Rec'd WONR/SER 08/18/09



Pamela Mylotta Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King, Jr. Drive Milwaukee, Wisconsin 53212-0436

PID 241 68 3150

ARCADIS

126 North Jefferson Street

Suite 400

Milwaukee

Wisconsin 53202

Tel 414.276.7742

Fax 414.276.7603

ENVIRONMENT

www.arcadis-us.com

Subject:

Supplemental Investigation Results, Former Hoffman's Valet Cleaners, 7215 West

Center Street, Wauwatosa, Wisconsin. BRRTS No. 02-41-307576

ACTION: 37

Dear Ms. Mylotta:

COMMENT: SUPPLEMENTAL SI RESULTS

In accordance with a request from the Wisconsin Department of Natural Resources (WDNR), ARCADIS prepared a scope of work for conducting supplemental investigation activities at the subject property. The scope of work, dated February 21, 2008, included the collection of soil and vapor samples from adjacent properties to the east and west. An access agreement was executed with the owner of the west adjacent property owner. Despite numerous attempts, access could not be obtained from the owner of the east adjacent property. ARCADIS developed an alternate scope of work to address investigation activities to the east.

The WDNR approved the alternate scope of work in a letter dated April 1, 2009. The WDNR letter requested that supporting documentation regarding access requests for the east adjacent property and the supplemental investigation results be submitted to WDNR for review. This letter transmits the data collected during the supplemental investigation. ARCADIS believes the investigation activities completed to date indicate that limited impacts are present in the subject property, and that site closure should be granted. In accordance with the April 1, 2009 WDNR letter, ARCADIS will prepare a formal request for closure once WDNR provides a response to this letter.

Requests for Access

In previous communications, the WDNR requested that borings be advanced on the adjacent property to the west (7219 West Center Street) and east (7209 West Center Street). Access to the west adjacent property was obtained; however, ARCADIS was unsuccessful at obtaining access to the east adjacent property. No phone number is listed for the property owner. ARCADIS visited the property on several occasions in an attempt to speak with the owner, but nobody answered the door on these visits. Two letters were sent to the property owner, dated July 9, 2008 and December 15, 2008, with the second letter being sent via registered mail. ARCADIS received a return receipt, indicating the second letter was received, but ARCADIS received no further response. Copies of the letters are enclosed.

Date:

August 17, 2009

Contact:

Ed Buc

Phone:

414.276.7742

Email

ebuc@arcadis-us.com

Our ref:

WI000943.0003

Imagine the result

As stated earlier, an access agreement was executed with the west adjacent property owner (Cindy Johnson). ARCADIS completed the soil borings outside the building, as described in the February 21, 2008 scope of work. However, when ARCADIS attempted to advance a subslab vapor probe inside the building on the west adjacent property, the property owned declined further access. At first, the west adjacent property owner indicated that they lived outside of Milwaukee, and asked that we contact them occasionally to determine when they would be in the area. We contacted the adjacent property owner at least seven times between April and June 2009, and could not obtain access. The property owner later stated that they were declining access due to a dispute that has arisen with the current owner of the dry cleaner over unapproved use of the dumpster belonging to the west adjacent property owner. The ongoing investigation is being conducted by the former owner of the dry cleaner, not the current owner.

Because access could not be obtained, no subslab vapor samples could be collected during this phase of investigation.

Source Areas

As stated in the February 21, 2008 scope of work, ARCADIS contacted Mr. Ralph Hoffman, the former property owner and dry cleaner operator, to obtain additional information to locate potential sources of the constituents identified at the subject property. Mr. Hoffman indicated that the dry cleaning machine has always been in the southern portion of the building. Process equipment, chemicals or waste products were not stored in other areas of the building. The previous investigations included three borings in the vicinity of the dry cleaning machine.

It is noted that the property only occupies an area of about 5,100 square feet, and that the building occupies about 3,600 square feet. To date, 11 borings have been advanced on the subject property, and five additional borings have been advanced on adjacent properties.

Investigation Data

The field activities for the supplemental investigation were completed in May 2009. These activities included:

- Placement of one Geoprobe boring (GP-106) on a property to the east.
- Placement of two Geoprobe borings (GP-107 and GP-108) on the west adjacent property.

Page:

- Placement of two Geoprobe borings (GP-109 and GP-110) in the alley south of the subject property.
- Collection of soil samples from the Geoprobe borings.

The attached information presents the results of the supplemental investigation. Figure 1 depicts the boring locations. Table 1 summarizes the soil analytical results. No chlorinated hydrocarbons were detected. Xylene was detected in the sample from GP-106, advanced to the east. This property was reportedly occupied by a gasoline service station. Supporting documentation, including boring logs, borehole abandonment forms, and laboratory reports are attached.

The goal of the supplemental investigation was to evaluate soil conditions in a sand layer located at a depth of approximately 10 feet. ARCADIS has prepared updated cross sections (Figures 5, 6 and 7) to illustrate findings from the May 2009 borings. The borings indicate that the sand layer is limited in extent along the north side of the property (cross section represented by GP-107/MW-1/GP-106).

