

May 21, 1998

Mr. Doug Joseph Wisconsin Department of Natural Resources 1300 West Clairemont Avenue P.O. Box 4001 Eau Claire, Wisconsin 54702-4001

RECEIVED MAY 27 1998 DAR - WD

Re: **Report of Preliminary Findings**

Tarco South Property 2100 East Avenue North, Onalaska, Wisconsin 54650

WDNR ID # 02-32-000209

Dear Mr. Joseph:

The purpose of this letter is to report the findings of the limited site investigation at the Tarco South Property site. A site location map is provided in Figure 1.

SOIL INVESTIGATION

On April 13, 1998, and April 16-17, 1998, Briohn Environmental Contractors of Pewaukee, Wisconsin, under the supervision of Fluid Management (FMI), advanced six test borings, four of which were completed as groundwater monitoring wells. The following summarizes the findings of the soil investigation activities:

- Four test borings, which were completed as groundwater monitoring wells (MW-1 through MW-4), were advanced to depths of 77-108 feet below ground surface (bgs). These borings were sampled continuously to 10 feet bgs and at 10-foot intervals thereafter, until the completion of each boring.
- Two additional test borings (TB-1 and TB-2) were advanced and sampled continuously to approximately 20 feet bgs. TB-1 was abandoned at approximately 20 feet bgs. TB-2, which was advanced to the groundwater table, was sampled at 5-foot intervals from 20-50 feet bgs and at 10-foot intervals thereafter, until completion of the boring (approximately 66 feet bgs). Figure 2 displays the monitoring well and test boring locations.
- Soil samples were collected from the borings and classified as to soil type according to the Unified Soil Classification System (USCS). Soils

1285 Rudy Street P.O. Box 684

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encountered during site investigation activities consisted of silt with sand from the surface to approximately 8 feet bgs; and silt with sand, silty sand, and fine to coarse-grain sand from approximately 8 feet bgs to the deepest extent of exploration (approximately 108 feet bgs). Borings logs and abandonment forms are provided in Attachment A.

- Bedrock was not encountered during site investigation activities. Based on well construction reports for the area, bedrock is anticipated to be located at depths of approximately 185 feet bgs (Wisconsin Geological and Natural History Survey [WGNHS] nd).
- Groundwater was encountered in five of the test borings (MW-1 through MW-4 and TB-2) at depths of approximately 64-100 feet bgs. The depth to groundwater varies considerably due to changes in topography across the site.
- Soil samples were field screened from all test borings with a portable photoionization detector (PID). PID readings from all sample intervals were less than 10 ppmv.
- Soil samples collected from the soil/groundwater interface in MW-1 through MW-4, and TB-2 were submitted for laboratory analysis. Two soil samples collected from the unsaturated zone in TB-1 and one soil sample collected from the unsaturated zone in TB-2 were also submitted for laboratory analysis. Soil samples submitted for laboratory analysis were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). Additional soil samples representing near surface conditions collected from TB-1 and TB-2 were submitted for laboratory analysis of RCRA metals. Table 1 summarizes the soil laboratory analytical results.

GROUNDWATER INVESTIGATION

The following summarizes the findings of the groundwater investigation:

- Monitoring wells were set at depths of approximately 77-108 feet bgs with 15 feet of screen. WDNR Monitoring Well Construction and Development forms are provided in Attachment B.
- Monitoring well MW-1 was sampled on April 14, 1998, and monitoring wells MW-2 through MW-4 were sampled on April 20 & 22, 1998.



Groundwater samples submitted for laboratory analysis were analyzed for VOCs and SVOCs. The groundwater sample collected from MW-1 was also analyzed for methyl ethyl ketone.

- The groundwater samples submitted for laboratory analysis displayed either an NR 140 Enforcement Standard (ES) or Preventive Action Limit (PAL) exceedance in each of the four monitoring wells (MW-1 through MW-4). Contaminant compounds above NR 140 ESs or PALs included (at maximum concentrations) Trichloroethane (30 ppb) and Tetrachloroethane (2.8 ppb). Table 2 summarizes the groundwater laboratory analytical results.
- The four monitoring wells locations and top-of-casing elevations were surveyed by Northwoods Surveying of Wausau, Wisconsin.

 Groundwater elevation data obtained from the four monitoring wells on two occasions displayed a groundwater flow direction to the southwest. Figure 3 illustrates the potentiometric surface on May 15, 1998. Please note that at the time of this letter the monitoring well location map has not been finalized by the surveyor. Therefore, monitoring well locations are approximate.

I will be contacting you to discuss this project. If you require additional information, please contact me at (608) 781-5470.

