

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

15
ESE
1/2 - 1 Mile
Higher

MI WELLS MI20111757

Wellid:	37000000962	Import id:	37140414018
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	14
Owner name:	WILLIAM HOOPER	Well addr:	2310 EAST DR.
Well depth:	87		
Well type:	HOSHL D		
Wssn:	0		
Well num:	Not Reported	Driller id:	678
Const date:	1984-08-09 00:00:00.000	Case type:	PVCPLA
Case dia:	0		
Case depth:	0		
Screen frm:	83		
Screen to:	87		
Swl:	8		
Test depth:	40		
Test hours:	3		
Test rate:	10	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6075407396		
Longitude:	-84.752879909		
Methd coll:	I1		
Elevation:	765		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	764	Elev dif:	1
Elev miv:	765	Aq code:	D
Aq flag:	Not Reported	Pct aq:	34
Pct aq d:	34	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	66

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	66	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	13	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	79	A pct aq2:	28
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	72	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	75
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	10	Pct maq 2:	0
Pct cm 2:	90	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	30	Pct maq 4:	0
Pct cm 4:	70	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	79		
Hcond2:	13.92412		
Vcond2:	.00014		
T2:	1100.0057		
D50plek:	150.43268		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

16
North
1/2 - 1 Mile
Lower

MI WELLS MI20111689

Wellid:	37000000892	Import id:	37140411004
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	11
Owner name:	RANDY WISER	Well addr:	975 S MISSION RD.
Well depth:	69		
Well type:	HOSHLD		
Wssn:	0		
Well num:	Not Reported	Driller id:	678
Const date:	1978-08-17 00:00:00.000	Case type:	*U
Case dia:	2		
Case depth:	65		
Screen frm:	65		
Screen to:	69		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6260840925		
Longitude:	-84.7676794002		
Methd coll:	I1		
Elevation:	730		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	2
Elev dem:	735	Elev dif:	5
Elev miv:	730	Aq code:	D
Aq flag:	Not Reported	Pct aq:	17
Pct aq d:	17	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	83
Pct cm d:	83	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	40
Pct maq 1:	0	Pct cm 1:	60
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

17
SW
1/2 - 1 Mile
Lower

MI WELLS MI20111761

Wellid:	37000000966	Import id:	37140415301
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	15
Owner name:	CITY OF MT. PLEASANT	Well addr:	MT. PLEASANT WELL #1
Well depth:	94		
Well type:	TY1PU		
Wssn:	4530		
Well num:	MT. PLEASANT WELL #1	Driller id:	550
Const date:	Not Reported	Case type:	*U
Case dia:	16		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	14		
Test depth:	78		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6051556701		
Longitude:	-84.7817966991		
Methd coll:	I1		
Elevation:	753		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	748	Elev dif:	5
Elev miv:	753	Aq code:	D
Aq flag:	Not Reported	Pct aq:	57
Pct aq d:	57	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	43
Pct cm d:	43	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	40
Pct maq 1:	0	Pct cm 1:	60
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	10	Pct maq 2:	0
Pct cm 2:	90	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	50
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

E18
SE
1/2 - 1 Mile
Higher

MI WELLS MI20111752

Wellid:	37000000957	Import id:	37140414013
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	14
Owner name:	CORTES LOVEJOY	Well addr:	4634 E BROADWAY RD.
Well depth:	78		
Well type:	HOSHLD		
Wssn:	0		
Well num:	Not Reported	Driller id:	655
Const date:	1977-10-29 00:00:00.000	Case type:	*U
Case dia:	2		
Case depth:	73		
Screen frm:	72		
Screen to:	78		
Swl:	18		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.604086944		
Longitude:	-84.7551188767		
Methd coll:	I1		
Elevation:	768		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	768	Elev dif:	0
Elev miv:	768	Aq code:	D
Aq flag:	Not Reported	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	73

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	73	Pct cm r:	0
Pct pcm:	27	Pct pcm d:	27
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	6	A pct aq:	0
A pct maq:	0	A pct pcm:	100
A pct cm:	0	A pct na:	0
A thickns2:	60	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	10
A pct cm2:	90	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Clay & Sand
A sc lmod1:	Not Reported	A sc lmaq1:	PCM
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	75	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	60		
Hcond2:	.00109		
Vcond2:	.00011		
T2:	.0654		
D50plek:	.01404		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F19
SE
1/2 - 1 Mile
Higher

