Belliveau, Cherryl L

From:

Belliveau, Cherryl L

Sent:

Tuesday, September 23, 2003 11:55 AM

To: Cc: Saari, Christopher A Boardman, Daniel C

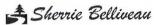
Subject:

File Note

Chris:

Please place a note in file #03-58-000380 (Former Ackley Amoco) to reference file #07-58-438023.

Thank you.



NOR Remediation & Redevelopment
Wisconsin Department of Natural Resources

(a) phone:

715-365-8996

(2) fax:

715-365-8977

(E) e-mail:

cherryl.belliveau@dnr.state.wi.us

See also:

03-58-000380

مثللت (A supplific

Post-it® Fax Note	7671	Date 5/11/03 # of pages # 5
TO JAN		From Boardman
Co./Dept SAWYER		CO. WIT-DUR
Phone #715-634-	CH63	Phone # 5-365-8943
Fax #715-638-	3282	Fax #

LETTER OF TRANSMITTAL

▲ No	rthern Environi Hydrologists • Engineers		ATTENTION MY.	3 SAWY Bill Schultz	9-2300-0458 Z
•	th 4th Avenue 1-8	715-762-1544 800-498-3913 715-762-1844			
TO: <u>W</u>	Dept. of Natura	1 Resource	S WE ARE SEN	DING YOU	
107 5	suthiff Avenue		Attached	Under separate	cover
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COPIES		DES	CRIPTION		
				MANAGEMENT AND THE STATE OF THE	
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THESE A	RE TRANSMITTED (se	ee code)			
A.	For Approval	F. No Exception	ns Taken J.	Resubmit Co	opies for Review
	For Your Use	G. Make Noted		Submit Copi	
C.	As Requested	H. Amend & Re		Return Corre	
D.	For Review and Comment	l	M.	Review and Sign	
E.	For Bids Due	19	9		
REMARK	s: BUI:				
	Enclos	rd 15 a (copy of the	letter repo	ort
regard	ding the build	ing demol	ition, tank	removala	.additional
Sitein	vestigation actu	vities of	the Former	Ackley Am	000
located	d in Couderay	WI. Plea	Se feel free	e to contact	uswith
any C	comments or gu	Jestions.			
			Th	ank you	
COPY TO):				
		3	SIGNED:	Jeb Kpenic	4



330 South 4th Avenue Park Falls, WI 54552 715-762-1544 800-498-3913 Fax 715-762-1844

December 30, 2002 (SAW04-2300-0458)

Mr. Kris Mayberry Sawyer County Clerk P.O. Box 935 Hayward, Wisconsin 54843

RE: Building Demolition, Tank Removal, and Additional Site Investigation Activities, Former Ackley Amoco, 12264 Highway 70, Couderay, Wisconsin (WDNR ID #03-58-000380) (FID #858120450)

Dear Mr. Mayberry:

Northern Environmental Technologies, Incorporated (Northern Environmental) has completed building demolition, tank removal, and additional site investigation (SI) activities at the Former Ackley Amoco, 12264 Highway 70, Couderay, Wisconsin (Site) (Figure 1). This work was completed under a Brownfield Site Assessment Grant (SAG) awarded to Sawyer County by the Wisconsin Department of Natural Resources (WDNR).

On June 20, 2002, four underground storage tanks (USTs) (two 1,500 gallon unleaded gasoline, one 1,000-gallon diesel, and one 1,000-gallon fuel oil) were removed from the Site (Figure 2). All UST site assessment activities conformed with Chapter ILHR 10, Wisconsin Administrative Code (WAC) and the WDNR site assessment guidelines. During tank removal, one soil sample was collected beneath each end of each tank, and also beneath each dispenser. Each soil sample was described in the field by Northern Environmental personnel and was subjected to field screening using a TEI Model 580B Organic Vapor Monitor photoionization detector (PID) equipped with a 10.6 eV lamp calibrated daily for direct response to isobutylene. PID headspace analysis consisted of collecting a representative soil sample, transferring the sample to a resealable plastic bag, and storing the sample in a relatively warm location for at least 15 minutes. The resealable bag was then punctured with the PID probe. The highest stable PID reading occurring within 10 to 20 seconds was recorded in instrument units as isobutylene (iui). The results of samples field screened during tank removal activities are summarized in Table 1. No soil samples were sent to be laboratory analyzed due to the SI, which was in progress at the Site. Tank closure checklists and inventory forms are included in Appendix A.

The former Ackley Amoco building demolition was completed during June of 2002. Building demolition activities were completed by Thompson's Sand and Gravel of Hayward, Wisconsin who was contracted by Advanced Tank Service, Inc. (ATS) of Eau Claire, Wisconsin. All building demolition material was disposed of properly at the Thompson's Sand and Gravel landfill.

Two additional monitoring wells (MW2100 and MW2200) were constructed on September 10, 2002 to determine the extent of petroleum impact to the ground water (Figure 2). These wells were installed and developed in accordance with NR 141 WAC ground water monitoring well requirements. The monitoring wells were constructed under the direction of Northern Environmental personnel. The position of the filter pack, filter pack seal, annular space seal, and surface seal were measured with a ballasted measuring tape. The monitoring wells were constructed of two-inch diameter, threaded, flush-joint polyvinyl chloride (PVC) casing.

Monitoring well screens consisted of a 10-foot long section of two-inch diameter, 0.010-inch mill slot, threaded, flush joint PVC. The monitoring well screens were positioned so that approximately five feet of screen was above the apparent seasonal high water table allowing the presence of floating product to be identified. The well bottoms consisted of pointed, threaded, flush-joint PVC cap. No glues, solvents, lubricants, or similar substances were used in well construction.

Monitoring wells MW2100 and MW2200 terminate approximately six inches below ground surface and are protected with a 12-inch diameter aluminum flush mount protective casing that is set in concrete. The wells are capped with a two-inch expandable locking cap. WDNR well construction forms are included in Appendix B.

The monitoring wells were developed using a submersible pump to remove the effects of drilling and well installation procedures. Well development helps to ensure that water entering the well is representative of ambient ground water. During well development, observation of pH, specific conductivity, temperature, turbidity, and free product occurrence were recorded. When 10 well volumes had been removed, or the well produced sediment-free water, the well was considered developed. WDNR well development forms are included as Appendix C. Well development summary sheets are included as Appendix D. Water level data sheets are included as Appendix E. A ground water monitoring well information form is included as Appendix F.

Ground-water samples were collected from MW2100 and MW2200 on October 14, 2002 with a disposable bailer and emptied into 40-milliliter vials sealed with a Teflon lined cap and preserved with hydrochloric acid (HCL). The ground-water samples were chilled to four degrees Celsius and were transported under chain-of-custody protocol to a WDNR certified laboratory (En Chem, Green Bay, Wisconsin). The samples were analyzed for volatile organic compounds (VOCs) (EPA Method SW846 8260B) and lead. Copies of ground-water laboratory analytical reports and chain-of-custody forms are presented in Appendix G.

Laboratory analytical results of ground-water samples collected from MW2200 indicated concentrations of petroleum compounds above WDNR Enforcement Standards (ES) and WDNR Preventative Action Limits (PAL). Laboratory analytical results of ground-water samples collected from MW2100 did not indicate significant petroleum compound concentrations. Ground-water analytical results are summarized in Table 2.

We trust this information meets your needs. Please feel free to contact Northern Environmental (800) 498-3913 if there are any questions.

Sincerely,

Northern Environmental Technologies, Incorporated

Shan M. Moquin

Environmental Scientist

One Michalshi for

Barbara J. Flietner, PG

Project Manager

Timothy J. McCormick

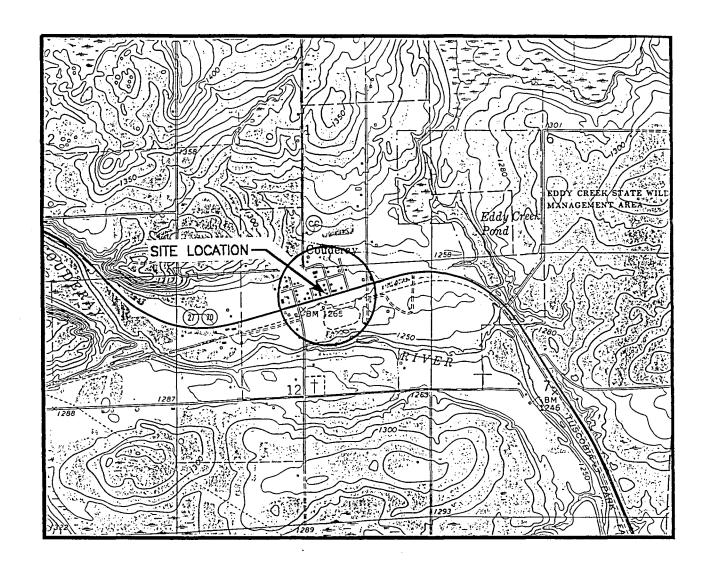
District Director

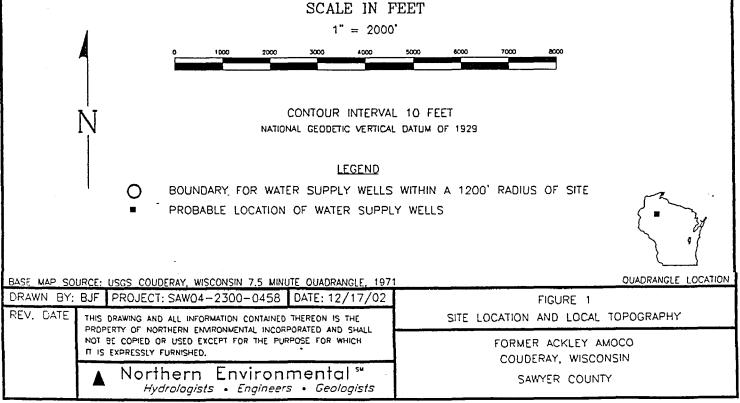
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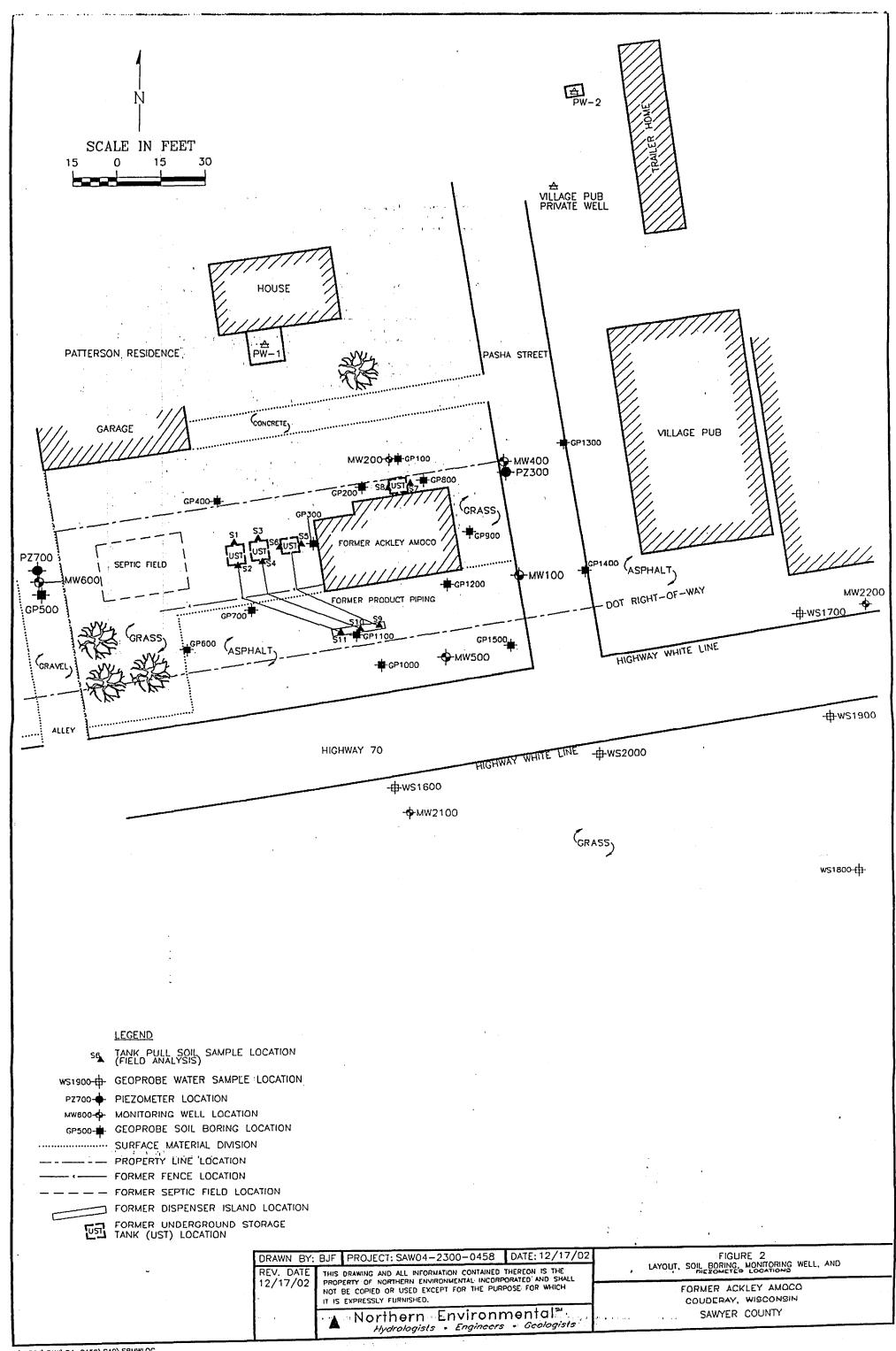
Enclosures

Cc: Sawyer County Land and Conservation Department

FIGURES







TABLES

Table 1. Tank Removal Soil Field Screening Results, Former Ackley Amoco, Couderay, Wisconsin

, , ,	Depth	Sample	Sample	Date	PID	Headspace Anal	ysis
Label		Time Collected	Time Analyzed	PID Response (iui)			
S1	9.5	North End - UST 1	Sand	06/20/02	0855	0910	540
S2	9.5	South End - UST 1	Sand	06/20/02	0856	0911	95
S3	9.5	North End - UST 2	Sand	06/20/02	0903	0918	329
S4	9.5	South End - UST 2	Sand	06/20/02	0904	0919	84
S5	9.0	East End - UST 3	Sand	06/20/02	′ ′0938	0953	133
S6	9.0	West End - UST 3	Sand	06/20/02	0940	0955	313
S7	9.0	East End - UST 4	Sand	06/20/02	1017	1032	136
S8	9.0	West End - UST 4	Sand	06/20/02	1018	1033	212
S9	1.5	East Dispenser	Silt	06/20/02	1022	1037	484
S10	1.5	Middle Dispenser	Silt	06/20/02	1024	1039	464
S11	1.5	West Dispenser	Silt	06/20/02	1025	1040	569

NOTE:

PID

= Photoionization Detector

jųj

= instrument units as isobutylene

Table 2, Ground-Water Analytical Results, Former Ackley Amoco, Couderay, Wisconsin

		Relevant and Significant Analytical Results (μg/L) VOCs										}					
Well ID	Date Sampled	QC Hold Time Met	Lead	Benzene	n-Butylbenzene	sec-Butylbenzene	Dilsopropyl Ether	Ethylbenzene	Isopropylbenzene	p-isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes		
WAC Preventive Action	on Limit (PA	(L) (µg/l)	1.5	0.5	NE	NE	NE	140	NE	NE	8	NE	200	96	1000		
WAC Enforcement S	Standard (ES	S) (µg/l)	15	5	NE	NE	NE	700	NE	NE	40	NE	1000	480	10000	Notes:	
MW100	08/23/01	Yes	10.9	4900	280	<15	21	1900	87	26*	560	300	19000	2790	11300	VOCs	≈ Volatile Organic Compounds
MW200	08/23/01	Yes	1.8*	<0.10	0.96*	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	0.82	<0.50	0.15*	µg/l	= micrograms per liter
PZ300	08/23/01	Yes	1.8*	0.45	2.4	<0.30	<0.10	0.95	0.94	0.69*	<0.70	<0.30	6.9	6.2	9.8	NE	Not Established by Wisconsin Administrative Code (WAC)
MW400	08/23/01	Yes	8.4	76	340	17*	80	2400	110	31*	440	400	7400	3420	13200	10.9	= WAC Preventive Action Limit Exceeded
MW500	08/23/01	Yes	1.4*	1200	120°	1100	<20	900	<20	<40	210*	100*	18000	1480	5800	4900	= WAC Enforcement Standard Exceeded
MW600	08/23/01	Yes	<1.4	<0.10	<0.40	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	<x< td=""><td>= Not detected above laboratory limit of x</td></x<>	= Not detected above laboratory limit of x
PZ700	08/23/01	Yes	<1.4	<0.10	<0.40	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	* or "J"	= Analyte detected between laboratory Limit of Detection (LOD)
WS1700	10/01/01	Yes		80	<0.40	<0.30	<0.10	13	1.1	<0.20	1.6*	1.6	0.28*	5.9	13.45		and Limit of Quantitation (LOQ)
WS1800	10/01/01	Yes	_	<0.10	<0.40	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	PW-1	➤ Neighbor's House Private Potable Well
WS1900	10/01/01	Yes	_	0.11*	<0.40	<0.30	<0.10	<0.10	0.42	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	PW-2	■ Neighbor's Trailer Home Private Potable Well
WS2000	10/01/01	Yes		<5.0	240	<15	<5.0	560	47	<10	190	200	160	1650	2180	-	= not analyzed
MW2100	10/14/02	Yes	3.8	<0.25	<0.65	<0.62	<0.60	<0.53	<0.66	<0.58	<0.63	<0.95	<0.84	<1.33	<1.83	ws	Water Sample collected from Geoprobe boring
MW2200	10/14/02	Yes	ר" פס.ס	120	<0.65	<0.62	<0.60	59	6.2	<0.58	9.6	10	2.3 "J"	98	133	ı	