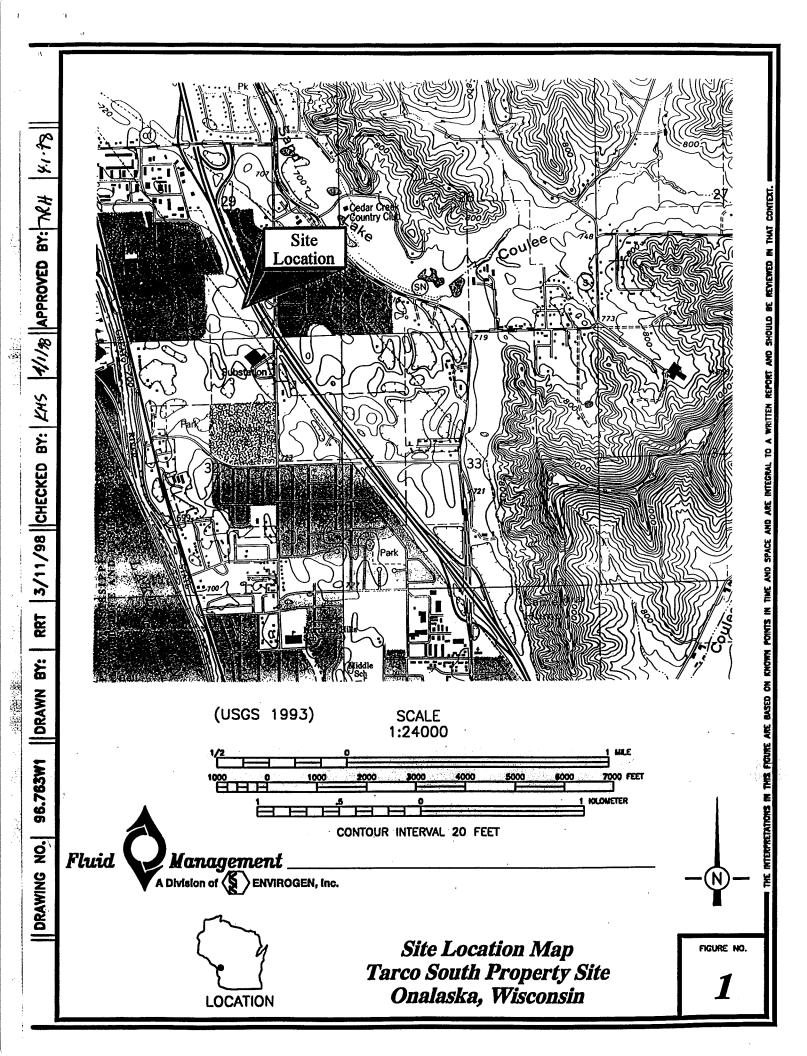
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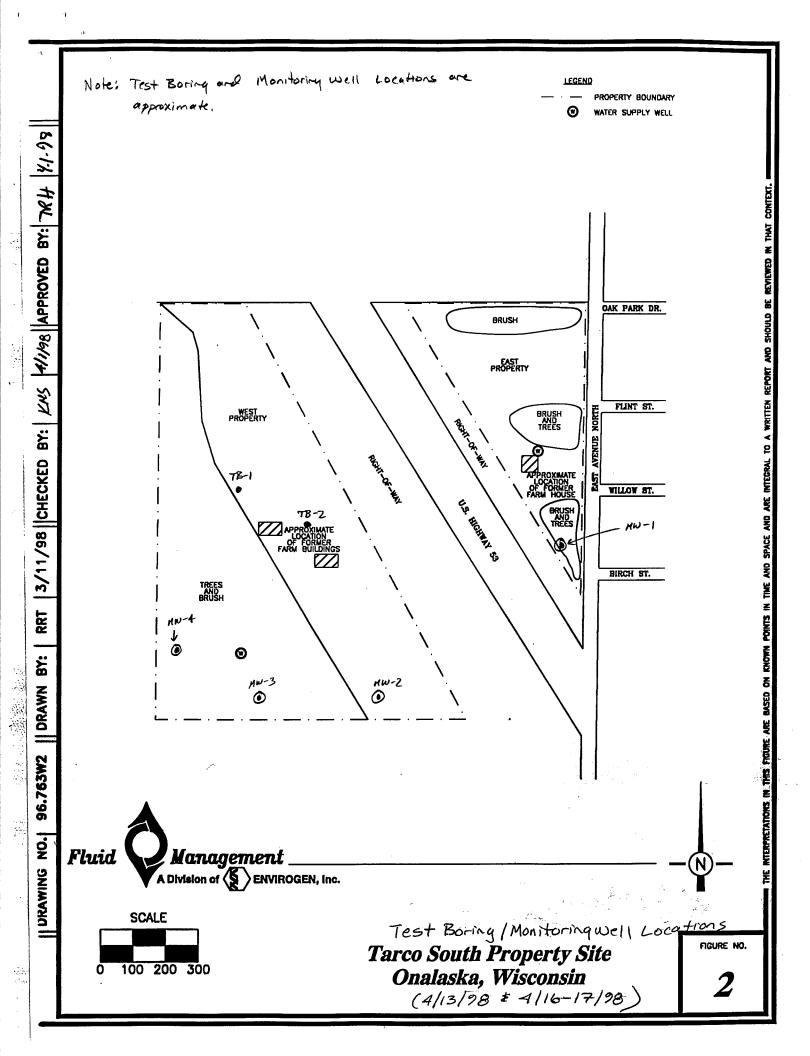
FLUID MANAGEMENT A DIVISION OF ENVIROGEN, INC.

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Ted R. Hubbes P.G. Senior Hydrogeologist

cc: Mr. Bob Tooke





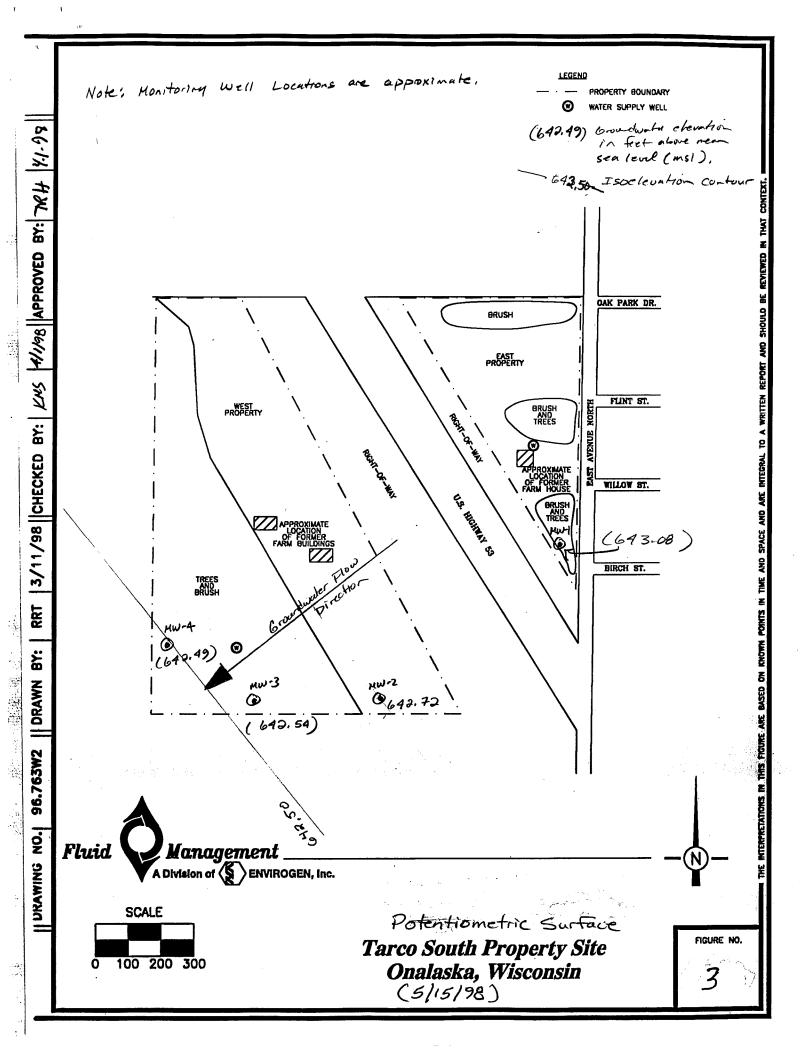


TABLE 1

Soil Laboratory Analytical Results Tarco South Property Onalaska, Wisconsin 4/13/98 & 4/16-17/98

