

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Trap Rock Dump - Shoreline Development Group

Property Identification Number:

012-055-038-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : The property is bound on the north by 9th Street, to the south by the Torch Lake Backwater, and to the east by the Trap Rock River. The property is generally undeveloped and surrounds a small parcel that contains two small commercial storage units. The eastern-central portion of the property features a semi-circular gravel drive, that appears to be used for tractor trailer staging. There is a utility pole located in the center of the gravel drive that appears to have electrical service. The eastern half of the property is generally flat, sloping slightly to the east towards the Trap Rock River. There are multiple debris piles, that are primarily composed of "clinker" and slag-like material. The debris piles are competent and solid structures with a sharp/abrasive exterior. South of the debris piles, along the shore line of the Trap Rock River and the Torch Lake Backwater, the topography changes, rising abruptly 20 to 30 feet. Glass bottles and weathered metal debris observed on the ground surface in this area suggests that it was likely the location of the former township dump. The western portion of the property is also generally flat, featuring several more "clinker" piles. The area is well-vegetated with trees and substantial grass coverage.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude: 47° 11'45.263" Longitude: 88° 23'48.655"	Clinker/Slag debris sparsely distributed throughout the vegetated area to the east of the access road.					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°11'44.33" Longitude: 88°23'51.34"	CLINKER PILE01 - Large mass of clinkers.					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°11'43.30" Longitude: -88°23'55.97"	CLINKER PILE02 - Large mass of clinkers.					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.196061194 Longitude: -88.397858284	Several cubic yards of concrete debris/slab material					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.195497533 Longitude: -88.398428085	SACM01 - Asphaltic roofing material commingled with concrete and clinkers. A tire is also located nearby.					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.195211175 Longitude: -88.398193640	HOUSEHOLD WASTE01 - Glass bottles commingled with clinker waste.					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____	✓							



View looking south/southwest at the Trap Rock dump property.



View looking south at a clinker piles located on the property.

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Property (Common Name):

Trap Rock Dump - Shoreline Development Group

Property Identification Number:

012-055-038-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : The property is bound on the north by 9th Street, to the south by the Torch Lake Backwater, and to the east by the Trap Rock River. The property is generally undeveloped and surrounds a small parcel that contains two small commercial storage units. The eastern-central portion of the property features a semi-circular gravel drive, that appears to be used for tractor trailer staging. There is a utility pole located in the center of the gravel drive that appears to have electrical service. The eastern half of the property is generally flat, sloping slightly to the east towards the Trap Rock River. There are multiple debris piles, that are primarily composed of "clinker" and slag-like material. The debris piles are competent and solid structures with a sharp/abrasive exterior. South of the debris piles, along the shore line of the Trap Rock River and the Torch Lake Backwater, the topography changes, rising abruptly 20 to 30 feet. Glass bottles and weathered metal debris observed on the ground surface in this area suggests that it was likely the location of the former township dump. The western portion of the property is also generally flat, featuring several more "clinker" piles. The area is well-vegetated with trees and substantial grass coverage.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude: 47° 11'45.263" Longitude: 88° 23'48.655"	HOUSEHOLD WASTE02 - Glass bottles, metal debris					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____	✓							
Suspect ACM		Latitude: 47.196416988 Longitude: -88.400529157	CONTAINER01 - White approximately 3-gallon, plastic, approximately 1/4 full.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°11'45.64" Longitude: -88°23'53.59"	CLINKER PILE03 - Large mass of clinkers.					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°11'46.93" Longitude: -88°23'58.24"	CLINKER PILE04 - Large mass of clinkers.					
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.194922891 Longitude: -88.398660325	HOUSEHOLD WASTE03 - Glass bottles, metal debris					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____	✓							
Suspect ACM		Latitude: Longitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								



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Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Ken's Storage Units - Commercial

Property Identification Number:

Unknown

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : The property is bound on the north by 9th Street and to the west, south, and east by Parcel No. 012-055-038-00. The subject property does not front along the shoreline of the Torch Lake Backwater. The property is not fenced and features two structure that are used for commercial storage. The topography of the parcel is flat, featuring gravel access roads that provide access to all sides of the storage buildings. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking south/southwest at the subject property.

