GILES ENGINEERING ASSOCIATES, INC. N8 W22350 Johnson Road, Suite A1 Waukesha, Wisconsin 53186 Phone: (262) 544-0118 Fax: (262) 549-5868			LETTER OF TRANSMITTAL		
TO: Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King Drive Milwaukee, WI 53212			es	PROJECT NUMBER:1 ATTENTION: Victoria RE:02-52-549890	
WE ARE SENDI	NG YOU the following	items:	x Attached	Under s	eparate cover via
Prints	Plans	Specificati	ions	Samples	_ Copy Change Order
COPIES	DATE	NUMBER	[	DESCR	
1		4	Well construction f	DEC	
THESE ARE TR	ANSMITTED as check	ed below:			
For appro	oval	For your use	A	s requested	For review and comment
Approved	d as submitted	Approved as noted	Returned f	or corrections	Return
REMARKS: Attached, please find the well construction forms for four groundwater monitoring wells installed on the Martinizing property at 1730 State Street in Racine. This is for BRRTS No. 02-52-549890.					
COPY TO:			SIGNED	)	
If enclosures are not as noted, please notify us at once.					

	Vatershed/Wastewater  Remediation/Redevelopment[X]	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
	1 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1		Well Name
1730 State Street, Racine, Wiscon		$S. \ W.$	
Facility License, Permit or Monitoring No.	Local Grid Origin X (estima Lat II	ted:  ) or Well Location  Long.  or  o	Wis. Unique Well No. DNR Well ID No.
Facility ID		ft. E. S/C/N	Date Well Installe 
Type of Well	NE 14 of SE 14 of Sec	8_,T. 3_ N, R. 23_	Well Installed By: Name (first, last) and Firm
Well Code <u>11 / mw</u>	Location of Well Relative to W	aste/Source Gov. Lot Number	Kieth Flowers
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s 🗆	Sidegradient	Giles Engineering Associates, Inc.
Sourceft. Apply	d 🗆 Downgradient 🛛 🗆		
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	IX Yes 🗋 No
B. Well casing, top elevation	ft. MSL	a. Inside diamete	
		b. Length:	0.7 - 10.7
	fLMSL	c. Material:	Steel [X] 04
D. Surface seal, bottom ft. MS	Lor ft.		Other 🛛 🎆
12. USCS classification of soil near screen		d. Additional pr	
GP GM GC GW GS		If yes, descril	
	Т СН П И		Bentonite 🛛 30
Bedrock		3, Surface scal:	Concrete IX 01
13. Sieve analysis performed?	Yes IX No		Other
14. Drilling method used: Rot	tary □ 50	4. Material betwee	n well casing and protective pipe:
Hollow Stem Au		8	Bentonite IX 30
Hand Probe O	ther IX	×	Other 🛛 🎆
	_   👹	5. Annular space s	eal: a. Granular/Chipped Bentonite 🗆 3 3
15. Drilling fluid used: Water 0 2	Air 0 01	bLbs/gal	mud weight Bentonite-sand slurry 35
Drilling Mud 🗆 0 3 🛛 N	Vone X 99	cLbs/gal	mud weight Bentonite slurry 🛛 31
16. Drilling additives used?	Yes IX No		nite Bentonite-cement grout 50
		eFt	<sup>3</sup> volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis, if requ	imd).	88	Tremie pumped $\Box$ 02
17. Bouros er water (ausar analysis, ir requ			Gravity X 08
L		6. Bentonite seal:	a. Bentonite granules [] 33
		1000	$(3/8 \text{ in.} \Box 1/2 \text{ in.} Bentonite chips \Box 32$
E. Bentonite seal, topft. MS		C	Other 🗆 🎬
F. Fine sand, top		7. Fine sand materi	ial: Manufacturer, product name & mesh size
		Red Flint # 15	
G. Filter pack, top ft. MS	Lor 5 ft		d_0.25ft <sup>3</sup>
			rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	Lor 6 ft.	a Red Flint # 40	
