US ERA ARCHIVE DOCUMENT



Technical Memorandum

To: Kevin Welch, City of Tecumseh

From: Stacy Metz and Graham Crockford

Subject: Status of Well Decommissioning Activities

Date: March 2, 2012

Project: 02751.15.001

cc: Jason Smith, Tecumseh Products Company

Randy Kopke, Tecumseh Products Company

Douglas McClure, Conlin, McKenney and Philbrick, PC

Michelle Mullin, USEPA

Introduction and Background

In 2010 and 2011, the City of Tecumseh worked with the Michigan Department of Environmental Quality (MDEQ) and Tecumseh Products Company (TPC) to prepare a Groundwater Use Ordinance. The City of Tecumseh passed the Groundwater Use Ordinance on June 6, 2011. This ordinance restricts groundwater use in the area near the site. Specifically, the restricted area includes the area of affected groundwater, as well as an approximately one block buffer zone around the area of affected groundwater (Figure 1). A total of 272 parcels are included in the restricted zone. Groundwater use is restricted as follows:

- The installation, development, maintenance and use of private water wells is prohibited;
- Connection to the municipal water supply is required; and
- Existing private water wells must be abandoned.

In conjunction with preparation of the Groundwater Use Ordinance, TPC agreed to identify and abandon, with owner consent, private wells within the restricted zone. The results of efforts undertaken to identify all private wells within the restricted zone are documented in the September 28, 2011, Technical Memorandum titled "Summary of 2011 Private Well Survey Results." The 2011 Private Well Survey identified a total of 24 private wells within the restricted area (272 parcels), including 17 wells not in use; 3 wells used as a secondary, outdoor water supply, and 4 wells used as a primary drinking water source.

This technical memorandum describes efforts untaken since September 2011 to facilitate the decommissioning of private wells within the restricted zone.

December 2011 Well Inspections

Using the results of the 2011 Private Well Survey, Mr. Jason Smith of Tecumseh Products Company contacted well owners in person between December 12, 2011 and December 15, 2011 in order to verify the presence and use status of private wells within the restricted zone and to facilitate private well abandonment as appropriate. Table 1 summarizes the current status of each of the 24 parcels identified as having a private well in the September 28, 2011 Technical Memorandum titled "Summary of 2011 Private Well Survey Results." Results of the December 2011 well inspections are briefly summarized below:

- Wells used as a primary, drinking water source (4 total) had been inspected previously, and were not evaluated during the December 2011 well inspections.
- The presence of a well that is not in use had been previously verified at one location (325-0323-00), the status of that well was not re-evaluated during the December 2011 well inspections.
- Use of a private well as a secondary, outdoor water supply was confirmed at parcel 325-0312-00.
 The well owner signed an access agreement allowing TPC access to decommission this well on December 15, 2011.
- The presence of private wells at parcels 000-0481-00 and 325-0370-00 was confirmed. However these wells are not in use.
- The presence of a well, which is not in use, was confirmed at two additional properties (325-0321-00 and 325-0401-00).
- At 7 parcels (000-0272-00, 305-1021-00, 325-0301-00, 325-0313-00, 780-0330-00, 780-0550-00 and 810-0100-00) evidence of a well was present but the current status of the well (decommissioned or not) could not verified without additional tools and equipment.
- The owners of 4 parcels (325-0410-00, 780-0461-00, 780-0510-00, and 780-0520-00) indicated that a well had been present and used on the parcel historically. However based on site reconnaissance, the current presence or historic location of a well could not be verified. In most cases the alleged well had not been used for several decades.
- The owner of parcel 325-0380-00 indicated that the well historically used at that location had already been decommissioned.
- The owners of 2 parcels (000-0223-00 and 325-0091-00) indicated that no well was present at those locations.
- All well owners agreed to allow TPC to facilitate well decommissioning at their property.