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Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Residential - Mentink

Property Identification Number:

012-055-038-10

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this private property. Observations were recorded from adjacent properties where access is granted.. The property is bound on the north by 9th Street, to the south by the Torch Lake Backwater, to the east by to Parcel No. 012-055-038-00 , and to the west by Parcel No. 012-005-122-10. The property features one residential home set approximately 250 feet south of 9th Street and approximately 50 feet from the Torch Lake Backwater shoreline. The topography of the property appears to be relatively flat, sloping gradually to the south towards the shoreline. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking south at the subject property.

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Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Frog Valley Woods - Commercial

Property Identification Number:

012-055-122-10

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by 9th Street, to the west by Parcel No. 012-055-038-30 and a residential property, to the south by the Torch Lake Backwater, and to the east by to Parcel No. 012-055-038-10. The property features two primary buildings and several out buildings/shelters that are used for storage. The primary buildings house wood shop operations and storage. The buildings are accessible via a circular gravel drive that circles the central portion of the property. Other wood storage areas are accessible by smaller less-developed “two-track” paths that extend further into different areas of the southern half of the property. Wood and lumber stacked in various locations on the property. A pile of sawdust is located in the southwest corner of the property, approximately 50 feet from the shoreline. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking southwest at the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Residential - Unknown

Property Identification Number:

Unknown

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this private property. Observations were recorded from adjacent properties where access is granted. The property is bound on the north by 9th Street, to the south by Parcel No. 012-055-038-30, to the east by to Parcel No. 012-055-122-10, and to the west by Parcel No. 012-005-039-00. The property does not front along the Torch Lake Backwater shoreline. The property features one residential structure that fronts along 9th Street. The topography of the property appears flat and the yard is well-maintained. The structures on the property include a residential home and garage that were likely older buildings that have been updated with more modern appurtenances. A possible potable well is located south of the home. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking north at the subject property.

Appendix D
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Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

9th Street Substation

Property Identification Number:

012-055-038-030

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by 9th Street and to the west by Gregory Street. The property is located adjacent to and north of Parcel No. 012-055-038-30 .The subject property does not front along the shoreline of the Torch Lake Backwater. The property is not fenced and features one structure, a historic masonry constructed building that historically served as the 9th Street Substation. The building is secured and with signage indicating that it may be used for storage. Structurally, the building appears to be in good condition with windows and doors that are secured. The building features capped openings in the wall on the west and south side that may have historically been used for piping and conduits related to fuel and electrical services. The grounds around the building perimeter is sparsely vegetated, with bare spots prevalent on the south and west sides.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking east at the subject property.

Appendix D
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Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Municipal - Village of Lake Linden

Property Identification Number:

012-055-038-30

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by 9th Street and Parcel No. 012-055-039-00 and a residential property. The property is bound to the west by commercial properties and Parcel No. 043-211-001-80 that is owned by Schoolcraft Township. Gregory Street is located within the property limits, along the western property boundary. The property fronts along the Torch Lake Backwater shoreline. The property is not fenced and does not feature any buildings. The topography at the property is flat, sloping gradually to the south towards the shoreline. The property is sparsely vegetated, with exposed stamp sand prevalent in the western portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking east/southeast at frontage along the Torch Lake Backwater at the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Municipal - Schoolcraft Township Board

Property Identification Number:

043-211-001-80

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by commercial properties and to the south by the Torch Lake Backwater shoreline. The property is bound to the east by Parcel No. 012-055-038-30 and is accessible by Gregory Street. The property features to buildings/garages that are used for equipment storage and maintenance. The property fronts along the Torch Lake Backwater and is fenced along the west side of the buildings. The topography at the property slopes to the south and west away from the buildings and towards the Torch Lake Backwater shoreline. The property is well-vegetated with areas of exposed stamp sand in the southern portion of the parcel. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking west at the gated entry to the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Residential - Lyytikainen

Property Identification Number:

043-211-021-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this private property. Observations were recorded from adjacent properties where access is granted. The property is bound on the west by Front Street, to the south by Parcel No. 043-211-023-00 and 043-211-001-50, and to the east by the shoreline of the Torch Lake Backwater. The topography of the property appears to be flat, gently sloping to the east towards the shoreline. The structures on the property include a residential home and garage. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking southwest at the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Residential - Knoll

