEN DAVIS	YORKTOWN IN
1489	632,891	4,449,685		8		17	110.67		JAMES HOLCRAFT	501 STRADING RD
58478	629,200	4,445,850		65	5	31	79	74	DAVE HENDSELEY	BOX 12, OAKVILLE, IN
297302	630,250	4,449,244	8	20		15	160	25	JIM HOWARD	7101 RIVER RD, YORKTOWN IN
1490	632,816	4,449,454	145	15		21		147	CHESTER LAKE	519 S HAWTHORN
201694	630,558	4,448,892	0	80	5	12	59	55	MARK CLARK	5408 W. DEERCREEK, MUNCIE, IN
381402	630,713	4,451,095	0	40	0	22	83	39	JAY WINKLE	6709 W NORWAY DR, MUNCIE, IN
381660	629,717	4,450,482	0	50	0	0	83	30	WYSENBURGER	930 YORK PRAIRIE
370547	632,938	4,446,090	0	30	3	19	50	47	RYCK MARLOW	4540 W WHITE RD., MUNCIE, IN
370544	628,523	4,449,243	0	50	3	15	56	53	DON FIELDS	404 N DOGWOOD LN., MUNCIE, IN
447	628,262	4,447,953	114			15	300		YORKTOWN MUNICIPAL WELL	YORKTOWN IN
381407	631,402	4,447,295	0	20	4	25	72	68	BILL WILSON	1609 S OAKDALE DR, YORKTOWN, IN
381406	629,785	4,447,255	0	15	4	15	42	38		
381408	630,181	4,447,671	0	50	0	15	58	45	JUDY & JIM HARTY	7555 W 200 S, YORKTOWN, IN
381662	628,767	4,449,217	0	65	0	22	101	65	ED FOSNAUGH	900 S DEVONSHIRE, YORKTOWN, IN
381404	629,439	4,445,350	0	50	5	5	48	43	TROY DUGGER	4750 S CO RD 500W, YORKTOWN, IN
381409	629,828	4,445,645	0	20	0	35	170	120	BRAD LYNN	7951 W NIXON RD, YORKTOWN, IN
1491	633,575	4,448,541		8.3		22	43	43	C W REEVES	RR4 MUNCIE IN
297300	630,321	4,449,260	16	16		9	120	25	JERRY STOUT	7005 RIVER RD, YORKTOWN IN
297301	630,895	4,448,744	105	15		29	158	108	BALL STATE FEDERAL CREDIT UNIO	
70185	630,599	4,447,974		30	5	25	48	44	ROBERT SCHWARK	2201 S. EVAN PARK DR., YORKTOWN
21066	632,685	4,450,234	35	30		16	81	37		
21068	627,901	4,447,797	114	50		17	151	117	AL ROSS	404 SMITH ST YORKTOWN IN
283148	631,083	4,449,032	100	50		35	156	102	BRADFORD PARK BIBLE CHURCH	6314 W. PEAROD RD, MUNCIE, IND
283149	630,192	4,447,878	33	20		30	81	33	JERRY DIXON	898 N. NEBO, MUNCIE, INDIANA
21064	633,392	4,448,857	72	50		45	148	74	WEARLY MONUMENTS	3600 KILGORE AVE MUNCIE IN
105	629,264	4,450,853	38	10		8	46	15	MR. BARNES	500W-50N
383079	630,784	4,447,888	0	25	0	24	69	69		2100 S WOODBRIDGE
383327	629,785	4,447,255	0	50	3	24	62	59	JEFF HAWK	515 S CR 850W, YORKTOWN, IN
383329	629,828	4,445,645	0	50	0	13	81	82.5	NIXON FARMS	8281 W NIXON RD, YORKTOWN, IN
383331	629,828	4,445,645	0	50	5	3	37	32	BRENT & CHERYL WATSON	7855 W NIXON RD, YORKTOWN, IN
70180	632,577	4,447,433		30	5	15	38	34	JIM HOOD	2771 S. PROCTOR RD., MUNCIE, IN
383326	631,174	4,450,655	0	50	0	28	121	68	LESLIE SLACK	708 N KETTNER DR, MUNCIE, IN
324133	630,558	4,448,892	0	65	0	16	160	77	DAVID JACKSON	1721 W 18TH ST., MUNCIE, IN
23258	632,071	4,449,418	0	30	5	30	53	48		
23259	630,852	4,449,401	0	50	0	0	141	75		
326421	629,581	4,447,952	0	35	0	24	75	35	TONY WATT	2209 S WEBSTER DR., YORKTOWN, IN
218	629,330	4,450,590	30	12		28	55	30	EDITH STEVENSON	R6 MUNCIE IN
21069	631,705	4,449,746		75	5	20	103	98	JOYCE MANN	500 S CHERYL RD MUNCIE IN
193	629,008	4,450,472	28			18.15	60	28	IRENE OSBORNE	7 LONEBEECH DR RT12 MUNCIE
327499	630,143	4,449,283	0	0	0	0	147	105	BORG WARNER ADTPC	5401 KILGORE AVE., MUNCIE, IN
327502	628,919	4,449,656	0	50	0	12	81	28	DON HAMILTON	5141 W HESSLER, MUNCIE, IN
95787	630,929	4,448,868	80	50		40	180	80	LARRY BIRDEN	BEVERLY HILLS, INC., NEBO RD.