Boring	Depth (feet)	Compound	Concentration (ppm)	NR 720 Generic Soil Standard (ppm)
mp 1	0.5.1	Barium	68	NS .5,500
TB-1	0.5-1	Chromium	12	14
		Lead	9.0	50
		Barium	82	NS 5,500
TB-2	0.5-1	Chromium	7.4	14
	64-66	Benzyl butyl phthalate	1.3	NS

Notes: Only contaminant concentrations detected in the laboratory analysis are displayed. All other concentrations were less than the laboratory limits of detection.

NS: No standard

Checked by: PDO Approved by: KM5

TABLE 2

Groundwater Laboratory Analytical Results Tarco South Property Onalaska, Wisconsin 4/14/98, 4/20/98, & 4/22/98

Well	Compound	Concentration (ppb)	NR 140 ES	NR 140 PAL
	1,1,1-Trichloroethane	1.6	200	40
MW-1	Trichloroethene	22	5	0.5
	1,1-Dichloroethane	1.9	850	85
MW-2	Tetrachloroethane	2.8	5	0.5
	1,1,1-Trichloroethane	11	200	40
	Trichloroethene	30	5	0.5
	1,1-Dichloroethane	0.48	850	85
	Tetrachloroethane	0.64	5	0.5
MW-3	1,1,1-Trichloroethane	6.9	200	40
	Trichloroethene	18	5	0.5
	Di-n-butyl phthalate	3.7	NS	NS
	* Methylene Chloride	0.79	5	0.5
	1,1,1-Trichloroethane	0.91	200	40
MW-4	Trichloroethene	(1.2	5	0.5
	Di-n-butyl phthalate	3.3	NS	NS
3.6337.6	1,1,1-Trichloroethane	0.88	200	40
MW-5	Trichloroethene	1,3	5	0.5

Notes: Only contaminant concentrations detected in the laboratory analysis are displayed. All other contaminant concentrations were less than the laboratory limits of detection.

MW-5 is a duplicate sample of MW-4.

* Methylene Chloride is a common lab solvent.

Shading indicates an exceedance of the NR 140 ES.

Crosshatching indicates an exceedance of the NR 140 PAL.

ES: Enforcement Standard

PAL: Preventive Action Limit

NS: No standard ppb: Parts per billion

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ATTACHMENT A

WDNR Soil Boring Logs WDNR Borehole Abandonment Forms

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	of Wis			sources	Route To: Solid Waste Emergency Re Wastewater	sponse [lergro				SOIL Form	BOR 4400-1	ING 22	LOG	INFO	RMAT Rev	ΓΙΟΝ . 5-92
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet		Each Major Uni	it			SC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Z #	フਲ	B	٥٥				·		D	শ্ৰ প্ৰ	20	<u>E</u>	ರಜ	ΣŬ	מני	P. d.	Ъ	₩Ŭ
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State of Wisconsin Route To: Department of Natural Resources Solid Waste H								SOIL BORING LOG INFORMATION Form 4400-122 Rev. 5-92										
Depar	runent	OI Nau	Hai Ke	sources	☐ Solid Waste			ız. Wa		mks		romi 4	1400-1	24			Kev	. 5-92
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					☐ Superfund		☐ Ot	her _		3.07		- T		10 ·	Page	3	_ of _	
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								<u>_</u> =		Feet N		<u>NA</u> Feet MSL Local Grid Location (If app				8.3 inches		
Boring State	z Locat Plane	ion		N,			E S/C/I	N I	.at	0	•	Local	Grid L			plicable	•	
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San	nple				•]					Soil	Prop	<u>erties</u>		ļ
	Length Att. & Recovered (in)	E St	Depth in Feet		Soil/Rock Desc								<u>§</u>	l	·			ي ا
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3	16	2222	- 5	same	es above, Ic.	55 51/Ly)	C-C-money page	57-54	PROPERTY.		1	****	D	an warment damage	- Appendictively opening		
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State of Wisconsin Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County Location La Crosse	Original Well Owner (If Known)
SW 1/4 of SE 1/4 of Sec. 29; T. 17 N; R. 7	Present Well Owner Bob Tooke
(If applicable) Gov't Lot Grid Number	Street or Route 2240 South Avenue
Grid Location	City, State, Zip Code
ft. N. S., ft. E. W.	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Town of Onalaska	78-2
Street Address of Well	Reason For Abandonment Test Boring
City, Village Ona laska	Date of Abandonment 4/16/98
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 64 /4.
(Date) 4/16/28	Pump & Piping Removed? Yes No Not Applicat
	Liner(s) Removed? Yes \ \ No \ Not Applicat
Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicat
☐ Water Well ☐ Yes ■ No	Casing Left in Place? Yes No
Drillhole	If No, Explain
Borchole	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Was Casing Cut Off Below Surface? Yes No Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes No
Other (Specify)	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped
Unconsolidated Formation Bedrock	Dump Bailer Other (Explain)
Total Well Depth (ft.) 66 Casing Diameter (in.)	(6) Scaling Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	Neat Cement Grout monitoring well boreholes or
	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 8.3	☐ Concrete ☐ Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	Bentonite-Sand Slurry Bentonite - Cement Grou
If Yes, To What Depth? Feet	☐ Chipped Bentonite
(7) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) Sacks Scalant One) Mix Ratio or Mud Weight
Manual Operation in application	or Wolume One) or Mud Weight
Bentonite	Surface 66 24.46+3
30,,,,,	
(8) Comments:	
(9) Name of Person or Firm Doing Scaling Work	(10) FOR DNR OR COUNTY USE ONLY
Kyle Shubert	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	Liberty County
Teste Shul 1/20/28	Roviewer/Inspector Complying Work
Street or Route Telephone Number	Noncomplying Work
1285 RudySt. (608) 781-5470	Follow-up Necessary
City, State, Zip Code	