		b. Volume adde	
I. Well bottom fr. MS	Lor_16ft.	9. Well casing:	Flush threaded PVC schedule 40 [X 23
			Flush threaded PVC schedule 80 [ 24
J. Filter pack, bottomft. MS	Lor_16ft.		Other 🗆 🕌
		10. Screen material:	
K. Borehole, bottom ft. MS	Lor_16ft.	a. Screen type:	Factory cut [X] 11
			Continuous slot 🗖 01
L. Borehole, diameter $2 - in$ .		<u> </u>	Other 🛛 🐘
		b. Manufacturer	Timco
M. O.D. well casing $-0.75_{\text{in.}}$		c. Slot size:	0 <u>.01</u> in.
		d. Slotted length	
N. I.D. well casing _ 0.55_ in.		11. Backfill material	I (below filter pack): None X 14
			Other 🛛 💥
I hereby certify that the information of this		est of my knowledge.	
Signature (	Firm Cilca Eng	incoving Acconictor Two	
	Gites Eng	ineering Associates, Inc.	

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r	Vatershed/Wastewater  Remediation/Redevelopment[X]	Waste Management  Other	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name 1730 State Street, Racine, Wiscon	Local Grid Location of Well	IN. ПЕ.	Well Name MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin X (estima Lat.	ted:	Wis. Unique Well No. DNR Well ID No. VW301
Facility ID	St. Plane ft. N	, ft. E. S/C/N	Date Well Installe 1/ / 2/ / 010
Type of Well	Section Location of Waste/Sou NE_1/4 of SE_ 1/4 of Sec_		Well Installed By: Name (first, last) and Firm
Well Code <u>11 / mw</u>	Location of Well Relative to W		Kieth Flowers
Distance from Waste/ Enf. Stds. Sourceft. Apply	u 🗆 Upgradient s 🗆	Sidegradient Not Known	Giles Engineering Associates, Inc.
	ft_MSL	1. Cap and lock?	IX Yes 🖸 No
B. Well casing, top elevation	ft. MSL	2. Protective cover	
,,,,		a. Inside diamete	
C. Land surface clevation	ft. MSL	b. Length:	1ft.
D. Surface seal, bottom ft. MS	Lor ft.	C. Matchal:	Steel X 04
12. USCS classification of soil near screen		d. Additional pro	
		If yes, describ	
	тксно М		Bentonite 🛛 30
Bedrock	100	3. Surface scal:	Concrete IX 01
	Yes IX No	×	Other
	tary 🗆 50	4. Material between	well casing and protective pipe:
Hollow Stem Au			Bentonite IX 30
0	ther 🗆 🎎	×	Other 🛛 🧱
15. Drilling fluid used: Water 0 2	Air 🗆 01	5. Annular space se	
	Vone XI 99		nud weight Bentonite-sand slurry 35
		cLbs/gal r	nud weight Bentonite slurry 2 31
16. Drilling additives used?	Yes IX No		the Bentonite-cement grout $\Box$ 50
		KCC	volume added for any of the above Tremie [] 01
Describe		f. How installed	·
17. Source of water (attach analysis, if requ	ired):		Gravity IX 08
		6. Bentonite seal:	a. Bentonite granules [] 33
La		Ъ. 🗆 1/4 in. IX	$3/8$ in. $\Box 1/2$ in. Bentonite chips $\Box 32$
E. Bentonite seal, topft. MS	L or _1ft.	c3	Other 🛙 🎆
F. Fine sand, top ft. MS	Lor_4ft.		al: Manufacturer, product name & mesh size
		a. Red Flint #15	
G. Filter pack, top ft. MS	$L \text{ or } 5 \dots ft$		1_1ft <sup>3</sup>
H. Screen joint, top ft. MS	L or _ 6 ft.	8. Filter pack mater a. Red Flint #40	ial: Manufacturer, product name & mesh size
I Wall hattern fr MS	Lor_16ft.	b. Volume adde	
I. Well bottomft. MS		9. Well casing:	Flush threaded PVC schedule 40 [X 23]
J. Filter pack, bottom ft. MS	Lor_16ft.		Flush threaded PVC schedule 80  24 Other
K. Borchole, bottom ft. MS	$L \text{ or } 16 \dots \text{ fl}$	10. Screen material: a. Screen type:	
		a. Genecal type:	Factory cut $[X]$ 1 1 Continuous slot $\Box$ 0 1
L. Borehole, diameter $-8$ in.			Other 🗆 🔛
		b. Manufacturer	Timco
M. O.D. well casing _ 2.38_ in.		c. Slot size:	<u>0.01</u> in.
		d. Slotted length	
N. I.D. well casing $2 - in$ .		11. Backfill material	
I hereby certify that the information on this	form is the and correct to the h	est of my knowledge	Other
Signature	Firm	tor my knowledge.	
