



BORING/WELL: CHTC-SB-01

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-16-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 8 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. <b>TOPSOIL</b> <b>SAND</b> <b>SILTY SAND</b> <b>SAND</b> E.O.B.	0 5 10 15 20 25 30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.17055328  
 LONGITUDE: -88.43158343  
 DATUM: MichGeoRef  
 NORTHING: 738256.398  
 EASTING: 315577.201

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-02/GW-01

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton  
 TOWNSHIP: Osceola  
 TOWN: 55N  
 RANGE: 33W  
 SECTION: 13

DATE: 5-16-15  
 DRILLER: Chris Black  
 GEOLOGIST: Jeff Pincumbe  
 DRILL METHOD: Geoprobe  
 TOTAL DEPTH: 20 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
			5				
		SAND					
		SAND					
			10				
		NO CUTTINGS					
			15				
			20				
			E.O.B.				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.1701299  
 LONGITUDE: -88.43206494  
 DATUM: MichGeoRef  
 NORTHING: 738210.495  
 EASTING: 315539.269

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-03

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W



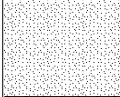
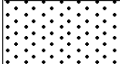
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 8 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND and GRAVEL					
		SAND	5				
		SAND					
			E.O.B. 10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16927136

LONGITUDE: -88.43293383

DATUM: MichGeoRef

NORTHING: 7382117.161

EASTING: 315470.492



BORING/WELL: CHTC-SB-04/GW-02

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 17 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		CLAY CAP					
		SAND					
		NO CUTTINGS	5				
			10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16890037

LONGITUDE: -88.43213188

DATUM: MichGeoRef

NORTHING: 738074.067

EASTING: 315529.968



BORING/WELL: CHTC-SB-05

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

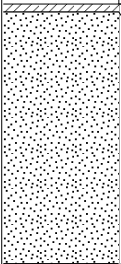

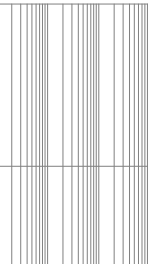
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 8 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. <b>CLAY CAP SAND</b>	0				
		E.O.B.	5				
			10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16813001  
 LONGITUDE: -88.43247236  
 DATUM: MichGeoRef  
 NORTHING: 737989.289  
 EASTING: 315501.525

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-06

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 5 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. TOPSOIL SAND SAND E.O.B.	0 5 10 15 20 25 30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16717678  
 LONGITUDE: -88.43288733  
 DATUM: MichGeoRef  
 NORTHING: 737884.371  
 EASTING: 315466.808

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-07/GW-03

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

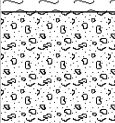
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. <b>TOPSOIL FILL</b>	0				
		<b>NO CUTTINGS</b>	5				
			10				
			15				
		E.O.B.	15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16683151

LONGITUDE: -88.43312468

DATUM: MichGeoRef

NORTHING: 737846.572

EASTING: 315447.638



BORING/WELL: CHTC-SB-08/GW-04

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		SAND					
		NO CUTTINGS	5				
			10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16745791

LONGITUDE: -88.43361549

DATUM: MichGeoRef

NORTHING: 737917.309

EASTING: 315412.610





BORING/WELL: CHTC-SB-09/GW-05

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W



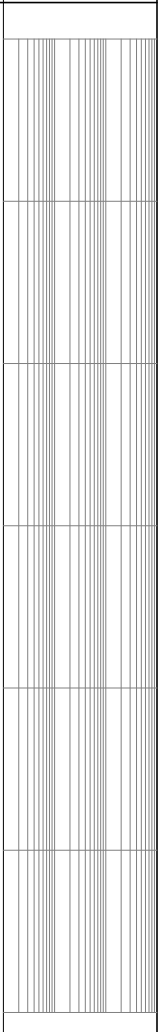
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		<p>Grd. 0</p> <p>SAND</p> <p>SILT SAND</p> <p>SAND</p> <p>NO CUTTINGS</p> <p>E.O.B. 15</p>	<p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p> <p>30</p>				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16643487  
 LONGITUDE: -88.43393609  
 DATUM: MichGeoRef  
 NORTHING: 737804.415  
 EASTING: 315384.801