Table 2, Ground-Water Analytical Results, Former Ackley Amoco, Couderay, Wisconsin

	T		F			Rele	vant an	d Signifi		alytical OCs	Results	(µg/L)				}	
Well ID	Date Sampled	QC Hold Time Met	Lead	Benzene	n-Butylbenzene	sec-Butylbenzene	Disopropyl Ether	Ethylbenzene	Isopropylbenzene	p-lsopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes		
WAC Preventive Action			1.5	0.5	NE	NE	NE	140	NE	NE	8	NE	200	96	1000	1	
WAC Enforcement S	tandard (ES	s) (pg/l)	15	5	NE	NE	NE	700	NE	NE	40	NE	1000	480	10000	Notes:	
Duplicate (MW400)	08/23/01	Yes	_	93	-	_	_	2700	_	_	-	-	8000	3520	13600	VOCs	■ Volatile Organic Compounds
Duplicate (MW2200)	10/14/02	Yes		110	<0.65	<0.62	<0.60	53	4.9	<0.58	7.5	8.7	1.8"J"	96	126	μ g/ 1	= micrograms per liter
Trip Blank	08/23/01	Yes	_	<0.40	_	_	<u> </u>	<0.40	_	-	-	_	<0.40	<0.80	<1.10	NE NE	■ Not Established by Wisconsin Administrative Code (WAC)
	10/14/02	Yes		<0.25	<0.65	<0.62	<0.60	<0.53	<0.66	<0.58	<0.63	<0.95	<0.84	<1.33	<1.83	10.9	WAC Preventive Action Limit Exceeded
PW-1	08/23/01	Yes		<0.10	<0.40	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	4900	WAC Enforcement Standard Exceeded
PW-2	08/23/01	Yes	_	<0.10	<0.40	<0.30	<0.10	<0.10	<0.10	<0.20	<0.70	<0.30	<0.10	<0.50	<0.30	<x< td=""><td>■ Not detected above laboratory limit of x</td></x<>	■ Not detected above laboratory limit of x

* or *J* = Analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

PW-1 = Neighbor's House Private Potable Well

PW-2 = Neighbor's Trailer Home Private Potable Well

-- * not analyzed

WS - Water Sample collected from Geoprobe boring

APPENDIX A

TANK CLOSURE CHECKLISTS AND INVENTORY FORMS

/s5/s5 *** 343109

-UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Bureau of Storage Tank Regulation P O Box 7837 Madison, WI 53707-7837

Send Completed Form To Department of Commerce

Information Required By Section 101.142, Wis. Stats. Madison, WI 53707-7837

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered in supplication.

Officery of the tent of the same tent of the same placed of the same tent	📃 No Hiyes are	by designated in the top you correcting/updatin	riant corner	Have you previously only? Thes The
in Use Closed - Newly Installed Closed - Abandoned with Product Empty) Abandoned Closed - Abandoned Without Abandoned Without Product (empty) Abandoned	Tank Removed Filled with Inert Mat iny Out of Service - Filled With Water	Ownership Cha	•	Fire Department providing fire coverage where tank is located: City Village 57/0 Town of Courleany
A. IDENTIFICATION (Please Print) 1. Tank Site Name Ackley's Hunco City Village X Town of:	Site Address 12264 State	1 Hwy 70 Zip Code	Siana	Site Telephone Number (
Condensy	WI	-547	4 54828	Stuyen
2. Tank Owner Nation Stuyen County	Mailing Address	0×89		Telephone Number
City Village Town of:	State WI	Zip Code	43	County
3. Previous Name	Previous site addr	ess if different than #1	<u> </u>	
B. Site ID# 5057 (Facility ID #:		Cus	tomer ID #:
C 4. Tank Age (age or date installed): /984		5. Tank	Capacity (gall	
D. LAND OWNER TYPE (check one)			,, (3	7300
☐ County ☐ Federal Leased ☐ State	☐ Federal Owner ☐ Tribal Nation	d Municipa	al 🗆	Other Government
E. OCCUPANCY TYPE (check one) Gas/Retail Sales Bulk Storage Utili Agricultural Backup or Emergency Gener		cantile/Commercial] Industrial	School Residential
F. Tank Construction: Bare Steel Coated Steel] Unknown	Gathodic Protection Sacrificial Anode	es Spill Co	Protection? Yes (No potainment? Yes (Protection)
☐ Fiberglass ☐ Steel – Fiberglass Reinfo ☐ Lined (Date): ☐ Other (specify):	rced Plastic Compo	site	ent Tank D	ouble Walled? Yes No
G. Primary Tank leak detection method. Inventory control and tightness testing Manual tank gauging (only for tanks of 1,000 gallons of	☐ Inte	tomatic tank gauging erstitial monitoring Itistical Inventory Reconci	liation (SIR)	Groundwater monitoring Vapor monitoring Unknown
H. Piping Construction: Bare Steel	Unknown	Cathodic Protection ☐ Sacrificial Anode ☐ Impressed Curre	n s Pip	e Double Walled? Yes KNo
L. Primary Piping System Type: Pressurized piping Suction piping with check valve at tank	ng with 😁 A. 🗌 a	iuto shutoff; B. alarm o	r C. flow respectable	Not needed if waste oit
J. Piping Leak Detection Method: (used if pressurized Groundwater monitoring Vapor monitoring	or check valve at tal Interstitial mo		htness testing t required	Electronic line leak monitor Unknown
K. Vapor Recovery/Stage II CARB #: Fiberglass] Flexible	Operational - Prov	ide Date (mo/d	ay/yr):
L. TANK CONTENTS (Current, or previous product i	f tank now empty)	Unleaded	==	d Oil Gasohol
Under (Specify): Empty Waste/Used Motor Oil Chemical		Sand/Gravel/Sl	• ==	tnown*
Indicate Che If chosen, this tank is NOT PECFA eligible.	emical name and num	Geo Latitude:		Geo Longitude:
M. If Tank Closed, Abandoned or Out of Service, give (mo/day/yr):	date	Has a site assessment Yes No	been complet	ed (see reverse side for details)
Owner or Operator Name (please print):	600		Indicate whe	
Owner or Operator Signature:	son	*	Date Signed	
- WALLAGE	//			7,0 - 1

40bj#: 343110

-UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Department of Commerce
Bureau of Storage Tank Regulation
P O Box 7837

Send Completed Form To

Madison, WI 53707-7837 Information Required By Section 101.142, Wis. Stats. Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate 19 11 to 19 11 to 19 to each hamplinted form to the agency designated in the top right corner. Have you previously 19 to 19 t ∠ /es □ No if yes are you correcting/updating information only? □ Yes □ No Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)] his registration applies to a tank that is (check one): Fire Department providing fire ☐ In Use
☐ Newly Installed
☐ Abandoned with Product Closed - Tank Removed coverage where tank is located: Ownership Change (Indicate 57/0 Closed - Filled with Inert Materials City Village new owner name in block 2) Temporary Out of Service - Provide Date: Town of Abandoned without Product (empty) Abandon with Water IDENTIFICATION (Please Print) Tank Site Name Site Address Site Telephone Number Ackleu's Ausco City X Town of: ouderay 2. Tank Owner Name Mailing Address Telephone Number 50. Box 89 County Village Town of 3. Previous Name Previous site address if different than # Site ID #: Facility ID #: Customer ID #: B. 5. Tank Capacity (gallons): 4 Tank Age (age or date installed): D. LAND OWNER TYPE (check one) County Federal Leased ☐ Federal Owned ☐ Other Government ☐ State Private ☐ Tribal Nation OCCUPANCY TYPE (check one) Gas/Retail Sales ☐ Bulk Storage ☐ Utility ■ Mercantile/Commercial ☐ Industrial ☐ School ☐ Residential Other (Specify:) ☐ Agricultural Backup or Emergency Generator Cathodic Protection Overfill Protection? Yes No Tank Construction: Coated Steel ☐ Bare Steet Unknown Sacrificial Anodes Yes No Spill Containment? Fiberglass Steel - Fiberglass Reinforced Plastic Composite Impressed Current Tank Double Walled? Yes No □ N/A Lined (Date): Other (specify). G. Primary Tank leak detection method.

Minventory control and tightness testing Groundwater monitoring Automatic tank gauging ☐ Vapor monitoring Interstitial monitoring Manual tank gauging (only for tanks of 1,000 gallons or less) Statistical Inventory Reconciliation (SIR) Unknown H. Piping Construction: Cathodic Protection Yes X No Pipe Double Walled? Bare Steet Unknown Coated Steel ☐ Sacrificial Anodes Fiberglass ☐ Impressed Current □N/A Flexible Other (specify) ZLN/A I. Primary Piping System Type: 💢 Pressurized piping with 🐃 A. 🗀 auto shutoff; B. 🛄 alarm or C. 🗋 flow restrictor ☐ Unknown Suction piping with check valve at tank ☐ Not needed if waste oil Suction piping with check valve at pump and inspectable ☐ Tightness testing Electronic line leak monitor Piping Leak Detection Method: (used if pressurized or check valve at tank): SIR J. Piping Leak Detection in Groundwater monitoring □ Vapor monitoring Interstitial monitoring ☐ Not required ☑ Unknown K. Vapor Recovery/Stage II CARB#: Fiberglass Other (specify): Flexible Operational - Provide Date (mo/day/yr): TANK CONTENTS (Current, or previous product if tank now empty) X Diesel Unleaded Fuel Oil ☐ Gasohol Leaded Other (Specify): Empty Sand/Gravel/Slurry* Unknown* Premix Waste/Used Motor Oil Chemical Aviation ☐ Hazardous Waste* (Indicate chemical name and number) Geo Longitude: * If chosen, this tank is NOT PECFA eligible. Geo Latitude: Has a site assessment been completed (see reverse side for details) M. If Tank Closed, Abandoned or Qut of Service, give date (mo/day/yr): Yes ☐ No Owner or Operator Name (please print): Indicate whether: Owner or Operator Owner or Operator Signature: Date Signed

343111

-UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Send Completed Form To
Department of Commerce
Bureau of Storage Tank Regulation
P O Box 7837

001 #: 2	ST	ORAGE TANI	K INVEN	NTORY		PO Box 7837	
	Information	Required By Se	ction 101	.142, Wis. Sta	its.	Madison, WI 537	07-7837
underground tanks in Wisconsin that ha	ave stored or c	urrently store per	troleum oi	regulated su	ibstances mu	ist be registere	id. A secarate
그는 그 선생님은 그리고 하는 것이 없는 것이 없는 것이 없는 것이 없다.	and agreement to	are agent	A DESIGNE	ked in the top	riani comer	- mave you but	SVIOUSIV
្តី _{ស្ត្រាស់} ទាក់ ការ rank to summit ng a form	`` X '~> _	No "yes are	You corre	eting/updatin	ig information	ronly? 🗀 Yes	s □ Na
personal information you provide may be use		purposes. [Privac	y Law, s. 1	5 04 (1)(m)]			
rais registration applies to a tank that is (c)						Fire Departmen	
In Use	1	ank Removed		Ownership Cha	- '		e tank is located:
Newly Installed		illed with Inert Mat		new owner nam	ne in block 2)	☐ City ☐ V	fillage 57/0
Abandoned with Product	·	y Out of Service - F	Provide Da	le:	··	Town of	Chuderay
Abandoned without Product (empty)	Abandon	with Water			<u></u>	AG	
A. IDENTIFICATION (Please Print)	ı	Cha Addisses		•			
1. Tank Site Name		Site Address	, , ,	70		Site Telephone	_
Ackley's Amoco		12264	tlu	Zip Code		$(-)$ \mathcal{W}	and
City 1 Village	Town of:	State		Zip Code		Coupty	
Couderay		WI		548	28	Sotwi	1ek
2. Tank Owner Name		Mailing Address	~		<i>2</i>	Telephone Nur	mber
Sawyen County	1	P-d 60x	89			1	
City Village	Town of:	State		Zip Code		County	
-1 L	J rown or.	INT	,	548	11/7	SAWY	a .d
HAYWARD		00-			(4)	JANG	C/C
3. Previóus Name		Previous site addr	ess if diffe	rent than #1		•	
	· l						
B. Site ID#: 5052(Facility ID #:			Cus	stomer ID #:	
	10011	Tacinty ID II.					
C. 4 Tank Age (age or date installed):	1984	·		5. Tanl	Capacity (gal	ions): 1500)
D. LAND OWNER TYPE (check one)		•					
☐ County ☐ Federa	al Leased	Federal Owner	ď	Municipa Municipa	al. 🗀	Other Governm	nent
Private State		☐ Tribal Nation					
E. OCCUPANCY TYPE (check one)							
☐ Gas/Retail Sales ☐ Bulk Storage	Utility		cantile/Con] Industrial	School	Residential
	ergency Genera	tor U Othe	r (Specify:		· 		
F. Tank Construction:		Malanaa		nodic Protection	·	Protection?	Yes No
☐ Bare Steel		Unknown ced Plastic Compo		Sacrificial Anod inpressed Curr		ontainment?	☐ Yes 🗷 No
Lined (Date):	-	ceu riastic Compo		I/A	Tank D	ouble Walled?	Yes X No
G. Primary Tank leak detection method		☐ Aut	tomatic tan			Groundwat	er monitoring
Inventory control and tightness testing			erstitial moi			Vapor mon	itoring
Manual tank gauging (only for tanks of	1,000 gallons or	less) Sta		entory Reconci		Unknown	
H. Piping Construction:			1	odic Protectio	1 13:0	e Double Walled	i? ☐ Yes 🔯 No
⊠ Bare Steel		Unknown		crificial Anode	3	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	
☐ Fiberglass ☐ Flexible ☐ Other (specify)	le	□N/A	₩ N	pressed Curre	m j		
						assistant Dillol	
I, Primary Piping System Type: P Suction piping with check valve at tank		g with 😁 A. 🗌 a					needed if waste oil
J. Piping Leak Detection Method: (used					htness testing		ic line leak monitor
	monitoring	Interstitial mo			t required	₩ Unknow	
K. Vapor Recovery/Stage II CARB #:							
☐ Fiperglass ☐ Other (speci	ify):	Flexible	☐ Ope	erational - Prov	ride Date (mo/d	lay/yr):	
L. TANK CONTENTS (Current, or prev		tank now empty)					
Diesel	Leaded		(\$4)	Jnleaded	Fue	l Oil 🔲 G	asohol
Otner (Specify):	_			Sand/Gravel/SI	lumy* 🗍 Uni	known* ∏P	remix
Waste/Used Motor Oil .	Chemica	, 	=	Kerosene	. ==		azardous Waste*
	اسسبا	nical name and num					
* If chosen, this tank is NOT PECFA eligit	•	[Geo Latit	ude:		Geo Longitude	
M. If Tank Closed, Abandoned or Out of		date	Has a sit	assessment	been comple	ed (see reversi	e side for details)
(mo/day/ýr):	_		m) .	<u> </u>			
6/20/02			X Yes	☐ No			
Owner or Operator Name (please print)	: 1	~			Indicate whe		
	くりめい	e ()150	$\hat{}$		Owner o	r 🖊 Operato	r
Owner or Operator Signature:	11 2				Date Signed	16,1	· · · · · · · · · · · · · · · · · · ·
	Nale					00000	12
						•	

CHIPPEWA 715 723 2153 12/20/02 01:52pm P. 001 **·UNDERGROUND** Sena Completed Form To Department of Commerce FLAMMABLE/COMBUSTIBLE LIQUID Bureau of Storage Tank Regulation :# زمری PO Box 7837 STORAGE TANK INVENTORY Madison, WI 53707-7837 Information Required By Section 101.142, Wis. Stats. Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15 04 (1)(m)] In Use Closed - Tank Removed Fire Department providing fire 🔲 In Use Ownership Change (Indicate coverage where tank is located: Newly Installed Closed - Filled with Inert Materials ☐ City ☐ Village new owner name in block 2) Abandoned with Product Temporary Out of Service - Provide Date: **| Town of** Abandoned without Product (empty) Abandon with Water IDENTIFICATION (Please Print) Tank Site Name Site Address Site Telephone Number ☐ Village nuderay Tank Owner Name Mailing Addres Telephone Number hox 89 State Zip Code County Town of: Previous Name Previous site address if different than #1 5052 Site ID # Facility ID #: Customer ID #: 8 4 Tank Age (age or date installed) 5. Tank Capacity (gallons): 700 n D. LAND OWNER TYPE (check one) ☐ Federal Leased ☐ Federal Owned ☐ Municipal ☐ Other Government ☑ Private ☐ State ☐ Tribal Nation E. OCCUPANCY TYPE (check one) ■ Bulk Storage Industrial School ☐ Residential ☐ Backup or Emergency Generator Other (Specify:) ☐ Agricultural Tank Construction: Cathodic Protection Overfill Protection? Yes No ☐ Coated Steel ☐ Unknown ☐ Steel – Fiberglass Reinforced Plastic Composite M-Bare Steel Sacrificial Anodes Yes No Spill Containment? Impressed Current ☐ Fiberglass Tank Double Walled? Yes No Other (specify): ☑ N/A Lined (Date): Automatic tank gauging G. Primary Tank leak detection method: Groundwater monitoring ☐ Interstitial monitoring
☐ Statistical Inventory Reconciliation (SIR) Inventory control and tightness testing Vapor monitoring T Unknown Manual tank gauging (only for tanks of 1,000 gallons or less) H. Piping Construction: Cathodic Protection Pipe Double Walled? Yes 🔼 No ☐ Bare Steel Coated Steel ☐ Unknown ☐ Sacrificial Anodes Fiberglass ☐ Impressed Current ☐ Flexible □N/A Other (specify) Copput N/A

☐ Pressurized piping with 😁 A. 🗌 auto shutoff; B. 🗌 alarm or C. 🔲 flow restrictor

Suction piping with check valve at pump and inspectable

Interstitial monitoring

Flexible

(Indicate chemical name and number)

Leaded

] Empty

Chemical

☐ SIR

Unleaded

☐ No

Geo Latitude:

Yes

M. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): Owner or Operator Name (please print):

J. Piping Leak Detection Method: (used if pressurized or check valve at tank):

TANK CONTENTS (Current, or previous product if tank now empty)

Other (specify):

☐ Vapor monitoring

1. Primary Piping System Type:

Groundwater monitoring

Fiberglass

Other (Specify):

☐ Waste/Used Motor Oil

Owner or Operator Signature:

Diesel

Suction piping with check valve at tank

K. Vapor Recovery/Stage II CARB#:

* If chosen, this tank is NOT PECFA eligible.

