

**HUFF & HUFF, INC.**  
Environmental Consultants

512 W. Burlington, Suite 100  
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Phone (708) 579-5940  
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August 6, 1997

Mr. Michael G. Farley  
BRR Program Assistant  
Wisconsin Department of Natural Resources  
Box 12436  
4041 N. Richards Street  
Milwaukee, Wisconsin 53212

Re: Subsurface Investigation Work Plan  
NT Dor-O-Matic; Greendale, Wisconsin  
BRRTS#: 02-41-118817  
Facility ID#: 241050590  
*ECP*

RECEIVED

AUG 11 1997

D.N.R. SED Hqtrs.  
Milwaukee, WI

Dear Mr. Farley:

The June 12, 1997 Work Plan submitted to you indicated that the results of the subsurface investigation would be issued on July 25, 1997 for the above-referenced site. The Work Plan was based on the premise of encountering ground water, which was to be investigated with the installation of four monitoring wells.

The subsurface investigation was conducted on June 12, 1997 as indicated. The initial borings were conducted on the north side of the building as located on Figure 1. Soil boring no. 102 (SB-102) was conducted to a depth of 15 feet and SB-101 was conducted to a depth of 20 feet. Samples were collected continuously with split spoon samplers in each boring location. The strata encountered did not indicate any ground water bearing strata. No ground water was observed in either boring after one hour of observation from the time of auger removal from the borehole.

Due to the absence of a ground water bearing stratum, no monitoring wells were installed. One Shelby tube sample was collected and a hydraulic conductivity test was conducted on the sample. The hydraulic conductivity of the soil sample collected at a depth interval of 9 to 11 feet is  $1.86 \times 10^{-8}$  cm/sec. The boring logs developed from the subsurface investigation are attached. The soils in the area are generally clayey silts with some gravel and sand. The clayey silt becomes very tight at a depth of approximately 11 feet. A Shelby tube sample was attempted at this depth; however, the tube could not be pushed through the stiff clayey silt.

The soil sample results reported trichloroethylene and several other contaminants are present in the soil. The levels detected do not exceed the USEPA Site Screening Levels (SSLs) for the inhalation and ingestion exposure routes, although the results are above the migration to ground water exposure

Mr. Michael G. Farley  
August 6, 1997  
Page No. 2

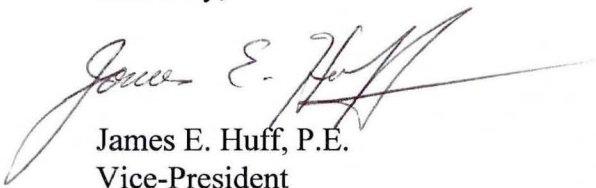
route. The analytical results for the parameters detected are presented in the attached table, and for reference are compared to the USEPA SSLs. Five parameters; trichloroethylene, dichloromethane, 1,1-dichloroethylene, tetrachloroethylene, and cis-1, 2-dichloroethylene exceed the migration to ground water pathway.

Water samples were collected from Dale Creek located north of the site. Samples were collected less than 50 feet upstream (U/S) and downstream (D/S) of the site. Only chloromethane was detected at 0.006 mg/l in the upstream sample. The downstream sample results did not detect anything above the detection limits. The results of the water samples are also included on the attached table.

Given the geological observations during the subsurface investigation and the analytical results, a site evaluation will be conducted to determine appropriate site specific cleanup objectives. It is our intention to use the Seasonal Soil Compartment Model (SESOIL) and The New SESOIL User's Guide (Revision 1.6), (WDNR, 1993) for guidance. If the results of the SESOIL modeling indicate that ground water may be impacted, a ground water fate and transport model will also be used. The modeling however is a more intensive process that includes gathering site specific and regional data. The proposed submittal date for the modeling results will be September 15, 1997. This may vary depending upon the availability of the required data.

Please do not hesitate to call if there are any questions.