		gineering Associates, Inc.	

	Watershed/Wastewater []] Remediation/Redevelopment[X]	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
	Local Grid Location of Well	N M	Well Name MW-3
Facility License, Permit or Monitoring No.	I ocal Grid Origin IV / cestimat	ied:  ) or Well Location	Wis. Unique Well No. DNR Well ID No.
Facinity License, Fernit of Monitoring No.		ong is	VW302
Facility ID	St. Planc fl. N,	ft. E. S/C/N	Date Well Installe 1/_/_2/_/_010
Type of Well	Section Location of Waste/Sour	ce IX re	mmdd v v v v
Well Code 11 / mw	<u>NE_1/4 of SE_1/4 of Sec_</u>	<u>8_, T3 N. R23</u>	Well Installed By: Name (first, last) and Firm Kieth Flowers
Distance from Waste/   Enf. Stds.	Location of Well Relative to Wa	aste/Source   Gov. Lot Number	Flowers
Sourceft. Apply		Sidegradient Not Known	Giles Engineering Associates, Inc.
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	X Yes 🗌 No
B. Well casing, top elevation	ft. MSL ///	2. Protective cover	
		a. Inside diamete	••••
C. Land surface elevation	fLMSL	b. Length:	1 ft.
D. Surface seal, bottom ft. MS	SLor ft.	c. Material:	Steel X 04
			Other 🗆 🏬
12. USCS classification of soil near screen GP GM GC GW S		d. Additional pro	
		If yes, describ	
Bedrock		3. Surface scal:	Bentonite 🛛 30
	Yes IX No		Concrete X 01
	F - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Other 🗆 📰
-	tary □ 50	4. Material between	well casing and protective pipe:
Hollow Stem Au			Bentonite IX 30
0	ther 🗆 🏬	×	Other 🗆 🎆
15. Drilling fluid used: Water 0 2	Air 🗆 01	5. Annular space se	
	None IX 99		nud weight Bentonite-sand slurry 2 35
		cLbs/gal r	nud weight Bentonite slurry 🛛 31
16. Drilling additives used?	Yes IX No	d % Bentor	nite Bentonite-cement grout 50
		eFt	<sup>3</sup> volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis, if requ	uired):		Tremie pumped $\Box$ 02
		×	Gravity IX 08
		6. Bentonite seal:	a. Bentonite granules 🔲 33
	1 1 0		3/8 in. 1/2 in. Bentonite chips 32
E. Bentonite seal, topft. MS		c <sup>1.3</sup>	Other 🗆 🎆
F. Fine sand, top ft. MS		7. Fine sand materia	al: Manufacturer, product name & mesh size
		a Red Flint # 15	
G. Filter pack, top ft. MS	Lor_5ft.		1_1
			ial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	Lor_6ft.	a Red Flint # 40	
		b. Volume added	d_7ft <sup>3</sup>
I. Well bottom ft. MS	Lor_13ft.	9. Well casing:	Flush threaded PVC schedule 40 [X 23
			Flush threaded PVC schedule 80 🔲 24
J. Filter pack, bottomft. MS	Lor <u>13</u> ft.		Other 🛛 🔛
		10. Screen material:	
K. Borehole, bottom ft. MS	Lor_13ft.	a. Screen type:	Factory cut [X] 11
		3	Continuous slot 🔲 01
L. Borehole, diameter _8 in.		<u> </u>	Other 🛙 🔡
		b. Manufacturer	Timco
M. O.D. well casing $2.38_{\text{in.}}$		c. Slot size:	0.01 in.
		\ d. Slotted length	
N. I.D. well casing in.		11. Backfill material	• •
			Other 🛛 🖉
I hereby certify that the information on this		est of my knowledge.	