MI WELLS MI20111756

Wellid: 37000000961
 County: Isabella
 Town range: 14N 04W
 Owner name: FRITZ
 Well depth: 80
 Well type: HOSHLD
 Wssn: 0
 Well num: Not Reported
 Const date: Not Reported
 Case dia: 2
 Case depth: 76
 Screen frm: 76
 Screen to: 80
 Swl: 15
 Test depth: 30
 Test hours: 1
 Test rate: 10
 Grout: 0
 Latitude: 43.604818782
 Longitude: -84.7537403499
 Methd coll: I1
 Elevation: 765
 Elev methd: T1
 Elev flag: Not Reported
 Elev dem: 768
 Elev niv: 765
 Aq flag: Not Reported
 Pct aq d: 35
 Pct maq: 0
 Pct maq r: 0
 Pct cm d: 0
 Pct pcm: 65
 Pct pcm r: 0
 Pct na d: 0
 Pct flag: Not Reported
 D r type: Not Reported
 A thicknes: 4
 A pct maq: 0
 A pct cm: 0
 A thickns2: 65
 A pct maq2: 0
 A pct cm2: 0
 A hit swl: F
 A hit rock: F
 A sc lmod1: Wet/Moist
 A sc lpct1: 100
 A sc lmod2: Not Reported
 A sc lpct2: 0
 Pct maq 1: 0
 Pct pcm 1: 0

Import id: 37140414017
 Township: Union
 Section: 14
 Well addr: 4633 E BROADWAY RD.
 Driller id: 265
 Case type: *U
 Test methd: *U
 Pmp cpcity: 0
 Depth flag: Not Reported
 Swl flag: Not Reported
 Elev dif: 3
 Aq code: D
 Pct aq: 35
 Pct aq r: 0
 Pct maq d: 0
 Pct cm: 0
 Pct cm r: 0
 Pct pcm d: 65
 Pct na: 0
 Pct na r: 0
 Rock top: -1
 Spc cpcity: 0
 A pct aq: 100
 A pct pcm: 0
 A pct na: 0
 A pct aq2: 20
 A pct pcm2: 80
 A pct na2: 0
 A hit top: F
 A sc lith1: Sand
 A sc lmaq1: AQ
 A sc lith2: Not Reported
 A sc lmaq2: Not Reported
 Pct aq 1: 100
 Pct cm 1: 0
 Pct na 1: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	20	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	80
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	20	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	80
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	65		
Hcond2:	10.0008		
Vcond2:	.00125		
T2:	650.052		
D50plek:	75.24363		

**E20
SE
1/2 - 1 Mile
Higher**

MI WELLS MI20111751

Wellid:	37000000956	Import id:	37140414012
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	14
Owner name:	1ST CHURCH OF CHRIST	Well addr:	4560 E BROADWAY RD.
Well depth:	94		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	572
Const date:	1971-08-25 00:00:00.000	Case type:	*U
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	90		
Screen frm:	90		
Screen to:	94		
Swl:	25		
Test depth:	40		
Test hours:	2		
Test rate:	8	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6041630681		
Longitude:	-84.7544639766		
Methd coll:	I1		
Elevation:	768		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	768	Elev dif:	0
Elev miv:	768	Aq code:	D
Aq flag:	Not Reported	Pct aq:	11
Pct aq d:	11	Pct aq r:	0
Pct maq:	2	Pct maq d:	2
Pct maq r:	0	Pct cm:	53
Pct cm d:	53	Pct cm r:	0
Pct pcm:	34	Pct pcm d:	34
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	6	A pct aq:	67
A pct maq:	33	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	69	A pct aq2:	6
A pct maq2:	3	A pct pcm2:	29
A pct cm2:	62	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	30
Pct maq 1:	0	Pct cm 1:	10
Pct pcm 1:	60	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	50
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	69		
Hcond2:	3.07253		
Vcond2:	.00016		
T2:	212.0043		
D50plek:	27.74574		