State of Wisconsin Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 3

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACI	LITY NAME				
Well/Drillhole/Borehole Location	County La Crosse		Vell Owner (I	f Known)			•
SW 1/4 of SE 1/4 of Sec. 2 (If applicable) Gov't Lot	9; T. 17 N; R. 7 W Grid Number	Present We	Bok	outh	Le Avenu	e	
Grid Location ft. \(\sum \) N. \(\sum \) S	ft. 🔲 E. 🔲 W.	City, State	Zip Code	WI	54601		
Civil Town Name	Onalaska				Applicable)	WIU	nique Well No
Street Address of Well		Reason Fo	r Abandonmo	ent + Bor	ine		
City, Village Ona lask.	<u> </u>	l	andonment	116/98	,		
WELL/DRILLHOLE/BOREHOLE	INFORMATION	!	<u></u>		··· ·		
(3) Original Well/Drillhole/Borehole	Construction Completed On	(4) Depth to	Water (Fee	i) Not	encount	orce	
(Date) 4/16/2 ☐ Monitoring Well ☐ Water Well ☐ Drillhole	Construction Report Available? Yes No	Liner(s) Screen	t Piping Rem) Removed? Removed? Left in Place xplain]	Yes Yes Yes Yes Yes Yes	_	Not Applicat Not Applicat Not Applicat
Construction Type: Drilled Driven Other (Specify) Formation Type: Unconsolidated Formation	(Sandpoint) Dug	Did Sea Did Ma If Yes (5) Require	sing Cut Off ling Material terial Settle A , Was Hole F ad Method of fuctor Pipe-C ap Bailer	Rise to Sur After 24 Hor Retopped? Placing Sea	rface?	Yes Yes Yes Pipe-P	No No
Total Well Depth (ft.) 19.5 (From groundsurface) Lower Drillhole Diameter (in.) Was Well Annular Space Grouted If Yes, To What Depth?	(6) Scaling Near Sanc Cone Clay Bent		oncrete) Gro	For monitout Be	onitoring oring we intonite I anular B		
(7) Material Used To Fil	il Well/Drillhole	From (Ft.)	To (Ft.)	No. Yar Sacks Sea or Volum	ds, (Circle lant One)	or	Mix Ratio Mud Weight
E	Bentonite	Surface	19.5	•	6+3		· .
		· · · · · · · · · · · · · · · · · · ·					
(8) Comments:							
(9) Name of Person or Firm Doing Seal Kyle Shubert Signature of Person Doing Work Type Manual Street or Route	Date Signed 4/20/98 Telephone Number	Revi	Keceived∄ns ower∄nspecio	pected.	COUNTY U	tricz/Cox Comp	
12B5 Ry day St. City, State, Zip Code	(608) 781-5470	rollo	way Necess	ery			

ATTACHMENT B

WDNR Monitoring Well Construction Forms WDNR Monitoring Well Development Forms

Description of Matricel Description	Solid Waste Haz. Wa			MONITORING WELL CONSTI Form 4400-113A	RUC Rev.	TION 4-90
Facility/Project Name	Local Grid Location	of Well		Vell Name		
Turto South Paperty 96.76.		□ N. □ S. ————	ft.	MW-1		
Facility License, Permit or Monitoring Number	Grid Origin Location		Z	Wis Unique Well Number DNR We	ll Nu	ımber
* AV 1 ***	Lat		Pi			
Type of Well Water Table Observation Well	10 4 4 4444		ft. E. ¹	Date Well Installed 04/13/	ЭR	
Piezometer		Waste/Source		$\frac{Q_{\text{min}}^2}{m \text{m}} \frac{1}{d} \frac{3}{d} \frac{1}{y}$	ÿ	
Distance Well Is From Waste/Source Boundary	5W1/4 of <u>SE</u> 1/4 of	Sec 29 T /7N	ㅁ구묘탕	Well Installed By: (Person's Name an	d Fir	m)
ft	Location of Well Rel			Brighn - Ken, Su	>++	•
Is Well A Point of Enforcement Std. Application	u Upgradient	s 🔲 Sidegrac	dient (*		~
Yes 🗖 N				FMI -KMS		
	1 (1 = = = 1.11.5.1.0.101.11		. Cap and lock?	■ Yes	=	Nh
A. Protective pipe, top elevation _ #1.7.2			. Protective cover		ш	140
B. Well casing, top elevation -717.0	子ft. MSL ———		a. Inside diamete	- •	4	Q in.
	f MSI		b. Length:			© ft.
C. Land surface elevation $= 314.3$	IL IVIDE		c. Material:	Steel		04
D. Surface seal, bottom ft. MSL or	ft.		o. macra.	Other	-	***
12. USCS classification of soil near screen:			d. Additional pr	rotection?		No
GP II GM II GC II GW II SW II	SP 🗆 🗎 🔪 🕻	11 13/	_	be:	_	
GP GM GC GW SW C	CH 🗖		•	Bentonite		30
Bedrock 🗆	1	₩ ₩ \ `3.	. Surface seal:	Concrete	_	01
13. Sieve analysis attached?	⊐ No					****
14. Drilling method used: Rotary	750		Material between	n well casing and protective pipe:	ш	***
, -	I E	₩ ₩ **	. Iviateriai detwee		_	•
Hollow Stem Auger Other		₩ ₩		Bentonite		30
Otter 1	- ***	₩ ₩		Annular space seal		
15 Delling Suid and J. Wotor El O.2 Air I		₩ ₩		and Other		***
15. Drilling fluid used: Water □ 02 Air Drilling Mud □ 03 None	ı		Annular space s			33
Drilling Mud 🗖 03 None	1 AA B	🛭 🖾 ь	Lbs/gal	mud weight Bentonite-sand slurry		35
16. Drilling additives used?	1	∭	Lbs/gal	mud weight Bentonite slurry		3 1
16. Drilling additives used?	□No	∅ № d	% Bento	onite Bentonite-cement grout		50
	1 8			volume added for any of the above		
Describe		COL DOOR	How installed			01
17. Source of water (attach analysis):	l 🖁	₩ "		Tremie pumped	. 🗖	02
•	1 8	₩ ₩		Gravity		08
		** 6	Bentonite seal:	a. Bentonite granules		33
E. Bentonite seal, top ft. MSL or _	00 ft.	Λ1 BΩΩ1 -		□3/8 in. □ 1/2 in. Bentonite pellets		
B. Bentointe seat, wp	[*****
F. Fine sand, top ft. MSL or	can ft.		C.————————————————————————————————————	ial: Manufacturer, product name & m		
IC MOD OI	590 ft.	₩	Thie said mater	iai: Manufacturer, product name & n	lesii s	
G. Filter pack, top ft. MSL or _	61 O ft.		a. Valence of de	d 0.68 ft ³	-	
G. Files pack, up		7 1794 /	b. Volume adde	rial: Manufacturer, product name and	1	h -:
H. Screen joint, top ft. MSL or _	630 ft.		rnier pack maie	riai: Wanuracturer, product name and	mesi	ı sıze
			b. Volume adde	sd5,78ft ³	-	
I. Well bottom ft. MSL or _	780 ft.		Well casing:	Flush threaded PVC schedule 40		23
	72.2		.	Flush threaded PVC schedule 80		24
J. Filter pack, bottom ft. MSL or _	780 ft.	冒入	•	Other	_	
		10	Screen material:		-	
K. Borehole, bottom ft. MSL or _	780 ft.	<i>''''</i>		Factory cut	_	11
K. Dolehole, contolli = == = .= in men of =			a. Screen type:	Continuous slot		11
I Danibala Hamatan 0 0 1						01
L. Borehole, diameter -8.3 in.	_			Other	ш	
M OD well seeks 12//		1	b. Manufacturer		<u> </u>	o :-
M. O.D. well casing _2.16 in.			c. Slot size:			oin.
AT TTS -		/	i. Slotted length		_	.⊙ ft.
N. I.D. well casing $2 \circ 2$ in.		11.	Backfull material	(below filter pack): None		14
				Other	므	
hereby certify that the information on t	his form is true and	correct to the b	est of my kn	owledge.		
\$1000000##	irm /			<u> </u>		