Closing

Based on the results of the supplemental investigation, the extent of impacts in the sand unit has been defined. The investigation results to date indicate that impacts at the subject property are relatively limited. Vapor sampling was previously conducted on the subject property; however, adjacent property owners have refused access for additional subslab vapor sampling.

Please review the attached information at your convenience. As requested, ARCADIS will not conduct additional work until the WDNR provides comments. If you have any questions or require additional information, please contact us at your convenience.

Sincerely,

ARCADIS

Edmund A. Buc, PE, CHMM

Principal Engineer

Сору:

Ralph Hoffman

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID		SSL	SSL	GP-1	GP-2	GP-	-101	GP-	102	GP-	-103
Sample Depth (ft bls)	SSL	Vapor	Groundwater	6-8	4-6	7-11	11-15	4-8	12-16	8-12	12-16
Sample Date	Ingestion	Inhalation	Protection	02/07/02	02/07/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02
VOCs									9		
cis-1,2-Dichloroethene	156,000	1,300,000	27	53	<10	<25	<25	<25	<25	<25	<25
Ethylbenzene	200		2,900	<10	<10	<25	<25	<25	<25	<25	<25
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	<25	<25	<25	<25	<25	<25
Methylene Chloride	8,520	2,700	0.98	21 Q	14 Q	<25	<25	<25	<25	<25	<25
Naphthalene	313,000	68,000	340	NA	NA	50 Q	<25	<25	<25	<25	<25
Tetrachloroethene	1,230	2,100	4.1	51	240	<25	<25	150	<25	400	<25
Xylenes, Total			4,100	<20	<20	<50	<50	<50	<50	<50	<50

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the soil screening level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID		SSL	SSL	GP-	-104	GP-	105	MW-1	MW-2	MW-3
Sample Depth (ft bls)	SSL	Vapor	Groundwater	4-6	8-9	8-12	12-16	10-12	10-12	10-12
Sample Date	Ingestion	Inhalation	Protection	09/12/02	09/12/02	09/12/02	09/12/02	01/19/05	01/19/05	01/19/05
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<25	<25	<25	<25	<29	<28	<31
Ethylbenzene			2,900	<25	<25	<25	<25	<29	<28	<31
Fluorotrichloromethane	4,690,000	410,000	9,200	61	<25	<25	<25	<29	<28	<31
Methylene Chloride	8,520	2,700	0.98	<25	<25	<25	<25	72	96	<62
Naphthalene	313,000	68,000	340	<25	<25	<25	<25	<29	<28	<31
Tetrachloroethene	1,230	2,100	4.1	41 Q	45 Q	130	<25	2,800	3,720	<31
Xylenes, Total			4,100	<50	<50	<50	<50	<58	<56	<62

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the soil screening level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID		SSL	SSL	GI	- 3	GP-106	GP-107	GP-108	GP-109	GP-110
Sample Depth (ft bls)	SSL	Vapor	Groundwater	8-10	10-12	10-12	12-14	14-16	12-14	14-16
Sample Date	Ingestion	Inhalation	Protection	01/08/07	01/08/07	05/01/09	05/01/09	05/01/09	05/01/09	05/01/09
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<35	<54	<26	<28	<28	<28	<29
Ethylbenzene			2,900	80	130	<26	<28	<28	<28	<29
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	8,520	2,700	0.98	<69	<110	<53	<56	<56	<56	<57
Naphthalene	313,000	68,000	340	<69	<110	<53	<56	<56	<56	<57
Tetrachloroethene	1,230	2,100	4.1	2,500	5,200	<26	<28	<28	<28	<29
Xylenes, Total			4,100	320	550	100	<95	<95	<96	<98

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the soil screening level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

State of Wisconsin	
Department of Natural Resources	

Soil Boring Log Information Form 4400-122 Rev. 7-98

			1	Route to: Watershed/Wastewater Remediation/Redevelopment				ement []							
														Page _	1	_ of2_
Facility/		Name fman	Clea	ners	Li	icense	e/Peri	mit/Mor	nitoring l	Number		В		Numbe		-
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Sam	<u> </u>								-			Soil F	Prope	rties		
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit			USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Aoisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			0	0-4/			_	0 1		0-2	0 %	20				40
1	31		- - - - 2 - -	0-3.5" Topsoil: Silt, dark brown, smoot trace organics roots/grass, moist, gradinto below. 3.5-31" Silt/Clay: Yellow brown (10 YR and slightly grainy, crumbly, trace fine coarse sand and gravel up to 1-1/2" su subangular, moist.	les over 7° 5/6) smoo to	oth				7.4 2-4 7.5		-				
			4	4.97		-				4-6 NR						3° w
2	NR		- - - - 6 - - -	4-8/ Gravel up to 3/4" angular to subangular silt/clay as above in tip of sampler.	ar and			9		6-8 NR			e e			
3	44		- - - - -10	8-12/ 0-4" Silt/Clay: Brown (10 YR 5/3), smoo plastic, trace gravel up to 1/2" subrour subangular, moist. 4-27" Clay: Grayish brown (10 YR 5/2), s cohesive, plastic, trace gravel up to 1/2 from 19-23" is grainy silt, same color, so loose, moist.	nd to smooth, 2", moist, orted,					8-10 8.2 10-12 7.9	= 1					,
I hereby Signatur		that th	e infor	mation on this form is true and correct	Firm A	RCAI	DIS					****				3.
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any purpose. NOTE: See instructions for more information, including where the completed from should be sent. hoffman/wi943/wauwatosa/graphics/logs/gp106.ai