21
West
1/2 - 1 Mile
Higher

MI WELLS MI20114332

Wellid:	37000004094	Import id:	Not Reported
County:	Isabella	Township:	Deerfield
Town range:	14N 05W	Section:	12
Owner name:	DON CASHEN	Well addr:	938 W PICKARD
Well depth:	36		
Well type:	HOSHL D		
Wssn:	0		
Well num:	Not Reported	Driller id:	2084
Const date:	2003-05-23 00:00:00.000	Case type:	PVCPLA
Case dia:	5		
Case depth:	28		
Screen frm:	28		
Screen to:	36		
Swl:	5		
Test depth:	0		
Test hours:	1		
Test rate:	12	Test methd:	AIR
Grout:	1	Pmp cpcity:	10
Latitude:	43.61172618		
Longitude:	-84.7870655		
Methd coll:	A1		
Elevation:	794		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	4	Swl flag:	Not Reported
Elev dem:	768	Elev dif:	26
Elev miv:	794	Aq code:	D
Aq flag:	Not Reported	Pct aq:	44
Pct aq d:	44	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	33

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	33	Pct cm r:	0
Pct pcm:	22	Pct pcm d:	22
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	16	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	31	A pct aq2:	52
A pct maq2:	0	A pct pcm2:	10
A pct cm2:	39	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	60
Pct pcm 1:	40	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	N	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

22
NNE
1/2 - 1 Mile
Lower

MI WELLS MI20113500

Wellid:	37000003018	Import id:	Not Reported
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	11
Owner name:	JOANNE OSBECK	Well addr:	466 EAST REMUS
Well depth:	105		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1970
Const date:	2000-09-25 00:00:00.000	Case type:	PVCPLA
Case dia:	5		
Case depth:	100		
Screen frm:	101		
Screen to:	105		
Swl:	16		
Test depth:	0		
Test hours:	1		
Test rate:	20	Test methd:	AIR
Grout:	1	Pmp cpcity:	12
Latitude:	43.62593477		
Longitude:	-84.75979297		
Methd coll:	I1		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	3	Swl flag:	Not Reported
Elev dem:	761	Elev dif:	761
Elev miv:	761	Aq code:	D
Aq flag:	Not Reported	Pct aq:	32
Pct aq d:	32	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	68
Pct cm d:	68	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	17	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	89	A pct aq2:	38
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	62	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	70	Pct maq 2:	0
Pct cm 2:	30	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	15
Pct maq 3:	0	Pct cm 3:	85
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	60
Pct maq 5:	0	Pct cm 5:	40
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	89		
Hcond2:	38.20231		
Vcond2:	.00016		
T2:	3400.0055		
D50plek:	494.24891		

F23
SE
1/2 - 1 Mile
Higher

MI WELLS MI20111741

Wellid:	37000000945	Import id:	37140414001
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	14
Owner name:	WILLIAM BRUCE	Well addr:	4628 E BROADWAY RD.
Well depth:	100		
Well type:	HOSHLD		
Wssn:	0		
Well num:	Not Reported	Driller id:	655
Const date:	1971-07-31 00:00:00.000	Case type:	*U
Case dia:	2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	91		
Screen frm:	91		
Screen to:	100		
Swl:	18		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6041843357		
Longitude:	-84.7536614331		
Methd coll:	I1		
Elevation:	768		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	768	Elev dif:	0
Elev miv:	768	Aq code:	D
Aq flag:	Not Reported	Pct aq:	19
Pct aq d:	19	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	78
Pct cm d:	78	Pct cm r:	0
Pct pcm:	3	Pct pcm d:	3
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	82	A pct aq2:	12
A pct maq2:	0	A pct pcm2:	4
A pct cm2:	84	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	45
Pct maq 1:	0	Pct cm 1:	55
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	85
Pct pcm 3:	15	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	50
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	82		
Hcond2:	12.19557		
Vcond2:	.00012		
T2:	1000.0369		
D50plek:	142.67576		