1504	633,555	4,448,648		8.7		24	42	42	CLAUD BRONNENBERG (HUNT)	R4 MUNCIE IN
23318	631,224	4,450,575		50	5	19	49	44	ROGER HERBERT	509 N KLTNER DR MUNCIE IN
327894	628,558	4,447,626	0	40	0	27	83	36	BOB COPE	2650 NEW YORK AVE., YORKTOWN, IN

110	628,692	4,450,454	62	15		16	64	62	LEON CALVERT	
349237	629,747	4,448,871	0	25	0	20	203	28	SHAWN PHILLIPS	8001 1W RIVER RD YORKTOWN IN
584	629,150	4,445,760		19		12	54	54	BYRON NIXON JR	YORKTOWN
1501	633,471	4,448,634	161	15		30	168	161	J.W. MOORE	3941 AUDUBON RD. INDIANAPOLIS IN
351722	631,134	4,450,715	0	35	6	20	46	40	JACK CLEVINGER	504 LUDLOW, MUNCIE, IN
23323	630,670	4,449,435	16	30		15	174	30	WLT CORP. C/O THE PLAYERS CLUB	6610 W RIVER RD YORKTOWN IN
297312	628,793	4,450,483	37	30		21	81	38	BLUM	8513 LONE BEECH DR
214	628,567	4,450,451	75	12		18	100	75		
23322	628,893	4,449,072	31	27		30	214	40	LARRY COLE	
1494	633,499	4,448,543		8.3		17	37	37	CLAUDE BRONNENBERG	3601 W 8TH ST
352804	631,368	4,448,909	0	30	0	22	143	66	PAUL DAVIES	1210 S NEBO, YORKTOWN
23319	632,179	4,450,242	120	30		35	246	120	DR L J MATCHETT	100 N TILLOTSON AVE MUNCIE IN
297313	627,555	4,448,382		35		12	55		VIRGINIA ACHTERMANN	1706 S RIDGEVIEW DRIVE, YORKTOWN IN
23320	630,906	4,450,445	40	40		35	96	42	MICHAEL M. LOFFER	
1492	633,501	4,448,548	76	9.2		31	148	76	DIRL MURPHY	RR4 MUNCIE IN
23321	630,165	4,450,533	20	50		8	96	22	GRAHAM	7221 W ISONOGEL RD MUNCIE IN
27091	629,814	4,449,263	8	15		17	166	16	LEONARD ZEABART	7701 W RIVER RD MUNCIE
1500	633,598	4,448,631		8.3		37	37		CLAUDE BRONNENBERG	2601 W 8TH ST MUNCIE IN
1493	632,680	4,449,390	101	10		25	131	101	R E CULY	3300 PEACH TREE LN 4417 RVR RD
95797	632,573	4,446,870		65	5	26	57	52	RICHARD BUCK	3301 S. PROCTER, YORKTOWN, IN
582	629,120	4,445,810		12		20	41	41	WILLIAM A BROWN	R2 YORKTOWN IN
297311	632,481	4,446,512		15	6	25	46	30	TIM MASTERS	3741 PROCTOR RD, MUNCIE IN
583	629,115	4,445,739		20		15	43	43	BYRON NIXON	YORKTOWN
23317	631,758	4,449,522		60	4	18	84	80	LUICK & CLEO NOTTINGHAM	5700 W RIVER RD MUNCIE IN
297310	629,089	4,448,512	75	15		34	170	75	HELEN RICHARDSON	1610 OAKDALE ST, YORKTOWN IN
297315	630,186	4,449,246	4	7		15	231	21	MRS GERALD STOUT	7105 RIVER RD, YORKTOWN IN
359961	631,368	4,448,909	0	15	0	35	0	112	NICK CINDY RIGGENS	6214 W PENROD MUNCIE IN
359941	631,402	4,447,295	0	50	5	22	51	46	JERRY MILLER	5200W CR 200S YORKTOWN
359946	631,402	4,447,295	0	30	5	23	47	42	DAVE KIMBRELL	5250 W CR 200S YORKTOWN
359924	627,352	4,447,189	0	50	5	30	90	85	YORKTOWN CHRISTIAN CHURCH	
411618	629,106	4,448,753	0	25	0	12	104	25	MIKE GOLDSMITH	8309 COLONY DR YORKTOWN, IN
411632	628,597	4,446,008	0	80	0	16	105	40	BARBARA BOGUE	4030 S CR 550W YORKTOWN, IN
359956	630,222	4,446,057	0	40	4	4	74	71	KENT DUNCON	3451 S BELL CREEK RD YORKTOWN IN
142773	631,718	4,448,843	165	100		35	201	168	JERRY STOUT	
70189	630,600	4,447,924		30	5	30	54	50	JERRY FRIDDLE	2211 S. EVAN PARK DR., YORKTOWN
20425	627,600	4,449,475		30	5	16	87	83		9808 TOWNSEND
142778	631,668	4,448,839		25	5	40	81	77	JERRY STOUT	
142768	631,766	4,448,846		40	5	30	100	96	JERRY STOUT AUTO SALES	
352	629,525	4,449,230	26	18		10	41	26	JIM THOMAS	WILDERNESS RUN RIVER RD
360814	631,353	4,449,708	0	16	0	22	161	59	TONY HAUGHN	404 N. KETTNER DRIVE, MUNCIE, IN
360794	632,191	4,448,121	0	40	0	19	121	54		
360799	632,191	4,448,121	0	40	0	19	121	54		
360824	632,191	4,448,121	0	40	0	16	141	79	LOWELL ROETKEN	5001 W. NORTH ST., MUNCIE, IN
355	630,738	4,449,207	55	6.7		19	150	55	JOHN SMITH	R4 KOKOMO IN
406419	628,162	4,447,210	0	35	5	15	63	58	MICHAEL & JENNY GROVE	4000 S CO RD 600W YORKTOWN, IN
280103	630,903	4,448,537		60	2		72	70	J G CASE	171 E STREETER AVE MUNCIE
357	630,782	4,448,969	40	7.5		11	74	40	E.J. SUSK	YORKTOWN IN
358	630,740	4,448,863	45	10		19	90	45	E.J. SUSK	R2 YORKTOWN IN
351	630,400	4,449,275	21	7		17	155	23	MARK CLARK	
354	630,800	4,448,710	100	12.7		35	105		ORVILLE GERNARCH?	R2 YORKTOWN IN
23324	630,920	4,449,474	55	50		23	170	70		
317403	631,368	4,448,909	0	20	0	15	149	92	BRUCE BRIGHT	1618 KINGSTON, MUNCIE, IN
317407	631,368	4,448,909	0	20	0	30	200	178	BRUCE BRIGHT	1618 KINGSTON DR., MUNCIE, IN
293	631,610	4,449,704		20		21	88	88	MARTIN CLARENCE	609 CHYRL DRIVE
353	629,766	4,448,717	25	8.3		29	52	25	DELRAY MCKINLEY	YORKTOWN LUMBER YORKTOWN IN
23325	630,712	4,449,408	23	50		15	156	38	PLAYERS CLUB - SHOP	
1521	632,708	4,447,130		8.3		22	53	53	CLARENCE PEPHO (SP?)	307 E CHARLES MUNCIE, IN
356	630,770	4,448,927	47	10		10	80	47	JOHN SMITH	R4 KOKOMO IN
269476	629,529	4,448,819	28	30		28	170	32	BILL WALKER	YORKTOWN, IND.