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

k = 11 - F

				ste 🔲 Wastewater 🛭 rground Tanks 🗗 O		
Facility/Project Name		Co	unty Name		Well Name	
Tarco South Property				Crosse	MW-	•
Facility License, Permit or Monitoring Number		Co	unty Code	Wis. Unique Wali I	Number DNR We	all Number
1. Can this well be purged dry?	□.	Yes	■ No	11. Depth to Water	Before Development	
Well development method surged with bailer and bailed surged with bailer and pumped		41 61		(from top of well casing)	a. <u>73.65</u> ft.	<u>74</u> . <u>65</u> ft.
surged with block and bailed surged with block and pumped surged with block, bailed and pumped		42 62 70		Date	• •	04/14/98 mm d d y y
compressed air bailed only pumped only		20 10 51		Time 12. Sediment in wel		1 2 : 4 5 ■ p.m. _ ② . 1 inches
pumped slowly Other		50		bottom 13. Water clarity	Clear 10	Clear 20
3. Time spent developing well		<u>45</u>	min.		Turbid 15 (Describe)	Turbid 25 (Describe)
4. Depth of well (from top of well casisng)	8	1.	ft.	·		
5. Inside diameter of well	<u> </u>	.00	<u>≥</u> in.			
6. Volume of water in filter pack and well casing7. Volume of water removed from well		<u>. </u>	<u>®</u> gal. ⊇ gal.	Fill in if drilling flu	ids were used and well is a	1
8. Volume of water added (if any)	——	Ø. ş	Øgal.	solids	· · · · · · · · · · · · · · · · ·	
9. Source of water added			<u>_</u>	15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)		Yes	□ No			•
16. Additional comments on development:		<u>:</u>				
Well developed by: Person's Name and Firm				I hereby certify that of my knowledge.		irue and correct to the best
Name: Allan Wolfe				Signature:	Type Mho	
Name: Allan Wolfe Firm: Fluid Manageren	A			Print Initials: <u>k</u>	MS Third Man	
•				Firm: 7	that Man	agemen .

Densistment of Natural Decourage	e□ Haz. Waste□ Wa ir□ Underground Tar		MONITORING WELL CONST Form 4400-113A	TRUCTION Rev. 4-90
Facility/Project Name Local C	Grid Location of Well	We	ll Name	
Turco South Property 96.763	ft. HS	ft. 🖟 🕏 W.	MW-2	
•	igin Location		s Unique Wall Number DNR W	ell Number
	_	· or	te Well Installed	
De l'im	te ft. N,	IL. D.]	$\frac{O4}{m} \frac{16}{d} = \frac{16}{d}$	<u>28</u>
	Location of Waste/Sour		m m a a ell Installed By: (Person's Name a	nd Firm)
, [201/4]	of <u>SE</u> 1/4 of Sec. <u>47</u> ,	1. <u>/ T</u> N, K. <u> T</u> W.	Brighn - Ken, Sc	
Locatio	n of Well Relative to Wa Upgradient s	Siderradiant		
	Downgradient n □	-	FMI -KMS	
A. Protective pipe, top elevation _ 715.08 ft. MSL-		1. Cap and lock?		es 🛮 No
B. Well casing, top elevation $-\frac{314.94}{1.94}$ ft. MSL-	II - 1L -	2. Protective cover p	· -	
	リロリン	a. Inside diameter:		_4.Qin.
C. Land surface elevation $-\frac{7}{2} \stackrel{?}{=} \stackrel{?}{=} \stackrel{?}{=} ft$. MSL		b. Length:	C.	_5.0 ft.
D. Surface seal, bottom ft. MSL or ft.		c. Material:		el 🖪 04
12. USCS classification of soil near screen:		d. Additional prot		es 😭 No
GP GM GC GW SW SP SP SM SC ML MH CL CH C	XI III / I		:	
SM SC ML MH CL CH CH Bedrock		3. Surface seal:	Bentonia	te 3 0
		5. Surface sear:	Concret	te 🗖 01
13. Sieve analysis attached?		\		r 🛮 🊃
14. Drilling method used: Rotary 50		4. Material between	well casing and protective pipe:	
Hollow Stem Auger 41 Other			Bentoni	
		Sa	Annular space sea	
15. Drilling fluid used: Water □ 02 Air □ 01		5. Annular space sea		te 🖪 33
Drilling Mud □ 03 None □ 99			nud weight Bentonite-sand slurr	
16 Deillion additives used?			and weight Bentonite slurry	•
16. Drilling additives used?		d % Benton	ite Bentonite-cement grou	ut 🗖 50
Describe			volume added for any of the above	
17. Source of water (attach analysis):		f. How installed:	Tremi	. =
			Tremie pumped Gravity	
		6. Bentonite seal:	· ·	
E. Bentonite seal, top ft. MSL orQ Q f	ւ 🐰 🕷	,	3/8 in. \(\sim 1/2\) in. Bentonite pellet	
		/ c	Other	
F. Fine sand, top ft. MSL or _ 58.0	ft.	7. Fine sand material	l: Manufacturer, product name &	mesh size
		/ a		***
G. Filter pack, top ft. MSL or _ 600		b. Volume added		
H. Screen joint, top ft. MSL or _ 620		8. Filter pack materia	al: Manufacturer, product name an	d mesh size
II. Scientifolit, top in Mod of _ 55;5		a. b. Volume added	5,78 ft3	_ 22
I. Well bottom ft. MSL or _ 770	ft.	9. Well casing:	Flush threaded PVC schedule 40	23
			Flush threaded PVC schedule 80	
J. Filter pack, bottom ft. MSL or _7.2.0			Other	
		10. Screen material:		_ 🗶
K. Borehole, bottom ft. MSL or _77.0	r	 a. Screen type: 	Factory cu	_
I Dougholo diameter Q 2			Continuous slo	
L. Borehole, diameter _8.3 in.		b. Manufacturer	Johnson Othe	r 🛘 🎡
M. O.D. well casing _ 2 1 6 in.	`	c. Slot size:		0. <u>01</u> in.
·,		d. Slotted length:		<u>15</u> .0 ft.
N. I.D. well casing $2 \circ 2$ in.		11. Backfill material (t	• •	e 🖪 14
			Other	
I hereby certify that the information on this form in Signature Fi				
Kuch Shuh	* A his	Managemen	/	