Sincerely,



James E. Huff, P.E.  
Vice-President

JEH:sdl

Enclosures

cc: Mr. Donald Straub, NT Dor-O-Matic  
Mr. Udo Schultz, NT Dor-O-Matic  
Ms. Laura Leonard, Sidley & Austin  
Mr. Kevin Shaver, Montgomery Watson

SOIL SAMPLE ANALYTICAL RESULTS

NT DOR-O-MATIC  
Greendale, Wisconsin  
12-Jun-97

Soil Boring ID	Depth Interval, ft	Parameter, mg/kg																	
		TTE	TCE	cis-1,2-DCE	1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Vinyl Chloride	Chloro-methane	Dichloro-methane	Trichloro-fluoromethane	Toluene	Ethyl-benzene	Xylenes	Styrene	Acetone	Chloro-form	Bromodi-chloromethane
Reference	Ingestion	12.000	58.000	780.000	---	7800.000	1.000	7.000	0.300	---	85.000	---	16000.000	7800.000	160000.000	16000.000	7800.000	100.000	10.000
Site Screening Levels	Inhalation	11.000	5.000	1200.000	1200.000	1300.000	0.070	0.400	0.030	---	13.000	---	650.000	400.000	410.000	1500.000	100000.000	0.300	3000.000
	Migration to GW	0.060	0.060	0.400	2.000	23.000	0.060	0.020	0.010	---	0.020	---	12.000	13.000	190.000	4.000	16.000	0.600	0.600
H-11	1 - 3	<0.0007	0.0497	<0.0005	0.0030	<0.0005	<0.0005	<0.0016	<0.0007	0.0110	0.0043	<0.0005	0.0010	<0.0006	<0.0006	<0.0005	0.0504	<0.0005	<0.0006
H-11	7 - 9	0.0016	1.4600	0.0016	0.1340	0.0019	0.0029	<0.0016	<0.0007	0.0045	0.0046	<0.0005	0.0009	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
H-11	7 - 9 (DUP)	0.0022	0.7050	0.0024	0.1200	0.0019	<0.0005	<0.0016	<0.0007	0.0031	0.0068	<0.0005	0.0012	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
H-11	9 - 11	0.0014	0.7020	0.0009	0.0546	<0.0005	0.0009	0.0027	<0.0007	<0.0010	0.0083	<0.0005	0.0010	<0.0006	0.0010	<0.0005	<0.0100	0.0007	<0.0006
H-12	1 - 3	0.001	1.1600	<0.0005	0.0640	0.0023	0.0027	<0.0016	<0.0007	<0.0010	0.0051	<0.0005	0.0014	0.0116	0.0653	<0.0005	<0.0100	0.0011	<0.0006
H-12	7 - 9	0.0023	3.7900	0.0014	<0.0005	0.0207	0.0661	<0.0016	<0.0007	<0.0010	<0.0008	<0.0005	0.0017	0.0112	0.0433	<0.0005	<0.0100	0.0022	<0.0006
H-12	9 - 11	0.0021	4.6500	0.0012	0.5850	0.0138	0.0310	<0.0016	<0.0007	<0.0010	0.0050	<0.0005	0.0016	<0.0006	0.0011	<0.0005	<0.0100	0.0019	0.0506
H-13	1 - 3	0.0013	0.2490	0.0047	0.0194	0.0207	0.0034	0.0095 *	<0.0007	<0.0010	0.0295	0.0020	0.0026	<0.0006	0.0021	0.0011	<0.0100	0.0016	<0.0006
H-13	9 - 11	<0.0007	0.0044	<0.0005	0.0143	<0.0005	0.0009	<0.0016	<0.0007	<0.0010	0.0046	<0.0005	<0.0005	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
SB-101	1 - 3	0.0289	0.2420	0.00148	<0.0005	<0.0005	<0.0005	<0.0016	<0.0007	<0.0010	0.0038	<0.0005	<0.0005	<0.0006	<0.0006	0.0011	<0.0100	<0.0005	<0.0006
SB-101	11 - 13	0.0660	0.6450	0.4240	<0.0005	<0.0005	<0.0005	<0.0016	<0.0007	<0.0010	0.0073	<0.0005	0.0021	<0.0006	0.0019	0.0017	<0.0100	<0.0005	<0.0006
SB-101	18 - 20	0.1130	1.8600	0.0737	0.0141	0.0015	<0.0005	<0.0016	<0.0007	<0.0010	0.0116	<0.0005	0.0018	<0.0006	0.0011	0.0009	<0.0100	<0.0005	<0.0006
SB-102	1 - 3	0.0011	0.0110	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0007	<0.0010	0.0024	<0.0005	0.0015	<0.0006	<0.0006	<0.0005	<0.0100	0.001	<0.0006
SB-102	7 - 9	0.0014	0.0108	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0007	0.0023	0.0044	<0.0005	0.0013	<0.0006	0.0015	<0.0005	<0.0100	<0.0005	<0.0006
SB-102	11 - 13	0.0007	0.0130	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0007	0.0044	0.0037	<0.0005	0.0009	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
SB-102	11 - 13 (DUP)	<0.0007	0.0120	<0.0005	0.0017	<0.0005	<0.0005	<0.0016	<0.0007	0.0017	0.0025	<0.0005	0.0008	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
SB-102	13 - 15	0.0007	0.0270	<0.0005	0.0110	<0.0005	<0.0005	<0.0016	<0.0007	0.0020	0.0051	<0.0005	0.0010	<0.0006	<0.0006	<0.0005	<0.0100	<0.0005	<0.0006
Water Grab	U/S - Dale	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0005	0.0061	<0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0100	<0.0005	<0.0006
Water Grab	D/S - Dale	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0005	<0.0010	<0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0100	<0.0005	<0.0006
Water Grab	Trip Blank	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0016	<0.0005	<0.0020	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0100	<0.0005	<0.0006