Boring N	lumber		GP-	-106							1	Page _	2	of <u>2</u>
Sam	ple									Soil P	roperti	es		
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	(PID) FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			1	27-42" Sand: Fine grain, trace medium to coarse, well sorted, loose, moist. 42-44" Clay: Grayish brown (10 YR 5/2) smooth, cohesive, plastic, moist to wet.										
4	46		-12 -	12-16/ 0-46" Clay: As above, from 33-35" includes little sand fine to medium grain and grainy silt.				12-14 7.5						
			- - - - - -					14-16 7.0			-			
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State of Wisconsin	
Department of Natural Resources	

Soil Boring Log Information

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1	35		0	0-4/						0-2						
1	33			0-4" Concrete. 4-35" Silt/Clay: Yellow brown (10 YR	R 5/6), smo	oth				7.1						
			L	crumbly at first, cohesive and plasti	c when											
				worked, trace medium to coarse sar						2-4						
			-2	up to 1/2" subround to subangular, (roots) from 0-18 more crumbly, mo		anics				7.2						
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	42		T ⁴	4-8/						4-6						
2	42			0-40" Silt/Clay: As above.						7.1						
				40-42" Clay/Silt: Brown (10 YR 5/3) cohesive, plastic, trace fine to medi												
				sand, moist to wet.	iuiii giaiii.											
				¥												
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			-	18) F												
			8	8-12/						0.1-						
3	32		-	0-23" Silt: Light yellowish brown (1	0 YR 6/4),					8-10 7.2		340				
			-	crumbly, some clay, little to trace fin						7.2						
			-	sand and gravel up to 1" subround to moist.	to subang	ular,										
			-	23-32" Clay: Grayish brown (10 YR 5)	/2) crumbl	ly				10.13						
			-10	at first, cohesive and plastic when v	worked, tra	ace				10-12 7.6						
			<u> </u>	to little gravel up to 1.5" subround t												
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any purpose. NOTE: See instructions for more information, including where the completed from should be sent. hoffman/wi943/wauwatosa/graphics/logs/gp107.ai

Boring N	lumber		GP-	-107								Page _	2	of <u>2</u>
Sam	ple									Soil Pr	operti	es		
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	(PID) FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			-	and trace to little sand fine to medium, becomes silty (grainy) in places.			-							
4	40		- 12 - 14 14	12-16/ 0-8" Clay: Grayish brown, some sand fine to coarse crumbly, moist, wet. 8-35" Clay: As above. 35-40" Silt/Clay: Gray (10 YR 6/1) smooth to grainy, cohesive, plastic, trace to little medium coarse sand, trace gravel up to 1.5" angular to subangular, wet to moist.				12-14 7.4 14-16 8.0						
5	40		- 16 - - - 18 -	16-20/ 0-24" Clay: As above. 24-31" Clay: As above, little to some sand fine to medium. 31-40" Clay: Dark grayish brown (10 YR 4/3), smooth, cohesive, plastic, little sand fine to coarse and gravel up to 1" subround to subangular, moist.				16-18 8.8						
•			- 20 22 - 24 - 26 28	EOB @ 20'										