24
NNE
1/2 - 1 Mile
Lower

MI WELLS MI20111617

Wellid:	37000000818	Import id:	37140402008
County:	Isabella	Township:	Union
Town range:	14N 04W	Section:	2
Owner name:	HOLLEY & TOMPKINS	Well addr:	4101 E RIVER RD.
Well depth:	80		
Well type:	HOSHL D		
Wssn:	0		
Well num:	Not Reported	Driller id:	678
Const date:	1972-07-20 00:00:00.000	Case type:	*U
Case dia:	3		
Case depth:	77		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.6267028361		
Longitude:	-84.7606883793		
Methd coll:	I1		
Elevation:	751	Depth flag:	Not Reported
Elev methd:	T1	Swl flag:	2
Elev flag:	Not Reported	Elev dif:	0
Elev dem:	751	Aq code:	D
Elev miv:	751	Pct aq:	21
Aq flag:	Not Reported	Pct aq r:	0
Pct aq d:	21	Pct maq d:	0
Pct maq:	0	Pct cm:	79
Pct maq r:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	79	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	70
Pct maq 1:	0	Pct cm 1:	30
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	15	Pct maq 4:	0
Pct cm 4:	85	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Test Type	Zip	Floor	Stop Date	Can 1 Res pCi/L	Can 1 Error	Can 2 Res pCi/L	Can 2 Error
Random	48858			NR			
Random	48858			NR			
Random	48858	0	3/1/88	0.5	35.5%		
Random	48858	0	12/9/87	0.7	39.7%		
Random	48858	0	12/5/87	0.7	32.1%		
Random	48858	0	4/25/87	1.2	16.4%		
Random	48858	1	11/09/87	1.2	18.4%		
Random	48858	0	5/12/87	1.3	15.2%		
Random	48858	0	12/7/87	2.3	9.4%		
Random	48858	0	1/19/88	3.3	6.4%		
Geographic	48858	0	3/7/88	2.2	10.3%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48858		4.50
48858		4.20
48858		0.60
48858		3.00
48858		0.60
48858		2.70
48858		3.50
48858		2.20
48858	<	0.30
48858		1.00
48858		3.70
48858		6.50
48858		5.60
48858		3.20
48858		3.70
48858		0.70
48858		0.70
48858		1.00
48858		7.70
48858		0.90
48858		1.80
48858		7.30
48858		19.20
48858		

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON**

AREA RADON INFORMATION

		1.30
48858	<	0.30
48858		13.00
48858	<	0.30
48858	<	0.30
48858		3.50
48858		1.90
48858		2.90
48858	<	0.30
48858		2.40
48858		6.30
48858		1.00
48858		7.40
48858		2.60
48858		1.70
48858		3.40
48858		4.60
48858		1.20
48858		2.80
48858		1.10
48858		2.70
48858		5.70
48858		1.50
48858		1.00
48858		1.40
48858	<	0.30
48858	<	0.30
48858		5.70
48858	<	0.30
48858		1.80
48858		2.00
48858	<	0.30
48858		0.80
48858		5.10
48858	<	0.30
48858		0.50
48858		0.80
48858		0.80
48858	<	0.30
48858		7.80
48858		1.10
48858		0.90
48858		1.30
48858		1.60
48858		0.50
48858		1.30
48858		1.20
48858		5.40
48858		0.70
48858		1.50
48858		3.60
48858		0.70
48858		1.20
48858		0.90
48858		0.60
48858	<	0.30
48858		

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON**

AREA RADON INFORMATION

		1.10
48858		1.30
48858		1.00
48858		1.00
48858		1.30
48858		1.40
48858		0.90
48858		1.00
48858		1.90
48858		0.80
48858	<	0.30
48858		5.20
48858		0.80
48858		1.70
48858		1.00
48858		4.80
48858		0.60
48858	<	0.30
48858		0.70
48858		0.80
48858		3.30
48858	<	0.30
48858		3.30
48858	<	0.30
48858		1.50
48858	<	0.30
48858	<	0.30
48858	<	0.30
48858		1.30
48858		1.50
48858		1.30
48858		1.20
48858		2.20
48858		5.60
48858	<	0.30
48858		1.00
48858	<	0.30
48858		0.60
48858		1.10
48858		1.60
48858		5.50
48858		1.90
48858		2.40
48858	<	0.30
48858		0.50
48858	<	0.30
48858	<	0.30
48858		0.50
48858	<	0.30
48858	<	0.80
48858	<	0.30
48858		0.60
48858		1.00
48858		3.00
48858		1.90
48858		2.00
48858		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

		0.40
48858		2.70
48858		12.00
48858		2.00
48858	<	0.30
48858		4.00
48858		13.30
48858		0.50
48858	<	0.30
48858		3.50
48858	<	0.30
48858	<	0.30
48858		2.40
48858		13.10
48858		15.40
48858		3.70
48858		0.50
48858		2.30
48858	<	0.30
48858	<	0.30
48858		1.40
48858		6.80
48858		1.70
48858		2.20
48858		0.60
48858		2.10
48858		1.50
48858		1.10
48858		0.90
48858		2.00
48858		3.70
48858		3.50
48858		0.70
48858		3.40
48858		3.10
48858		5.50
48858		3.30
48858	<	0.30
48858	<	0.30
48858		3.10
48858	<	0.30
48858		2.10
48858		0.70
48858		4.40
48858		1.20
48858		1.20
48858		2.10
48858		0.70
48858		4.40
48858		1.50
48858		2.50
48858		1.90
48858	<	0.30
48858		5.10
48858		5.80
48858		4.20
48858		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