Connection to the Municipal Water Supply

Prior to well decommissioning activities, Tecumseh Products Company arranged for all properties with private wells used as a primary water supply to be connected to the municipal water supply. Parcels 325-0432-00, 325-0434-00, and 325-0435-00 were connected on November 21, 2011 and Parcel 000-0421-00 was connected on January 24, 2012.

Well Decommissioning

Following connection to the municipal water supply in November 2011, three private wells previously used as a primary water supply, as well as one well that had not been in use were decommissioned by Alcock Drilling on December 16, 2011. Decommissioned wells are located on parcels 325-0323-00, 325-0432-00, 325-0434-00, and 325-0435-00. Well abandonment forms are included as Attachment 1. The property owners of parcels with wells that were previously in use (000-0421-00 and 325-0312-00) have signed access agreements allowing TPC to decommission their wells and final arrangements for well decommissioning activities are underway.

Summary

Twenty-four parcels were identified as having private wells in the September 28, 2011 Technical Memorandum titled "Summary of 2011 Private Well Survey Results." Since that time TPC conducted well inspections to facilitate well decommissioning activities, and began well decommissioning activities. The current status of private wells within the restricted zone is summarized in Table 1, illustrated on Figure 1, and summarized below:

- The four parcels which previously used a private well as their primary water source have been connected to the municipal water supply.
- Four wells have been decommissioned.
- The owners of two additional wells have signed access agreements, and final arrangements are underway to decommission those wells.
- The owners of four additional wells that are not in use are amenable to assistance from TPC in decommissioning those wells. TPC will attempt to facilitate well decommissioning at these locations by July 1, 2012.
- Evidence of wells used historically was found at seven additional parcels. TPC will attempt to verify the status of these wells and facilitate well decommissioning, if needed, at these locations by July 1, 2012.
- At two locations the owners indicated that to their knowledge no private wells are present.
- At one location the owner indicated that the well had already been filled and decommissioned.

Owners at the four remaining locations indicated knowledge of a private well used on the parcel historically. However no physical evidence of the well could be identified during well inspection activities. Given that wells cannot be located, and have not been in use of years, TRC does not believe that further action is needed to ensure compliance with the Groundwater Use Ordinance at these locations.

Table

Table 1

Parcels with Private Wells Within Groundwater Use Ordinance Area
Well Status and Decomissioning Record
Tecumseh, Michigan
February 2012