Sand/Gravel/Slurry* Unknown* Premix Hazardous Waste* Aviation

Indicate whether:

Owner or

Date Signed

K Fuel Oil

Kerosene

Operational - Provide Date (mo/day/yr):

Tightness testing

Not required

Geo Longitude: Has a site assessment been completed (see reverse side for details)

02

Gasohol

☐ Unknown

🖄 Unknown

Operator

Not needed if waste oil

Electronic line leak monitor

Complete one form for each site closure.

The information you provide may be used for secondary purposes [Privacy Law, s.15.04;(1)(m)].

CHECKLIST FOR TANK CLOSURE



FOR PORTIONS OF THE FORM THATS
DO NOT APPLY, CHECK THE N/A BOX BELOW

RETURN COMPLETED CHECKLIST TO:

Wisconsin Department of Commerce ERS Division

Bureau of Storage Tank Regulation P.O. Box 7837

Madison, WI 53707-7837

A. IDI	ENTIFICATION:	(Please Print)	Indicate wheth	er closure is f	or: X Tank Syste	m Tank On	ly Piping Only
	te Name	Amoco			Owner Name	\mathcal{T}	
Site St	reet Address (not P				SAWYCA CO.	1 MY	
	12264	Hwy 16	7			89	o destrue application de della d Della della del
Cit	oudern	☐ Village	∑ Town	of:	□ City, □ Village サイチャルチャル	☐ Town of:	State Zip Code
State	VI	Zip Code	County	NVEK C	Stuyex	Telephone No. (I	nclude area code)
3. Clg	sure Company Nam	ne (parit)		Closuse Compa	ny Street Address		
	e Company Telepho				po X (07) py,City, State, Zip Code		
(7 ₁	5) 83/	8489		EAU (TAIN WI	54702	
4. Nan	ne of Company Per		¥ 14		mpany Street Address, Cit	Contraction (1)	New Const
Toloob	one No. (include ar	1713 CO	rtifled Assessor Nam		SSessor Signature - (July Fix	or Certification No.
()			Tribo Assessor Nam		Do S Ll		1160
	Tank ID#	Closure	Temp. Closure	Closure in Plac	ce Tank Capacity	Contents*	Closure Assessment
	343109	Ŭ, Ž,			1500	Leaded	N □ XX
	743110	Į Į			1000	Dicsel	N □ Y
3	343111	\(\overline{\text{\ti}\text{\texi{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}\\ \tittt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}}\tint{\text{\text{\text{\text{\text{\texi}}\tittt{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\ti}\text{\text{\text{\text{\text{\texi}\text{\text{\texi}}\tittt{\text{\text{\text{\text{\text{\texi}\tint{\text{\tin}}\			« 1500	Untraded	N □ Y
4.		Į Ų			1000	Fuel Oil	DN □ Y
					l; Aviation Fuel; Keros	ene; Premix; Was	
	nmable/Combust 3 number(s)	ible Hazardous	Waste; Chemical (i				snd
				; Othe			·
					closure date		AY DN DNA
							Y ON ONA
	k applicable box MPORARILY OL		onse to all stater	nents in Sectio	ns B-E.	-	mover Inspector NA Verified
			- orary closure obtai	ned, which		. vali uz v	Jimed Vermed
	effective until (pr	•					Y ON O
1.	Product Remove						
					liquid removed, AND		Y HN H H
			n of suction line, O		4/2000 000000000000000000000000000000000	/-/\	Y DN D D
2					etum lines capped.		Y IN II
3.	All product lines	at the islands or	pumps located el	sewhere are rem	noved and capped. OR		
4,.	Dispensers/pum	ps left in place t	out locked and pow	er disconnected	noved and capped OR		Y ON O
5.	Vent lines left op	oen. 流					
6.	Inventory form fi	led indicating ter	mporary closure	***************************************			Y
C. CL					Company of the Compan		
1.	OSURE BY REM	IOVAL				机热热压力 人名科勒德奇尔	
2.	OSURE BY REN Product from pip	IOVAL ing drained into	tank (or other con	tainer)			Y DN D
~ .	Product from pip Piping disconnec	ing drained into	tank (or other con	tainer)			Y ON O
3.	Product from pip Piping disconnect All liquid and res	ing drained into sted from tank a idue removed fr	om tank using exp	losion proof pun	nps or hand pumps	<u>D</u>	
3. 4.	Product from pip Piping disconnect All liquid and res All pump motors	ing drained into cted from tank a idue removed fr and suction hos	om tank using exp ses bonded to tank	losion proof pun or otherwise gr	nps or hand pumps		Y
3. 4. 5.	Product from pip Piping disconnect All liquid and res All pump motors Fill pipes, gauge NOTE: DROP T	ing drained into cted from tank a idue removed fr and suction hos pipes, vapor re UBE SHOULD	om tank using exp ses bonded to tank covery connection NOT BE REMOVE	losion proof pun for otherwise grassible p s, submersible p D IF THE TANK	nps or hand pumps ounded oumps and other fixtures (IS TO BE PURGED T	s removed	Y
3. 4. 5.	Product from pip Piping disconnect All liquid and res All pump motors Fill pipes, gauge NOTE: DROP T	ing drained into cted from tank a idue removed fr and suction hos pipes, vapor re UBE SHOULD	om tank using exp ses bonded to tank covery connection NOT BE REMOVE	losion proof pun for otherwise grassible p s, submersible p D IF THE TANK	nps or hand pumps ounded oumps and other fixtures (IS TO BE PURGED T	s removed	Y
3. 4. 5. 6. 7.	Product from pip Piping disconner All liquid and res All pump motors Fill pipes, gauge NOTE: DROP T Vent lines left co Tank openings to	ing drained into cted from tank a idue removed from tank and suction hos pipes, vapor re UBE SHOULD innected until talemporarily plugg	om tank using exp ses bonded to tank covery connection NOT BE REMOVE nks purged ged so vapors exit	losion proof pun for otherwise grass, submersible po D IF THE TANK through vent	nps or hand pumps ounded oumps and other fixture: (IS TO BE PURGED TI	removed D	Y ON O O O O O O O O O O O O O O O O O O
3. 4. 5. 6. 7. 8.	Product from pip Piping disconner All liquid and res All pump motors Fill pipes, gauge NOTE: DROPT Vent lines left co Tank openings to Tank atmospher	ing drained into cted from tank a idue removed from tank a idue removed from tank and suction hos pipes, vapor re UBE SHOULD innected until talemporarily pluggereduced to 10	om tank using exposes bonded to tank covery connection. NOT BE REMOVE nks purged	lesion proof pun for otherwise grass, submersible po D IF THE TANK through vent	nps or hand pumpsounded	removed D	Y ON O O O O O O O O O O O O O O O O O O
3. 4. 5. 6. 7. 8.	Product from pip Piping disconner All liquid and res All pump motors Fill pipes, gauge NOTE: DROP T Vent lines left co Tank openings to Tank atmospher Tank removed fr	ing drained into cted from tank a idue removed from tank a idue removed from tank and suction hos pipes, vapor re UBE SHOULD innected until talemporarily pluggereduced to 10 com excavation a	om tank using exposes bonded to tank covery connection. NOT BE REMOVE nks purged	Losion proof pun for otherwise great, submersible points DIF THE TANK through vent, nmable range (LERTING; placed	nps or hand pumps ounded oumps and other fixture: (IS TO BE PURGED TI	s removed	Y ON O O O O O O O O O O O O O O O O O O

APPENDIX B

WDNR WELL CONSTRUCTION FORMS

	Watershed/Wastewater Remediation/Redevelopment	Waste Management [X] Other	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Remediation/Redevelopment Local Grid Location of Well Location		Well Name
ACKLEY AMOCO	r <u> </u>	K	MW-310c
Facility License, Permit or Monitoring No.	Local Grid Origin X (estimate LatL	ed: 🔲) or Well Location 🔲	.
Facility ID	St. Plane ft. N.	•	Date Well Installe 9/_/10/_/2002
	Section Location of Waste/Sour	œ	m m d d y y y y
Type of Well Well Code11/_mw	1/4 of 1/4 of Sec Location of Well Relative to Wa		Well Installed By: Name (first, last) and Firm JONES BEAUFORD
Distance from Waste/ Enf. Stds.		Sidegradient Gov. Lot Number	GILES ENGINEERING ASSOC. INC.
Source n Apply _	d 🗆 Downgradient n 🗆		-
A. Protective pipe, top elevation	ft.MSL	1. Cap and lock?	X Yes □ No
B. Well casing, top elevation	ft. MSL	2. Protective cover	• •
S. Hell training, any statement	l I	a. Inside diamete b. Length;	er: 8in. 1ft.
	fLMSL	c. Material:	Steel IX 04
D. Surface seal, bottom ft. MS	SLor ft.	N. S.	Other 🗆 💮
12. USCS classification of soil near scree	n:	d. Additional pr	
GP GM GC GW G	SW 🗆 SP 🔲	If yes, describ	EXPANDABLE CAP
SM SC ML MH	стосно 🕌	3, Surface scal:	Bentonite 🗖 30
Bedrock			Concrete D 01
	Yes IX No	CONCRETE	Other IX
1	stary 🗆 50	4. Material betwee	n well casing and protective pipe:
Hollow Stem A	uger IX 41		Bentonite IX 30
	ALLEY LI WOOD		Other D
15. Drilling fluid used: Water [] 02	Air 🗆 01	5. Armular space s	mud weightBentomite-sand slurry \(\square\) 35
Drilling Mud □ 0 3		bLos/gai	mud weight Bentonite slurry 3 3
		d % Bento	nite Bentonite-cement grout 50
16. Drilling additives used?	Yes IX No	150 F	volume added for any of the above
1		f. How installe	
Describe			Tremie pumped □ 02
17. Source of water (attach analysis, if req	uired):		Gravity 🛘 08
		6. Bentonite seal:	a. Bentunite granules [33
T.D	0.5	b. 11/4 in.	X3/8 in. 11/2 in. Bentonite chips IX 32
E. Bentonite seal, topft. MS	SL 67 _ 0.5 1L	C.——	Other 🗆 🎬
F. Fine sand, top ft. MS	SL or _ 6fL	b. □1/4 in. □ c. □ 7. Fine sand mater a. 45-55 RED F	ial: Manufacturer, product name & mesh size
G. Filter pack, top ft. M.	SL or _8ft	158	
O. I file: pack, top	1200-1	b. Volume adde	rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	SL or _ 10 ft	a 30 RED FLIN	T AMERICAN MATERIALS
I. Well bottom ft. M	SL or _20 ft.	b. Volume add 9. Well casing:	Flush threaded PVC schedule 40 [X 23
J. Filter pack, bottom ft. M.			Flush threaded PVC schedule 80 24 Other Other
		10. Screen material	
K. Borehole, bottom ft. M	SL or _ 20 ft.	a. Screen type:	Factory cut 🔲 11
L. Borehole, diameter8.25_ in.			Other X
M. O.D. well casing _ 2.35_ in.	•	b. Manufacture c, Slot size:	r TIMCO
in.		d. Slotted leng	
N. I.D. well casing _ 2 in.		11. Backfill materi	al (below filter pack): None [X 14
I hereby certify that the information on thi	s form is true and correct to the l	rest of my knowledge	Other 🗆 🔯
Signature	Firm	ASLOT III'S KITOMICUEC	
Timeth Ruly	GILES F	ENGINEERING ASSOC. INC.	

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

	Vatershed/Wastewater Remediation/Redevelopment	Waste Management [X] Other	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name ACKLEY AMOCO	Remediation/Redevelopment Local Grid Location of Well	N	Well Name MW-2200
Facility License, Permit or Monitoring No.	Local Grid Origin X (estima	ited: 🔲) or Well Location 🗆	1
Facility ID	Lat, ft. N	·	
Type of Well	Section Location of Waste/Sou 1/4 of 1/4 of Sec.		<u> </u>
Well Code 11 / mw	Location of Well Relative to W		JONES BEAUFORD
Distance from Waste/ Enf. Stds. Sourceft. Apply _	u 🗆 Upgradient s 🗆	Sidegradient Not Known	GILES ENGINEERING ASSOC. INC.
A. Protective pipe, top elevation	ft_MSL	1. Cap and lock?	IX Yes □ No
B. Well casing, top elevation	fLMSL	2. Protective cover	
_,,,,,,	11	b. Length:	er: 8 _{in.} 1 _{ft.}
	ft.MSL	c. Material:	Steel IXI 04
D. Surface seal, bottom ft. MS	2/20/20/20/20		Other 🛘 💆
12. USCS classification of soil near scree			rotection? X Yes No
GP GM GC GW SM SM SC ML ML MH G		If yes, descri	be: EXPANDABLE CAP
Bedrock 🗆		3. Surface scal:	Bentonite 🔲 30 Concrete 🖾 01
13. Sieve analysis performed?	Yes X No tary : 50 uger X 41 ther 01 None 099 Yes X No	CONCRETE	Other IX
14. Drilling method used: Ro	tary : 50	4. Material between	en well casing and protective pipe:
Hollow Stem A	uger X 41		Bentonite IX 30
	other 🗆 🧱	———	Other 🗆 🏥
15. Drilling fluid used: Water: 02	Air □ 01	5. Annular space	scal: a. Granular/Chipped Bentonite IX 3 3
Drilling Mud 🗆 0 3	None D 99		mud weight Bentonite-sand slurry □ 35 mud weight Bentonite slurry □ 31
Í		cLosyga	mite Bentonite-cement grout \Box 50
16. Drilling additives used?	Yes IX No		i 3 volume added for any of the above
Describe		f. How installe	
17. Source of water (attach analysis, if req	uired):		Tremie pumped 🔲 02
,,===,		6. Bentonite scal:	Gravity ☐ 08 a. Bentunite granules ☐ 33
	 \	KXXX	X3/8 in. □1/2 in. Bentonite chips X 32
E. Bentonite seal, topft. M.	SL or _ 0.5 ft.	/ c	Other 🛘 💥
F. Fine sand, top ft. M	SL or _ 7 ft.	PEXY3 /	rial: Manufacturer, product name & mesh size
G 777		45-55 RED F	
G. Filter pack, top ft. M	SL or _9 ft.	b. Volume add	
H. Screen joint, top ft. M	SL or _ 11 ft.	30 RED FLI	erial: Manufacturer, product name & mesh size NT AMERICAN MATERIALS
I. Well bottom	SL or _21ft.	b. Volume add 9. Well casing:	Flush threaded PVC schedule 40 [X 23
J. Filter pack, bottomft. M			Flush threaded PVC schedule 80 24 Other
•		10. Screen materia	
K. Borehole, bottom	SL or _ 21 ft.	a. Screen type	E Factory cut ☐ 11 Continuous slot ☐ 01
L. Borehole, diameter 8.25_ in.			Other IX
M. O.D. well casing _ 2.35_ in.	•	b. Manufactum c. Slot size:	in.
N. I.D. well casing _ 2 in.		\ d. Slotted leng	ial (below filter pack): None X 14
The state of the s			Other 🗆 💥
I hereby certify that the information on thi	s form is true and correct to the	best of my knowledge.	
Smith R. I.	el GILES	ENGINEERING ASSOC. INC.	