State of Wisconsin	
Department of Natural Resources	

Soil Boring Log Information Form 4400-122 Rev.7-98

				Route to: Watershed/Wastewater Remediation/Redevelopment		e Manag er 👿 _									
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ber Type	th A	õ	는 는	Each Major Unit		_د ا	hic	ram	(⊕)	pre ngt	tur	ئ ق	t Ei	200	_ me
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	*		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Nois Punt	in in	Plastic Limit	P 20	RQD/ Comments
			0	0-4/					0-2	0 01	20				10
1	17		-	0-3.5" Crushed asphalt.					7.7						
		1	-	3-17" Silt/Clay: Brown (10 YR 4/3) smoo		oly				1					
			-	at first, cohesive and plastic when work fine to coarse sand and gravel up to 1":		, l				*					
			-	to subangular, moist.	3ubiouriu	'			2.4						
			-2	and the same of th					2-4 8.1						
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			Γ.	, a											
			十4	4-8/			-		4-6						
2	38		-	0-21.5" Clay: Grayish brown (10 YR 5/2),	, smooth,				7.6						
			-	cohesive, plastic, moist, trace medium t											
- 1			-	sand and gravel up to 1/2" subround to)										
			F	subangular. 21.5-38" Clay: Light yellowish brown (1	IN VR 6/4)			-							
			-6	crumbly at first, cohesive, plastic when											
			L	some silt, trace fine to coarse sand and	gravel				6-8		*				
			L	up to 1.5" subangular to subangular, me	oist.				8.5						
	ė.														
	3		Γ.												
	40		-8	8-12/					0.10						
3	42		-	0-8" Clay: As above.					8-10 9.7				,		
			-	8-26" Clay: grayish brown (10 YR 5/2) si					9.7						
			-	cohesive, plastic, moist, trace sand fine t											
			F	grain, gravel up to 1/2" subround to sub 26-28" Silt/Sand/Gravel: Color as above,											
			-10	fine grain, up to 1/2" subround to suba			×		10 13				K		
			- /	poorly sorted, somewhat loose.	-				10-12 10.2		-				
l hereb	y certify	that th	e infor	I rmation on this form is true and correct to	o the best	t of my l	nowled	dge.			!				
Signatu					Firm AR	CADIS									
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Boring Ņ	umber		GP-	-108							İ	Page _	2	of <u>2</u>
Sam	ple									Soil Pi	roperti	es		
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	(PID)FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			- - - 12	28-40" Clay: Grayish brown (10 YR 5/2) smooth, coheisve, plastic, trace to little fine sand and gravel up to 1/2" subround to subangular, moist to wet. 40-42" Sand: Yellow brown (10 YR 5/4) fine grain,										
4	46		- - - - 14 - -	well sorted, loose, moist. 12-16/ 0-24" Silt/Clay: Grayish brown (10 YR 5/2), smooth to grainy somewhat cohesive to somewhat crumbly, some fine sand in places (20-21") moist, trace gravel up to 3/4" subround to subangular. 24-33" Sand: Dark yellowish brown (10 YR 4/2) fine grain, trace to little medium to coarse grain, some grainy silt, sorted, loose, wet. 33-46" Clay: Grayish brown (10 YR 5/2), smooth to grainy, trace to little medium to coarse sand and gravel up to1" subround to subangular cohesive, plastic when worked.				12-14 9.3 14-16 7.8						·
			- 16 - 18 - 18 - 20 - 22 - 24 - 26 - 28	EOB @ 16'										

State of Wisconsin	
Department of Natural Resources	

Soil Boring Log Information Form 4400-122 Rev.7-98

				Route to: Watershed/Wastewater Remediation/Redevelopn		Vaste M Other	/lanag	ement []							
									V.,			Page1 of2_				
Facility	/Project N	Name fman	Class	nove		Licens	se/Per	mit/Mor	itoring l	Number	e.	В	oring N	Numbe	r iP-1	00
Boring	121 1707-5517070	Man a ser mineral in		r chief (first, last) and Firm		Date (Drilling	y Startec	ı	Date I	Orilling C	Comple	ted	Drillin		
First Na	ame Ke	ith		Last Name g Associates				1/09			05/01			Geoprobe		
WI Unio	que Well	No.		DNR Well ID No. Well Name		Final	Static	Water Lo			e Elevati	Fee	t MSL	Borehole Diameter 2 inches		
Local G State F	lane				E S□/C□/N□ Lat □ N						,E					
Facility			_ 1/4 of	f Section,TN,R bunty	☑ E □ W County Code		_	Civil Tou	n/City/o			eet 🗆	S _		_	Feet W
racinty			100	Milwaukee	<u>41</u>	e	_		Wauw	_						
San	nple		×									Soil F	rope	rties		
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin F Each Major Unit	Ōr		USCS	Graphic Log	Well Diagram	PID(FID)	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
2	26		- 0 2 4 6 	0-4/ 0-6"Concrete. 6-33" Silt/Clay: Brown (10 YR 5/3) of cohesive and little plastic when we medium coarse sand and gravel upsubround to subangular, moist. 4-8/ 0-26" Silt/Clay: As above, in places much fine sand).	orked, trace p to 1-1/2"					0-2 7.9 2-4 7.4 4-6 7.4						
3	36			8-12/ 0-11" Silt/Clay: As above (sandy). 11-36" Clay: Gray (10 YR 5/1) very c very plastic, smooth, moist to wet, sand fell out of base of sleeve (fine	looks as if grain).					10-12 7.4				5	i.	
I hereb Signatu		that th	e infor	mation on this form is true and corr		oest of		nowled	lge.		10:					
gaca	5	-1	1/	1		126 N	I. Jeff	erson S	St., Suit 114) 27	e 400 6-774	2					

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any purpose. NOTE: See instructions for more information, including where the completed from should be sent.

Boring N	Number		GP.	-109							ı	Page _	2	of2
San	nple									Soil Pr	operti	es		:
Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID)FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
4	46		12	12-14/				12-14						
4	40		- 14	0-13" Clay: As above, with little sand fine to medium. 13-24" Sandy Silt: Yellowish brown (10 YR 5/6), smooth to grainy, sand fine, trace gravel up to 1/2" subround to subangular, wet, gravel/rock in tip.				7.4						
			_ _ _ _ _ 16	Refusal @ 14'										
			-											
			18 											
			- 20 - - -											,
			- 22 - -											
			- - 24 - -											
			- 26 -											
			- - 28 -											