Signature //	Firm Ciles Engi	incoring Acceletos T	
-1n	Giles Engi	ineering Associates, Inc.	

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State of Wisconsin Department of Natural Resources <u>Route to:</u>	Watershed/Wastewater [] Remediation/Redevelopment[X]	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Remediation/Redevelopment[X]	Sf	Well Name MW-4
1730 State Street, Racine, Wiscon Facility License, Permit or Monitoring No.	Local Grid Origin IX ( estima	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Facility License, Fernit of Monitoring No.	Lat 1		TUTION
Facility ID	7	ft. E. S/C/N	Day Wall Installed
Type of Well	NE 1/4 of SE 1/4 of Sec	8T. 3N.R. 23W	
Well Code <u>11 / mw</u>	Location of Well Relative to W	aste/Source Goy. Lot Number	Kieth Flowers
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s 🗖	Sidegradient	Giles Engineering Associates, Inc.
Sourceft. Apply	d Downgradient n D		<u> </u>
	ft. MSL	1. Cap and lock?	
B. Well casing, top elevation	ft. MSL	2. Protective cover a. Inside diamete	· · · · · · · · · · · · · · · · · · ·
	ft. MSL	b. Length:	1ft.
	1000	c. Material:	Steel [X] 04
D. Surface seal, bottom ft. M			Other 🛛 🎬
12. USCS classification of soil near scree		d. Additional pr	
		If yes, describ	
SM  SC ML MH Bedrock	сь сн	3. Surface scal:	Bentonite 🗆 30
	Yes IX No		Concrete X 01
	563		
-	otary 🗆 50	4. Material Detwee	n well casing and protective pipe: Bentonite IX 30
Hollow Stem A	Dther		Other D
		5. Annular space se	
15. Drilling fluid used: Water 🗆 0 2	Air 🗆 01	J. Annutar space se	mud weight Bentonite-sand slurry 35
	None IX 99	bCos/gai	mud weight Bentonite slurry 2 31
			nite Bentonite-cement grout $\Box$ 50
16. Drilling additives used?	Yes X No		<sup>3</sup> volume added for any of the above
Dura		f. How installed	I: Tremie 🗆 01
Describe			Tremie pumped 🛛 02
17. Source of water (attach analysis, if req		88 · · · · · · · · · · · · · · · · · ·	Gravity IX 08
		6. Bentonite seal:	a. Bentonite granules 33
			3/8 in. □ 1/2 in. Bentonite chips □ 3 2 Other □
E. Bentonite seal, topft. M		C <sup>2.3</sup>	Other 🛛 🏭
F. Fine sand, top ft. MS	SLor_4ft	1000 J	al: Manufacturer, product name & mesh size
		a. Red Flint # 15	
G. Filter pack, top ft. M	SL or _5 ft.	b. Volume adde	d_1 ft <sup>3</sup>
			rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. M	SL or _ 6 ft.	a. Red Flint # 40	
		b. Volume adde	
I. Well bottom	SL or _ 16ft	9. Well casing:	Flush threaded PVC schedule 40 [X 23]
J. Filter pack, bottom ft. M			Flush threaded PVC schedule 80 24
J. Filter pack, bottom It. M.		10. Screen material:	Other D
K. Borchole, bottom	SLor 16 fts	a. Screen type:	PVC Factory cut [X] 11
			Continuous slot 🖬 01
L. Borehole, diameter8 in.			Other 🗆 🎆
· · · · · · · · · · · · · · · · · · ·		b. Manufacturer	Timco
M. O.D. well casing _ 2.38_ in.		c. Slot size:	0.01 in.
		d. Slotted length	·
N. I.D. well casing $2 - in$ .		11. Backfill material	l (below filter pack): None 14
			Other 🗆 🧾
I hereby certify that the information on this	the second se	est of my knowledge.	
Signature	Firm Giles Eng	gineering Associates, Inc.	
	Gires Eng		

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