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

APPENDIX C

WDNR WELL DEVELOPMENT FORMS

State of Wisconsin Department of Natural Resources

City/State/Zip: Rhinelander

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Rudie to: Watershed/	Wastew	vater	Waste Management			
	n/Rede	velopment[X]	Other			
Facility/Project Name		County Name		Well Name		
Former Ackley Amoco			SAWYER	<u> </u>	MW2100	
Facility License, Permit or Monitoring Number		County Code 58	Wis. Unique Well No	umber	DNR Wel	1 ID Number
1. Can this well be purged dry?	☐ Yes	s X No	11. Depth to Water	Before Dev	velopment	After Development
2. Well development method			(from top of	13.88	ft	_13.9 ft.
surged with bailer and bailed	□ 4	1	well casing)		***	
surged with bailer and pumped	□ 6					
surged with block and bailed	4		Date	L 9/ /18/	, 200	2 9/ 1/8/ 12002
surged with block and pumped	□ 6			mm d	$\frac{1}{y} \frac{y}{y} \frac{y}{y}$	$\frac{2}{y} = \frac{9}{m} / \frac{18}{d} / \frac{2}{y} = \frac{0}{y} = \frac{2}{y}$
surged with block, bailed and pumped	0 7					
compressed air	□ 2	0	Time	c. <u>11</u> : _2	3 ☐ p.m.	$12 : 16 \stackrel{\square}{\times} \text{a.m.}$
bailed only		0	*			•
pumped only	X 5	1	12. Sediment in well	_1	inches	0.5 inches
pumped slowly	□ 5	.0	bottom			
Other			13. Water clarity	Clear [7] 1 Turbid IX 1		Clear (X 20 Turbid □ 25
3. Time spent developing well	45	min.		(Describe) Muddy		(Describe) Clear
4. Depth of well (from top of well casisng)	20	ft.				
5. Inside diameter of well	2	in.				
Volume of water in filter pack and well casing	6.1	gal.	Fill in if drilling fluid	ds were used a	and well is a	at solid waste facility:
7. Volume of water removed from well	50	gal.				mg/l
8. Volume of water added (if any)		gal.	solids		6/1	
9. Source of water added			15. COD		mg/l	mg/l
			16. Well developed I	by: Name (first.	last) and Firm	2
10. Analysis performed on water added? (If yes, attach results)	□ Ye	s □ No	First Name: Share	-		e: Moquin
1.44			Firm: Northern E	Invironmental		<u> Maria ya sana</u>
Name and Address of Facility Contact /Owner/Res	-	e Party	I hereby certify th	-	nformation	is true and correct to the best
Facility/Firm: WDNR			Signature:	han /	1.	Noquin
Street: 107 Sutliff Avenue			Print Name: Shan!	M. Moquin		the same that th

Northern Environmental

54501-

Firm:

WI

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/V			Waste Management	t		
	n/Redev	velopment [X]	Other 🔲			
Facility/Project Name		County Name		Well Name	***	
Former Ackley Amoco			SAWYER		MW2200	
Facility License, Permit or Monitoring Number		County Code 58	Wis. Unique Well N	lumber	DNR Wel	1 ID Number
1. Can this well be purged dry?	□ Yes	X No	11. Depth to Water			After Development
2. Well development method			(from top of	15.66	ft.	
surged with bailer and bailed	□ 4°	1	well casing)			
surged with bailer and pumped	6	1	:			
surged with block and bailed	4 :	2	Date	b 9/ /18/	1200	$\frac{2}{y} \frac{9}{m} \frac{18}{m} \frac{2}{d} \frac{2}{y} \frac{2}{y} \frac{2}{y}$
	□ 6:	2		mm d	<u>d'yyy</u>	y mm ddyyyy
	7	0		10 1	X a.m.	X a.m.
	□ 2	0	Time	c. 10 : 1	<u>2</u> □ p.m.	11_: 09 X a.m.
						-
	X 5	1	12. Sediment in well	<u> </u>	inches	0.5 inches
		200	bottom			
			13. Water clarity	Clear 1 Turbid X 1	_	Clear IX 20 Turbid 25
		min.		(Describe) Muddy		(Describe) Clear
	21				-	
5. Inside diameter of well	2	in.				
6. Volume of water in filter pack and well casing	5.3	gal.	Fill in if drilling flui	ids were used a	and well is a	at solid waste facility:
7. Volume of water removed from well	50	gal.				mg/l
8. Volume of water added (if any)	<u>-</u>	gal.	solids		'''8/1	mgr
9. Source of water added			15. COD	<u> </u>	mg/l	mg/l
			16. Well developed	hy: Name (first	last) and Fire	· · · · · · · · · · · · · · · · · · ·
10. Analysis performed on water added? (If yes, attach results)	☐ Ye	s 🛭 No	First Name: Sha			e: Moquin
, ,,			Firm: Northern F	Environmental		
17. Additional comments on development:						
Name and Address of Facility Contact/Owner/Resp First Bill Last Name: Schult		Party	I hereby certify the of my knowledge		nformation i	is true and correct to the best
Facility/Firm: WDNR			Signature:	dan /	VI /	Voguin
Street: 107 Sutliff Avenue	···		Print Name: Shan	M. Moquin 😘 🖰		,
City/State/Zip: Rhinelander W	VI 5	34501-	Firm: North	ern Environme	ental	

APPENDIX D WELL DEVELOPMENT SUMMARY SHEETS

WELL DEVELOPMENT SUMMARY

PROJECT:

SAW04-2300-0458

WELL NUMBER:

MW2100

LOCATION:

COUDERAY, WISCONSIN

WELL LOCATION:

PERSONNEL:

SMM

RISER ELEVATION:

1257.38

GROUND ELEVATION:

1257.66

Date	Time	Method	Volume (gallons)	Final Appear	Temp.	pH (su)	Conduct µmho/cm	HNu (ppm)	Comments
09/18/02	1153	PR PUMP	30.00	1		7.7	340		
09/18/02	1158	PR PUMP	35.00	1		7.6	340		-
09/18/02	1203	PR PUMP	40.00	1	•••	7.5	340	·	
09/18/02	1207	PR PUMP	45.00	1		7.4	340		
09/18/02	1211	PR PUMP	50.00	1		7.4	340		
						•			
			ļ						
				-					
Tot	al Gallo	ns Purged =	50:00						
METHOD :		PVC Point Source Stainless steel poi			lor	APPEARA	NCE: 1 =	Clear	
	DSP BAIL:	Disposable Bailer Bladder pump	in source or	staffuafu Dal	IICI		2 =	Slightly Cloudy	
	C PUMP:	Centrifugal pump	with PVC hos	ses			3 = 4 =	Cloudy Very Cloudy	
		Peristaltic pump Submerged piston	nume				5 = 6 =	Cloudy - Muddy Muddy	
	PR PUMP:	Purge pump					0 = 7 =	Muddy Very Muddy	
CONDUCT	= Specific (Conductance (mho/	cm) at ambie	nt temperati	ıre				

WELL DEVELOPMENT SUMMARY

PROJECT:

SAW04-2300-0458

WELL NUMBER:

MW2200

LOCATION:

COUDERAY, WISCONSIN

WELL LOCATION:

1259.14

PERSONNEL:

SMM

RISER ELEVATION: **GROUND ELEVATION:**

1259.41

Date	Time	Method	Volume (gallons)	Final Appear	Temp. ° F	pH (su)	Conduct µmho/cm	HNu (ppm)	Comments
09/18/02	1048	PR PUMP	30.00	11		9.0	660		
09/18/02	1052	PR PUMP	35.00	11	•	8.0	640		-
09/18/02	1058	PR PUMP	40.00	1		7.8	620		
09/18/02	1103	PR PUMP	45.00	1		7.6	620		
09/18/02	1107	PR PUMP	50.00	11		7.4	610		
	· · · · · · · · · · · · · · · · · · ·			_					
						<u> </u>			
			<u> </u>				ļ		
		<u></u>							
Tot	al Gallo	ns Purged =	50.00						

METHOD = PVC BAIL: PVC Point Source or standard bailer

SS BAIL: Stainless steel point source or standard bailer

DSP BAIL: Disposable Bailer

B PUMP: Bladder pump

C PUMP: Centrifugal pump with PVC hoses

PC PUMP: Peristaltic pump

PI PUMP: Submerged piston pump

PR PUMP: Purge pump

CONDUCT = Specific Conductance (mho/cm) at ambient temperature

APPEARANCE:

Clear 1 =

2 = Slightly Cloudy

3 = Cloudy

Very Cloudy 4 = 5 = Cloudy - Muddy

Muddy 6 =

7 = Very Muddy

APPENDIX E WATER LEVEL DATA SHEETS

WATER LEVEL DATA

Project:

SAW04-2300-0458

Well Number:

MW2100

Location:

COUDERAY, WISCONSIN

Well Location:

1257.38

Personnel:

SMM

Riser Elevation:

Ground Elevation: 1257.66

Date Time		Measuring	Depth	Water Leve	Comments	
		Device	(ft. below top of riser)	Depth (ft. below grade)	Elevation . (ft. sd)	
09/18/02	1123	SWLP	13.88	14.16	1243.50	Pre Development
09/18/02	1216	SWLP	13.90	14.18	1243.48	Post Development
10/14/02	1353	SWLP	13.07	13.35	1244.31	<u></u>
						-
		·				
			:		·	
leasuring Devi	ce:	SWLP: Solonist Water OWLP: Olympic Water TAPE: Steel or Fibergl	Level Probe	· · · · · · · · · · · · · · · · · · ·		

NOTE: All water level elevations are referenced to site datum.

WATER LEVEL DATA

Project:

SAW04-2300-0458

Well Number:

MW2200

Location:

COUDERAY, WISCONSIN

Well Location:

Personnel:

SMM

Riser Elevation:

1259.14

Ground Elevation:

1259.41

Date	Time	Measuring	Depth	Depth Water Level		Comments
		Device	(ft. below top of riser)	Depth (ft. below grade)	Elevation . (ft. sd)	. <u> </u>
09/18/02	1012	SWLP	15.66	15.93	1243.48	Pre Development
09/18/02	1109	SWLP	15.67	15.94	1243.47	Post Development
10/14/02	1419	SWLP	14.83	15.10	1244.31	<u></u>
						·
						-
			-	•		
						
					-:	

NOTE: All water level elevations are referenced to site datum.

APPENDIX F

GROUND-WATER MONITORING WELL INFORMATION FORM

GROUNDWATER MONITORING WELL INFORMATION FORM Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility				Fac	lity I	ID Number	License	, Pern	nit or Monitori					ted By (Name a							
Form	er Ackley A	Amoco									13/01		Sha	n M. Moquin N	orthern Env	vironment	al	:			
WI	T	DNR			ir.	-	Well	Casing				rence		Depths		Screen	Well	Well	Enf.	Grad-	Distance
Unique Well No	Well Name	Well ID Number	Well Location	N E	S W	Date Established	Diam.	Туре	Top of Well Casing	Ground Surface	MSL (√)	Site Datum (V)	Screen Top	Initial Groundwater	Well Depth	Length	Туре	Status			to Waste
-	<u> </u>			П			†				1	<u> </u>						1			
				Н			Ĺ.,				l				۱	1	l	١.	۱.,		
P1821	MW100			Н	- -	8/6/01	2	P	1259.09	1259.37	X	-	8.5	15.91	17	10	11/mw	A	X		
				Н	_								1								
P1822	MW200	<u> </u>		П	8	8/6/01	2	P	1258.7	1259.04	X		9.5	15.51	17	10	11/mw	A	Х		<u> </u>
				Ц	_								=								
P1823	PZ300		•		8	8/6/01	2	P	1259.14	1259.43	X		31	16	35	5	12/pz	A	X		
			-	Ц	_									+							
PI824	MW400			Ц	8	8/7/01	2	P	1259.07	1259.44	Х		11	15.9	20	10	11/mw	A	X		
						·					i							1			
PI825	MW500				8	8/7/01	2	P	1258.71	1259.27	X_		11	15.55	20	10	11/mw	A	X		
PI826	MW600				8	8/7/01	2 :	P	1259	1259.68	X		11	15.8	20	10	11/mw	A	x		
				П	1																
PI827	PZ700			П	ا 8	8/7/01	2	P	1259.26	1259.66	X		29.5	16.05	34	5	12/pz	A	x		
			·	H	寸.	. 1 1	,		_		.7				4	,	/				
	WM3100			П	79	7/10/02	2	ρ	1257,38	1257.66	X		10	13.88	20	10	11/mw	A	X		•
	nw2200					V10/02	2	٩	1259.14	1259.41	X		11	10//	21	امَا	11/mw	A	χ		
	MW 440C			П	۳	Molos			אוין כאון	الاس المسا	1		''	15.66	01	10	mw	$ \pi $	^		
				П																	
				П	╗																
				П	7													•			
				П	十																
				H	7											;					
	Coordinat				Grid (Origin Locatio	n: (C	heck if	estimated:)		R	emarks:					السسسسا			
	te Plane Co		Local Grid System	4		45 • 47	. 46		_ 91	• 18 · 15		.	. —								
	☐ Central ☐ Southe	i							Long. 91							•					
	500000			S	t. Pla	anc	f	L N.		ft.E. S/C	JN Z	one -						•			

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

APPENDIX G GROUND-WATER ANALYTICAL REPORTS

1241 Believue Street Green Bay, WI 54302 920-469-2436 800-7-ENCHEM Fax: 920-469-8827

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: MW2100

Lab Sample Number: 827166-001

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead	3.8	0.060	0.19		ug/L		11/6/02	SW846 3020	SW846 6020	ccr

Organic Results

EPA 8260 VOLATILE LIST- WA	Pre	p Method:	SW846 5030B	Prep Date:	10/17/02	Analyst: JSF	
Analyte	Result	LOD	LOQ	EQL Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80	ug/L		10/17/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4	ug/L		10/17/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1	ug/L		10/17/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73	ug/L		10/17/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4	ug/L		10/17/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8	ug/L		10/17/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0	ug/L		10/17/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1	ug/L		10/17/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1	ug/L		10/17/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5	ug/L		10/17/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4	ug/L		10/17/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8	ug/L		10/17/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7	ug/L		10/17/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7	ug/L		10/17/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86	ug/L		10/17/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1	ug/L		10/17/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8	ug/L		10/17/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8	ug/L		10/17/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1	ug/L		10/17/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4	ug/L		10/17/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8	ug/L		10/17/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63 .	0.63	2.0	ug/L		10/17/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8	ug/L		10/17/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3	ug/L		10/17/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8	ug/L		10/17/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6	ug/L		10/17/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8	ug/L		10/17/02	SW846 8260B

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458 Client: NORTHERN ENVIRONMENTAL

Field ID: MW2100

Lab Sample Number: 827166-001 Collection Date: 10/14/02

WI DNR LAB ID: 405132750

Matrix Type: WATER

Report Date: 11/6/02

						•		
trans-1,2-Dichloroethene	<	0.80	0.80	2.5	ug/L		10/17/02	SW846 8260B
1,2-Dichloropropane	<	0.39	0.39	1.2	ug/L		10/17/02	SW846 8260B
1,1-Dichloroethane	<	0.87	0.87	2.8	ug/L		10/17/02	SW846 8260B
1,3-Dichloropropane	<	0.62	0.62	2.0	ug/L		10/17/02	SW846 8260B
2,2-Dichloropropane	<	0.99	0.99	3.2	ug/L		10/17/02	SW846 8260B
1,1-Dichloropropene	<	0.79	0.79	2.5	ug/L		10/17/02	SW846 8260B
cis-1,3-Dichloropropene	<	0.57	0.57	1.8	ug/L		10/17/02	SW846 8260B
trans-1,3-Dichloropropene	<	0.64	0.64	2.0	ug/L		10/17/02	SW846 8260B
Diisopropyl ether	<	0.60	0.60	1.9	ug/L		10/17/02	SW846 8260B
Ethylbenzene	<	0.53	0.53	1.7	ug/L		10/17/02	SW846 8260B
Fluorotrichloromethane	<	0.85	0.85	2.7	ug/L		10/17/02	SW846 8260B
Hexachlorobutadiene	<	0.95	0.95	3.0	ug/L		10/17/02	SW846 8260B
Isopropylbenzene	<	0.66	0.66	2.1	ug/L		10/17/02	SW846 8260B
p-Isopropyltoluene	<	0.58	0.58	1.8	ug/L		10/17/02	SW846 8260B
Methylene chloride	<	0.47	0.47	1.5	ug/L		10/17/02	SW846 8260B
Methyl-tert-butyl-ether	<	0.87	0.87	2.8	ug/L		10/17/02	SW846 8260B
Naphthalene	<	0.63	0.63	2.0	ug/L		10/17/02	SW846 8260B
n-Propylbenzene	<	0.95	0.95	3.0	ug/L		10/17/02	SW846 8260B
Styrene	<	0.62	0.62	2.0	ug/L	&	10/17/02	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.77	0.77	2.5	ug/L		10/17/02	SW846 8260B
1,1,1,2-Tetrachloroethane	<	0.95	0.95	3.0	ug/L		10/17/02	SW846 8260B
Tetrachloroethene	· <	0.63	0.63	2.0	ug/L		10/17/02	SW846 8260B
Toluene	<	0.84	0.84	2.7	ug/L		10/17/02	SW846 8260B
1,2,3-Trichlorobenzene	<	0.77	0.77	2.5	ug/L		10/17/02	SW846 8260B
1,2,4-Trichlorobenzene	<	0.57	0.57	1.8	ug/L		10/17/02	SW846 8260B
1,1,1-Trichloroethane	<	0.65	0.65	2.1	ug/L		10/17/02	SW846 8260B
1,1,2-Trichloroethane	<	0.50	0.50	1.6	ug/L		10/17/02	SW846 8260B
1,2,4-Trimethylbenzene	· <	0.69	0.69	2.2	ug/L		10/17/02	SW846 8260B
Trichloroethene	<	0.39	0.39	1.2	ug/L		10/17/02	SW846 8260B
1,2,3-Trichloropropane	<	0.92	0.92	2.9	ug/L		10/17/02	SW846 8260B
1,3,5-Trimethylbenzene	<	0.64	0.64	2.0	ug/L		10/17/02	SW846 8260B
Vinyl chloride	<	0.11	0.11	0.35	ug/L		10/17/02	SW846 8260B
Xylenes, -m, -p	<	1.1	1.1	3.5	ug/L		10/17/02	SW846 8260B
Xylene, -o	<	0.73	0.73	2.3	ug/L		10/17/02	SW846 8260B
4-Bromofluorobenzene		99			%Recov		10/17/02	SW846 8260B
Dibromofluoromethane		105			%Recov		10/17/02	SW846 8260B
Toluene-d8		109		•	%Recov		10/17/02	SW846 8260B