State of Wisconsin	
Department of Natural Resources	

Soil Boring Log Information Form 4400-122 Rev.7-98

				Route to: Watershed/Wastewater Remediation/Redevelopment				ement [
														Page _	1	_ of2_
Facility/		Name fman	Class	nors		Licens	se/Per	mit/Mor	nitoring l	Number	•	В		Numbe		
Boring E				chief (first, last) and Firm		Date [Orilling	g Started	i	Date I	Drilling C	Comple	ted	Drillin		
	_{me} Ke			Last Name		05/01/09 05/01										
Firm C	ue Well	ngine	erin	g Associates DNR Well ID No. Well Name					evel					Borehole Diamete		
						Final Static Water Level Surface Elevation Feet					Fee	Feet MSL 2 inc			inches	
Local Gr State Pl	id Origir lane) [] ((estima	ted:]/N []	Lat					rid Loca]N 🗀 E			□E
	1/4 of		1/4 of	f Section ,T N,R	IXIFI	Long				l .	Fe					Feet W
Facility I	D		Co	ounty Cou Milwaukee	nty Code			Civil Tow \	n/City/c	_						
Sam	ple											Soil F	rope	rties		
Number and Type	Length All. & Recovered (in)	Blow Counts Blow Counts Blow Counts Compressive Compressive Compressive Compressive Counts Soil/Rock Description And Geologic Origin Eor Each Major Unit Compressive Compressive Counts And Geologic Origin For Each Major Unit Compressive Compressive							Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments			
2	25		0 - - - - - - - - - - - - - - - - - - -	0-4/ 0-8" Concrete crushed. 8-22" Silt/Clay: Brown (10 YR 5/3) smooth grainy, trace fine to coarse sand, crumble cohesive and plastic when worked, model 22-25" Silt/Clay: Dark brown to black, cohesive, plastic, moist to wet. 4-8/ 0-6" Silt/Clay: Dark brown to black, as 6-25" Sandy Clay: Dark yellowish browd/4) smooth, slight cohesive and plast fine, trace gravel up to 1/2" subround subangular, moist to wet. 25-27" Silt: Brownish yellow (10 YR 6/6 crumbly, boarderline with very fine sawet.	above. wn (10 Y tic, sand to	γR is				0-2 8.8 2-4 7.1 4-6 6.7						
3	36		-8 - -10	8-12/ 0-8" Clay: Dark brown cohesive, plastic trace medium to coarse sand and grav 1/2". 8-20" Sandy Clay/Silt: Brown (10 YR 4/to grainy, slight cohesive, plastic, moist 20-42" Silt/Clay: Grayish brown (10 YR to grainy, slight cohesive, plastic, trace	vel up to (3) smoo t to wet. 5/2) smo fine to	oth ooth				8-10 6.9 10-12 6.9						
I hereby Signature		that th	e infor	mation on this form is true and correct		pest of ARCA		nowled	dge.							
	anature AAA						I. Jeff	erson S e, WI (4	St., Suit 114) 27	e 400 6-774	2					

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any purpose. NOTE: See instructions for more information, including where the completed from should be sent.

. Borin	g Numb	er _		GP-	-110							ŧ	Page _	2	of <u>2</u>
	ample										Soil Pr	operti	25		
Number	and lype Length All. &	Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	(PID) FID	Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		_			medium sand and gravel up to 1/2" subround to subangular.										•
4	3	8		14 	12-16/ 0-28" Silt/Clay: As above. 28-34" Sand: Dark yellow brown (10 YR 4/4), fine grain, well sorted, loose, moist to wet. 34-38" Silt/Clay: Light yellow brown (10 YR 6/4) smooth, cohesive, plastic, saturated.				12-14 6.7 14-16 6.7						
				- 16 18 20 22 24 26	EOB @ 16'										
		Security of the second security of the second secon		- - - 28											