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 4-90

Env. Respo	onse & R	epair 🔲 Unde	rground Tanks Oth	er 🔲	
Facility/Project Name Tarco South Property		County Name	Crosse	Well Name MW -	7
Facility License, Permit or Monitoring Number				imber DNR Wa	
Facility License, Ferritt of Worthorning Number	·	32	orga, prinque organia		
1. Can this well be purged dry?	☐ Ye	s I No	11 D. d. W.	Before Development	After Development
2. Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly	4 6 7 2 1	1 2 2 0 0 0 1		a. $\frac{72.03}{\text{ ft.}}$ b. $\frac{04}{\text{ d}}$ $\frac{20}{\text{ d}}$ $\frac{98}{\text{ y y}}$ c. $\frac{10}{\text{ c}}$: $\frac{45}{\text{ m}}$ $\frac{1}{\text{ inches}}$	<u>04/20/98</u> mm d d y y //:30□ p.m.
Other		#	13. Water clarity	Clear 10 Turbid 15	Clear 20 Turbid 25
3. Time spent developing well	4	<u>5</u> min.		(Describe)	(Describe)
4. Depth of well (from top of well casisng)	_38	.8_ft.			
5. Inside diameter of well	_2.	<u> </u>			
	_27	<u>5</u> gal. ² . <u>0</u> gal. • <u>Ø</u> gal.	Fill in if drilling fluid 14. Total suspended solids 15. COD	s were used and well is a mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	☐ Ye	s 🗖 No			
16. Additional comments on development:					
Well developed by: Person's Name and Firm			of my knowledge.		rue and correct to the best
Name: Allan Wolfe				ligh Mhho	
Name: Allan Wolfe Firm: Fluid Managerer	1		Print Initials:	MS Wan	
		· 	Firm:	land Man	rgemen