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: MW2200

Lab Sample Number: 827166-002

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Lead	0.090	0.060	0.19		ug/L	Q	11/6/02	SW846 3020	SW846 6020	ccr

Organic Results

EPA 8260 VOLATILE LIST- WATER		Pre	p Method:	SW846 5030B	Prep Date:	10/17/02 An	alyst: JSF
Analyte	Result	LOD	LOQ	EQL Units	Code	Analysis Date	Analysis Method
Benzene	120	0.25	0.80	ug/L		10/17/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4	ug/L		10/17/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1	ug/L		10/17/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73	ug/L		10/17/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4	ug/L		10/17/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8	ug/L		10/17/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0	ug/L		10/17/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1	ug/L		10/17/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1	ug/L		10/17/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5	ug/L		10/17/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4	ug/L		10/17/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8	ug/L		10/17/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7	ug/L		10/17/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7	ug/L		10/17/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86	ug/L		10/17/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1	ug/L		10/17/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8	ug/L		10/17/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8	ug/L		10/17/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1	ug/L		10/17/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4	ug/L		10/17/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8	ug/L		10/17/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0	ug/L		10/17/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8	ug/L	-	10/17/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3	ug/L		10/17/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8	ug/L		10/17/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6	ug/L		10/17/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8	ug/L		10/17/02	SW846 8260B

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: MW2200

Lab Sample Number: 827166-002

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

					•		
trans-1,2-Dichloroethene	< 0.8	0.80	2.5	ug/L		10/17/02	SW846 8260B
1,2-Dichloropropane	< 0.3	0.39	1.2	ug/L		10/17/02	SW846 8260B
1,1-Dichloroethane	< 0.8	0.87	2.8	ug/L		10/17/02	SW846 8260B
1,3-Dichloropropane	< 0.6	0.62	2.0	ug/L		10/17/02	SW846 8260B
2,2-Dichloropropane	< 0.9	9 0.99	3.2	ug/L	ug/L		SW846 8260B
1,1-Dichloropropene	< 0.7	9 0.79	2.5	ug/L	ug/L		SW846 8260B
cis-1,3-Dichloropropene	< 0.5	57 0.57	1.8	ug/L		10/17/02	SW846 8260B
trans-1,3-Dichloropropene	< 0.6	64 0.64	2.0	ug/L		10/17/02	SW846 8260B
Diisopropyl ether	< 0.6	0.60	1.9	ug/L		10/17/02	SW846 8260B
Ethylbenzene	59	0.53	1.7	ug/L		10/17/02	SW846 8260B
Fluorotrichloromethane	< 0.8	35 0.85	2.7	ug/L		10/17/02	SW846 8260B
Hexachlorobutadiene	< 0.9	95 0.95	3.0	ug/L		10/17/02	SW846 8260B
Isopropylbenzene	6.2	0.66	2.1	ug/L		10/17/02	SW846 8260B
p-Isopropyitoluene	< 0.5	58 0.58	1.8	ug/L		10/17/02	SW846 8260B
Methylene chloride	< 0.4	17 0.47	1.5	ug/L		10/17/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.8	37 0.87	2.8	ug/L		10/17/02	SW846 8260B
Naphthalene	9.6	0.63	2.0	ug/L		10/17/02	SW846 8260B
n-Propylbenzene	10	0.95	3.0	ug/L		10/17/02	SW846 8260B
Styrene	< 0.6	62 0.62	2.0	ug/L	&	10/17/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.7	77 0.77	2.5	ug/L		10/17/02	SW846 8260B
1,1,1,2-Tetrachloroethane	< 0.9	95 0.95	3.0	ug/L		10/17/02	SW846 8260B
Tetrachloroethene	< 0.6	63 0.63	2.0	ug/L		10/17/02	SW846 8260B
Toluene	2.3	3 0.84	2.7	ug/L	Q ·	10/17/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.7	77 0.77	2.5	ug/L		10/17/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.9	57 0.57	1.8	ug/L		10/17/02	SW846 8260B
1,1,1-Trichloroethane	< 0.0	65 0.65	2.1	ug/L		10/17/02	SW846 8260B
1,1,2-Trichloroethane	< 0.	50 0.50	1.6	ug/L		10/17/02	SW846 8260B
1,2,4-Trimethylbenzene	98	0.69	2.2	ug/L	, .	10/17/02	SW846 8260B
Trichloroethene	< 0.3	39 0.39	1.2	ug/L		10/17/02	SW846 8260B
1,2,3-Trichloropropane	< 0.9	92 0.92	2.9	ug/L		10/17/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.0	64 0.64	2.0	ug/L		10/17/02	SW846 8260B
Vinyl chloride	< 0.	11 0.11	0.35	ug/L		10/17/02	SW846 8260B
Xylenes, -m, -p	10	00 1.1	3.5	_ ug/L	-	10/17/02	SW846 8260B
Xylene, -o	33	0.73	2.3	ug/L		10/17/02	SW846 8260B
4-Bromofluorobenzene	99)		%Recov		10/17/02	SW846 8260B
Dibromofluoromethane	10)4		%Recov		10/17/02	SW846 8260B
Toluene-d8	10	06		%Recov		10/17/02	SW846 8260B

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458 Client: NORTHERN ENVIRONMENTAL

Field ID: DUP

Report Date: 11/6/02 Lab Sample Number: 827166-003 Collection Date: 10/14/02

WI DNR LAB ID: 405132750 Matrix Type: WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER		Pre	Prep Method: SW846 5030B			Prep Date:	10/18/02 An	alyst: HW
Analyte	Result	LOD	LOD LOQ		Units	Code	Analysis Date	Analysis Method
Benzene	110	0.25	0.80		ug/L		10/18/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		10/18/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1		ug/L		10/18/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		10/18/02	SW846 8260B
Bromoform ·	< 0.45	0.45	1.4		ug/L		10/18/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8		ug/L		10/18/02	SW846 8260B
-Butylbenzene	< 0.62	0.62	2.0		ug/L		10/18/02	SW846 8260B
Butylbenzene	< 0.96	0.96	3.1		úg/L		10/18/02	SW846 8260B
ı-Butylbenzene	< 0.65	0.65	2.1		ug/L		10/18/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		10/18/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		10/18/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		10/18/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		10/18/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7		ug/L		10/18/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		10/18/02	SW846 8260B
-Chlorotoluene	< 0.66	0.66	2.1		ug/L		10/18/02	SW846 8260B
-Chlorotoluene	< 0.89	0.89	2.8		ug/L		10/18/02	SW846 8260B
,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		10/18/02	SW846 8260B
,2-Dibromoethane	< 0.66	0.66	2.1		ug/L	* ·	10/18/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4		ug/L		10/18/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L	. '•'.	10/18/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		10/18/02	SW846 8260B
,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		10/18/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		10/18/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		10/18/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6		ug/L		10/18/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L	-	10/18/02	SW846 8260B
rans-1,2-Dichloroethene	< 0.80	0.80	2.5	•	ug/L		10/18/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2		ug/L		10/18/02	SW846 8260B
I,1-Dichloroethane	< 0.87	0.87	2.8		ug/L		10/18/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		10/18/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		10/18/02	SW846 8260B

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: DUP

Lab Sample Number: 827166-003

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

						•					
1,1-Dichloropropene	<	0.79	0.79	2.5	ug/L		10/18/02	SW846 8260B			
cis-1,3-Dichloropropene	<	0.57	0.57	1.8	ug/L		10/18/02	SW846 8260B			
rans-1,3-Dichloropropene	<	0.64	0.64	2.0	ug/L		10/18/02	SW846 8260B			
Diisopropyl ether	<	0.60	0.60	1.9	ug/L		10/18/02	SW846 8260B			
Ethylbenzene		53	0.53	1.7	ug/L		10/18/02	SW846 8260B			
Fluorotrichloromethane	<	0.85	0.85	2.7	ug/L		10/18/02	SW846 8260B			
Hexachlorobutadiene	<	0.95	0.95	3.0	ug/L		10/18/02	SW846 8260B			
Isopropylbenzene		4.9	0.66	2.1	ug/L		10/18/02	SW846 8260B			
p-Isopropyltoluene	<	0.58	0.58	1.8	ug/L		10/18/02	SW846 8260B			
Methylene chloride	<	0.47	0.47	1.5	ug/L		10/18/02	SW846 8260B			
Methyl-tert-butyl-ether	<	0.87	0.87	2.8	ug/L		10/18/02	SW846 8260B			
Naphthalene		7.5	0.63	2.0	ug/L		10/18/02	SW846 8260B			
n-Propylbenzene		8.7	0.95	3.0	ug/L		10/18/02	SW846 8260B			
Styrene	<	0.62	0.62	2.0	ug/L	&	10/18/02	SW846 8260B			
1,1,2,2-Tetrachloroethane	<	0.77	0.77	2.5	ug/L		10/18/02	SW846 8260B			
1,1,1,2-Tetrachloroethane	<	0.95	0.95	3.0	ug/L		10/18/02	SW846 8260B			
Tetrachloroethene	<	0.63	0.63	2.0	ug/L		10/18/02	SW846 8260B			
Toluene		1.8	0.84	2.7	ug/L	Q	10/18/02	SW846 8260B			
1,2,3-Trichlorobenzene	<	0.77	0.77	2.5	ug/L		10/18/02	SW846 8260B			
1,2,4-Trichlorobenzene	<	0.57	0.57	1.8	ug/L		10/18/02	SW846 8260B			
1,1,1-Trichloroethane	<	0.65	0.65	2.1	ug/L		10/18/02	SW846 8260B			
1,1,2-Trichloroethane	<	0.50	0.50	1.6	ug/L		10/18/02	SW846 8260B			
1,2,4-Trimethylbenzene		96	0.69	2.2	ug/L		10/18/02	SW846 8260B			
Trichloroethene	<	0.39	0.39	1.2	ug/L		10/18/02	SW846 8260B			
1,2,3-Trichloropropane	<	0.92	0.92	2.9	ug/L		10/18/02	SW846 8260B			
1,3,5-Trimethylbenzene	<	0.64	0.64	2.0	ug/L		10/18/02	SW846 8260B			
Vinyl chloride	<	0.11	0.11	0.35	ug/L		10/18/02	SW846 8260B			
Xylenes, -m, -p		97	1.1	3.5	ug/L		10/18/02	SW846 8260B			
Xylene, -o		29	0.73	2.3	ug/L		10/18/02	SW846 8260B			
4-Bromofluorobenzene		105			%Recov		10/18/02	SW846 8260B			
Dibromofluoromethane		115			%Recov		10/18/02	SW846 8260B			
Toluene-d8		110			%Recov		10/18/02	SW846 8260B			

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: TRIP

Lab Sample Number: 827166-004

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

Organic Results

EPA 8260 VOLATILE LIST- WATER		Pro	ep Method:	SW846 5030B	Prep Date:	10/18/02 Ana	alyst: HW
Analyte	Result LOD LOQ EQL Units Code					Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80	ug/L		10/18/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4	ug/L		10/18/02	SW846 8260B
Bromochloromethane	< 0.67	0.67	2.1	ug/L		10/18/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73	ug/L		10/18/02	SW846 8260B
Bromoform	< 0.45	0.45	1.4	ug/L		10/18/02	SW846 8260B
Bromomethane	< 0.87	0.87	2.8	ug/L		10/18/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0	ug/L		10/18/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1	ug/L		10/18/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1	ug/L		10/18/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5	ug/L		10/18/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4	ug/L		10/18/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8	ug/L		10/18/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7	ug/L		10/18/02	SW846 8260B
Chloroethane	< 0.84	0.84	2.7	ug/L		10/18/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86	ug/L		10/18/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1	ug/L		10/18/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8	ug/L		10/18/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8	ug/L		10/18/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1	ug/L		10/18/02	SW846 8260B
Dibromomethane	< 0.74	0.74	2.4	ug/L		10/18/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8	ug/L		10/18/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0	ug/L		10/18/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8	ug/L		10/18/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3	ug/L		10/18/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8	ug/L		10/18/02	SW846 8260B
cis-1,2-Dichloroethene	< 0.81	0.81	2.6	ug/L		10/18/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8	ug/L		10/18/02	SW846 8260B
trans-1,2-Dichloroethene	< 0.80	0.80	2.5	ug/L		10/18/02	SW846 8260B
1,2-Dichloropropane	< 0.39	0.39	1.2	ug/L		10/18/02	SW846 8260B
1,1-Dichloroethane	< 0.87	0.87	2.8	ug/L		10/18/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0	ug/L	ug/L		SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2	ug/L		10/18/02	SW846 8260B
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- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

Field ID: TRIP

Lab Sample Number: 827166-004

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Report Date: 11/6/02

Collection Date: 10/14/02

Matrix Type: WATER

						•		
1,1-Dichloropropene	< (0.79	0.79	2.5	ug/L		10/18/02	SW846 8260B
cis-1,3-Dichloropropene	< (0.57	0.57	1.8	ug/L		10/18/02	SW846 8260B
trans-1,3-Dichloropropene	< (0.64	0.64	2.0	ug/L		10/18/02	SW846 8260B
Diisopropyl ether	< 1	0.60	0.60	1.9	ug/L		10/18/02	SW846 8260B
Ethylbenzene	< (0.53	0.53	1.7	ug/L		10/18/02	SW846 8260B
Fluorotrichloromethane	<	0.85	0.85	2.7	ug/L		10/18/02	SW846 8260B
Hexachlorobutadiene	< (0.95	0.95	3.0	ug/L		10/18/02	SW846 8260B
Isopropylbenzene	<	0.66	0.66	2.1	ug/L		10/18/02	SW846 8260B
p-Isopropyltoluene	<	0.58	0.58	1.8	ug/L		10/18/02	SW846 8260B
Methylene chloride	<	0.47	0.47	1.5	ug/L		10/18/02	SW846 8260B
Methyl-tert-butyl-ether	<	0.87	0.87	2.8	ug/L		10/18/02	SW846 8260B
Naphthalene	<	0.63	0.63	2.0	ug/L		10/18/02	SW846 8260B
n-Propylbenzene	<	0.95	0.95	3.0	ug/L		10/18/02	SW846 8260B
Styrene	<	0.62	0.62	2.0	ug/L	&	10/18/02	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.77	0.77	2.5	ug/L		10/18/02	SW846 8260B
1,1,1,2-Tetrachloroethane	<	0.95	0.95	3.0	ug/L		10/18/02	SW846 8260B
Tetrachloroethene	<	0.63	0.63	2.0	ug/L		10/18/02	SW846 8260B
Toluene	<	0.84	0.84	2.7	ug/L		10/18/02	SW846 8260B
1,2,3-Trichlorobenzene	<	0.77	0.77	2.5	ug/L		10/18/02	SW846 8260B
1,2,4-Trichlorobenzene	<	0.57	0.57	1.8	ug/L		10/18/02	SW846 8260B
1,1,1-Trichloroethane	<	0.65	0.65	2.1	ug/L		10/18/02	SW846 8260B
1,1,2-Trichloroethane	<	0.50	0.50	1.6	ug/L		10/18/02	SW846 8260B
1,2,4-Trimethylbenzene	<	0.69	0.69	2.2	ug/L		10/18/02	SW846 8260B
Trichloroethene	<	0.39	0.39	1.2	ug/L		10/18/02	SW846 8260B
1,2,3-Trichloropropane	<	0.92	0.92	2.9	ug/L		10/18/02	SW846 8260B
1,3,5-Trimethylbenzene	<	0.64	0.64	2.0	ug/L		10/18/02	SW846 8260B
Vinyl chloride	<	0.11	0.11	0.35	ug/L		10/18/02	SW846 8260B
Xylenes, -m, -p	<	1.1	1.1	3.5	ug/L		10/18/02	SW846 8260B
Xylene, -o	<	0.73	0.73	2.3	ug/L		10/18/02	SW846 8260B
4-Bromofluorobenzene		99			%Recov		10/18/02	SW846 8260B
Dibromofluoromethane		114			%Recov		10/18/02	SW846 8260B
Toluene-d8		107			%Recov		10/18/02	SW846 8260B

Organic Data Qualifiers

В	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
С	Elevated detection limit.
D	Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
E	Analyte concentration exceeds calibration range.
F	Surrogate results outside control criteria.
Н	Extraction or analysis performed past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection limit may be elevated due to the presence of an unrequested analyte.
N	Spiked sample recovery not within control limits.
P	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	The analyte was not detected above the reporting limit.
W	Sample received with headspace.
X	See Sample Narrative.
&	Laboratory Control Spike recovery not within control limits.
*	Duplicate analyses not within control limits.
SUB1	Assay was subcontracted to an approved lab.
SUB2	Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.