349	630,764	4,448,833	43	5.3		10	120	43	IND LUMBER & SUPPLY CO.	2240 BROWNBERY ANDERSON IN
27233	632,605	4,450,268	30	25		15	111	33	WAYNE CLARK	
350	631,078	4,448,820	72	15			82	73	HOWARD DEEREN	MUNCIE IN
23331	630,251	4,450,752	13	60		10	60	25	JERRY CHILDS	7105 W CHEYENNE DR MUNCIE IN
368801	631,341	4,450,513	0	50	5	28	107	102	WAYNE BUD" WILLITZER"	6091 W HELLIS DRIVE, MUNCIE, IN
95802	630,690	4,445,028		30	5	16	45	40	RICHARD HOOD	5110 S. BELL CREEK, MUNCIE, IN
368800	631,341	4,450,513	0	20	0	20	222	98	KATHY GRIMM	6089 HELLIS DR., MUNCIE, IN
368790	631,796	4,447,709	0	412	17	30.3	156	139	BORG WARNER	5401 KILGORE AVE., MUNCIE, IN
368809	630,576	4,448,086	0	25	0	30	75	50	BILL BESS	2200 S. WEBSTER, YORKTOWN, IN
250717	631,656	4,448,588		65	5	34	163	158	ARLIS TURNER	1609 WOODRUFF, MUNCIE, IN
368802	630,616	4,446,468	0	45	5	22	48	48	TIM SPANGLER	6501 W 200 S
368803	630,616	4,446,468	0	45	5	22	48	43	TIM SPANGLER	6501 W 200 S
368806	629,828	4,445,645	0	50	0	16	182	169	DAVID & LISA PEGG	7750 W NIXON RD., YORKTOWN, IN
368807	629,806	4,446,449	0	50	0	22	202	76	TIM & LISA BEVANS	7721 W CR200S, YORKTOWN, IN
229	629,781	4,450,778	48	250		20	99	52	CNTY CRIPPLE CHLDNR CAMP	YORKTOWN IN
232	630,400	4,450,800	46	40		30	80	48	JIM CROOKSTON	
233	631,089	4,450,596		10		27	83	83	ROBERT W CROSS	R6 MUNCIE IN
1522	633,566	4,448,630		10		24	51	51	TOM BRONNENBERG	2607 W 32ND ST MUNCIE, IN
234	631,070	4,450,856	40	10		18	55	40	W L VANFOSSEN	MUNCIE IN
231	630,495	4,450,544	28	30		15	81	28	WILLIE MCCOY	
230	630,730	4,451,043	42	20		17	76	42	JOHN FULLER	
142793	627,842	4,448,691	69	15		32	141	69	RUSSELL MORROW	9560 W CR83 S, MUNCIE, IN
297303	628,597	4,446,012	0	50	5	6	60	55		
280109	629,340	4,450,538	43	50		16	81	28		7909 YORK PRAIRIE WAY, MUNCIE IN

IDNR Water Well Records Within the 5-Foot Drawdown Contour, Yorktown Well 4, Yorktown, Indiana

142788	630,245	4,450,769	15	30		13	60	25	JERRY CHILDS	7105 CHEYENNE DR., MUNCIE, IN
363	630,822	4,448,910	58	10		25	91	58	EMMET SUSK	R2 YORKTOWN IN
371	628,094	4,448,932	69	15		32	174	69	LEON CALVERT	R1 DALEVILLE IN
142798	631,008	4,448,435		30	5	17	76	74	EMERSON ELLCESSOR	804 N. KETNER DR., MUNCIE, IN
142783	630,415	4,449,290	11	15		12	126	24	LARRY STOUT	7001 W. RIVER RD., MUNCIE, IN
522	630,070	4,447,640		18	6	17	37	37	BILL ROBERTS	R1 YORKTOWN IN
321	630,801	4,448,831	90				121		ELIZA ARGO, WSIDE CHURCH	WSIDE CH OF CHRIST, YORKTOWN IN
27249	630,660	4,450,906	45	60		32	145	49	FOE STEPHEN	6709 W ISANOGEL MUNCIE IN
280105	628,556	4,450,499	37	60		20	102	38	ELAINE WALTERS	8805 W LONE BEECH RD MUNCIE
375	629,195	4,448,477	54	8.3			84	54		YORKTOWN IN
399	627,277	4,448,399	85	11		21	168	85	ARTHUR DAVIS	2905 BALL AVE MUNCIE IN
324	631,281	4,448,809		20	6	23	67	61	JAMES ANDERSON	5906 KILGORE AVE MUNCIE IN
376	628,514	4,449,068	53	8.3		30	65	52	HAROLD K. MORRISON	YORKTOWN IN
328	631,128	4,448,995		6		20	51	51	TED DANHAM	MUNCIE IN
329	631,335	4,448,926		10		23	57	57	GAYLON WILLIAMS	R2 YORKTOWN IN
402	627,645	4,449,435		50	5	15	65	60	BRUCE & JULIA CANTRELL	2005 HIMLOCK RD MUNCIE IN
377	628,502	4,449,147		12		23	44	44	BILL HUDSON	ANDERSON IN
370	628,026	4,448,946	54	12		28	165	54	LEON CALVERT	R1 DALEVILLE IN
521	629,394	4,447,941	40	10			76	40	LUTHER KISER	R2 YORKTOWN IN
322	631,255	4,449,050		10		22	80	80	ROBERT BRANDON	2705 W JACKSON ST MUNCIE IN
294	631,000	4,448,830		18	6	20	34	34	VILLAGE PANTRY	SR32 & NEBO
314	631,795	4,448,952	165	76	10	27	210	155	CLAUDE HUDSON	SR32 WEST
6837	630,751	4,447,912	0	50	5	17	59	55	JERRY GARRETT	2315 S STONEHAVEN YORKTOWN IN
327	632,350	4,448,823		10		23	46	46	MRS GATES	SR32
311	631,569	4,448,644	136	65			175	140	RALPH WILSON	1404 STOCKPORT DR MUNCIE IN
312	631,682	4,448,967		90	10	22	70	51	MUNCIE DRIVE-IN THEATER	5518 KILGORE MUNCIE IN
455	628,956	4,448,293	72	14		63	204	77	AUDREY D. FULLER	HOME BLDG INC R2 YORKTOWN IN
320	631,299	4,449,093	157	20		22	177	137	PAUL THORNBURG	1314 ITALINO DR
295	631,375	4,448,830		30		30	61	57	GARY FERRELL	
27250	630,252	4,450,836	27	30		12	62	27	QUINN	7104 W CHEYENNE MUNCIE IN
395	627,626	4,448,471	86	10		30	87	87	ROY VISE	R1 YORKTOWN IN
221	630,118	4,450,896	0	15	0	25	55	0		
222	630,727	4,450,709	0	6.7	0	8	140	31	LYLE SHEFFIELD	2714 PETTY RD MUNCIE IN
223	630,528	4,450,501	10	30	0	6	36	20		
224	630,528	4,450,501	5	30	0	30	64	42		
236	632,310	4,450,540		50	2	30	62		ROBERT ELDER	
226	630,528	4,450,501	0	10	0	22	70	44		
227	630,528	4,450,501	0	15	0	20	43	43	KEY REALTY	
220	630,118	4,450,896	25	10	0	20	108	63		