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-10/GW-06

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W



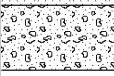
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		SAND					
		NO CUTTINGS	5				
			10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16704548

LONGITUDE: -88.43437576

DATUM: MichGeoRef

NORTHING: 737873.278

EASTING: 315353.593



BORING/WELL: CHTC-SB-11/GW-07

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


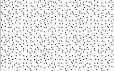
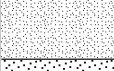
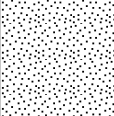
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 17 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND and GRAVEL					
		SAND					
		SAND	5				
		NO CUTTINGS	10				
			15				
			E.O.B. 20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.1687339

LONGITUDE: -88.43358273

DATUM: MichGeoRef

NORTHING: 738058.979

EASTING: 315419.484



BORING/WELL: CHTC-SB-12/GW-08

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W





DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 20 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		<b>FILL</b>	5				
		<b>SAND</b>					
		<b>SILTY SAND</b>	10				
		<b>SAND</b>					
		<b>NO CUTTINGS</b>	15				
			E.O.B. 20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16844064

LONGITUDE: -88.43556556

DATUM: MichGeoRef

NORTHING: 738031.057

EASTING: 315268.261



BORING/WELL: CHTC-SB-13/GW-09

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 21 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		SAND					
		SAND					
		SAND	5				
		SAND	10				
		NO CUTTINGS	15				
			20				
			E.O.B.				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16817832

LONGITUDE: -88.43566862

DATUM: MichGeoRef

NORTHING: 738002.159

EASTING: 315259.549



BORING/WELL: CHTC-SB-14/GW-10

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

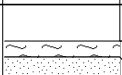
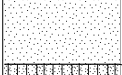
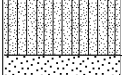

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 16 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		SILTY SAND					
		SAND	5				
		NO CUTTINGS	10				
			15				
		E.O.B.	20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16715347  
 LONGITUDE: -88.43508774  
 DATUM: MichGeoRef  
 NORTHING: 737886.947  
 EASTING: 315300.026

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-15/GW-11

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W



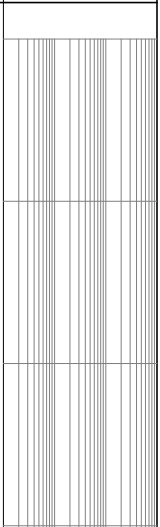
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. <b>TOPSOIL FILL</b>  <b>SAND</b> <b>NO CUTTINGS</b>	0  5  10  15				
		E.O.B.	15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16734258  
 LONGITUDE: -88.43572444  
 DATUM: MichGeoRef  
 NORTHING: 737909.450  
 EASTING: 315252.442



BORING/WELL: CHTC-SB-16/GW-12

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-14-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 13.5

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		<p>Grd. 0</p> <p>TOPSOIL</p> <p>CLAY</p> <p>SAND</p>	<p>0</p> <p>5</p> <p>10</p>				
		<p>E.O.B. 15</p> <p>20</p> <p>25</p> <p>30</p>	<p>15</p> <p>20</p> <p>25</p> <p>30</p>				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16537967

LONGITUDE: -88.44281344

DATUM: MichGeoRef

NORTHING: 737708.075

EASTING: 314708.606





BORING/WELL: CHTC-SB-17/GW-13

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-14-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 19 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		SAND	5				
		SAND	10				
		SAND	15				
		NO CUTTINGS					
			E.O.B. 20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16531132

LONGITUDE: -88.44263354

DATUM: MichGeoRef

NORTHING: 737700.058

EASTING: 314721.999



BORING/WELL: CHTC-SB-18/GW-14

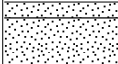
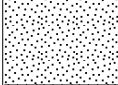
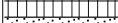
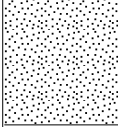
# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton  
 TOWNSHIP: Osceola  
 TOWN: 55N  
 RANGE: 33W  
 SECTION: 13

DATE: 5-14-15  
 DRILLER: Chris Black  
 GEOLOGIST: Jeff Pincumbe  
 DRILL METHOD: Geoprobe  
 TOTAL DEPTH: 13 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		SAND					
		SAND					
		SILT	5				
		SAND					
		NO CUTTINGS	10				
		E.O.B.	15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16531913  
 LONGITUDE: -88.44262538  
 DATUM: MichGeoRef  
 NORTHING: 737686.706  
 EASTING: 314722.203