Corporate Office & Laboratory
1241 Bellevue Street, Suite 9 • Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827 • 800-7-ENCHEM www.enchem.com

- Analytical Report -

Project Name: COUDERAY, WI

Project Number: SAW04-2300-0458

WI DNR LAB ID: 405132750

Client: NORTHERN ENVIRONMENTAL

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
827166-001	MW2100	10/14/02			
827166-002	MW2200	10/14/02			
827166-003	DUP	10/14/02			
827166-004	TRIP	10/14/02			-

Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

11/06/02

En Chem, Inc. Cooler Receipt Log Project Name or IDSAW09 - 2300 - 0458 No. of Coolers: _/ A. Receipt Phase: Date cooler was opened: 10-16-02 By: 201 NO² 2. Was there a Temperature Blank?.....YES NO. 3: Were custody seals present and intact? (Record on COC)......YES (NO) NO² 5: Does this Project require quick turn around analysis?......YES 6: Is there any sub-work?.....YES 7: Are there any short hold time tests?......YES 8: Are any samples nearing expiration of hold-time? (Within 2 days)......YES1 (ОИ Contacted by/Who 9: Do any samples need to be Filtered or Preserved in the lab?...... YES1 NO Contacted by/Who_ B. Check-in Phase: Date samples were Checked-in: 16-02 1: Were all sample containers listed on the COC received and intact?.....YES NO² NO NO² NO NA 5: Do samples have correct chemical preservation?......(YES) NO2 NA 6: Are dissolved parameters field filtered?.....YES NO2 NO² NO2 NA 9: Enter samples into logbook. Completed......(ES NO NO 11: Complete Laboratory Tracking Sheet (LTS). Completed......YES NO 12: Start Nonconformance form.YES NO NO 13: Initiate Subcontracting procedure, Completed......YES 14: Check laboratory sample number on all containers and COC. U NO Short Hold-time tests:

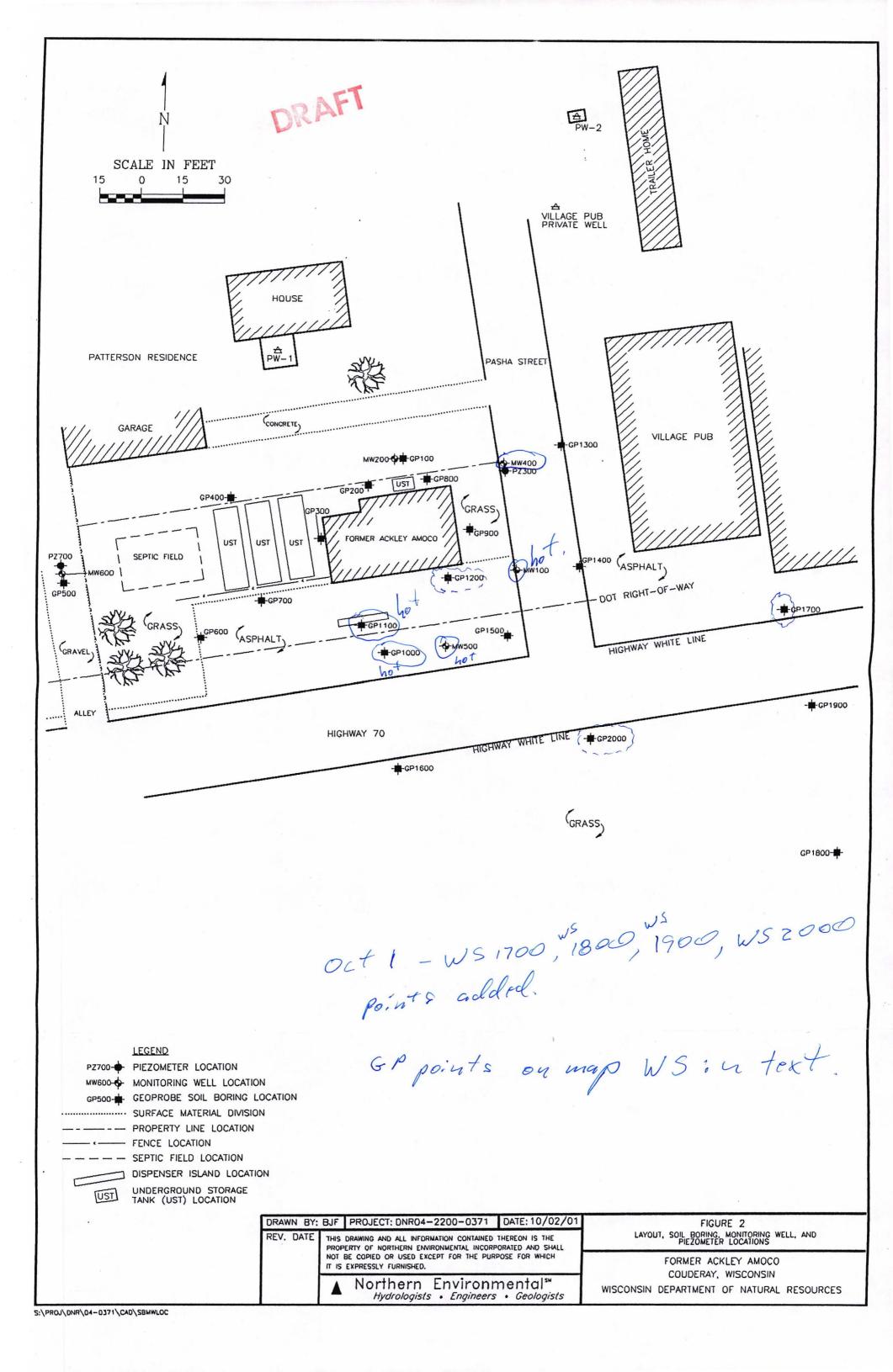
48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
Surfactants Sulfite	Aqueous Extractable Organics- ALL Unpreserved VOC's	
En Core Preservation Color	Ash	

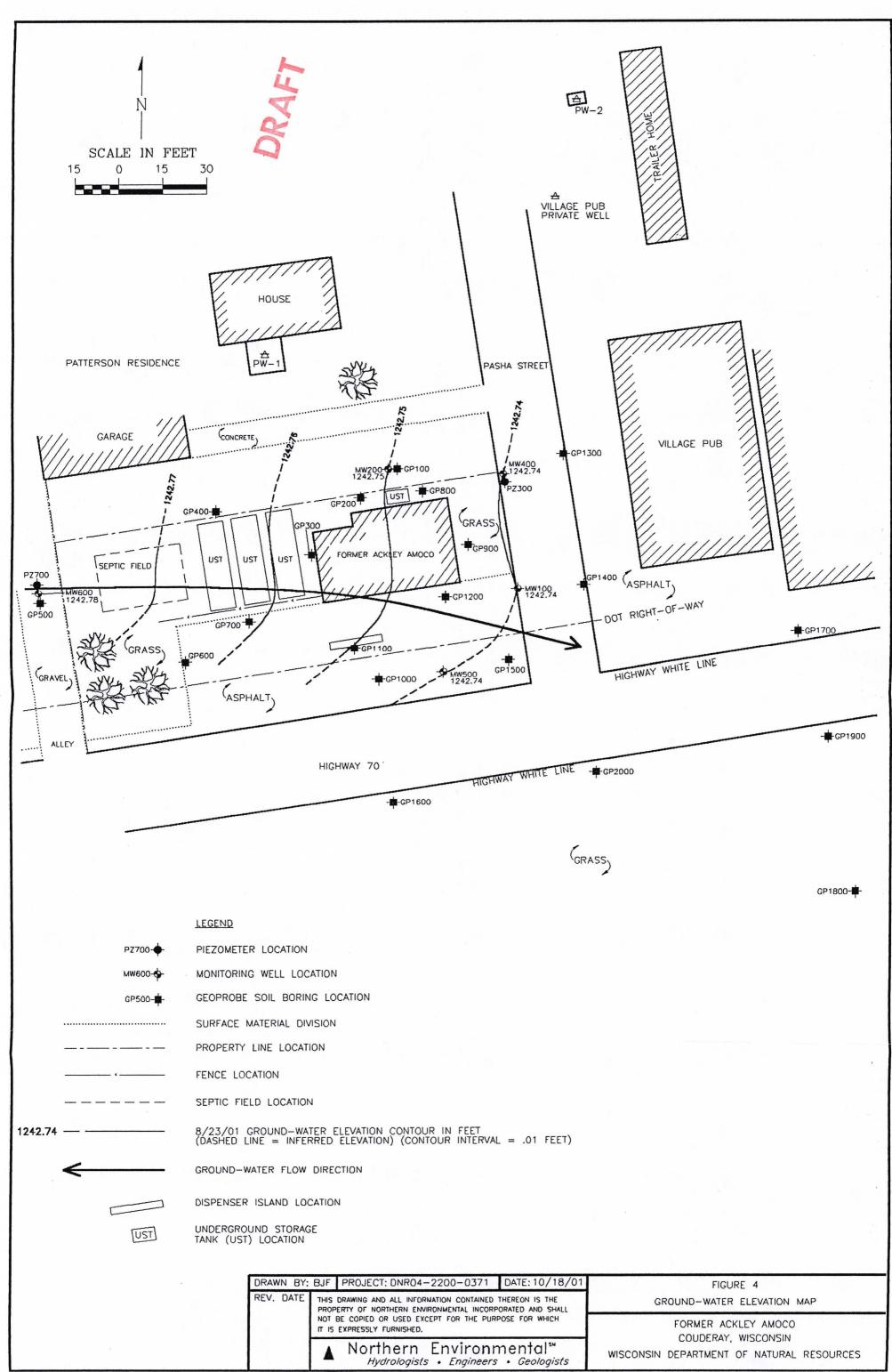
Rev. 9/5/2001, Attachment to 1-REC-5. Subject to QA Audit.

Reviewed by/date C210 11/32

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PHASE I AND PHASE II SITE INVESTIGATION REPORT

FORMER ACKLEY AMOCO **12264 HIGHWAY 70 COUDERAY, WISCONSIN 54828**

(WDNR ID #03-58-000380) (FID #858120450)

October 24, 2001

Prepared For:

Mr. Bill Schultz, Project manage
107 Sutliff Avenue Rhinelander, Wisconsin 54501

(715) 365-8965

Prepared By:

Northern Environmental Technologies, Incorporated 330 South 4th Avenue Park Falls, Wisconsin 54552 (715) 762-1544

Project Number: DNR04-2200-0371

Barbara J. Flietner, PG Staff Geologist/Hydrogeologist Timothy J. McCormick District Director



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1.0 EXECUTIVE SUMMARY

Northern Environmental Technologies Incorporated (Northern Environmental) has completed a Phase I and Phase II Site Investigation in the vicinity of the Former Ackley Amoco, 12264 Highway 70, Couderay, Wisconsin (the Site). A gasoline service station formerly operated at the Site. Four underground storage tanks (USTs) are located at the Site. In 1979 and 1992, private wells east of the Site were impacted by petroleum contaminants. Several private wells were relocated or replaced. In March 2001, the Wisconsin Department of Natural Resources (WDNR) solicited bids for a Phase I and Phase II Site Investigation (SIs) to be conducted in the vicinity of the Site. The SIs were to include a records/historical review, an asbestos and magnetometer survey, and a subsurface investigation.

On July 11, 2001, Northern Environmental was contracted to perform the SIs. Existing data was reviewed to identify recognized environmental conditions within the vicinity of the Site. Northern Environmental contracted EcoSearch Environmental Resources, Inc. (EcoSearch) to perform a records search of federal and state databases for nearby potential environmental concerns. Well logs for the Village of Couderay were requested from the Wisconsin Geological and Natural History Survey. Northern Environmental contracted Chris Dupré (asbestos inspector AI-01755) to perform an inspection of the building and to identify, inventory, and collect suspect asbestos samples for laboratory analysis. A limited magnetometer survey was conducted at the Site by Northern Environmental to aid in location of the on-site USTs and to determine if any unsuspected anomalies existed at the Site.

Sixteen soil borings (GP100 through Gp1600) were completed at the Site on August 6 and 7, 2001. The soil borings were completed to assess the petroleum release in soils at the Site. Five monitoring wells (MW100, MW200, MW400, MW500, and MW600) and two piezometers (PZ300 and PZ700) were installed on August 6 and 7, 2001. The monitoring wells and piezometers were used to determine the extent of the petroleum impact to the ground water. Northern Environmental collected ground-water samples from all monitoring wells and two adjacent private potable wells (PW-1 and PW-2) on August 23, 2001. On October 1, 2001, a GeoprobeTM was used to collect ground-water samples from four water sample locations (WS1700, WS1800, WS1900, and WS2000). Ground-water samples were analyzed for volatile organic compounds (VOCs) and lead.

A release appears to have originated from the UST system located at the Site. Petroleum-contaminated soil is evident within the vicinity of the fueling island and within the southeast portion of the Site. Up-gradient monitoring wells and piezometers do not contain significant petroleum compounds therefore indicating that the Site is the likely source of the petroleum-contaminated ground water to the east-southeast of the Site.



2.0 INTRODUCTION AND BACKGROUND

Northern Environmental Technologies Incorporated (Northern Environmental) has completed a Phase I and Phase II Site Investigation in the vicinity of the Former Ackley Amoco, 12264 Highway 70, Couderay, Wisconsin (the Site). The Site location is shown on Figure 1. The Site is located in the northwest quarter of the northeast quarter of Section 12, Township 38 north, Range 8 west (45 degrees, 47 minutes, and 46 seconds north latitude; 91 degrees, 18 minutes, and 16 seconds west longitude) in Couderay, Sawyer County, Wisconsin.

A gasoline service station formerly operated at the Site. Four underground storage tanks (USTs) are located at the Site. In 1979 and 1992, private wells east of the Site were impacted by petroleum contaminants. Several private wells were relocated or replaced. In March 2001, the Wisconsin Department of Natural Resources (WDNR) solicited bids for a Phase I and Phase II Site Investigation (SIs) to be conducted in the vicinity of the Site. The SIs were to include a records/historical review, an asbestos and magnetometer survey, and a subsurface investigation.

On July 11, 2001, Northern Environmental was contracted to perform the SIs. The following report presents and interprets the data collected during the SIs.



3.0 METHODS OF INVESTIGATION

Investigative methods employed to evaluate the Site conditions included conducting a records/historical review, an asbestos and magnetometer survey, and a subsurface investigation. The subsurface investigation consisted of advancing soil borings, collecting soil samples, installing monitoring wells and piezometers, collecting ground-water samples, and characterizing local hydrogeologic conditions at the Site.

3.1 Phase I Site Assessment

Existing data was reviewed to identify recognized environmental conditions within the vicinity of the Site. Local physiography, geology, and hydrology were evaluated by reviewing topographic maps (USGS, Couderay 1971) and geologic and hydrogeologic publications (Mickelson, et al., 1984).

The Wisconsin Department of Commerce (WDCOMM) on-line tank database was contacted to determine if any petroleum storage tanks were registered at the Site (WDCOMM, 2001). Northern Environmental contracted EcoSearch Environmental Resources, Inc. (EcoSearch) to perform a records search of federal and state databases for nearby potential environmental concerns. The EcoSearch Government Records Search is included in Appendix A1. Well logs for the Village of Couderay were requested from the Wisconsin Geological and Natural History Survey. Well logs are included in Appendix A2.

3.2 Asbestos, Magnetometer, and Demolition Survey

Northern Environmental contracted Chris Dupré (asbestos inspector AI-01755) to perform an inspection of the building and to identify, inventory, and collect suspect asbestos samples for laboratory analysis. A written report from Chris Dupré is included as Appendix B1.

A simple magnetometer survey was conducted at the Site by Northern Environmental to aid in location of the on-site USTs and to determine if any unsuspected anomalies existed at the Site.

3.3 Soil

Sixteen soil borings (GP100 through Gp1600) were completed at the Site on August 6 and 7, 2001. The soil borings were completed to assess the condition of soils on-site and within the vicinity of the Site. The location of the soil borings are shown on Figure 2. Specific soil samples were selected for field screening and laboratory analysis to confirm or deny the presence of petroleum compounds. The field screening results were used to select soil samples for laboratory analysis. Seventeen soil samples were laboratory analyzed for volatile organic compounds (VOCs) and lead. Soil exploration boring, field screening, and sample collection methods are described in Appendix B2. The WDNR soil boring logs are included in Appendix B3. The WDNR borehole abandonment forms are included as Appendix B4.

3.4 Ground Water

Five monitoring wells (MW100, MW200, MW400, MW500, and MW600) and two piezometers (PZ300 and PZ700) were installed on August 6 and 7, 2001. The monitoring wells and piezometer were constructed to determine the extent of the petroleum impact to the ground water and were installed and developed in accordance with NR141 Wisconsin Administrative Code ground-water monitoring well requirements (WDNR, 1992). Monitoring well and piezometer locations are shown on Figure 2. Northern Environmental collected



ground-water samples from all monitoring wells and two adjacent private potable wells (PW-1 and PW-2) on August 23, 2001. On October 1, 2001, a GeoprobeTM was used to collect ground-water samples from four water sample locations (WS1700, WS1800, WS1900, and WS2000). Ground-water samples were analyzed for VOCs and lead. Northern Environmental correlated the monitoring well and piezometer elevations to mean sea level on August 9, 2001. The monitoring wells and piezometer were used to determine the depth to ground water, ground-water flow direction, and ground-water quality.