		1.70
48858		4.10
48858		1.40
48858		1.30
48858		3.90
48858		1.10
48858		11.70
48858		2.00
48858		1.30
48858		4.30
48858		0.70
48858		4.50
48858		0.80
48858		4.50
48858		1.50
48858		0.60
48858		4.20
48858	<	0.30
48858		1.10
48858		7.00
48858		1.10
48858		3.00
48858		0.70
48858		2.00
48858	<	0.30
48858		1.10
48858		1.60
48858		1.30
48858		1.90
48858		3.50
48858		1.00
48858		1.40
48858		4.30
48858		1.80
48858		1.10

Federal EPA Radon Zone for ISABELLA County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 48858

Number of sites tested: 32

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.700 pCi/L	94%	6%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.417 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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[Home](#) |
 [Underground Storage Tank](#) |
 [Leaking Underground Storage Tank](#) |
 [Download Excel Files](#) |
 [Qualified Consultant](#) |
 [Forms & Documents](#)

Storage Tank Information Database

Storage Tank Facilities List

SID-DEQ

Facility and Tank Details

Facility Information:
 Facility ID:00009503
 Mt. Pleasant State Police Pst
 1011 N MISSION, MT PLEASANT, MI 48858
 Phone#: (517) 322-5004

Owner Information:
 MDMB - Department of Management and Budget
 Mason Building Room 120, Lansing, MI 48909
 Phone#: (517) 241-2927

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	6000	3/28/1971 12:00:00 AM	Gasoline			Galvanized Steel	Suction: No Valve At Tank	Asphalt Coated or Bare Steel, Cathodically Protected Steel	No
2	Removed from Ground	6000	3/28/1971 12:00:00 AM	Gasoline			Galvanized Steel	Suction: No Valve At Tank	Asphalt Coated or Bare Steel, Cathodically Protected Steel	No

Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-0960-92	Michigan State Police - Mt Pleas	06/16/1992		Open			

[Michigan.gov Home](#) | [DEQ Home](#) | [Online Services](#) | [Permits](#) | [Programs](#) | [Site Map](#) | [Contact DEQ](#)
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Central Michigan District Health Department

People Caring For People

Robert W. Graham, D.O., MPH
Medical Director

Mary L. Kushion, MSA
Health Officer

Fax Transmittal Sheet

Main Office
2012 E. Preston Ave.
Mt. Pleasant, MI 48858
Administration 989-773-5921
FAX 989-773-4319

Branch Offices:

Arenac County
3727 Deep River Rd.
Standish, MI 48868
989-848-6541
FAX 989-846-0431

Clare County
225 W. Main
P.O. Box 237
Harrison, MI 48825
989-539-6731
FAX 989-539-4449

Gladwin County
103 N. Bowery
Gladwin, MI 48624
989-428-9431
FAX 989-426-8952

Isabella County
2012 E. Preston Ave.
Mt. Pleasant, MI 48858
989-773-5921
FAX 989-773-4319

Oceola County
115 N. Seare St.
Reed City, MI 49677
231-832-5532
FAX 231-832-1020

Marion Human Services
502 E. Main Street
P.O. Box 39
Marion, MI 49885
231-743-9877
FAX 231-743-2140

Roscommon County
1015 Short Drive
P.O. Box 739
Prudenville, MI 48651
989-366-9168
FAX 989-366-8921

DATE: 9/18/06

TO: Stephen K. Young

FAX NUMBER: 616-456-5784

FROM: Environmental Health Division County Isabella
Name _____

COMMENTS: A search of our records did not reveal any information
for 1011 North Mission Street in Mt. Pleasant, Michigan.

NUMBER OF PAGES INCLUDING THIS PAGE: 1

Facsimile Confidentiality Notice

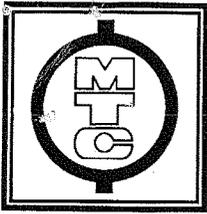
The documents accompanying this transmission contain confidential public health information that is legally privileged. This information is intended only for the use of the individual or entity named above. The authorized recipient of this information is prohibited from disclosing this information to any other party unless required to do so by law or regulation and is required to destroy the information after its stated need has been fulfilled.