E:\FILES\DOR-O-MA\DEGREASE\GD\SOILSAMP.xls]A

\* Exceeds WDNR Protection of Ground Water screening level

SB-204

PROPERTY LINE

SB-202

SB-101

SB-203

START OF SLOPE

PIT

DEGREASER

SB-201

SB-1

SB-102

H-11

H-1

H-13

MAINT. DEPT.

INSPEC. DEPT.

PAINT OVEN

DEGREASER ROOM

H-213

H-12

POLISHING AREA

H-212

PANIC MACHINE SHOP

EXTRUSION & CARDBOARD ROOM

SAW ROOM, PUNCH PRESS AREA & CLADDING AREA

MACHINE SHOP & DOOR ASSEMBLY

STOCK ROOM

PANIC ASSEMBLY

MW-103

LOADING DOCK

ENGINEERING DEPARTMENT

TOOL ROOM

SHOP OFFICE

BATH ROOM

LOADING DOCK

CONF. ROOM

OFFICE

LUNCH ROOM & BATHROOMS

FRONT OFFICE

NORTH

KEY

- ⊙ SOIL BORING LOCATION (JUNE 12, 1997)
- ⊠ PROPOSED SOIL BORING LOCATION

30' 0 30'

FIGURE 1  
 SOIL BORING LOCATION MAP  
 NT DOR-O-MATIC INC.  
 GREENDALE, WI FACILITIES

Facility/Project Name <b>NT-DOR-O-MATIC</b>		License/Permit/Monitoring Number		Boring Number <b>SB-101</b>	
Boring Drilled By (Firm name and name of crew chief) <b>GEOSERVE - Mark Mathey - Driller; Rory Altenberg - Helper</b>			Date Drilling Started <b>6/12/97</b>	Date Drilling Completed <b>6/12/97</b>	Drilling Method <b>6-1/4" I.D. HSA</b>
DNR Facility Well No.	WI Unique Well No.	Common Well Name <b>No well installed</b>		Final Static Water Level <b>Feet</b>	Surface Elevation <b>N/D Feet</b>
Boring Location State Plane <b>1/4 of      1/4 of Section      34      T 6 N N,R 21 E</b>		Lat <b>0' "</b>		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Milwaukee</b>		DNR County Code	Civil Town/City/ or Village <b>Greendale</b>		