Monitoring well construction, development, and sample collection methods are described in Appendix B5. The WDNR monitoring well construction forms are included in Appendix B6. The WDNR well development forms and well development summary sheets are included in Appendices B7 and B8, respectively. The WDNR ground-water monitoring well information form is included as Appendix B9.



4.0 RESULTS OF INVESTIGATION

4.1 Phase I Site Assessment

Historical data indicates that the Site has been owned and operated as a gasoline service station by the Ackley family and the Standard Oil Company since approximately 1952. Prior to 1952 the Site was privately owned. According to the WDCOMM online tank database (July 2001), three USTs (one 1500-gallon leaded gasoline, one 1000-gallon diesel, and one 1500-gallon unleaded gasoline) are registered to the Site. A site reconnaissance confirmed the presence of the three registered USTs and discovered an unregistered fuel oil or waste oil UST directly north of the Amoco building. The Site is served with public electricity, telephone, and storm sewer and has a private septic system. Local residences receive water from private potable wells. A private potable well at the Site was not inspected. The Site consists of one building (the Amoco station), and is 65% unvegetated (building, concrete, etc.) and 35% vegetated (grass and trees). The Site is bounded by Highway 70 and vacant land to the south, a gift shop/residence to the west, a residence to the north, and a tavern\restaurant to the east.

The EcoSearch report identified the Site as a registered LUST site, and noted two additional LUST sites within a ¼-mile radius of the Site. Four registered RST sites were noted within a ¼-mile radius, and one SWF site was noted within a 1-mile radius of the Site.

4.2 Asbestos, Magnetometer, and Demolition Survey

The limited magnetometer survey conducted at the Site identified the locations of the registered USTs and the suspected unregistered fuel oil or waste oil UST north of the building. The magnetometer survey did not result in locating additional areas of concern.

The asbestos and demolition survey conducted by Chris Dupré identified possible PCB light ballasts, fluorescent light bulbs, and suspect materials (sheetrock ceilings and walls). Five bulk samples were collected from the sheetrock ceilings/walls and analyzed for asbestos. Laboratory analysis of the bulk samples did not indicate asbestos. Bulk asbestos analytical reports are included as Appendix B10.

4.3 Hydrogeology

The results of the SI indicated that one native stratigraphic soil unit is present in the upper 16 feet of soils at the Site. The native stratigraphic unit consists of a sandy glacial till associated with the Copper Falls Formation (Mickelson, 1984). Depth to bedrock is anticipated to be less than 50 feet below grade (fbg). A geologic cross-section is included as Figure 3. The soil type encountered is described below:

Sand (Till): The till unit consists of up to sixteen feet of red-brown medium to coarse grained sand with some rounded fine to medium gravel and layers of silt at the surface and eight fbg.

Ground-water elevation data indicates that the water table ranges from 15.5-16.5 fbg on-site. Ground-water flow during the SI was typically to the east-southeast. Information obtained during the SI shows that there is an approximate horizontal hydraulic gradient of 2.3 x 10⁻⁴ feet per foot across the Site. Water level measurement methods are included as Appendix B11 and water level data summary sheets are included as Appendix B12. The August 23, 2001 ground-water elevation map is included as Figure 4.



4.4 Soil

Field screening of soil samples collected during the SI produced photoionization detector (PID) responses up to 989 instrument units as isobutylene (iui). Elevated field screening results were noted from soil borings GP400, GP500, GP800, GP900, GP1000, GP1100, GP1200, and GP1500.. Field screening from all other soil borings did not indicate significant volatile vapor concentrations. Field screening results from the SI are summarized in Table 1.

Laboratory analysis of soil samples indicated petroleum compound concentrations above Chapter NR 720 Residual Contaminant Levels (RCLs) in soil borings GP900, GP1000, GP1100, and GP1200. Soil borings GP1000 and GP1100 indicated petroleum compound concentrations above Chapter NR 746 Table 1 values. Soil samples from borings GP100 through GP800 and GP1300 through GP1600 did not contain contaminant concentrations above WDNR RCLs or Chapter NR746 Table 1 and Table 2 values. Laboratory analytical results were used to determine the extent of petroleum compounds in soil. Laboratory analytical results of SI soil samples are summarized in Table 2. Copies of the laboratory analytical reports for soil samples are included in Appendix B13.

4.5 Ground Water

Laboratory analytical results of ground-water samples collected during the SI indicated concentrations of petroleum compounds above WDNR Enforcement Standards (ES) and WDNR Preventative Action Limits (PAL) present in MW100, MW400, MW500, and water sample WS2000. Monitoring well MW200 and piezometer PZ300 contained petroleum concentrations above the WDNR PAL. Water sample WS1700 contained petroleum concentrations above the WDNR ES. Lead was detected in monitoring wells MW100, MW200, MW400, and piezometer PZ300. Monitoring well MW600, piezometer PZ700, water samples WS1800 and WS1900, and private wells PW-1 and PW-2 did not indicate significant petroleum compound concentrations during the SI. Ground-water analytical results are included as Table 3. Ground-water analytical reports are presented in Appendix B14.



5.0 CONCLUSIONS AND RECOMMENDATIONS

A release appears to have originated from the UST system located at the Site. Petroleum-contaminated soil is evident within the vicinity of the fueling island and within the southeast portion of the Site. Up-gradient monitoring wells and piezometers do not contain significant petroleum compounds therefore indicating that the Site is the likely source of the petroleum-contaminated ground water to the east-southeast of the Site.

The results of this study are based upon interpretation of the information available to Northern Environmental. Northern Environmental has assumed that the information provided by cited references is complete and correct. Northern Environmental does not warrant that this report represents an exhaustive study of all possible environmental concerns potentially associated with the site. However, the items documented as part of this report do represent the most likely sources of environmental concerns associated with the release, and are consequently believed to adequately address the client's needs at this time.



6.0 PROFESSIONAL CERTIFICATIONS

I, Barbara J. Flietner, hereby certify that I am a hydrogeologic Adm. Code, and that, to the best of my knowledge, all of the	e information contained in this document is correct
and the document was prepared in compliance with all app	blicable requirements in cns. NR 700 to 726, Wis.
Adm. Code.	
Barbara J. Flietner, PG Staff Geologist/Hydrogeologist	Date



7.0 REFERENCES

Nielsen, David M., Practical Handbook of Groundwater Monitoring, Lewis Publishers, Inc., 1991.

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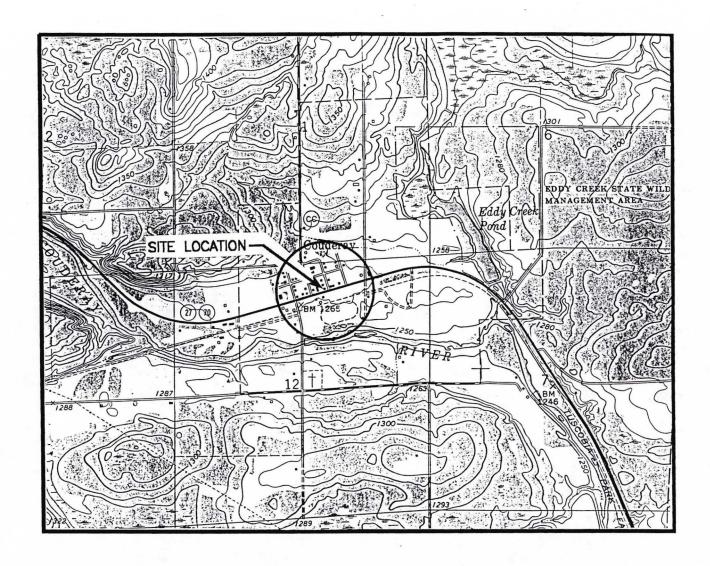
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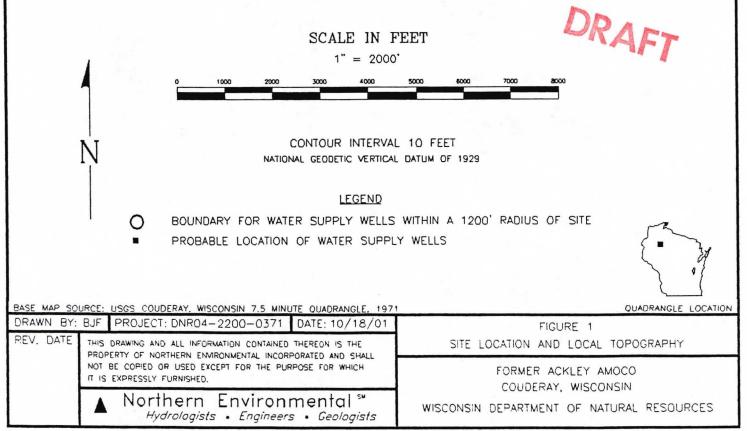
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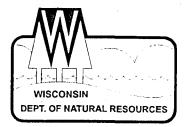
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SCALE IN FEET



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary William H. Smith, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-0818 Telephone 715-365-8900 FAX 715-365-8932 TDD 715-365-8957

January 26, 2001

Kris Mayberry Sawyer County Clerk P.O. Box 273 Hayward, WI 54843

Subject: Couderay Site Investigation

Dear Kris:

Thank you for meeting with Bill Schultz and me on January 24, 2001 regarding the Couderay groundwater contamination problem. As we indicated at the meeting the Northern Region (NOR) Remediation and Redevelopment (R&R) program requested and received Environmental Repair Funds (ERF) to investigate the groundwater contamination that has affected numerous private wells in the Village of Couderay.

As I indicated to the Sawyer County Board on December 21, 2001, state funds may be available to investigate the source of the groundwater contamination in Couderay. The NOR – R&R has requested and received \$28,000 in funding to do the initial phase of the investigation into the groundwater contamination in Couderay. These funds will be used to determine where the source of the contamination is and if there is a viable Responsible Party (RP) present. If a viable RP is identified they would be required to remediate the site contributing to the groundwater contamination. Should the investigation show that the contamination was originating from a property that did not have a viable RP – the Ackley property for instance - then we could seek additional state funds to remediate the problem.

At the meeting of December 21, 2000 the Sawyer County Board was considering taking action to delete the Ackley property from lands taken by the County for non-payment of real estate taxes. The Board was concern with having to be subject to substantial financial liabilities if they maintain control of this property. The Local Government Unit exemption as provided in s. 292.11(9)(e) Wis. State. Stats. and explained in detail in a letter to Dianne M. Ince, Sawyer County Treasurer, dated 1/18/00 (see attached) does provide the County with protections from becoming responsible for the investigation and remediation of a site taken on back taxes. If the County does maintain control of the Ackley property and this property is found to be the source of the contamination the County would not be responsible for investigating and remediating the site per the exemption from liability under s. 292.11(9)(e) Wis. State. Stats.



I believe that the only action that the County may be required to take – other then those required to maintain the LGU exemption - should the investigation indicate that the Ackley property <u>is not</u> the source of the contamination and the County maintains control of the property through tax delinquency, is that the Department of Commerce may require the County to remove any underground fuel tanks remaining on the site. If the Ackley property is determined to be the source of the groundwater problems in Couderay the removal of any remaining tanks could be covered by additional state funds in the second phase of investigation.

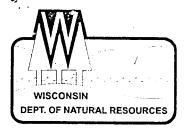
The Department is hoping that the effort to investigate and possible funding to remediate the Ackley site is viewed by the County as a good faith effort by the Department to establish a partnership with Sawyer County to address this Brownfield site. We would encourage the County to take advantage of the liability exemption provided in s. 292.11(9)(e) Wis. State. Stats. and maintain control of this property on back taxes. Access to the property to perform the required investigation would be simplified if the site remains in the County's control.

Please feel free to contact me at (715) 365-8943 if you should have any questions related to the investigation at this site or assistance that may be required at other Brownfield site in Sawyer County.

Sincerely,

Dan Boardman
Brownfield Coordinator
NOR –R&R

Cc.
File
Bill Schultz, R&R Engineer, DNR Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary William H. Smith, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-0818 Telephone 715-365-8900 FAX 715-365-8932 TDD 715-365-8957

January 18, 2000

Dianne M. Ince County Treasurer P.O. Box 151 Hayward, WI 54843

Subject: Request for Guidance on Repossession of Contaminated Parcels

Dear Dianne:

Thank you for your inquiry into the procedure for using the Local Government Unit (LGU) Exemption should Sawyer County acquire contaminated parcels of land through the tax delinquency process. As indicated in the guidance provided to the Sawyer County Conservation Committee in September s. 292.11(9)(e), authorize LGU's to take possession of real property through tax delinquency proceedings without incurring liability under the spills law for any preexisting environmental contamination on the property. This letter will address the process related to the exemption covered under s. 292.11(9)(e) after the county has possession of the property but not the process the county utilizes to repossess a property on back taxes. The procedure the county utilizes to repossess properties for back taxes should be done with the guidance of the county legal council.

As indicated in the guidance memo, once the county takes possession of a contaminated property that is covered by s. 292.11 there are certain actions the county must take to maintain the exemption. It is important to note that the exemption from liability DOES NOT include an exemption from s. 292.11(2), which is the responsibility to notify the DNR immediately of any discharge of a hazardous substance that the person possesses or controls. Thus, once a LGU – Sawyer County in this case - acquires property (even through the methods outlined in s. 292.11(9)(e)), the LGU is required by statue to notify DNR of any hazardous substance discharge. Therefore the county must notify the department, preferably by letter, that the county has taken possession of a contaminated property. Please indicate in the correspondence that the county is taking possession of the property under the LGU exemption. It would also be advisable to address that the county has taken the actions necessary to maintain the LGU exemption. For instance, the county must assure the following:

- That the county did not cause the discharge on the property.
- That the county took appropriate action to restrict access to the property in order to minimize costs or damage that may result from unauthorized persons entering the



property

- That the county sample and analyze unidentified substances in containers stored aboveground on the property
- That the county has removed and disposed of or properly stored any hazardous substances in aboveground containers that have leaked or are likely to leak.

Once the above listed items are addressed the county may elect to take no further action on the property and still qualify for the exemption.

The next step in the process depends on what the county decides to do with the property in their control. Some of the options that the county might consider would be to:

- Investigate and remediate the existing contamination on the property and then sell the property.
- Sell the property as is, the buyer then becoming the responsible party to investigate and remediate the contamination on the property.
- Investigate and remediate the existing contamination and develop the property for county use.

An important item to remember is that the LGU exemption is NOT TRANSFERABLE to a third party. Should a third party purchase the contaminated property from the county the third party would be responsible for investigating and remediating the site as the responsible party.

Should the county decide to use or develop the property the DNR would recommend the county submit a development plan to the DNR and address any substantial threat to public health or safety that may arise from the intended use or development of the property. It would be up to the county to provide the DNR with the necessary information that will be used to determine whether a substantial threat to public health or safety exists based on the intended use or development of the property. This is necessary because only the county knows what the intended use or development plans for the property are and the county has access to the property to assess the environmental contamination on the site. The assessment is usually done by conducting a phase I and II investigation on the site. It may be that substantial information already exists for the site. If the DNR determines that the information is valid the county may not be required to do another assessment dependent on the intended use or development of the site.

The determination of whether a substantial threat to public health or safety exists would be made jointly by the DNR and the State Department of Health. The determinations as to whether a substantial threat to public health or safety exists are made on case-by-case basis. If a determination that a threat to public health or safety does exist on a site the county would be required to take the necessary actions to address the threats, again based on the intended use or development of the site. There are several examples included in the guidance packet you received. If the county should decide not to address any determined substantial threat to public health or safety then the exemption would no longer be in effect and the DNR could take enforcement action requiring the county to investigate and remediate the site.

I hope this is of help to you in identifying the process to use to maintain a LGU exemption under 292.11(9)(e). In summary the county first must notify the DNR when they have taken possession of a contaminated property to be in compliance with 292.11(2). Secondly the county must take the necessary steps to protect the property from unauthorized persons, sample and analyze unidentified substances in containers stored aboveground and remove and dispose of or properly store any hazardous substances in aboveground containers that are leaking or likely to leak. The next step in the process will depend on the future use of the site. Whether the county sells the property or plans to use or develop the site will determine what is required of them next as indicated above.

Please feel free to contact me at (715) 365-8943 for any clarification on the process. In addition please remember that I am available to address any questions or provide clarification on the process at any time. Thank you again for your inquiry.

Sincerely,

Dan Boardman, Waste Management Specialist

cc. Michael Prager, Land Recycling Team Leader – R & R Madison Judith Ohm, LS/5

CORRESPONDENCE/MEMORANDUM

DATE:

January 24, 2001

FILE REF: 03-58-000380

TO:

Renee Sanford

FROM:

John Robinson, Bill Schultz, Dan Boardman

SUBJECT: Request for State Funding for a Site Investigation at Couderay, Wis.

Site Location

The Village of Couderay is located in Sawyer County approximately 30 miles east of Spooner along US Highway 70. The village has a population of approximately 100, and has no public water or sewer service. The soils are medium sand and silt with bedrock at approximately 57 feet. Groundwater is at 14 feet below the ground surface (bgs), and the direction of flow is thought to be east.