Route to: Solid Waste | Haz. Waste | Wastewater |

★ 1							
State of Wisconsin Department of Natural Resources		lid Waste 🛭 Haz. Was & Repair 🗖 Under			MONITORING WELL CONST Form 4400-113A	RUC Rev	TION . 4-90
Facility/Project Name	Bitv. Response	Local Grid Location	f Wall		Well Name		
				. п е. і			
Tarco South Property		II.] N. S	ft. 🛮 E.	MW-3		
Facility License, Permit or Monitori	ng Number	Grid Origin Location			Wis Unique Well Number DNR W	ell Nu	imber
		Lat	Long	or			
Type of Well Water Table Observat	tion Well = 11	1		6	Date Well Installed		
Piezometer	—· . <u>-</u> ·	St. Plane		п. Е.	$\frac{QA}{m} \frac{1}{m} \frac{1}{d} \frac{1}{d} \frac{1}{d}$	<u> 28</u>	}
		Section Location of V			mm dd	<u>y</u> y	
Distance Well Is From Waste/Source	Boundary	<u>56</u> 1/4 of <u>SE</u> 1/4 of	Sec. 29.T. 17	-N R チ呈嵌し	Well Installed By: (Person's Name a		•
	ft.	Location of Well Rela			Brighn - Ken, Sc	044	•
Is Well A Point of Enforcement Std.	Application?	u Upgradient	s 🔲 Sides	urce	•		-
■ Yes	□ No	1	-		FMI -KMS		
		d Downgradient	n ∐ Not i				
A. Protective pipe, top elevation	_ <i>315.3</i> 8 f	ft. MSL		_1. Cap and lock?	■ Ye	s 🗆	No
	715.20 i			2. Protective cove			
b. Well cashig, top elevation				a. Inside diamet	ter:	_4.	.Q in.
C. Land surface elevation	713.0 f	ft. MSL		b. Length:		. <u> </u>	⊈ft.
	•		Townson	c. Material:	Stee	1	04
D. Surface seal, bottom	ft. MSL or	ft. 🗸 🥸 🐧 🗀					eeee.
12. USCS classification of soil near	. corooni			1 A 11111 1			
		Least	N. Y.		rotection?	S Z	No
GP GM GC GW SM SC ML MH		SP 🔲 🖊 🗓		If yes, descri	be:		
I SM□_SC□ ML□ MH		CH 🗆 📉			Bentonit	. =	30
Bedrock 🗆		1 18	3 KM \	3. Surface seal:			01
13. Sieve analysis attached?	Yes 🗆 N	ъ I	8 1888 \		Concret		
		1 12	# ## \	\	Other	: 🛚	****
14. Drilling method used:	Rotary 🗆 5	50 1	XI ₩X	4. Material between	en well casing and protective pipe:		
Hollow S	tem Auger 🔲 🗸	4.1 18	8 8 8		Bentonit	eП	30
	Other 🔲 🖁		₩		Annular space sea		200000
	–		8 8 8		_		
15. Drilling fluid used: Water 🖸 0)2 Air 🗖 (a.			other Other		3 3
15. Drilling Huid used: Water 12 C	Z AIT LI		3 ₩ ~	5. Annular space s	seal: a. Granular Bentonit	e 🗷	33
Drilling Mud 🗖 0	3 None 🗆 🤄	99	\$I 883	h Lbs/gal	l mud weight Bentonite-sand slurr	v 🗆	35
		- 1 🐰	8 (8)		l mud weight Bentonite slurry		3 1
16. Drilling additives used?	Yes 🛛 N	√o ₩	8 🐼				
		1 🐰	X 1883		onite Bentonite-cement grou		50
Describe		1 🔉	3 🔯	e. 20.00 F	t ³ volume added for any of the above		
17. Source of water (attach analysis):		I 🔉	8 🔯	f. How installe	d: Tremie	,	01
17. Source of water (attach analysis).		J 🕻	3 8 8		Tremie pumped		02
			X 1883		Gravity		08
			3 8 88	(D)			
		<i>*</i>	8 🔯	6. Bentonite seal:	a. Bentonite granules		33
E. Bentonite seal, top	ft. MSL or	<i>♀.♀</i> ft√ 🐰		b. $\square 1/4$ in.	□3/8 in. □1/2 in. Bentonite pellets	; 	32
		. \		C	Other		
F. Fine sand, top	ft. MSL or _ 5	90 ft.		7. Fine sand mater	rial: Manufacturer, product name & 1	nesh :	
				a			
G. Filter pack, top	ft. MSL or _ &	1.0 ft.		b. Volume adde	ed 0.34 ft ³		•••••
		→ [erial: Manufacturer, product name and	i mesi	h size
H. Screen joint, top	ft. MSL or 🚄	3.0 ft		, .	•	-	
			- /	b. Volume adri	ed 5,78 ft ³	_	55,55
I. Well bottom	f MCI or 7	a a fi				_	0.2
r. Well politour	ft. MSL or _ Z	3.0 1.		9. Well casing:	Flush threaded PVC schedule 40	_	23
					Flush threaded PVC schedule 80		24
J. Filter pack, bottom	ft. MSL or _ ヲ	80 ft. \	国人		Other		
-				10. Screen material			
K. Borehole, bottom	ft MSL or 7	80 ft.				-	11
K. Dolenole, contoni	m. MDD 01	z .=\		a. Screen type:	•		11
	•				Continuous slot		01
L. Borehole, diameter -8.3	in.	12			Other		
			\	b. Manufacture	Johnson		
M. O.D. well casing _2 16	in.		\	c. Slot size:). 01	o in.
	****		\	d. Slotted lengt			.oft.
M TD and a 1	<i>:</i>		\	_			
N. LD. well casing _2.00	in.		1	1. Backfill materia	l (below filter pack): None		14
					Other		
hereby certify that the inform	ation on this	form is true and	correct to the	best of my kr	nowledge.		
Signature		Liero					
· Ved Shuka		1	his 1	Sangens	n T		

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State of Wisconsin Department of Natural Resources MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 4-90

Env. Respo	nse & R	epair 🔲 Unde	rground Tanks 🔳 Oth	er 🔲	
Pacility/Project Name		County Name	_	Well Name	
Tarco South Property			Crosse	MW	-
Facility License, Permit or Monitoring Number	•	. <u> </u>	Wie Brique Well N	imber DNR We	ill Number
	=	<u> 32</u>			
1. Can this well be purged dry?	☐ Ye	s I No	11. Depth to Water	Before Development	After Development
Well development method surged with bailer and bailed	11 4	1	(from top of well casing)	a. <u>72.47</u> ft.	7_ 9. <u>&</u> _ 8 _ft.
surged with bailer and pumped surged with block and bailed	□ 6 □ 4		Date	b. <u>04120198</u>	04120198 mm d d y y
surged with block and pumped surged with block, bailed and pumped	□ 6 □ 7		1	• •	1
compressed air	□ 2	0	Time	c. 11: 45 p.m.	<u> </u>
bailed only pumped only	□ 1 □ 5		12. Sediment in well		inches
pumped slowly Other	5	0	bottom 13. Water clarity	Clear 49 10	Clear □ 20
	···· - عا			Turbid 15 (Describe)	Turbid 25 (Describe)
	- -				
5. Inside diameter of well	_2.4	2 <u>0</u> in.	:		
6. Volume of water in filter pack and well casing	/	<u>6</u> gal.	Bill in if delling fluid	s were used and well is a	t solid wrote facility.
7. Volume of water removed from well	27	. <u>O</u> gal.	14. Total suspended	•	1
8. Volume of water added (if any)	Ø	. Lgal.	solids	mg/1	
9. Source of water added			15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	☐ Yes	□ No			•
16. Additional comments on development:	·				
•					
					,
Well developed by: Person's Name and Firm			I hereby certify that to of my knowledge.	he above information is t	rue and correct to the best
Name: Allan Wolfe			Signature:	lyh Mhho	
Name: Allan Wolfe Firm: Fluid Manageren	+		Print Initials:	MS luid Many	
			Firm:	luid Man	rgement