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Fax sent by (initials) CJB Date Sent: 9/18/06

APPENDIX H

Interview Documentation



**Materials
Testing
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505
(616) 456-5469 • FAX (616) 456-5784

ASTM E 1527-05
Phase I Environmental Site Assessment
Interview Questionnaire

Directions

For each subheading, provide any information you possess with regards to the requested item. If an item does not apply, mark "None." If you have no knowledge with regards to a particular item, mark "Unknown."

Subject Site

1) Current use(s) of the property (include types and quantities of hazardous substances and/or petroleum products utilized, along with types of containers and storage conditions)

Vacant

2) Past use(s) of the property

Office, Public

3) Topographic conditions of the property

4) Structure(s) located on the property (include age and number of stories)

60yrs Approx. 2 Stories

5) Public thoroughfares adjoining the property

Bus 27 (Mission St)

6) Roads, streets, and/or parking facilities on the property

Parking

7) The potable water supply system

City water

8) The sewage disposal system (include age)

City sewage

9) How the building(s) are heated and cooled (include fuel sources)

?

10) Storage tanks, either above ground or below ground

was a underground gas tank that has been removed.

11) Strong, pungent, or noxious odors

None

12) Pools of liquid

13) Storage drums >5 gal

Ø

14) Hazardous substance and/or petroleum product containers on the property that are not used in conjunction with the identified current use of the property use (include quantity, types of containers, and storage conditions)

none

15) Unidentified substance containers suspected of containing hazardous substances and/or petroleum products (include quantity, types of containers, and storage conditions)

unknown

16) Electrical and/or hydraulic equipment located on the property that is known or likely to contain PCBs

unknown

17) Stains and/or corrosion on the floors, walls, or ceilings of any structure(s) located on the property?

?

18) Floor drains and/or sumps located in any structure(s) located on the property

?

19) Pits, ponds, or lagoons on the property

?

20) Stained soil or pavement on the property

?

21) Stressed vegetation (from something other than insufficient water) on the property

?

22) Areas suggesting solid waste disposal

?

23) Liquid discharged into a drain, ditch, underground injection system, or stream

none -

24) Wells (dry, irrigation, injection, abandoned, or other)

?

25) On-site septic systems or cesspools

?

Adjoining Properties

1) Current use(s) of each adjoining property

Hardware Store

2) Past use(s) of each adjoining property

?

3) Topographic conditions of each adjoining property

level lot

4) Pits, ponds, or lagoons on each adjoining property

None

5) Liquid discharged into a drain, ditch, underground injection system, or stream on each adjoining property

None

Surrounding Area

1) Current use(s) of the surrounding area

City of Mt Pleasant

2) Past use(s) of the surrounding area

3) Topographic conditions of the surrounding area

Certification

I certify that to the best of my knowledge the above statements and facts are true and correct and that no material facts have been suppressed or misstated.

Name F/Lt Chris Stolicke

Address Isabella, MT Pleasant MI

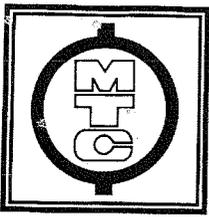
Phone Number 989 773 5951

E-mail Stolicke@Michigan.gov

Signature [Handwritten Signature]

Date 9/28/06

ASTM E 1527-05 Classification: Key Site Manager / Occupant / Other (Specify: _____)



**Materials
Testing
Consultants, INC.**

693 Plymouth NE • Grand Rapids, MI 49505
(616) 456-5469 • FAX (616) 456-5784

ASTM E 1527-05
Phase I Environmental Site Assessment
Interview Questionnaire – Helpful Documents and Proceedings

Helpful Documents

Please indicated your knowledge regarding the existence of the documents listed in the table below. Also, if the document exists, indicate whether or not a copy can be provided. Y=Yes, N=No, U= Unknown.