BORING/WELL: CHTC-SB-19/GW-15

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-14-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

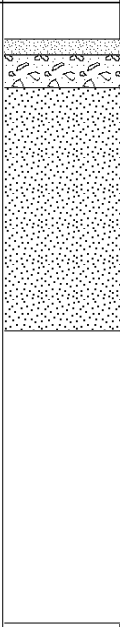
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 13 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. FILL FILL SAND	0 5				
		NO CUTTINGS	10				
		E.O.B.	20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16497625

LONGITUDE: -88.4430161

DATUM: MichGeoRef

NORTHING: 737663.737

EASTING: 314691.858



BORING/WELL: CHTC-SB-20/GW-16

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-14-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


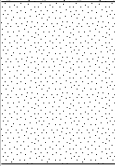
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 9 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd.				
		<b>FILL</b>	0				
		<b>SAND</b>	5				
			E.O.B.				
			10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.1647135

LONGITUDE: -88.44318972

DATUM: MichGeoRef

NORTHING: 737634.958

EASTING: 314677.796



BORING/WELL: CHTC-SB-21

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


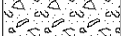



DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 16 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		FILL	5				
		SAND	10				
		SAND	15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16394039  
 LONGITUDE: -88.44259234  
 DATUM: MichGeoRef  
 NORTHING: 737547.668  
 EASTING: 314720.385

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-22/GW-17

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 21 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd.				
	FILL	FILL	0				
			5				
			10				
	SAND	SAND	15				
		NO CUTTINGS	20				
			25				
			30				
		E.O.B.					

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16331295  
 LONGITUDE: -88.44328494  
 DATUM: MichGeoRef  
 NORTHING: 737479.600  
 EASTING: 314665.743

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-23/GW-18

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 19 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		SAND					
		SAND	5				
		NO CUTTINGS	10				
			15				
			E.O.B. 20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.1637060

LONGITUDE: -88.443441

DATUM: MichGeoRef

NORTHING: 737523.631

EASTING: 314655.277



BORING/WELL: CHTC-SB-24/GW-19

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W



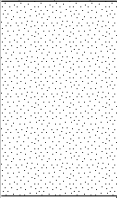
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 9 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		FILL					
		SAND					
		SAND	5				
		E.O.B.	10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.163962

LONGITUDE: -88.444002

DATUM: MichGeoRef

NORTHING: 737553.391

EASTING: 314613.659





BORING/WELL: CHTC-SB-25/GW-20

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

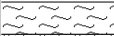

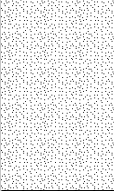

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 13 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		SAND	5				
		SAND					
		NO CUTTINGS	10				
		E.O.B.	15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.163269

LONGITUDE: -88.444257

DATUM: MichGeoRef

NORTHING: 737476.898

EASTING: 314591.940



BORING/WELL: CHTC-SB-26/GW-21

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 21 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd.				
		<b>FILL</b>	0				
			5				
		<b>SAND</b>	10				
		<b>NO CUTTINGS</b>	15				
			20				
			25				
			30				
			E.O.B.				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.1625873

LONGITUDE: -88.44389207

DATUM: MichGeoRef

NORTHING: 737400.421

EASTING: 314617.236



BORING/WELL: CHTC-SB-27/GW-22

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-15-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 8 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. TOPSOIL SAND SAND SAND E.O.B.	0 5 10 15 20 25 30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16338029

LONGITUDE: -88.44491497

DATUM: MichGeoRef

NORTHING: 737490.923

EASTING: 314542.477



BORING/WELL: CHTC-SB-28/GW-23

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 5-16-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 21 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND	5				
		SAND	10				
		SAND	15				
		NO CUTTINGS	20				
			E.O.B.				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16210889

LONGITUDE: -88.44457414

DATUM: MichGeoRef

NORTHING: 737348.884

EASTING: 314563.904



BORING/WELL: CHTC-SB-30/GW-25

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-16-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 27 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND	5				
			10				
			15				
		NO CUTTINGS	20				
			25				
			E.O.B.				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16148863