Site History

In July of 1979, the owners of three shallow driven wells in the village (Village Tap, machine shop, Amoco Gas Station) complained of patroleum in their drinking water. Petroleum contamination in groundwater has been detected vertically at the bedrock surface (57 feet bgs) and horizontally in a plume almost 700 feet long. Several properties in the immediate area are considered possible sources of the contamination. In 1982 the gas station reported an UST leaking and the tank was replaced. From 1979 to 1983 funding for new wells to the three impacted residencies was provided by the Well Compensation Fund. In 1992, another private well, on the Sus property, was impacted with petroleum contamination. Potable water was obtained by hooking into an adjacent private well to the north (9/11/92). On October 21, 1992, a RP letter was sent to the owner of the gas station property (Russell Ackley). In a reply from Mr. Ackley's lawyer, Mr. Ackley questions if he is the individual causing the problem pointing out that there are several other potential underground tank sources in closer proximity to the Sus property. This includes Artsinger's IGA, County Highway Shop, Village Pub and Grub, and an old service garage. The Department replied back to Mr. Ackley acknowledging that there could be additional other sources, but pointing out the known problems reported at his property. In 1993 Mr. Ackley died and no subsequent investigation has been done at the site. Sawyer County now has the property back on delinquent taxes. Five hundred feet to the northeast tanks were pulled and some remedial work done at the County Highway Shop (DCOM closed site at the highway shop in 1997 (03-58-000226)). At the present time it is unclear as to the source of the contamination impacting groundwater and potable wells in the area.

Proposed Work

The Northern Region is proposing to use state funds to do a limited site investigation in the area including the Russell Ackley property in Couderay. This would include a record search of the surrounding properties, identifying potential sources and receptors, taking soil samples, installing several monitoring wells, analytical sampling and defining the source(s) of the contamination.



The estimated cost for this site investigation and report is estimated at \$28,000. Bill Schultz will write the scope of work and be the project manager for the Department.

Future Determinations

This initial investigation will allow the Department to assess the following:

- Identify potential RPs.
- Is a viable RP present?
- Are significant potential receptors present?
- Is a full degree and extent investigation necessary?
- Should state environmental funding be used to remediate the site?



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary William H. Smith, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-0818 Telephone 715-365-8900 FAX 715-365-8932 TDD 715-365-8957

January 18, 2000

Dianne M. Ince County Treasurer P.O. Box 151 Hayward, WI 54843

Subject: Request for Guidance on Repossession of Contaminated Parcels

Dear Dianne:

Thank you for your inquiry into the procedure for using the Local Government Unit (LGU) Exemption should Sawyer County acquire contaminated parcels of land through the tax delinquency process. As indicated in the guidance provided to the Sawyer County Conservation Committee in September s. 292.11(9)(e), authorize LGU's to take possession of real property through tax delinquency proceedings without incurring liability under the spills law for any preexisting environmental contamination on the property. This letter will address the process related to the exemption covered under s. 292.11(9)(e) after the county has possession of the property but not the process the county utilizes to repossess a property on back taxes. The procedure the county utilizes to repossess properties for back taxes should be done with the guidance of the county legal council.

As indicated in the guidance memo, once the county takes possession of a contaminated property that is covered by s. 292.11 there are certain actions the county must take to maintain the exemption. It is important to note that the exemption from liability DOES NOT include an exemption from s. 292.11(2), which is the responsibility to notify the DNR immediately of any discharge of a hazardous substance that the person possesses or controls. Thus, once a LGU – Sawyer County in this case - acquires property (even through the methods outlined in s. 292.11(9)(e)), the LGU is required by statue to notify DNR of any hazardous substance discharge. Therefore the county must notify the department, preferably by letter, that the county has taken possession of a contaminated property. Please indicate in the correspondence that the county is taking possession of the property under the LGU exemption. It would also be advisable to address that the county has taken the actions necessary to maintain the LGU exemption. For instance, the county must assure the following:

- That the county did not cause the discharge on the property.
- That the county took appropriate action to restrict access to the property in order to minimize costs or damage that may result from unauthorized persons entering the



property

- That the county sample and analyze unidentified substances in containers stored aboveground on the property
- That the county has removed and disposed of or properly stored any hazardous substances in aboveground containers that have leaked or are likely to leak.

Once the above listed items are addressed the county may elect to take no further action on the property and still qualify for the exemption.

The next step in the process depends on what the county decides to do with the property in their control. Some of the options that the county might consider would be to:

- Investigate and remediate the existing contamination on the property and then sell the property.
- Sell the property as is, the buyer then becoming the responsible party to investigate and remediate the contamination on the property.
- Investigate and remediate the existing contamination and develop the property for county use.

An important item to remember is that the LGU exemption is NOT TRANSFERABLE to a third party. Should a third party purchase the contaminated property from the county the third party would be responsible for investigating and remediating the site as the responsible party.

Should the county decide to use or develop the property the DNR would recommend the county submit a development plan to the DNR and address any substantial threat to public health or safety that may arise from the intended use or development of the property. It would be up to the county to provide the DNR with the necessary information that will be used to determine whether a substantial threat to public health or safety exists based on the intended use or development of the property. This is necessary because only the county knows what the intended use or development plans for the property are and the county has access to the property to assess the environmental contamination on the site. The assessment is usually done by conducting a phase I and II investigation on the site. It may be that substantial information already exists for the site. If the DNR determines that the information is valid the county may not be required to do another assessment dependent on the intended use or development of the site.

The determination of whether a substantial threat to public health or safety exists would be made jointly by the DNR and the State Department of Health. The determinations as to whether a substantial threat to public health or safety exists are made on case-by-case basis. If a determination that a threat to public health or safety does exist on a site the county would be required to take the necessary actions to address the threats, again based on the intended use or development of the site. There are several examples included in the guidance packet you received. If the county should decide not to address any determined substantial threat to public health or safety then the exemption would no longer be in effect and the DNR could take enforcement action requiring the county to investigate and remediate the site.

I hope this is of help to you in identifying the process to use to maintain a LGU exemption under 292.11(9)(e). In summary the county first must notify the DNR when they have taken possession of a contaminated property to be in compliance with 292.11(2). Secondly the county must take the necessary steps to protect the property from unauthorized persons, sample and analyze unidentified substances in containers stored aboveground and remove and dispose of or properly store any hazardous substances in aboveground containers that are leaking or likely to leak. The next step in the process will depend on the future use of the site. Whether the county sells the property or plans to use or develop the site will determine what is required of them next as indicated above.

Please feel free to contact me at (715) 365-8943 for any clarification on the process. In addition please remember that I am available to address any questions or provide clarification on the process at any time. Thank you again for your inquiry.

Sincerely,

Dan Boardman, Waste Management Specialist

cc. Michael Prager, Land Recycling Team Leader – R & R Madison Judith Ohm, LS/5

FORMER ACKLEY AMOCO SUMMARY

Address: 12264 Hwy. 70, Couderay, WI, Sawyer County

Lust (Leaking Underground Storage Tank) – 03-58-000380

FID: 858120450

Abandoned and tax delinquent

There are several methods available to address the site.

- The County takes the property on back taxes and utilizes the LGU exemption provided in NR 292.11(9)(e). The county is not required to investigate or remediate the site. Advantage is that the County could apply for a SAG and use the forgiven taxes as part or the entire 20% share. The county could then retain the property, sell the property to the interested party (the purchaser would complete the clean up under the existing PECFA claim), or develop the property for Counties use. If the County chooses to develop the property the site would have to be cleaned up to the risk associated with the intended use.
- The County could simply get access to the property and apply for a SAG grant, conduct the eligible activities and leave it as is. Would have to come up with 20% dollar share of the grant. Demolition of structure may be questionable under this scenario.

"Brownfields" are defined as abandoned or underutilized properties where the cleanup and redevelopment is hindered by real or perceived environmental contamination.

Land Recycling Law (1994). The 1997-1999 state budget and the 1999-2001 provided and expanded liability protections for LGU's. The 1999-2001 changed the exemption to include sites with federally regulated underground storage tanks.

These laws provide an exemption to the Hazardous Spill Law when LGU's acquire a property through <u>tax delinquency</u>, bankruptcy proceedings, condemnation, eminent domain, escheat, for slum clearance, or blight elimination or using Stewardship funds or from another eligible LGU. The exemption for LGU's is not transferable.

LGU must:

- Have not caused the release *County did not cause*
- Restrict access to minimize cost or damages Not a problem at site
- Sample and analyze unidentified substances in above ground containers. *None Present on site*
- Remove, dispose or properly store hazardous substances in above ground containers that are leaking or likely to leak. *None present on site*

• Immediately report to the DNR the presence of hazardous substances on the property. Report if taken on back taxes – this avoids receiving Responsible Party Letter.

Site Assessment Grants (SAG's)

- First year was 1999-2001. \$1.45 million for two years.
- Increased to \$3.4 million for two years.
- \$1.7 million/year: \$1.19 million for small grants (\$2,000 \$30,000) and \$510,000 for large grants up to \$100,000.
- For LGU's and Redevelopment, Community and Housing authorities
- (see SAG Fact Sheet Blue)

SAG: Application, Application Instructions and Scoring – if need to.

- Applications due January 18, 2002
- 80%/20% matching (can use forgiven taxes, cash, in-kind services)
- Need County resolution for application (see example given)
- Expenses related to eligible activities must have taken place during contract period 1 year from DNR signing can ask for 1-year extension.
- Forgiveness of taxes, pay billings, etc. during grant period. (IMPORTANT)
- Eligible cost cover consultants, grant preparation as long as billed and paid during grant contract period.
- Is assessment program (Including demolition) will have to finish cleanup through PECFA.
- Will pay for demolition of any structures or buildings, Underground Storage Tanks removal.

SCORING: IF NECESSARY. – See Brownfield Site Assessment Grant information sheet (BLUE)

LGU's Utilizing Site Assessment Grants in 1999-2001 cycle:

- City of Crandon Pat DeWitt Mayor (715)478-2400
- Village of Clayton William Olson Village Clerk (715)948-2460
- City of Superior Clifford Knettel Planning Dept. (715) 394-0354
- Douglas County Susan Sandvick County Clerk (715)395-1568
- Barron County (Village of Barronett) Clarice Fall County Clerk (715) 537-6200

Sperfer

State Lead Proposal.

COUDERAY FILE REVIEW:

Mun AM for help of m together workers. To Mickela 2/2+/01 Chrishly bendess - ut 1, 10 bets 74/ original Plate

- 7/11/79: Complaint of gasoline in well at Village Tap. Village Tap, machine shop and gas station has same problem. Not sure of source gas station had been dumping oil on ground for some time. Sample taken gasoline detected 1.4 mg/L.
- 7/20/79: Notified owner of village Tap that she had to drill new well same with machine shop. Both stated they had good water 4 years earlier.
- 7/23/79: DNR tried to sample soil where oil dumped owner did not allow. Operator was told he would have to clean up the area whether this Is what caused the well contamination or not. DNR would contact the owner of the property (obviously owner and operator are different). State inspector would be checking tanks for leaks in the near future.
- NOTE: Possible buried tanks in front of village Tap pumps removed 35 years before owner was checking on if tanks were pulled?
- 7/27/79: DNR talks to owner of gas station property told to clean up oil dump area. Letter will be sent.
- 7/31/79: Letter to owner of property to clean up area notify DNR so on-site inspection can be conducted. Given two weeks.
- 7/31/79: DNR letter to DHILR to assist in getting rid of the "improperly abandoned buried fuel tanks" in Couderay.
- 8/03/79: Contacted fire chief about survey to identify buried tanks in Couderay.
- 8/22/79: Drilled 4"well Village Tap 0.4mg/L (environmentally weathered not sure what that means)
- 9/18/79: Ms. Sus calls Secretary Earl's office summary of conversation:
 - a) Gas found in well, new 300 foot well yields no water, owner inquires to health department about food license, and health states license pulled four years previously due to gasoline in water supply.
 - b) Samples show gasoline present in well. Owners to put in new well.
 - c) August new well drilled sampled when hit rock, detected gasoline. No sample taken after penetrated rock.

- d) Static level at 20 feet/bedrock granite found at 58 feet. Drilled to 300 feet without finding sufficient water.
- e) Mrs. Sus said the machine shop, which is next to the village tap, had removed a buried gasoline tank two years earlier. The well at the machine shop contains gasoline.
- f) DILHR would make an effort to determine if there are leaks in the area.
- 9/20/79 Sus's get good water from well installed north of tavern 42 feet deep. Abandoned previous well.
- 9/20 and 9/21/79 letters from DNR to Sus's explaining options to obtaining good water carbon filters/municipal supplies etc. routine suggestions.
- 10/4/79 Memo: All tanks except the regular gasoline tanks at the standard station have been checked for leaks and that tank will be tested by the end of the weekend. County shop will be pulling up their old tanks in the near future.
- 5/14/82 Memo: Herrick: gasoline contamination of station well has 4000 reg. Gas tank and 1000 gal unleaded. Operator says can tell losing gas from tank will be measured
- 6/10/82 Memo; Herrick One abandoned empty tank was removed by Ackley. Unleaded small tank partially exposed for standpipe test. Advised to test both tanks.
- 6/11/82 Letter: Samples show presence of gasoline in station well. Reportedly two active and two inactive tanks that have never been removed. Tanks have to be removed and active ones tested. Well to close to rusted out septic. Well must be abandoned.
- 6/15/82 Memo results of standpipe test: Standpipe lost 17 gallons in 2 days owner will replace that tank. Inspector observed wet spots on tank in morning like condensation or weep.
- 5/27/83 Memo: Request for variance to put well in at gas station. Had installed a new holding tank. Tanks have been checked at the station and one has been replaced.
- 6/9/83 Memo: OK for well mentions that the probable water direction is SOUTH. Put well in Northwest corner.
- 8/19/92 Memo: Saari to Roesler: Sus's well appears to be contaminated with gasoline.
 - 34' deep, 590 ppb of benzene also toluene, xylene and 1,2-dichloroethane below ES levels.
 - Three driven point wells to west (standard station, village pub, and old garage/shop had well replaced in 1979-1983.

- Replace wells put to north.
- Documented leakage at standard station
- Also salt contamination near county highway shop
- Groundwater flow to NORTHEAST
- 10/21/92 Letter to owner of property (Ackley) Amoco Station sampling from June/July found petroleum contamination in well located east of Amoco Station similar to what was experienced in 1979-83.
- 11/4/92 Letter to DNR (Saari) from Ackleys lawyer denying his tanks responsible asked to prove it.
- 11/13/92 Letter Saari (DNR) to Ackleys's lawyer: Indicates possible other sources but have not been confirmed Amoco remains likely source.
- NOTES Sus's hooked up to nearby well 9/11/92, no more need for bottled water.
 - Ackley obituary in the paper.
- 10/31/00 Memo form Tom K not informative mentions several sources, thinks IGSA may have closed out told to contact Commerce Laube.

THANK You

Cost Committeent of County Resources.

LAST TIME QUESTIONS about Site MAINLY world there be enough fixeds to accomplish goof QUESTIONS AS TO COME TO N SITE

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- DO NOT HARDE to TAKE PROTECTY

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- Examples / Questions

STATES INVASTANCENT:

NEW WELLS

26,000 HOVETIGATION

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: THE funding

Not Closeout of SAZE - PECFA

How would Coucus. have lod decent conversation about site won't the DNR present.

Make Note that County could deed to City w/ LGU exemption. # 4 Tanks The ground

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1 tanks vagostered fueloi (a Woste oil (Bilding))
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INTRODUCE

ONTLINE PAST, TO PRESENT

- MENTION WI-DAR INVESTIGATION
- GET INTO SAG -

SAG - WHAT WE HAVE

- WHAT CAN BE DON'S
- BY COLENTY
 LGU
 VEMOVE TONK, devolish structure

 VEMOVE Some Soil

 PAY for consultant

 Consultant will do application

SAWYER COUNTY TREASURER'S OFFICE DIANNE INCE-TREASURER PO BOX 151 HAYWARD WI 54843-0151





Department of Natural Resources Daniel C. Boardman, Brownfields Coordinator 107 Sutliff Avenue Rhinelander, WI 54501

SAWYER COUNTY Office of the Treasurer

Dianne M. Ince

P.O. Box 151 • Hayward • Wisconsin • 54843 (715) 634-4868 • Fax: (715) 634-6839 • sctreas@win.bright.net

November 17, 1999

Department of Natural Resources
Daniel C. Boardman, Brownfields Coordinator
107 Sutliff Avenue
Rhinelander, WI 54501

Re: Notification of acquisition of contaminated parcels

Dear Dan,

Sawyer County may acquire two contaminated parcels through the tax delinquency process. The two parcels are located in the:

1. Town of Hayward, Section 33, Township 41, Range 9W Computer #010-941-33 1304

Owner: Pricerite Inc.

2. Village of Winter, Section 32, Township 39, Range 5W

Computer #190-539-32 1121

Owner: Helenetta Dombrock /Dale J. Tice

Please advise this office of the correct procedure to proceed with this matter. We appreciate the information you brought to the Conservation Committee meeting in September. This has helped us in deciding to proceed with this matter.

Sincerely,

Dianne M. Ince

County Treasurer

Diamem. Ince

SAWYER COUN

Office of the Treasurer

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