Document	Exist	Copy
Environmental site assessment reports	Y N <u>U</u>	Y N
Environmental compliance audit reports	Y N <u>U</u>	Y N
Environmental permits	Y N <u>U</u>	Y N
Registrations for storage tanks (both underground and above-ground)	Y N <u>U</u>	Y N
Registrations for underground injection systems	Y N <u>U</u>	Y N
Material Safety Data Sheets	Y N <u>U</u>	Y N
Community Right-to-know Plan	Y N <u>U</u>	Y N
Safety plans	Y N <u>U</u>	Y N
Preparedness and prevention plans	Y N <u>U</u>	Y N
Spill Prevention, Countermeasure, and Control Plans	Y N <u>U</u>	Y N
Reports regarding hydrogeologic conditions on the property and/or surrounding area	Y N <u>U</u>	Y N
Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	Y N <u>U</u>	Y N
Hazardous waste generator notices or reports	Y N <u>U</u>	Y N
Geotechnical studies	Y N <u>U</u>	Y N
Risk assessments	Y N <u>U</u>	Y N
Recorded Activity and Use Limitations	Y N <u>U</u>	Y N

Proceedings

Provide any information you possess with regards to the items below. If an item does not apply, mark "None." If you have no knowledge with regards to an item, mark "Unknown."

1) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property.

Unknown

2) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property.

Unknown

3) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

Unknown

Certification

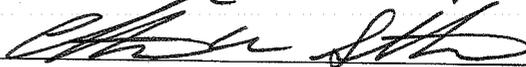
I certify that to the best of my knowledge the above statements and facts are true and correct and that no material facts have been suppressed or misstated.

Name F/lt Chris Stolicke

Address Isabella St, Mt Pleasant MI 48858

Phone Number 989 773 5951

E-mail Stolicke@michigan.gov

Signature 

Date 9/29/06

ASTM E 1527-05 Classification: Property Owner / Key Site Manager / User

X3. USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*³⁵ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),³⁶ the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

- (a.) Do you know the past uses of the *property*?
- (b.) Do you know of specific chemicals that are present or once were present at the *property*?
- (c.) Do you know of spills or other chemical releases that have taken place at the *property*?
- (d.) Do you know of any environmental cleanups that have taken place at the *property*?

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

³⁵ *Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued on March 6, 2003.

³⁶ P.L. 107-118.

X3.1 In addition, certain information should be collected, if available, and provided to the *environmental professional* selected to conduct the Phase I. This information is intended to assist the *environmental professional* but is not necessarily required to qualify for one of the *LLPs*. The information includes:

- (a) the reason why the Phase I is required,
- (b) the type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc.,

- (c) the complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful),

- (d) the scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527 are to be considered),

- (e) identification of all parties who will rely on the Phase I report,

(f) identification of the site contact and how the contact can be reached,

(g) any special terms and conditions which must be agreed upon by the *environmental professional*, and

(h) any other knowledge or experience with the *property* that may be pertinent to the *environmental professional* (for

example, copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition).

Steve Young

From: Judson Sorensen [sorensenj@michigan.gov]
Sent: Tuesday, December 05, 2006 7:31 AM
To: Steve Young
Subject: Fwd: Mt. Pleasant & Alpena Phase 1 Answers

Steve,

Finally got a response from Tracy DeClercq concerning the questionnaire. She did not know too much. Let me know if you have questions.

Thanks,

Jud

>>> Tracy DeClercq 12/4/2006 3:06 PM >>>

Hi Jud,

Below are the answers to the phase 1 user questionnaires. As I mentioned previously, both locations have been vacant for awhile, and there was not much detail.

Mt. Pleasant

1. No.
2. No.
3. N/A
4. Purchase price not yet determined.
5. a. Michigan State Police Post
b. Gasoline
c. No.
d. No.
6. No.

Alpena

1. No.
2. N..
3. N/A
4. Purchase price not yet determined.
5. a. Michigan State Police Post
b. Gasoline
c. No.
d. No.
6. No.

APPENDIX I

Aerial Photographs



EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Michigan State Police Post
1011 North Mission Street
Mount Pleasant, MI 48858**

Inquiry Number: 1755372.5

September 19, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography September 19, 2006

Target Property:

1011 North Mission Street

Mount Pleasant, MI 48858

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	AAA
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	PMA
1958	Aerial Photograph. Scale: 1"=500'	Flight Year: 1958	CSS
1965	Aerial Photograph. Scale: 1"=500'	Flight Year: 1965	ASCS
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1982	Aerial Photograph. Scale: 1"=600'	Flight Year: 1982	ASCS
1992	Aerial Photograph. Scale: unknown	Flight Year: 1992	FSA