LONGITUDE: -88.44472524

DATUM: MichGeoRef

NORTHING: 737280.338

EASTING: 314550.312



BORING/WELL: CHTC-SB-31/GW-26

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-16-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 7 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		<p>Grd. 0</p> <p><b>FILL</b></p> <p>5</p> <p><b>SANDSTONE</b></p> <p>E.O.B.</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p> <p>30</p>	<p>0</p> <p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p> <p>30</p>				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.16139934

LONGITUDE: -88.44576882

DATUM: MichGeoRef

NORTHING: 737272.880

EASTING: 314470.934



BORING/WELL: CHTC-SB-32/GW-27

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-16-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

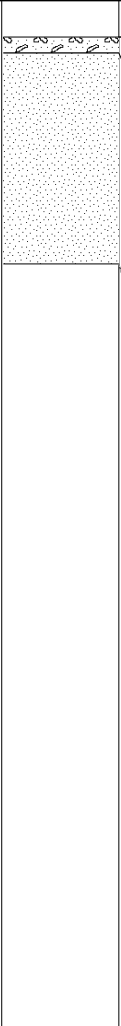
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 7 ft

LOCATION DESCRIPTION: Tamarack Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. 0 FILL SAND E.O.B. 10 15 20 25 30					

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16181792  
 LONGITUDE: -88.44603616  
 DATUM: MichGeoRef  
 NORTHING: 737320.010  
 EASTING: 314452.126

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-34/GW-29

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-18-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

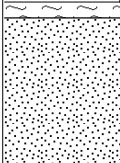
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 ft

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		TOPSOIL					
		SAND					
		NO CUTTINGS	5				
			10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.1662463

LONGITUDE: -88.43547256

DATUM: MichGeoRef

NORTHING: 737787.076

EASTING: 315267.748





BORING/WELL: CHTC-SB35/GW30

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 12 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
	SAND						
		NO CUTTINGS	5				
			10				
			E.O.B. 15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.165578403  
 LONGITUDE: -88.437913520  
 DATUM: MichGeoRef  
 NORTHING: 737718.618  
 EASTING: 315080.517

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB36/GW31

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


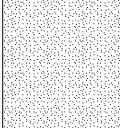
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		CLAY CAP					
		SAND					
		NO CUTTINGS	5				
			10				
			15				
		E.O.B.					
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.163172235

LONGITUDE: -88.436829993

DATUM: MichGeoRef

NORTHING: 737448.776

EASTING: 315154.314



BORING/WELL: CHTC-SB37/GW32

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


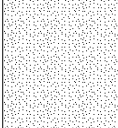


DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 10 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
	 	CLAY CAP SAND					
		NO CUTTINGS	5				
			E.O.B. 10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.164165864  
 LONGITUDE: -88.438625672  
 DATUM: MichGeoRef  
 NORTHING: 737563.378  
 EASTING: 315021.692

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB38/GW33

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 25 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
	Grd.		0				
	CLAY CAP SAND		5				
			10				
			15				
	NO CUTTINGS		20				
			25				
	E.O.B.		30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.158785418  
 LONGITUDE: -88.444315917  
 DATUM: MichGeoRef  
 NORTHING: 736979.081  
 EASTING: 314571.980

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB39/GW34

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


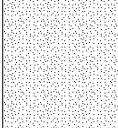
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 10 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd.	0				
		CLAY CAP					
		SAND					
		NO CUTTINGS	5				
		E.O.B.	10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.164510689

LONGITUDE: -88.436917044

DATUM: MichGeoRef

NORTHING: 737597.666

EASTING: 315152.332



BORING/WELL: CHTC-SB40/GW35

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 21 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
	Grd.		0				
	CLAY CAP SAND		5				
			10				
			15				
		NO CUTTINGS	20				
		E.O.B.	25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.161789308  
 LONGITUDE: -88.440043963  
 DATUM: MichGeoRef  
 NORTHING: 737302.710  
 EASTING: 314906.038

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB41/GW36

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 25 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
	Grd.		0				
	CLAY CAP SAND		5				
			10				
			15				
			20				
		NO CUTTINGS	25				
		E.O.B.	30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.160273812