241	631,741	4,450,919	0	11.7	0	20	87	53	FRANKLYN D BRINKMAN	5306 W JACKSON MUNCIE IN
242	631,030	4,450,816	0	15	0	26	77	60		
247	631,741	4,450,919	0	15	0	15	72	42	JOE ALLARDT	3801 RIVERSIDE AV MUNCIE IN
369	628,056	4,449,175	99	15		30	169	99	WM. PLUMMER	RR YORKTOWN IN
249	631,741	4,450,919	0	10	0	0	43	40		
251	631,341	4,450,513	0	8.3	0	30	100	0	KENNETH YINGLING	R6 MUNCIE IN
228	630,528	4,450,501	0	10	0	35	56	56	BIRD STRANGE	
378	628,454	4,449,079		30	4	17	42	42	VERIL TALBOLT	
519	630,597	4,447,695		10		16	48	48	MR BEATY	YORKTOWN IN
255	631,741	4,450,919	0	25	0	17	70	50	BEN WATKINS	CAMMACK IN
225	630,528	4,450,501	0	15	0	20	75	43		
359	630,746	4,448,829	32	3.5		12	37	32	JESSE BLANKENSHIP	R3 BOX 57 MUNCIE IN
317	631,020	4,448,990	92	6			212		PAT MARTER	6209 PENROD
307	632,531	4,448,639	66			29	505	165	WARNER GEAR CO.	MUNCIE IN
99	629,007	4,450,565	0	8.3	0	0	49	34	EDWARD WEJEIK	112 NEELY AVE MUNCIE IN
396	627,627	4,448,471		3		18	52	52	ROY VICE	R2 YORKTOWN IN
23298	630,488	4,450,588	27	35		14	81	27	C W REEVES	500 HEMLOCK RD MUNCIE IN
518	630,650	4,447,925	45	7		17	170		LARRY GILPEN	EVAN PARK ADDN
297	632,510	4,449,480	94	18		52	125	44	JACK DOUGHTY	R1 YORKTOWN IN
318	631,625	4,448,525		15	5	30	51	47	PHILLIP TETRAURT	1700 ITALIANS DR MUNCIE IN
118	628,302	4,450,244	0	10	0	12	98	60	SAM CUNNINGTON CONT.	MUNCIE IN
523	630,595	4,447,720	28	20		17	62	48	GENE CLEVINGER	R2 YORKTOWN IN
122	629,107	4,450,668	0	20	0	21	92	38	JOE BROSKER	YORKTOWN IN
516	629,383	4,447,887	34	13.3		24	60	34	RAY COFFMAN	ANDREWS RD YORKTOWN IN
316	631,660	4,448,590		0.5	5	50	116	112	REX GILLUM	1704 WOODRUFF DR MUNCIE IN
374	628,117	4,448,640	68	10		54	166	68	DELMAR HUMBERT	R1 YORKTOWN IN
325	631,615	4,448,755	160			40	160		OSCAR CRUM	3402 PETTY RD, MUNCIE IN
128	629,107	4,450,668	0	12	0	14	61	29	DAMON SUMMERS	R2 YORKTOWN IN
372	628,363	4,449,156	61	12		25	126	61	DON HOUSE	1240 KILGORE AVE MUNCIE IN
323	631,724	4,448,760				45	132	132	JAY DRYER	YORKTOWN IN
258	631,079	4,450,686	81	12		30	96	81	LUCILLE H MCMULLEN	R6 MUNCIE IN
296	631,090	4,449,110	128	30		30	183	128	LARRY GELPEN	
315	631,873	4,448,810	164	22		30	298	164	CLAUDE HUDSON	MUNCIE IN
53092	630,903	4,447,197	125	60		26	142	126	DAWN GREENWOOD	2907 S. NEBO, YORKTOWN, IN
238	631,112	4,450,826	58	20		16	170.5	58	T D MOORE	
3964	630,440	4,450,560	14	60		8	81	28	WILSON CONSTRUCTION INC	PO BOX 450, MUNCIE IN, 500 MESA DR., YORKTOWN
153	628,302	4,450,244	0	50	0	14	177	79	RAYMOND STEVENS CONTR.	YORKTOWN IN
273	631,162	4,449,020	73	10		20	73	73	BOB BRANDON	2705 W JACKSON ST MUNCIE IN
250642	628,979	4,447,439	34	75		19	70	38	JOHN MILLER	1007 NEW YORK, YORKTOWN IN
275	631,722	4,449,597		20	4	16	62	62	GARRETT	RIVER RD MUNCIE IN
161	628,906	4,450,461	0	15	0	18	53	30	ALSTATE CONSTRUCTION CO	ETHEL AVE MUNCIE IN
23227	629,780	4,449,040	6	45		15	175	52	MIKE ANDERSON AUTO CLINIC	424 W 10TH ST MUNCIE IN
164	629,107	4,450,668	0	10	0	0	61	0	WILBUR ALLEY	
237	630,972	4,450,867	50	10		22	64	50	STEVEN RAMSEY	R6 MUNCIE IN

330	631,517	4,448,735	135	50		20	152	137	CECIL DRAGGO	1608 STOCKPORT DR MUNCIE IN
178	629,107	4,450,668	0	6.7	0	18	40	0	BIRD STRANGE	DALEVILLE IN
257	630,973	4,450,393	45	10		13	102	45	DALE BECK	
189	629,107	4,450,668	0	15	0	15	52	22	MARSHALL SISK	BREWINGTON WOODS MUNCIE IN
190	629,209	4,450,570	0	5	0	20	40	0	BIRD STRANGE	DALEVILLE IN
1862	633,031	4,446,879		12		16	48	48	C E SPANGLER	MUNCIE IN
1868	632,740	4,446,012	58	15		22	137	60	ROBERT HUFFTER	MUNCIE IN
110928	629,049	4,447,404	34	65		21	84	34	RODNEY SMITH	2612 NEW YORK, YORKTOWN, IN
402022	630,558	4,448,892	0	20	0	16	155	41	ROB COLEMAN	7021 W KILGORE YORKTOWN, IN
402006	632,191	4,448,121	0	50	3	14	60	57	BASIL DAVIS	304 N BRENTWOOD MUNCIE, IN
402078	628,975	4,447,234	0	40	0	26	81	33	ROGER & MOLLY CARVER	10005 W BETHEL RD GASTON, IN
275809	630,153	4,449,242	10	30		15	155	26	MIKE STOUT	7109 W. RIVER RD., YORKTOWN, IN.
541	631,103	4,447,186	0	0	0	31	43	40	O L ROSE CONTRACTOR	R4 MUNCIE IN
402014	629,828	4,445,645	0	50	3	5	44	41	MELISSA & DAN HIATT	9321 S HONEYCREEK RD MUNCIE, IN
224846	631,386	4,447,308		30	5	10	40	40	BRENT REED	6153 W. HARPER DR., YORKTOWN, IN
142734	632,600	4,448,497	113	15		35	160	113	W P MILLINER	32 W AND 300 W MUNCIE
1495	633,065	4,449,637	0	0	0	0	170	84		
1496	633,569	4,448,735	0	8.3	0	20	37	37	CLAUDE BRONNENBERG	R4 MUNCIE IN
1498	633,468	4,448,834	0	8.3	0	14	34	34	CLAUDE BRONNENBERG	3601 W 8TH ST MUNCIE IN
1507	633,569	4,448,735	0	8.7	0	21	50	50	CLAUD BRONNENBERG	
1509	633,361	4,449,335	0	15	4	27	64	60	JESS MOORE	RR MUNCIE, IND.