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281,283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Drinking Water Watersh	ed/Wastew	vater [Waste M	anagement	Remedi	ation/Redev	elopment Othe	er:	
1. Well Location Information					2. Facility	/ Owner Info	ormation		
County WI Unique Removed	Well No. Well	Н	icap#		Facility Nam Hoffma	an Cleane			Common Well Name GP-109
Lattitude / Longitude (Degrees ar	d Minutes) Meth	od Code (se	e instructions)	Facility ID (F	ID or PWS)			
	<u></u> 'N				License/Peri	mit/Monitori	ng #		,
1/4 / 1/4 1/4 Sec Sec	tion To	ownship	Rang	e	Original Wel	l Owner			
Well Street Address					Present Well	Owner			
7215 W. Center Street			*						
Well City, Village or Town			Well ZIP C	ode	Mailing Add	lress of Prese	nt Owner		
Wauwatosa					City of Prese	ent Owner	n	State	ZIP Code
Subdivision Name			Lot #		The Cartain Control of the Cartain Control				
<u> </u>					4. Pump, Li	ner, Screen,	Casing & Sealing N	laterial	
Reason For Removal From Service	e WI	Unique V	Well # of Rep	lacement Well	Pump and	d piping rem	oved?		Yes No No N/A
Investigative boring		_			Liner(s) re	moved?			Yes No No N/A
3. Well/Drillhole/Borehole Infor	mation				Screen re	moved?			Yes No X N/A
Monitoring Well	_	onstruct 23/20		nm/dd/yyyy)	Casing lef	t inplace?			Yes No No N/A
Water Well	103			is available,	Was casin	g cut off belo	ow surface?		Yes 🗌 No 🗓 N/A
X Borehole / Drillhole	olease atta	ich.		The Committee of the Co	Did sealin	g material ris	se to surface?		Yes No X N/A
Construction Type:					Did mater	rial settle afte	er 24 hours?		Yes No X N/A
	uan /Candu	agint\		· · · · ·	If yes,	was hole ret	opped?		Yes No X N/A
	ven (Sandp	ooint)		Dug	If bentoni	te chips were	used, were they		
X Other (specify): Geo	orobe						om a known safe so		Yes No X N/A
Formation Type:							ing Sealing Materia		nned
			Bedrock			ed & Poured	Other (Exp		прец
Unconsolidated Formation					(Bento	nite Chips)	□ Other (Exp	nairi)	
Total Well Depth From Groundsur	face (ft.)	Casing	Diameter (i	n.)	Sealing Mat	erials ement Grout		Clay-Sand	Slurry (11 lb./gal.wt.)
Lower Drillhole Diameter (in.)		Casing	Depth (ft.)			Eement (Cond		Bentonite-	-Sand Slurry" "
2					Concre		icic) diout	Bentonite	•
Was well annular space grouted?		Yes	□ No □	Unknown			— Monitoring Well Bor		•
If yes, to what depth (feet)?			ter (feet)			te Chips	<u> </u>	nite - Ceme	•
ii yes, to what depth (ieet):	Берс	ii to vva	ter (reet)			r Bentonite		nite - Sand	
5. Material Used to Fill Well / Drill	hole				From (ft.)	To (ft.)	No. Yards, Sacks	Sealant	Mix Ratio or
Paraid balantug 2/9" ch	inc	-9.V.,;					or Volume (circl <1/2 bag	e one)	Mud Weight
Baroid holeplug 3/8" ch	ips				Surface	14	<1/2 Day		
6. Comments									
7. Supervision of Work	7070			44				DNR Use (Only
Name of Person or Firm Doing Filling	& Sealing	Lice	nse #	Date of Filling	g & Sealing (mr	m/dd/yyyy)	Date Received		Noted By
ARCADIS			moderation gar.	04/23/2	2009		Compression		
Street or Route	ita 400			Telephone No			Comments		
126 N. Jefferson Street, Su City Milwaukee	State	\\\/I 71	IP Code 53	414.276	ture of Person	Doing Work		Date	Signed
Sity Ivilliviaukee	State	VVI 21	" code 33	202 Signa	21	1/2			8/409

State of Wisconsin

Well / Drillhole / Borehole Filling & Sealing

Department of Natural Resources Form 3300-005 (R 8/07) PO Box 7921, Madison WI 53707-7921 dnr.wi.gov Notice: Completion of this report is required by chs. 160, 281,283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299. Wis. Stats., failure to file this form may result in a forteiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment 1. Well Location Information 2. Facility / Owner Information WI Unique Well No. Removed Well Facility Name County Hicap # Common Well Name **Hoffman Cleaners** GP-108 Facility ID (FID or PWS) Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions) License/Permit/Monitoring # 1/4 / 1/4 Range Section Township ٦E Original Well Owner or Gov't Lot #] W N **Well Street Address** Present Well Owner 7215 W. Center Street Mailing Address of Present Owner Well ZIP Code Well City, Village or Town Wauwatosa State City of Present Owner ZIP Code Lot# Subdivision Name 4. Pump, Liner, Screen, Casing & Sealing Material Reason For Removal From Service WI Unique Well # of Replacement Well No X N/A Pump and piping removed? Investigative boring No X N/A Liner(s) removed? 3. Well/Drillhole/Borehole Information No X N/A Screen removed? Original Construction Date (mm/dd/yyyy) Monitoring Well No X N/A Casing left inplace? 04/23/2009 Water Well Yes No X Was casing cut off below surface? If a Well Construction Report is available, please attach. X | Borehole / Drillhole No X Did sealing material rise to surface? Did material settle after 24 hours? Yes No X Construction Type: Yes No X N/A If yes, was hole retopped? Drilled Driven (Sandpoint) Dug If bentonite chips were used, were they hydrated with water from a known safe source? Yes No X N/A X Other (specify):_ Geoprobe Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped Formation Type: X Screened & Poured Bedrock Other (Explain): X Unconsolidated Formation (Bentonite Chips) Total Well Depth From Groundsurface (ft.) Casing Diameter (in.) Sealing Materials Clay-Sand Slurry (11 lb./gal. wt.) Neat Cement Grout Casing Depth (ft.) Lower Drillhole Diameter (in.) Bentonite-Sand Slurry " Sand-Cement (Concrete) Grout X Bentonite Chips Concrete Was well annular space grouted? Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: Bentonite - Cement Grout Depth to Water (feet) Bentonite Chips If yes, to what depth (feet)? Bentonite - Sand Slurry Granular Bentonite Mix Ratio or No. Yards, Sacks Sealant 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) or Volume (circle one) **Mud Weight** Baroid holeplug 3/8" chips 16 <1/2 bag Surface