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	18	push	0-2	Topsoil				30							
	18	push	2-4	SAND, silty, medium to fine grained, with some gravel, brown, loose (no odor) SM/SP	SM			62							
2	18.5	push	4-6	SAND, silty clayey, brown (no odor) SM	ML			60							
	.25	push	6-8	SILT, clayey, some sand, slightly damp, loose, brown (no odor) ML											
	18.5	push	8-10	SILT, some gravel (lost sample from 7-9 ft - gravel blocked split spoon)	CL ML			88							
	18.5	push	10-12	CLAY, very silty, some sand and gravel, red/gray, damp, firm (no odor) CL	CL			150							
3	18	push	12-14	CLAY, silty, some sand and gravel, brown/gray, firm to stiff, damp (no odor) CL	CL ML			102							
	18.5	push	14-16	CLAY, very silty, damp, red/brown (no odor) ML	CL CL			75							
	18.5	push	16-18	CLAY, silty, some sand, brown/red, damp (no odor) CL	CL ML			82							No Water
			18-20	CLAY, silty, brown/gray, moist, (no odor) CL											
			20	CLAY, very silty, some sand and gravel, damp, gray (no odor) CL-ML											
				Bottom of Hole - no ground water											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>Huff &amp; Huff</b> 512 West Burlington #100 LaGrange, IL 60525 Tel: (708)579-5950, Fax: (708)579-3526
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This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Facility/Project Name <b>NT-DOR-O-MATIC</b>		License/Permit/Monitoring Number	Boring Number <b>SB-102</b>	
Boring Drilled By (Firm name and name of crew chief) <b>GEOSERVE - Mark Mathey - Driller; Rory Altenberg - Helper</b>		Date Drilling Started <b>6/12/97</b>	Date Drilling Completed <b>6/12/97</b>	Drilling Method <b>4-1/4" I.D. HSA</b>
DNR Facility Well No.	WI Unique Well No.	Common Well Name <b>No well installed</b>	Final Static Water Level <b>Feet</b>	Surface Elevation <b>N/D Feet</b>
				Borehole Diameter <b>8-1/2" Inches</b>
Boring Location State Plane <b>1/4 of 1/4 of Section 34 T 6 N N,R 21 E</b>		Local Grid Location (If applicable) Lat <b>0' "</b> Long <b>0' "</b>		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County <b>Milwaukee</b>		DNR County Code	Civil Town/City/ or Village <b>Greendale</b>	

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	18	push	2	Topsoil				4.3							
	18	push	4	SILT, clayey, some sand, trace organic mat'l, damp, dark brown (no odor) ML	ML			3.6							
	18.5	push	6	SILT, clayey, some sand, damp, dark brown/brown (no odor) ML				2.6							
2	14.5	push	8	SILT, clayey, some sand and gravel, slightly damp, brown, (no odor) ML				3.7							
	18.5	push	10		CL ML			5.0							
3	18.5	43	12	CLAY, very silty, some sand, trace gravel, slightly damp, brown (no odor) CL				5.5							
4	18	push	14	Bottom of Hole No water				4.2							No Water

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>Huff &amp; Huff</b> 512 West Burlington #100 LaGrange, IL 60525 Tel: (708)579-5950, Fax: (708)579-3526
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Facility/Project Name <b>NT-DOR-O-MATIC</b>		License/Permit/Monitoring Number		Boring Number <b>H-11</b>	
Boring Drilled By (Firm name and name of crew chief) <b>GEOSERVE, Kent Mathey</b>		Date Drilling Started <b>6/12/97</b>		Date Drilling Completed <b>6/12/97</b>	
Drilling Method <b>Geoprobe</b>		DNR Facility Well No.		WI Unique Well No.	
Common Well Name <b>No well installed</b>		Final Static Water Level <b>Feet</b>		Surface Elevation <b>N/D Feet</b>	
Borehole Diameter <b>1-1/2" Inches</b>		Boring Location State Plane		Local Grid Location (If applicable)	
1/4 of		1/4 of Section <b>34</b>		N, E S/C/N	
County <b>Milwaukee</b>		DNR County Code		Civil Town/City/ or Village <b>Greendale</b>	
Lat <b>0' "</b>		Long <b>0' "</b>		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S      Feet <input type="checkbox"/> W	