1510	633,361	4,449,335	0	7.5	0	21	45	43	J. W. MOORE	RR BOX 422 YORKTOWN, IN
1511	633,569	4,448,735	0	8.3	0	21	42	42	CLAUDE BROMENBERG	3601 W 8TH ST
538	631,770	4,448,570		402	20	30	205	147	WARNER GEAR PLT 3 WELL 4	MUNCIE
1513	632,782	4,448,722	0	50	0	15	158	83		
546	632,351	4,448,476			10	16.1	24.48	16.71	BORG WARNER	5401 KILGORE AVE MUNCIE IN
1516	633,361	4,449,335	0	0	0	0	163	0	CHARLES RETTIGS	325 BALL AVE
1518	632,977	4,448,928	0	8.3	0	24	42	42	ROY BAUGH	RR 4 ? (UNREADABLE)
1519	632,977	4,448,928	2	8.3	0	17	37	37	CLAUDE BRONNENBERG	3601 W 8TH ST MUNCIE, IN
1548	632,874	4,449,230	0	40	0	6	361	141.5	MUNCIE SEWAGE DISPOSAL	MUNCIE IN
259	631,766	4,449,316	0	0	5	24	142	137	WARNER GEAR CO	KILGORE RD MUNCIE IN
260	631,766	4,449,316	0	400	0	0	201	100	WARNER GEAR CO	KILGORE RD MUNCIE IN
261	631,766	4,449,316	0	4	0	0	103	15	CHA WATSON	DALEVILLE IN
262	631,368	4,448,909	0	0	5	20	60	55		
263	631,561	4,449,511	2	0	0	20	52	52		
264	631,353	4,449,708	0	0	0	25	95	95		
265	631,574	4,448,713	4	15	0	22	99	99	WAYNE HARMON	MUNCIE IN
266	631,368	4,448,909	2	12	0	30	172	145	GALE TESHOTIES	MUNCIE IN
267	631,368	4,448,909	0	5	0	42	100	0	ROGER TUCKER	R2 YORKTOWN IN
142838	633,361	4,449,335	0	50	5	6	51	47	MARK CLARK	RIVER RD MUNCIE
536	630,137	4,447,744	29	15		14	60	29	MARLEN MENDENHALL	R2 CORNBREAD RD YORKTOWN IN
1514	632,968	4,449,737	0	400	0	20	46	0	DAVIS HOMES	353 W 6ST PLACE INDIANAPOLIS, IN
271	631,766	4,449,316	0	0	0	0	63	48	WARNER GEAR CO	MUNCIE IN
272	631,468	4,449,011	0	10	4	23	55	55	DONALD HORNBACK	STOCKPORT RD MUNCIE IN
274	632,477	4,449,424	0	10	0	25	167	105		
277	631,766	4,449,316	0	0	0	0	106.5	0	WARNER GEAR CO	MUNCIE IN
278	631,766	4,449,316	0	0	0	15	102	102	WARNER GEAR CO	MUNCIE IN
268	631,368	4,448,909	10	0	0	25	72	72	JOE HEILMAN	6000 GRAY ST MUNCIE IN
280	631,766	4,449,316	0	0	28	19	185	113	WARNER GEAR CO	MUNCIE IN
281	631,766	4,449,316	0	0	0	0	0	0	WARNER GEAR CO	MUNCIE IN
283	631,766	4,449,316	0	20	0	19	109	98	LIUCK NOTTINGHAM	R2 YORKTOWN IN
284	631,766	4,449,316	0	0	0	23	118	99		
285	631,766	4,449,316	0	15	0	40	154	154	MRS FRED WILLIAMS	MUNCIE IN
287	631,368	4,448,909	2	12	0	30	176	147	GALE TCSHORES	MUNCIE IN
529	630,286	4,447,676	30	30		12	62	30	JACK COOK	
279	631,766	4,449,316	0	0	0	24	142	0	WARNER GEAR CO	MUNCIE IN
298	631,162	4,449,106	4	8.7	0	34	186	54	DELRAY MCKINELY	YORKTOWN LUMBER YORKTOWN IN
269	631,766	4,449,316	0	30	0	10	156	106	IRMA BROWN	5610 RIVER RD MUNCIE IN
545	632,314	4,448,480			10	15.42	24.45	16.65	BORG WARNER	5401 KILGORE AVE MUNCIE IN
301	631,766	4,449,316	0	15	0	30	181	176	LARRY STOUT	MUNCIE IN
302	631,766	4,449,316	0	0	0	20	59	54	WARNER GEAR CO.	MUNCIE IN
303	631,766	4,449,316	0	0	5	24	142	137	WARNER GEAR CO.	MUNCIE IN
304	631,766	4,449,316	0	0	0	18	57.5	0	WARNER GEAR CO.	MUNCIE IN
289	631,766	4,449,316	20	25	0	20	164	104		
547	632,361	4,448,507			10	15.51	24.06	16.26	BORG WARNER	5401 KILGORE AVE MUNCIE IN
308	631,766	4,449,316	0	0	0	22	180	112	WARNER GEAR CO.	MUNCIE IN
309	631,766	4,449,316	0	0	0	30	113	0	WARNER GEAR CO.	MUNCIE IN
310	631,766	4,449,316	0	0	0	0	201	184	WARNER GEAR CO.	MUNCIE IN
313	631,059	4,449,204	0	75	0	17	161	86	LOVE ROOFING	MUNCIE IN
319	631,059	4,449,204	4	15	0	14	107	71	DALE STERRENSON	R6 MUNCIE IN
326	631,266	4,449,007	6	6	0	19	53	53	ELLIS WILLIAMS	R2 YORKTOWN IN
389272	629,221	4,450,255	0	50	0	18	101	37	JOHN CROZIER	308 EUCALYPTUS COURT, MUCIE, IN
291	630,558	4,448,892	0	0	0	27	195	53	RAY VANBUSKIRK(?)	
331	630,757	4,449,098	10	0	0	25	65	56	CLAUDE SONNELL	1823 E 23RD ST
332	630,558	4,448,892	10	15	0	15	149	49	MYERS	R1 YORKTOWN IN
333	630,143	4,449,283	0	0	0	20	71	30	JOHN SMILEY	R2 BX300
275804	629,033	4,447,474	32	70		25	66	35	DARREL SAVAGE	8305 E. COOLEY, YORKTOWN, IN.