7. Supervision of Work		DNR	Use Only		
Name of Person or Firm Doing Filling & Sealin ARCADIS	g License #		of Filling & Sealing (mm/dd/yyyy) 1/23/2009	Date Received	Noted By
Street or Route 126 N. Jefferson Street, Suite 4	00		hone Number 4.276.7742	Comments	
City Milwaukee S	tate WI ZIP Code	53202	Signature of Person Doing Work		Date Signed

6. Comments

State of Wisconsin Department of Natural Resources 'PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

Page 1 of 2

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Route to: Drinking Water Watershed/V	Vastewater [Waste Ma	inagement	Remedia	ation/Redeve	elopment Other	:	8			
1. Well Location Information				2. Facility	/ Owner Info	ormation					
County WI Unique Wel Removed Well	l No.	licap #		Facility Nam	ie			Common Well Name			
				Hoffma Facility ID (F	an Cleane	rs		GP-107			
Lattitude / Longitude (Degrees and M	Variables	od Code (see	instructions)	racility ID (F)	ID OI PWS)						
	'N			License/Perr	mit/Monitori	ng #					
1/4 / 1/4 Section	Township	Range	E	0:: 11// 1	10						
or Gov't Lot #		N	□w	Original Wel	Owner						
Well Street Address		9		Present Well	Owner						
7215 W. Center Street											
Well City, Village or Town		Well ZIP Co	ode	Mailing Add	Iress of Prese	nt Owner					
Wauwatosa				City of Present Owner State ZIP Code							
Subdivision Name	*	Lot #									
		L		4. Pump, Lir	ner, Screen, G	Casing & Sealing M	aterial				
Reason For Removal From Service	WI Unique V	Well # of Repla	cement Well	Pump and	d piping rem	oved?	닏	Yes No No N/A			
Investigative boring		y-10-15-1-15-1		Liner(s) re	moved?			Yes No N/A			
3. Well/Drillhole/Borehole Informat	i ion Jinal Construct	ti Data (Screen rei	moved?			Yes No X N/A			
Monitoring Well Orig	04/23/20		m/aa/yyyy)	Casing lef	t inplace?		-	Yes No No N/A			
Water Well	Vell Constructi		s available	Was casing cut off below surface? Yes No X N,							
Borehole / Drillhole	se attach.	ionneportis	o avanabic,		-	se to surface?		Yes No X N/A			
Construction Type:				Did mater	ial settle afte	er 24 hours?		Yes No X N/A			
	(Sandpoint)	□ Di		If yes,	was hole reto	opped?		Yes No X N/A			
			ug	If bentoni	te chips were	used, were they		Yes No X N/A			
X Other (specify): Geopro	be					om a known safe sou ing Sealing Material	<u></u>	ies No Min/A			
Formation Type:						vity Conductor		nped			
X Unconsolidated Formation		Bedrock		Screened & Poured Other (Explain):							
Total Well Depth From Groundsurface	(ft) Casing	Diameter (in			nite Chips)						
Total Well Depth From Gloundsurface	(it.) Casing	Diameter (iii	1.)	Sealing Mate		Пс	lav-Sand	Slurry (11 lb./gal.wt.)			
Lower Drillhole Diameter (in.)	Casing	Depth (ft.)			ement Grout			-Sand Slurry "			
2					ement (Cond	icte) Grout —	entonite	•			
Was well annular space grouted?	Yes	□ No □	Linknown	Concre		مرين Monitoring Well Bore					
If yes, to what depth (feet)?	Depth to Wa		_ OHKHOWH	Bentoni				y. ent Grout			
if yes, to what depth (leet):	Deptil to wa	ter (reet)			r Bentonite		ite - Sand				
				Grandia	Deritorite	No. Yards, Sacks S		Mix Ratio or			
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	or Volume (circle		Mud Weight			
Baroid holeplug 3/8" chips				Surface	20	<1/2 bag					
						9					
6. Comments							100				
C. Comments Exception of the Comments of the C							100 100 2 5				
		-									
7. Supervision of Work	ling I		Date of Fill:	a & Cooling /s-	m/dd/+==-1	Date Received	NR Use (Only Noted By			
Name of Person or Firm Doing Filling & Sea ARCADIS	ling Lice	nse #	04/23/2	g & Sealing (mr 2009	n/aa/yyyy)	and necessed		.5.04 5)			
Street or Route			Telephone No	umber		Comments					
126 N. Jefferson Street, Suite			414.276		Dail W. A		To :	Cianad			
City Milwaukee	State WI ZI	IP Code 532	202 Signa	ture of Person	Doing Work		Date	Signed 817/69			