Dove al #	Drawayty Addrawa	Owner Name	Owner Address	Owner City	CT.		Private Supply Well Uses (1)	Approximate Date of Last Known Well Use	Well Status	
Parcel #	Property Address	water source and no connection to the municipal		Owner City	SI	Zip Code	Uses	USE	Well Status	
000-0421-00		HEISLER, SHARON	307 E KILBUCK ST	TECUMSEH	MI	49286	Primary	2012	Decomission Needed	
325-0432-00	607 MOHAWK ST	LOGAN. ROBERT W	1207 MURRAY DR	TECUMSEH	MI	49286	Primary	2011	Decomissioned 12/16/2011	
325-0434-00		BIRCHFIELD, RONALD A & SHERRIE L	615 MOHAWK ST	TECUMSEH	MI	49286	Primary	2011	Decomissioned 12/16/2011	
325-0435-00		BIRCHFIELD, RONALD A & SHERRIE L	615 MOHAWK ST	TECUMSEH	MI	49286	Primary	2011	Decomissioned 12/16/2011	
Parcels with municipal water as the primary water source and a well that is used as a secondary, non-drinking water source										
		MAYNARD MINI SERVICES, INC	101 CARRIAGE DR	TECUMSEH	MI	49286	Outdoor	2011	Decomission Needed	
Parcels with mu	nicipal water as the primary wa	ater source and a well that is not in use		•				•		
000-0272-00	416 E CHICAGO BLVD	KNISELY, CARLOS & BARBARA	6375 BILLMYER HWY	TECUMSEH	MI	49286	None	Before 1961	Verifty Status, Decomission if Needed	
000-0481-00	201 E KILBUCK ST	DAVIS, THOMAS B & SARAH L	409 E RUSSELL RD	TECUMSEH	MI	49286	None	Before 1998	Decomission Needed	
325-0301-00	515 E RUSSELL RD	HELMS TRUST, MICHAEL A & CAROL A	4324 BILLMEYER HWY	BRITTON	MI	49229	None	b/w 1989 & 1995	Verifty Status, Decomission if Needed	
325-0313-00	803 MILL HWY	HURLEY, MATTHEW	803 MILL HWY	TECUMSEH	MI	49286	None	Unknown	Verifty Status, Decomission if Needed	
325-0321-00	800 S MAUMEE ST	ROBERTS INVESTMENT COMPANY LLC	P.O. BOX 400	TECUMSEH	MI	49286	None	Before 1981	Decomission Needed	
325-0323-00	704 MOHAWK ST	BIRCHFIELD, TAYLOR & RONALD	704 MOHAWK ST	TECUMSEH	MI	49286	None	Unknown	Decomissioned 12/16/2011	
325-0370-00	509 MOHAWK ST	BATYIK, FRANK L	3614 NOLAND DR	TECUMSEH	MI	49286	None	2000	Decomission Needed	
325-0401-00	414 S MAUMEE ST	BOOT, MARTIN & CAROL	807 RED MILL DR	TECUMSEH	MI	49286	None	Before 1996	Decomission Needed	
305-1021-00	502 S PEARL ST	FROLICH, RICHARD J & CONSTANCE	502 S PEARL ST	TECUMSEH	MI	49286	None	Before 1981	Verifty Status, Decomission if Needed	
780-0330-00	205 W RUSSELL RD	WOTRING, LEONARD TRUST	205 W RUSSELL RD	TECUMSEH	MI	49286	None	Before 1987	Verifty Status, Decomission if Needed	
780-0550-00	738 S UNION ST	MATTHEWS, DEBRA K	738 S UNION ST	TECUMSEH	MI	49286	None	Before 1987	Verifty Status, Decomission if Needed	
810-0100-00	106 HIAWATHA ST	LEUTGEB, MARTIN A & MARSH, CHRISTINE	605 W POTTAWATAMIE	TECUMSEH	MI	49286	None	Unknown	Verifty Status, Decomission if Needed	
Parcels with mu	nicipal water as the primary wa	ater source and no current well on the property								
000-0223-00	111 S MAUMEE ST	GALL, BYRON J & JEAN L	111 S MAUMEE ST	TECUMSEH	MI	49286	None	Not Applicable	No Well on Property	
325-0091-00	416 E CUMMINS ST	BOOT MARTIN JR & CAROL	416 E CUMMINS ST	TECUMSEH	MI	49286	None	Not Applicable	No Well on Property	
325-0380-00		NOVAK LLC	426 S MAUMEE ST	TECUMSEH	MI	49286	None	Before 2001	Well Previously Decomissioned	
325-0410-00	500 E CUMMINS ST	RYAN, JOHN J & ANNE E	210 W CHICAGO BLVD	TECUMSEH	MI	49286	None	Before 1996	No Well on Property/Well Previously Decomissioned	
780-0461-00	824 S UNION ST	STEUWE, KATHLEEN M	824 S UNION ST	TECUMSEH	MI	49286	None	Before 1996	No Well on Property/Well Previously Decomissioned	
780-0510-00	804 S UNION ST	CREGER, DONALD	804 S UNION ST	TECUMSEH	MI	49286	None	1950	No Well on Property/Well Previously Decomissioned	
780-0520-00	800 S UNION ST	GLENN TRUST, SALLY A	800 S UNION ST	TECUMSEH	MI	49286	None	1956	No Well on Property/Well Previously Decomissioned	

Notes

1) Private supply well uses as of September 2011 are designated as follows: "None" - wells that are not in use, "Primary" - wells used as the primary water source from the parcel including drinking water, bathing, cleaning, and outdoor uses, and "Outdoor" - indicates wells used as a secondary water source for outdoor use only.