335	630,143	4,449,283	20	0	0	10	129	29	ENGLEHART	MUNCIE IN
336	630,757	4,449,098	60	25	0	40	167	75	CLAYTON TOBY	BEVERLY HEIGHTS
290	630,558	4,448,892	10	15	0	0	115	109		
338	629,747	4,448,871	0	15	0	12	126	0		
306	631,766	4,449,316	0	0	0	18	195	0	WARNER GEAR PLANT #1	MUNCIE IN
340	630,558	4,448,892	0	10	0	27	140	64		

IDNR Water Well Records Within the 5-Foot Drawdown Contour, Yorktown Well 4, Yorktown, Indiana

341	630,143	4,449,283	0	15	0	10	93	43	CHARLES STRICKLAND	YORKTOWN IN
389265	628,975	4,447,234	0	18	0	25	140	37	GENE GRITTON	3300 S CR 500W, YORKTOWN, IN
343	630,558	4,448,892	0	15	0	40	168	53	BENADOWN CONST.	MUNCIE IN
344	630,558	4,448,892	0	13.3	0	20	130	0	LAWRENCE LEMONS	R2 YORKTOWN IN
337	630,558	4,448,892	0	6.7	0	8	85	23	JAMES M BLEVINS	102 WEST ST YORKTOWN IN
346	630,558	4,448,892	0	15	0	18	114	60	RAY VAN BUSKIRK	EATON IN
347	630,558	4,448,892	15	9	0	37	115	0	ED MCKIBBIN	
348	630,558	4,448,892	15	10	0	40	105	0	ED MCKIBBIN	
360	630,649	4,449,396	10	15	0	17	170	18	PROPERTY HOUSE REALTY	
342	630,766	4,448,697	15	15	0	40	170	0	GASTINEAU	BEVERLY HEIGHTS MUNCIE IN
334	630,143	4,449,283	12	10	0	23	108	40	KENNETH SMITH	RR YORKTOWN IN
524	630,010	4,447,710	27	15		15	61	61	SAMUEL MOORE	R2 YORKTOWN IN
365	630,766	4,448,697	0	15	0	25	180	77	JOHN SMITH	
300	631,766	4,449,316	20	0	0	24	113	96	JIM BLEVINS	R1 PARKER IN
367	630,558	4,448,892	0	0	0	45	145	18	MELVIN STOTTLEMYER	1610 W 17 ST MUNCIE IN
526	630,440	4,448,450	42	40		30	170	45	MIKE BEEMAN	YORKTOWN IN
373	628,425	4,449,139	8	0	0	0	40	0	JOE D. SNYDER	437 S MOUND ST MUNCIE IN
361	630,649	4,449,396	30	20	0	15	148	21		
380	628,523	4,449,243	0	6.7	0	30	171	69	J.O. PRICE	2102 S ELM ST. MUNCIE IN
381	628,128	4,448,830	0	6	0	55	160	0	ALBERT BENEDICT	R1 YORKTOWN IN
382	627,930	4,448,623	0	20	0	16	152	76		YORKTOWN IN
383	628,523	4,449,243	0	8	0	40	92	0	RAYMOND HIBBARD	GENERAL DELIVERY YORKTOWN IN
384	628,523	4,449,243	0	15	0	40	162	69	WILLIE CRAIG	R4 MUNCIE IN
385	628,128	4,448,830	0	8.3	0	0	174	0	JOHN KIMMEL	R1 YORKTOWN IN
386	628,326	4,449,036	4	10	0	21	102	58	TOM MILLER	R2 YORKTOWN IN
387	628,326	4,449,036	2	0	0	25	46	46	WM KELLER CONSTRUCTION	WESTCHESTER ADDITION
270426	627,573	4,449,490		50	4	15	77	73	JERRY ENGLE	9800 W. GALLAGER WAY. YORKTOWN,IN.
389	628,326	4,449,036	0	8.3	0	18	53	50	DELRAY MCKINELY	YORKTOWN IN
391445	628,906	4,450,461	0	50	0	35	150	147		
391447	630,956	4,449,398	0	30	0	18	101	58	JOSH CALDWELL	404 N. NEBO RD., MUNCIE, IN
509	627,921	4,449,026	0	10	0	24	164	64		
345	630,558	4,448,892	25	0	0	10	119	56	WM. KELLER CONTRACTORS	RIVER RD MUNCIE IN
434	627,290	4,447,427				28.2	97	97	BOB KING	R1 BX13 YORKTOWN IN
530	630,823	4,447,744	85	10		20	85	85	HUGO COOK	R4 SPRUCE ST MUNCIE IN
388	628,326	4,449,036	0	0	0	35	133	0	WM KELLER CONSTRUCTION	MUNCIE IN
391444	628,906	4,450,461	0	30	5	35	63	59		
390	628,523	4,449,243	2	12	0	28	80	65	PETE LUX	RR YORKTOWN IN
391	627,921	4,449,026	0	8.3	0	30	165	0	DAVID PORTER	312.5 S CHARNEY ST MUNCIE IN
528	630,949	4,447,864	91	8.3		14	113	91	ARTHUR MORRIS	308 W MEMORIAL DR MUNCIE IN
282	630,994	4,448,815	77	15		24	185	79	PHILLIPS 66	
366	630,558	4,448,892	0	9.2	0	8	145	30	DICK BYRD	SARASOTA DR
250618	629,513	4,449,308	17	15		8	186	21		7900 RIVER RD., YORKTOWN, IN
525	630,565	4,447,700	26	15		16	60	26	MARK BENNETT	CORNBREAD RD YORKTOWN IN
305	631,766	4,449,316	0	0	0	20	69	0	WARNER GEAR CO.	MUNCIE IN
379	628,523	4,449,243	0	8	0	32	100	86	TOM MILLER	YORKTOWN IN
337238	628,162	4,447,210	0	40	0	20	0	33		
544	632,398	4,448,510			10	15.25	24.23	16.53	BORG WARNER	5401 KILGORE AVE MUNCIE IN
1512	633,569	4,448,735	0	15	0	30	170	165	J. W. MOORE	3941 AUDUBON RD. INDIANAPOLIS, IN
362	630,766	4,448,697	35	7	0	35	201	106	JACK MALARKEY	301 ROOSEVELT MUNCIE IN
364	630,766	4,448,697	0	5	0	14	77	37	IND. LUMBER & SUPPLY CO.	2240 BROADWAY ANDERSON IN
270	631,353	4,449,708	10	30	0	30	122	91	STEPHEN SCOTT	22 HELLIS DR YORKTOWN IN
299	631,766	4,449,316	0	30	4	19	72	68	RON SPANGLER	MUNCIE IN
539	631,780	4,448,430		402	20	30	148	120	WARNER GEAR DIVISION, PLANT #3	MUNCIE, IN
368	630,558	4,448,892	0	12.1	0	12	90	39	LAWRENCE LEMONS	R2 YORKTOWN IN