State of Wisconsin Department of Natural Resources

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

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Route to: Drinking Water Watershed/Wastewater Waste Mar	nagement	Remedia	ation/Redeve	elopment Other:					
1. Well Location Information			Owner Info						
County WI Unique Well No. Removed Well Hicap #		Facility Nam Hoffma	e in Cleane		Common Well Name GP-106				
Lattitude / Longitude (Degrees and Minutes) Method Code (see	instructions)	Facility ID (FI	-						
°		License/Perr	nit/Monitorii	ng #					
1/4 / 1/4 1/4 Section Township Range or Gov't Lot # N	☐ E ☐ W	Original Well	Owner						
Well Street Address		Present Well	Owner						
7215 W. Center Street Well City, Village or Town Well ZIP Coo	do	Mailing Add	ress of Prese	nt Owner					
Wauwatosa	ue				Table 1				
Subdivision Name Lot #		City of Prese	nt Owner	State	ZIP Code				
		4. Pump, Lir	ner, Screen, G	Casing & Sealing Material					
Reason For Removal From Service WI Unique Well # of Replace	cement Well	Pump and	l piping remo	oved?	Yes No X N/A				
Investigative boring		Liner(s) re			Yes No N/A				
3. Well/Drillhole/Borehole Information		Screen rer			Yes No X N/A				
Monitoring Well Original Construction Date (mr	m/dd/yyyy)	Casing lef	t inplace?		Yes No No N/A				
Water Well If a Well Construction Report is	available,	Was casing	g cut off belo	ow surface?	Yes No X N/A				
X Borehole / Drillhole please attach.		Did sealing	g material ris	se to surface?	Yes No X N/A				
Construction Type:		Did mater	ial settle afte	er 24 hours?	Yes No X N/A				
Drilled Driven (Sandpoint) Du	ıa		was hole reto		Yes No X N/A				
X Other (specify): Geoprobe		hydrated v	with water fro		Yes No X N/A				
Formation Type:				ing Sealing Material vity	mnod				
☐ Bedrock		X Screened & Poured Other (Explain):							
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.	.)	Sealing Mate	1/8						
Cosing Double (ft)		☐ Neat Ce	ement Grout		l Slurry (11 lb./gal.wt.)				
Lower Drillhole Diameter (in.) Casing Depth (ft.)	ti.	Sand-C	ement (Cond	crete) Grout Bentonite X Bentonite	-Sand Slurry" " Chips				
Was well annular space grouted? Yes No	Unknown			— Monitoring Well Boreholes On	lv:				
If yes, to what depth (feet)? Depth to Water (feet)		Bentoni	-	Bentonite - Cem					
		Granula	r Bentonite	Bentonite - Sand	d Slurry				
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight				
Baroid holeplug 3/8" chips		Surface	16	<1/2 bag	9				
. "					-				
6. Comments			V Water						
o, comments									
				DNP Hea	Only				
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License #	Date of Filling	g & Sealing (mn	n/dd/yyyy)	Date Received	Noted By				
ARCADIS	04/23/2	009	77771						
Street or Route	Telephone No 414.276		N.	Comments					
126 N. Jefferson Street, Suite 400 City Milwaukee State WI ZIP Code 532		ture of Person	Doing Work	Date	e Signed				
vii viiivaukee	02	5	ML		8/17/01				

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 8/07)

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Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to: Drinking Water Watershed/Wastewater	Waste Management	Remedi	ation/Redev	elopment Othe	r:	
1. Well Location Information		2. Facility	/ Owner Info	ormation		
County WI Unique Well No. Removed Well	icap#	Facility Nam Hoffma	_{ne} an Cleane			Common Well Name GP-110
Lattitude / Longitude (Degrees and Minutes) Method			mit/Monitori	ng #		
Well Street Address		Present Wel	Owner			
7215 W. Center Street Well City, Village or Town Wauwatosa Subdivision Name	Well ZIP Code	Mailing Add	lress of Prese	nt Owner	State	ZIP Code
Subdivision Name	Loca	4. Pump, Li	ner, Screen,	Casing & Sealing M	laterial	
Investigative boring 3. Well/Drillhole/Borehole Information Monitoring Well Water Well Sorehole / Drillhole Construction Type: Drilled Driven (Sandpoint) Geoprobe	vell # of Replacement Well on Date (mm/dd/yyyy) on Report is available, Dug	Liner(s) re Screen re Casing lef Was casin Did sealin Did mater If yes, If bentoni hydrated Required Me	moved? it inplace? g cut off belog g material ristial settle after was hole reto te chips were with water frethod of Place	ow surface? se to surface? er 24 hours? opped? e used, were they om a known safe so ing S <u>eal</u> ing Material	urce?	Yes No N/A
	Bedrock	X Screen	tor Pipe-Gra ed & Poured nite Chips)	vity		ped
	Diameter (in.) Depth (ft.) No Unknown Der (feet)	Sand-C Concre For Monitori Bentoni	ement Grout ement (Cond te	rete) Grout \(\begin{align*} \begin{align*}	Sentonite-S Sentonite C	r: nt Grout
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circle		Mix Ratio or Mud Weight
Baroid holeplug 3/8" chips	1	Surface	16	<1/2 bag		
6. Comments		2-21-27				
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing ARCADIS Street or Route	Date of Filling 04/23/2		m/dd/yyyy)	Date Received Comments	ONR Use O	nly oted By
126 N. Jefferson Street, Suite 400	414.27		Doing Work		Date S	igned 8/17/09