Figure

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Attachment 1

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER BUREAU

Permit No.

Tax No.	Р.	ABANDONE Completion is require Failur	D WELL PL d under authorit e to comply is a	y of Par	t 127 Act 368 PA	R D 4 1978.	WSSN & Source ID/Well No.							
Latitude	Longit	iude	County	Lei	nawee		Town	nship						
Distance & Direction Intersection	from Road	Well Street Address, C	ity/ZIP		Fraction 1/4	1/4	1/4	Section	Town No.	Range No.				
					Well Owner Address (a) City/ZIP Te Owner Address	11 N	MSA	hawk h. M	TIRE 1I 4 I Yes IN	5286 lo				
Drilling (3) Unknown Method (7) Other		ble Tool		ng Stai asing P		ging	j - F	t. 🗆 Belo	w Grade - 54 Al	oove Grade				
Date of Well	The second secon	■ Household ☐ Type I Pu	and the same of th	_	ing casing off	4 feet be	elow gr	ade is recoi	nmended.					
Plugging		☐ Type III Public ☐ Indi	estrial				1							
, inggaig	1	Test Well ☐ Heat Pump	Reas	Reason For Abandoning Well V Public Water Connection Welt in Disrepair										
12116111		Tool Wolf & Hour amp			onger Needed		Hole	☐ Uncomp	leted Well					
Measured Well			1	Abandonment Method ☐ Pumped Through Grout Pipe ☐ Poured From Surface ☐ Poured Through Grout Pipe ☐ Other										
Depth Co5 ft.				oured T	hrough Grout F	Pipe []	Other							
Date Well		on Type ☐ Drift Well	Pum	ping E	quipment Rem	noved	i Yes	No No						
Constructed	1	Dry Hole S Unknown												
1 1	7,								Drawdown Seal					
Unknown	Flowing Well			☐ Drop Pipe ☐ Electrical Wiring ☐ Packer ☐ Pitiess Adapter Spool										
Casing 15 Steel-b				☐ Check Valve ☐ Pump Cylinder ☐ Pump Rods ☐ Stones/Debris ☐ Submersible Pump ☐ Turbine Pump Bowls ☐ Unknown Obstruction										
☐ Clay Tile Crock ☐ (Other				,									
Diameter in.	10.													
Diameter in. t			Note	Plug	ging well from	bottom	up to	ground surf	ace i <mark>s requi</mark> red	<u>, </u>				
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					Registered Co	ontractor	7(Date	7///				

DEQ		MICHIGAN DEP	WATE	R BUREAU			Permit N	lo.					
Tax No.	*	Completion is requ	ired under a				VSSN &	Source	ID/Well No.				
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Method Other				□ Casing P	ulled								
Date of Well	Well Use	Household 🗆 Type I	Public	Note: Cutti	ng casing off	4 feet belo	w grade	is recor	nmended.				
Plugging /2!/6 / / /	☐ Irrigation ☐	☐ Type III Public ☐ It Test Well ☐ Heat Pump		Reason For Abandoning Well									
Measured Well Depth 45 tt.					ent Method E hrough Grout F				pe d Pourec	From Surface			
Date Well	Well Constructi	on Type 🔲 Drift W	ell	Pumping Equipment Removed Yes No									
Constructed													
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Casing — 🖾 Steel-b	lack [] Steel-gal	vanized [] Plastic		Check Va	ilve 🗆 Pump	Cylinder	□ Pump	Rods	☐ Stones/Deb	ris			
🗇 Clay Tile Crock 🗇	Other			Submers	ible Pump 🛭	Turbine Pu	mp Bow	ls 🖫 U	nknown Obstru	uction			
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Diameter in.	to f	ft. depth		Note: Plugg	ging well from	bottom up	to grou	ınd surf	ace is required	ż.			
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				Address (Business Name	Sut	ton	K	d				

IMPORTANT: FILE WITH DEED

Jerry alcock
Signature of Registered Contractor

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER BUREAU

ABANDONED	WELL	PLUGGI	NG	RECO	ORD
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WSSN	&	Source	ID/Well	No.