292	631,523	4,449,477		8.7		14	46	46	ROY BARTLEY	3706 S MAPLE LANE MUNCIE IN
286	630,916	4,448,804	99	100		30	186	105	MARATHON OIL CO	MUNCIE IN
339	630,558	4,448,892	15	20	0	30	108	0		
430	627,631	4,447,539	97	10		22	114	97	ELVIS WHITACKER	R2 YORKTOWN IN
288	631,766	4,449,316	4	15	0	0	143	108	JIM TURNER	R1 YORKTOWN IN
1307	632,797	4,450,190	41	20		18	77	41	CHARLES BOWEN	HAWTHORN DR
276	631,522	4,449,500	83	55		15	83.5	83.5	RAY BERTLEY	W RIVER RD MUNCIE IN
1524	633,578	4,448,332	0	8.3	0	11	32	32	CLINT ZAVAKOS	2001 SPRUCE ST MUNCIE, IN
478	631,796	4,447,709	0	10	0	12	80	80		
514	631,402	4,447,295	0	15	0	15	28	28		
537	631,402	4,447,295	0	13.3	0	24	180	180	LAWRENCE LEMON	BRINDLE RD R2 YORKTOWN IN
540	631,103	4,447,186	0	4	0	23	33	33	O L ROSS CONTRACTOR	R4 MUNCIE IN
433	627,662	4,447,575	78	76		12	200	78	ORLY WEBSTER	R2 YORKTOWN IN
542	631,103	4,447,186	0	3	0	22	143	143	ERNEST SUTTON	R4 MUNCIE IN
341258	628,597	4,446,012	0	82	0	11	170	52	GOLA HENSLEY	
548	631,796	4,447,709	5	13	0	15	44	44	WILLIAM DICE	
406424	630,423	4,448,019	24	300		17	225	29.6	CITY OF YORKTOWN	
550	631,197	4,447,493	30	50	400	11	41	41	SANDERS	
551	631,197	4,447,493	2	10	0	9	32	0	BIRD STRANGE	DALEVILLE IN
552	631,197	4,447,493	2	15	0	15	43	43	DICK GLAUB	YORKTOWN IN
553	631,197	4,447,493	10	8	3	0	38	38	DICK GLAUB	YORKTOWN IN
556	631,103	4,447,186	15	20	0	20	56	0	BOYLES	
557	631,994	4,447,915	0	10	0	12	51	51	HUGO COOK	1903 SPRUCE ST MUNCIE IN
558	631,994	4,447,915	0	9.1	0	14	75	75	HUGO COOK	R4 SPRUCE ST MUNCIE IN
559	631,796	4,447,709	0	10	0	13	85	72	HUGO COOK (CONTRACT)	1903 SPRUCE ST MUNCIE IN
560	631,994	4,447,915	0	10	0	15	67	67	HUGO COOK	R4 SPRUCE ST MUNCIE IN ??
341437	631,766	4,449,316	0	50	4	22	80	76		6300 PENROD YORKTOWN
562	631,994	4,447,915	0	10	0	12	63	63	HUGO COOK	1903 SPRUCE ST MUNCIE IN
565	631,385	4,448,104	4	10	0	16	54	54	JACK EMRICK	YORKTOWN IN

IDNR Water Well Records Within the 5-Foot Drawdown Contour, Yorktown Well 4, Yorktown, Indiana

567	631,402	4,447,295	0	15	0	0	227	198	PHILLIP YONER	YORKTOWN IN
568	631,796	4,447,709	0	25	0	30	98	81	HARROLD BARRON	
569	631,796	4,447,709	10	15	4	15	44	0	JACK REED	
572	631,994	4,447,915	0	10	0	12	63	63	HUGO COOK	1903 SPRUCE ST MUNCIE IN
1239	632,191	4,448,121	0	0	0	20	73	63	WARNER GEAR PLANT 1	KILGORE RD MUNCIE IN
561	631,994	4,447,915	0	13.3	0	16	45	45	GEORGE VISE	R2 YORKTOWN IN
477	629,567	4,447,857	0	10	0	14	60	23		
479	629,567	4,447,857	0	10	0	13	65	65		
480	630,378	4,447,878	0	10	0	11	64	64		
481	630,378	4,447,878	0	10	0	14	77	77		
482	630,378	4,447,878	0	10	0	15	57	57		
483	630,595	4,447,275	0	10	0	16	63	63		
484	630,378	4,447,878	0	10	0	20	60	60		
485	630,784	4,447,888	0	67	0	24	155	66		
346121	632,685	4,446,084	0	10.5	3	9	62	59	HANK FIERCE	4800 W. WHITE RD., MUNCIE, IN
346079	628,597	4,446,012	0	50	4	25	53	49	BRIAN NIXON	8685 W NIXON RD., YORKTOWN, IN
488	630,784	4,447,888	0	10	0	24	175	67		
489	630,784	4,447,888	0	8.7	0	10	61	61		
490	630,784	4,447,888	0	10	0	29	179	69		
491	629,567	4,447,857	0	10	0	17	65	26		
492	629,567	4,447,857	0	10	0	16	76	38	STANFORD BEATY	217 E NORTH MUNCIE IN
493	629,567	4,447,857	0	10	0	17	70	29		
486	630,784	4,447,888	0	8.7	0	16	124	72		
495	630,576	4,448,086	3	10	0	11	46	46	PAUL VISE	YORKTOWN IN
496	630,378	4,447,878	0	10	0	19	59	59		
497	630,181	4,447,671	0	10	0	18	73	41		
498	630,784	4,447,888	0	10	0	16	61	61		
499	630,378	4,447,878	0	10	0	12	106	58	GOODPASTER	EVAN PARK YORKTOWN IN
346078	631,766	4,449,316	0	50	4	25	54	50	NORMA BURDEN	6109 N. PENROD, MUNCIE, IN
501	630,181	4,447,671	0	10	0	22	38	38	MR. WEBSTER	YORKTOWN IN
494	630,378	4,447,878	0	10	0	20	57	57	BIRD STRANGE	DALEVILLE IN
503	629,567	4,447,857	10	15	0	30	50	0		
504	629,567	4,447,857	0	10	0	18	70	31	RONALD TERRY	ANDREWS ACRES YORKTOWN IN
505	629,567	4,447,857	0	10	0	15	55	24		
506	629,567	4,447,857	0	8.7	0	19	60	33	STEVEN FULER	RR YORKTOWN IN
507	630,784	4,447,888	0	20	0	14	95	62		
508	629,567	4,447,857	0	10	0	19	75	33		
510	629,567	4,447,857	0	10	0	21	75	30		
502	629,567	4,447,857	0	15	0	14	34	20	JOHN HOUGH?	YORKTOWN IN
224886	630,890	4,448,587	65	45		27	121	65	32 NEBO BUSINESS PARK	1653 S. NEBO RD., MUNCIE, IN
513	630,181	4,447,671	5	40	0	13	97	31	WARREN HAHN	R1 YORKTOWN IN