LONGITUDE: -88.441980556

DATUM: MichGeoRef

NORTHING: 737138.918

EASTING: 314754.073



BORING/WELL: CHTC-SB42/GW37

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 8-21-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 13 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
	Grd.		0				
	CLAY CAP SAND		5				
	NO CUTTINGS		10				
	E.O.B.		15				
			20				
			25				
			30				

VERTICAL DATUM: NA

GRD. ELEVATION: NA

T.O.C.: NA

S.W.L.: NA

CASING: NA

SCREEN: NA

WELL DEPTH: NA

COMPLETION NOTES: Backfilled with bentonite

LATITUDE: 47.159022606

LONGITUDE: -88.445546425

DATUM: MichGeoRef

NORTHING: 737008.332

EASTING: 314479.564





BORING/WELL: CHTC-SB43/GW38

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-21-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W


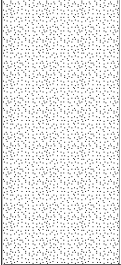
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 10 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		CLAY CAP	0				
		SAND	0-10				
		NO CUTTINGS	10				
		E.O.B.	10				
			15				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.157945669  
 LONGITUDE: -88.442244133  
 DATUM: MichGeoRef  
 NORTHING: 736880.913  
 EASTING: 314726.061

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB-44/GW-39

# SITE: Abandoned Mining Wastes - Torch Lake

COUNTY: Houghton

DATE: 5-17-15

TOWNSHIP: Osceola

DRILLER: Chris Black

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

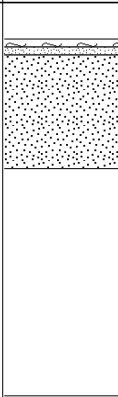
DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 11 ft

LOCATION DESCRIPTION: Ahmeek Mill Processing Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
		Grd. TOPSOIL SAND SAND NO CUTTINGS	0 5 10 15 20 25 30				
		E.O.B.					

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.16668919  
 LONGITUDE: -88.43221635  
 DATUM: MichGeoRef  
 NORTHING: 737828.631  
 EASTING: 315515.963

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB45/GW40

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 17 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd.				
	CLAY CAP	CLAY CAP	0				
	SAND	SAND	5				
		NO CUTTINGS	10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.164178853  
 LONGITUDE: -88.441385446  
 DATUM: MichGeoRef  
 NORTHING: 737571.316  
 EASTING: 314812.647

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB47/GW43

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-22-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 15 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
	SAND		5				
		NO CUTTINGS	10				
			15				
			E.O.B.				
			20				
			25				
			30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.165557104  
 LONGITUDE: -88.436432976  
 DATUM: MichGeoRef  
 NORTHING: 737712.771  
 EASTING: 315192.612

COMPLETION NOTES: Backfilled with bentonite



BORING/WELL: CHTC-SB48/GW44

**SITE: Abandoned Mining Wastes - Torch Lake**

COUNTY: Houghton

DATE: 8-21-15

TOWNSHIP: Osceola

DRILLER: Jeremy Brown

TOWN: 55N

GEOLOGIST: Jeff Pincumbe

RANGE: 33W

DRILL METHOD: Geoprobe

SECTION: 13

TOTAL DEPTH: 30 feet

LOCATION DESCRIPTION: Tamarack Sands Area

ERNIE#: 31000098

WELL CONSTRUCTION	LITHOLOGIC LOG	DESCRIPTION	DEPTH	SAMPLE ID	SAMPLE TYPE	FIELD SCREENING RESULTS	PID ppm 1 1000
			Grd. 0				
		<b>CLAY CAP</b>					
		<b>SAND</b>	5				
			10				
		<b>SANDS</b>	15				
			20				
			25				
		<b>NO CUTTINGS</b>	30				

VERTICAL DATUM: NA  
 GRD. ELEVATION: NA  
 T.O.C.: NA  
 S.W.L.: NA  
 CASING: NA  
 SCREEN: NA  
 WELL DEPTH: NA

LATITUDE: 47.163890606  
 LONGITUDE: -88.441820656  
 DATUM: MichGeoRef  
 NORTHING: 737540.320  
 EASTING: 314778.678

COMPLETION NOTES: Backfilled with bentonite