Permit No.

Tax No.		Completion is requ	rired under aut			A 1978.	WSS	N & Source	ID/Well No.			
Latitude	Longi	tude	Coun	ty Ler	nawee		Town	nship				
Distance & Direction Intersection	from Road	Well Street Address	, City/ZIP		Fraction 1/4	1/4	1/4	Section	Town No.	Range No.		
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Drilling 13 Unknown Method 13 Other Date of Well Plugging 12/16/11	Well Use ☐ Type II Public ☐ Irrigation ☐	ble Tool → Household □ Type I □ Type III Public □ I Test Well □ Heat Pum	Public / ndustrial p	Casing Status After Plugging ft. ☐ Below Grade ☐ Above Grade ☐ Casing Pulled Note: Cutting casing off 4 feet below grade is recommended. Reason For Abandoning Well ☐ Public Water Connection ☐ Well in Disrepai ☐ Well No Longer Needed ☐ Dry Hole ☐ Uncompleted Well ☐ Other								
Measured Well Depth 22 ft.				Abandonment Method ☐ Pumped Through Grout Pipe ☐ Poured From Surface ☐ Poured Through Grout Pipe ☐ Other								
☐ Clay Tile Crock, 1/4	Other	□ Dry Hole □ Ves □ No vanized □ Plastic		Pumping Equipment Removed								
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER BUREAU

ABANDONED WELL PLUGGING RECORD

Permit	No.

Tax No.		Completion is requi	ired under authorit lure to comply is a	y of Par misden	t 127 Act 368 Pa neanor.	A 1978.	WSS	N & Source	D/Well No.			
Latitude	Longit	ude	County	Len	awee		Town	nship				
Distance & Direction Intersection	from Road	Well Street Address,	City/ZIP	-2724	Fraction 1/4	1/4	1/4	Section	Town No.	Range No.		
					Well Owner Address & City/ZIP & Owner Addre	Robe 07 / eces ss Same	no no as We	Logan Raw K M N M Address?	17 492 RYes 01	8 6 No		
Drilling XI Unknown	☐ Rotary ☐ Cal	ble Tool	4.	ng Stal		ging	†	t. 🛚 Belo	w Grade 21 A	bove Grade		
Date of Well Plugging 12/16/11	☐ Type II Public	□ Household □ Type II □ Type III Public □ Ir Test Well □ Heat Pump	ndustrial Reas	Note: Cutting casing off 4 feet below grade is recommended. Reason For Abandoning Well ☐ Public Water Connection ☐ Well in Disrepai ☐ Uncompleted Well ☐ Other								
Measured Well Depth 65 ft.			□ Po	Abandonment Method ☐ Pumped Through Grout Pipe ☑ Poured From Surface ☐ Poured Through Grout Pipe ☐ Other								
Date Well Constructed / / Unknown Casing Steel-bl	☐ Other Flowing Well ☐	Dry Hole X Unknown	Pum Equit	Pumping Equipment Removed ☐ Yes No Equipment Removed ☐ Bremer Check Valve ☐ Drawdown Seal ☐ Drop Pipe ☐ Electrical Wiring ☐ Packer ☐ Pitless Adapter Spool ☐ Check Valve ☐ Pump Cylinder ☐ Pump Rods ☐ Stones/Debris								
☐ Clay Tile Crock ☐ C Diameter in. t Diameter in. t	0 0	hstruct	ion Driven to B	Bottom 🗆	Othe	er	Inknown Obstru 					
Plugging Material (En			Fron		To	Quantity		Units	and in require			
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	ets 🗆 Bentonite S	Slurry 🖂 Clean Soil Fill		IL	ft.	-		☐ Bags ☐ Other _	☐ Yards			
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			Sign	ature of	Registered C	ontractor			Date			