Route to: Solid Waste | Haz. Waste | Wastewater |

😮 - 😘 - y			
State of Wisconsin Route to: Soli	d Waste 🛘 Haz. Waste I	☐ Wastewater ☐	MONITORING WELL CONSTRUCTION
Department of Natural Resources Env. Response		und Tanks Other 🗆	Form 4400-113A Rev. 4-90
	Local Grid Location of	Well TE	Well Name
Tarto South Property 96.763	fr. 🔡	ft. B.	MW-4
Facility License, Permit or Monitoring Number	Grid Origin Location		Wis. Unique Well Number DNR Well Number
	at	Long or	
Type of Well Water Table Observation Well 211	St. Plane	ft. N, ft. E.	Date Well Installed
	Section Location of Was		\(\frac{\alpha 41}{\pi \frac{7}{a}} \frac{98}{\pi \frac{8}{v}} \)
		c. <u>29</u> , T. <u>/7</u> N, R. <u>7</u> . W.	Well Installed By: (Person's Name and Firm)
ft,	Location of Well Relativ	C. <u>-</u> J. 1. <u>/ /</u> N, R. <u>/</u> W.	Brighn - Ken, Scott
Is Well A Point of Enforcement Std. Application?	u D Upgradient	s Sidegradient	
■ Yes □ No	d Downgradient	_	FMI -KMS
A. Protective pipe, top elevation _ 744.24 ft		1. Cap and lock?	■ Yes □ No
• • •		2. Protective cov	- -
B. Well casing, top elevation -744.77 ft	. MSL ———	a. Inside diame	
C. Land surface elevation _ 742.5 ft	MSI	b. Length:	_5.0 ft.
C. Land surface elevation $-\frac{742.5}{}$ ft	· Mol	c. Material:	Steel 🖪 04
D. Surface seal, bottom ft. MSL or	ft.		Other 🗆 🐘
12. USCS classification of soil near screen:		d. Additional	
la contraction of the contractio		If yes, descri	
GP GM GC GW SW GS SM SC GML GMH CL GC	H 🗖 📗		
Bedrock □		3. Surface seal:	
13. Sieve analysis attached? ☐ Yes ☐ N	. 💹		
	1 1883	W V V V V V V V V V V V V V V V V V V V	Other 🗆 🎆
, ,	DXX	4. Material between	een well casing and protective pipe:
Hollow Stem Auger 4			Bentonite 30
Other 🗆 🎆	*		Annular space seal 🔲
AS DOWN GOLD AND ALL DO	. 🐰		Annular space seal D
15. Drilling fluid used: Water 02 Air 00	1 1003	5. Annular space	seal: a. Granular Bentonite 2 33
Drilling Mud 🗆 03 None 🗖 9	9 🔉	bLbs/gs	al mud weight Bentonite-sand slurry 35
16 Detting addition made		cLbs/ga	al mud weight Bentonite slurry 📮 3 1
16. Drilling additives used?) (tonite Bentonite-cement grout \(\square 50 \)
.			Ft ³ volume added for any of the above
Describe	— I	f. How install	
17. Source of water (attach analysis):			Tremie pumped
			Gravity 🗷 08
		6. Bentonite seals	• - • •
E. Bentonite seal, top ft. MSL or	20 ft. 👹	(33)	□3/8 in. □1/2 in. Bentonite pellets □ 32
Ex Demonite seat, up		0. 21/4 11.	
F. Fine sand, top ft. MSL or _ &	9.0 ft.	6. 11/4 in. c	Other Derial: Manufacturer, product name & mesh size
in Moz or	··· ·· \	/ The sand make	
G. Filter pack, top ft. MSL or _ 9	Off.	TEXT /	led 0.68 ft ³
G. Filter pack, top ft. MSL or _ 9.	- · · · · · · · · · · · · · · · · · · ·	b. Volume add	
H. Screen joint, top ft., MSL or _2	30 t	8. Filter pack ma	terial: Manufacturer, product name and mesh size
H. Screen joint, top ft. MSL or _2	2.5 m		
		b. Volume ada	
I. Well bottom ft. MSL or 168		9. Well casing:	Flush threaded PVC schedule 40 🗮 23
			Flush threaded PVC schedule 80 24
J. Filter pack, bottom ft. MSL or <u>/ Of</u>	io tr	郵	Other 🛛 🧱
		10. Screen materia	d:
K. Borehole, bottom $-$ ft. MSL or $\angle Q $	20 ft.	a. Screen type	
			Continuous slot 0 1
L. Borehole, diameter _8.3 in.			Other 🗖 🌉
		b. Manufacture	
M. O.D. well casing _2 (6 in.		c. Slot size:	0. <u>010</u> in.
		d. Slotted leng	gth: <u>L.5</u> . <u>0</u> ft.
N. LD. well casing _2.00 in.		\	al (below filter pack): None 1 4
			Other 🗆
hereby certify that the information on this	form is true and co	prect to the best of my k	
Signature	Firm C	A A A	A.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

V 15 18 0

MONITORING WELL DEVELOPMENT

				Form 4400-113B	Rev. 4-9
Route to:	Solid Waste	Haz. Waste 🗖	Wastewater		

Env. Resp	onse &	Repa	ir 🗖 Und	kerground Tanks 🗷 Ott	ner 🔲	
Facility/Project Name		Co	unty Name		Well Name	4
Tarco South Property				Crosse	MW-	,
Facility License, Permit or Monitoring Number	r	Co	-	With disingle Wells V	umber DNR W	il Number
			<u> 32</u>			
1. Can this well be purged dry?	□ Y	Čes	■ No	11. Depth to Water	Before Development	
Well development method surged with bailer and bailed		41		(from top of well casing)	a. 102.28 ft.	<u> 102.30</u> ft.
surged with bailer and pumped	_	61				
surged with block and bailed		42		Date	. 14,20,94	14170190
surged with block and pumped	_	62			b. 9 7 1 2 9 1 2 9 m m d d v v	04/20/98 mm d d y y
surged with block, bailed and pumped		70			• •]
compressed air	_	20		Time	c / : 00 pm.	_2:20 a. m. p. m.
bailed only	_	10				
pumped only		51		12. Sediment in well		inches
pumped slowly	_	50		bottom		
Other				13. Water clarity	Clear 🖪 10 Turbid 🗖 15	Clear 20 Turbid 225
3. Time spent developing well		<u>8 C</u>	min.		(Describe)	(Describe)
4. Depth of well (from top of well casisng)	108	3.8	<u>}</u> ft.	,		
5. Inside diameter of well	_2.	00	<u>2</u> in.			
6. Volume of water in filter pack and well casing7. Volume of water removed from well			_	Fill in if drilling fluid	ds were used and well is a	at solid waste facility:
8. Volume of water added (if any)		•		14. Total suspended solids	mg/l	mg/l
9. Source of water added				15. COD	mg/l	mg/l
• • • • •						
10. Analysis performed on water added? (If yes, attach results)	□ Y	'es	□ No	•		•
16. Additional comments on development:				· · · · · · · · · · · · · · · · · · ·		
20. Manustra Commission on Ocyclophical	·					
Well developed by: Person's Name and Firm				I hereby certify that of my knowledge.	the above information is t	rue and correct to the best
Name: Allan Wolfe				Signature	Tyl Mhr	
Name: Allan Wolfe Firm: Fluid Managerer	A			Print Initials:	MS Wan	
runt fuit fundagen	-		-	Firm: F	- luid Man	egemen