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	20	Hand	2	Concrete Floor				6.8							
	12	drove	4	SILT, clayey, some sand and gravel, dry to slightly damp, brown (no odor) ML				9.8							
	24	samples	6	SILT, clayey, some gravel dry to slightly damp, brown (no odor) ML				14.7							
2	24	no blow	8					24							
3	24	counts	10	CLAY, very silty, tight (hard) dry to slightly damp, (no odor) CL	CL			54							
				Bottom of Hole No Water											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>Huff &amp; Huff</b> 512 West Burlington #100 LaGrange, IL 60525 Tel: (708)579-5950, Fax: (708)579-3526
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Facility/Project Name <b>NT-DOR-O-MATIC</b>		License/Permit/Monitoring Number		Boring Number <b>H-12</b>	
Boring Drilled By (Firm name and name of crew chief) <b>GEOSERVE, Kent Mathey</b>		Date Drilling Started <b>6/12/97</b>		Date Drilling Completed <b>6/12/97</b>	
DNR Facility Well No.		WT Unique Well No.		Common Well Name <b>No well installed</b>	
Boring Location State Plane <b>1/4 of      1/4 of Section      34</b>		Final Static Water Level <b>Feet</b>		Surface Elevation <b>N/D Feet</b>	
County <b>Milwaukee</b>		DNR County Code		Civil Town/City/ or Village <b>Greendale</b>	
N, E S/C/N <b>T 6 N, R 21 E</b>		Lat      0' "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long      0' "		Feet		Feet	

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	20	Hond	2	Concrete Floor				24							
	24	drove	4	SILT, clayey, some sand and gravel, brown, dry to slightly damp (no odor) ML				19							
	24	samples	6	Gravel, sandy, dry loose (no odor) GP				42							
2	24	no blow	8	SILT, clayey, some sand and gravel, (no odor) ML	SM CL ML			52							
3	24	counts	10	Sand, fine grained, silty, loose, damp (no odor) SM				42							
				CLAY, very silty, some gravel, dry to slightly damp, hard (no odor) CL											
				Bottom of Hole, no water											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>Huff &amp; Huff</b> 512 West Burlington #100 LaGrange, IL 60525 Tel: (708)579-5950, Fax: (708)579-3526
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Facility/Project Name <b>NT-DOR-O-MATIC</b>		License/Permit/Monitoring Number		Boring Number <b>H-13</b>	
Boring Drilled By (Firm name and name of crew chief) <b>GEOSERVE, Kent Mathey</b>		Date Drilling Started <b>6/12/97</b>		Date Drilling Completed <b>6/12/97</b>	
DNR Facility Well No.		WI Unique Well No.		Common Well Name <b>No well installed</b>	
Final Static Water Level <b>Feet</b>		Surface Elevation <b>N/D Feet</b>		Borehole Diameter <b>1-1/2" Inches</b>	
Boring Location State Plane <b>1/4 of      1/4 of Section      34      N, E S/C/N      T 6 N R 21 E</b>		Lat      0' "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Milwaukee</b>		DNR County Code		Civil Town/City/ or Village <b>Greendale</b>	

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	12	Hand	2	Concrete Floor	SP			8							
	24	drove	4	Sand, fine-grained, silty, brown, SM	ML			2.8							
	24	samples	6	SILT, clayey, gray (no odor) ML	ML			3.8							
	24	no blow	8	SILT, clayey, some gravel, slightly damp, red/brown, (no odor) ML				3.9							
2	24	counts	10	SILT, as above, ML				3.2							
				CLAY, very silty, hard, some gravel, (no odor) CL	CL ML										
				Bottom of Hole, no water											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>Huff &amp; Huff</b> 512 West Burlington #100 LaGrange, IL 60525 Tel: (708)579-5950, Fax: (708)579-3526
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