515	629,567	4,447,857	0	15	0	19	75	75		
517	629,567	4,447,857	0	15	0	14	54	22	ED DAVIS	R12 BX315 MUNCIE IN
566	631,030	4,447,349	174	15		18	187	177	ERNEST SUTTON	YORKTOWN IN
527	630,501	4,446,969	0	0	5	0	46	0	VAN BUSKIRK	
531	630,482	4,447,779	2	10	0	15	42	42	VIRGIL GLOUB	R2 YORKTOWN IN
511	629,567	4,447,857	0	10	0	19	75	75		
512	630,181	4,447,671	0	10	0	20	61	27	MONT REYNOLDS	R2 YORKTOWN IN
534	630,378	4,447,878	5	12	0	12	52	52	PAUL VISE	YORKTOWN IN
535	629,567	4,447,857	0	10	0	17	70	29	MARSHALL SISK	BREWINGTON WOODS MUNCIE IN
554	630,181	4,447,671	0	15	0	22	70	43	MARSHALL SISK	R7 BREWINGTON WOODS MUNCIE IN
520	630,482	4,447,779	3	0	0	0	43	0	GEORGE VICE	R2 YORKTOWN IN
306844	628,919	4,449,656	0	30	0	27	101	76		
438	628,558	4,447,626	0	192	0	24	0	0	UNITED MILK ??? CO.	YORKTOWN IN
532	630,784	4,447,888	4	5	0	10	30	0	BIRD STRANGE	DALEVILLE IN
441	628,558	4,447,626	0	15	0	10	133	50	DR.WILL MOORE	WHITE OAK FARM R1 YORKTOWN IN
442	629,172	4,447,442	10	15	0	0	0	44		
443	628,558	4,447,626	8	0	5	0	45	41	RANDY HUFFMAN	PITTENGER RD
456	628,558	4,447,626	0	0	0	13	68	63	UNITED MILK PRODUCTS	
457	629,162	4,447,846	0	15	0	19	65	40	GEORGE WARE, BUYER	
459	628,955	4,448,043	0	13.7	0	19	42	10	CLAUDE BEATY	R2 YORKTOWN IN
460	628,558	4,447,626	0	11.7	0	25	80	36		
439	628,558	4,447,626	0	0	0	0	0	0	MARSH FOODLINER INC.	YORKTOWN IN
462	628,975	4,447,234	0	10	10	18	53	10	ANN CALANDRELLS	R3 YORKTOWN IN
102	628,898	4,450,693	30	10		18	58	32	MARSHALL SISK	BREWINGTON WOODS MUNCIE IN
464	628,558	4,447,626	0	10	0	15	70	25		
465	628,955	4,448,043	0	11.7	0	23	80	32		
466	628,955	4,448,043	5	12	0	21	71	41	CARMON GRAY	1505 RESERVE MUNCIE IN
467	628,975	4,447,234	0	8.7	0	22	60	25	CLAUDE H BEATY	ADELIN RD YORKTOWN IN
468	628,558	4,447,626	0	13.3	0	25	60	10	GENTRY QUALLS	R2 YORKTOWN IN
461	628,975	4,447,234	0	10	10	18	53	10	ALEL BEATY	R3 YORKTOWN IN
470	628,558	4,447,626	0	15	0	19	53	24		
463	628,955	4,448,043	0	15	0	21	48	40		
472	628,558	4,447,626	0	10	0	20	57	57	BIRD STRANGE	DALEVILLE IN
473	628,558	4,447,626	0	5	0	60	155	0	FRANCIS E EVERETT	BX 19 YORKTOWN IN
474	628,558	4,447,626	0	10	0	21	40	10		
475	628,558	4,447,626	0	10	0	25	117	62	HOWARD GREGORY	YORKTOWN IN
543	631,103	4,447,186	0	0	0	46	163	160	H C COOK	R4 MUNCIE IN
555	630,181	4,447,671	0	15	0	25	43	43	KEY REALTY	MUNCIE IN
570	630,784	4,447,888	0	10	0	27	180	71	HUGO COOK	R2 YORKTOWN IN
471	628,558	4,447,626	0	25	0	-2	52	29	PAUL BOYLE	228 MILL RD YORKTOWN IN
128209	630,845	4,448,749	103	30		30	183	103	SUBWAY RESTAURANT	KILGORE RD., YORKTOWN, IN
458	629,567	4,447,857	0	14.7	0	18	65	26		

IDNR Water Well Records Within the 5-Foot Drawdown Contour, Yorktown Well 4, Yorktown, Indiana

347724	631,368	4,448,909	0	20	0	25	183	109	LINDA & ED PARKER	6300 W GRAY ST., MUNCIE, IN
533	630,181	4,447,671	0	7.5	0	18	57	43	JAMES FRENCH	R2 YORKTOWN IN
571	631,401	4,447,726		10		23	166	166	PAUL VISE	YORKTOWN IN
21077	631,473	4,449,406		10	5	40	89	85	DAVIS SHEWARD	5911 RIVER RD MUNCIE IN 47304
142803	631,083	4,447,183	165	12		24	193	167	JIM ROSS	6413 W FRANWOOD CIRCLE YORKTOWN, IND
573	632,224	4,446,505	0	12	0	28	98	98	CLARENCE HESSLER	R8 MUNCIE IN
574	631,834	4,446,093	2	15	0	26	60	60	CLARENCE HESSLER	R8 MUNCIE IN
250682	631,435	4,449,141		30	5	18	66	62	PATTY KORNMAN	6015 GRAY ST
580	630,222	4,446,057	0	16.6	0	11	157	140	LARRY GOODPASTER	PO BX133 YORKTOWN IN
581	630,222	4,446,057	2	10	0	8	37	37	F C FINDLING	R1 DALEVILLE IN
585	628,597	4,446,012	0	10	0	15	64	64	MORNAY JONES	BELL CRK RD YORKTOWN IN
446	629,070	4,447,530	33	8.67			55	33	RALPH C MULLEN	R2 YORKTOWN IN
20484	629,420	4,447,284	30	50		25	92	35	JOHN W. HOUGH	RR 2 BOX 466 YORKTOWN IN
469	628,558	4,447,626	0	10	0	24	64	44	WILBURN ALLEY	TALL TIMBERS ADD. MUNCIE IN
579	630,222	4,446,057	5	15	4	20	47	44	VERBLE CRAIG CONT	R3 MUNCIE IN
452	627,853	4,447,855	88	8.5		3.5	141	88.17	GEORGE MASTERSON	414 CANAL ST YORKTOWN IN
586	628,597	4,446,012	0	10	0	27	57	57	R S WEAVER	YORKTOWN
476	628,558	4,447,626	0	10.8	0	20	75	40		
500	630,378	4,447,878	0	10	0	14	43	43		
444	628,913	4,448,340	84	5		24	200	84	CECIL DRAGOO	508 SMITH RD YORKTOWN IN
487	630,784	4,447,888	0	10	0	19	165	67		