Property Identification Number:

043-211-023-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this private property. Observations were recorded from adjacent properties where access is granted. The property is bound on the west by Front Street, to the south by Parcel No. 043-211-023-50, and to the east by Parcel No. 043-211-001-50. The property does not front along the Torch Lake Backwater shoreline. The topography of the property appears to be flat, gently sloping to the east towards the shoreline. The structures on the property include a residential home and garage. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description		Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment		Longitude:							
Other: _____									

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Lake Linden - Hubbell Public Schools

Property Identification Number:

043-211-001-50

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this property. Observations were recorded from adjacent properties where access is granted. The property is bound on the west by Parcel No. 043-211-023-00, to the north by Parcel No. 043-211-021-00, to the south by Parcel No. 043-211-023-50, and to the east by the Torch Lake Backwater. The property is vacant and well vegetated.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes	
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
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Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
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Residual Process Materials									
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Potential PCB or Mercury Containing Equipment									
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Residual Process Materials									
Potentially Abandoned Containers									

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Municipal - Village of Lake Linden

Property Identification Number:

043-211-023-50

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property appears to be an undeveloped extension of 8th Street. The property is bound on the west by Front Street, to the north by Parcel No. 043-211-023-00 and Parcel No. 043-211-001-50, to the south by Parcel No. 043-211-001-50 and Parcel No. 043-211-024-00, and to the east by the Torch Lake Backwater. The property is vacant and sparsely vegetated. The property is generally defined by a central access road comprised of exposed stamp sand. The property appears to have well developed drainage patterns that flow to the east towards the Torch Lake Backwater.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
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Suspect ACM								
Residual Process Materials								
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Soil Staining/Stressed Vegetation		Longitude:						
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Potential PCB or Mercury Containing Equipment								
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Residual Process Materials								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Lake Linden - Hubbell Public Schools

Property Identification Number:

043-211-024-00, 043-211-001-50, 043-211-025-00, 043-161-009-00, and 043-161-009-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this property. Observations were recorded from adjacent properties where access is granted. The five parcels included in this summary make up the main campus of the Lake Linden – Hubbell Public Schools. The parcels are generally accessible along Front Street to the west and are bound to the east by the Torch Lake Backwater. The combined parcels include various school-related facilities including classroom buildings , a playground, and athletic facilities including a football field, running track, baseball field, and basketball courts. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
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Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
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Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
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Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Lake Linden - Hubbell Public Schools

Property Identification Number:

043-120-001-00 (North)

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this property. Observations were recorded from adjacent properties where access is granted. The parcel is bordered to the north by the main campus of the Lake Linden – Hubbell Public Schools. The property is bound to the west by Front Street, to the east by the Torch Lake Backwater, and to the south by Parcel No. 043-120-001-00. The topography at the property is generally flat and not well vegetated. The ground surface is generally composed of stamp sands, serving as an access road and parking lot. The property has one building utilized as the school district’s bus garage. No historic or mining era features were observed on the property during the inspection.,

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:			
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
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Residual Process Materials								
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Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Torch Lake Backwater Area

Property (Common Name):

Lake Linden - Hubbell Public Schools

Property Identification Number:

043-120-001-00 (South)

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors did not access this property. Observations were recorded from adjacent properties where access is granted. The parcel is bordered to the north by the Lake Linden – Hubbell Public Schools bus garage property, to the west by Front Street, to the east by the Torch Lake Backwater, and to the south by Parcel No. 012-056-006-00. The topography at the property is generally flat and not well vegetated. The ground surface is generally composed of stamp sands, appearing to serve primarily as an access road and parking lot. The property has one building that appears to be used for vehicle storage. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
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Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Recreation Area

Property (Common Name):

Municipal - Village of Lake Linden

Property Identification Number:

012-056-006-00 (West)

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The western portion of the parcel is generally bound on the west by Front Street and commercial properties. The northern limits of the parcel are bound by the Torch Lake Backwater Area. The eastern portion of the parcel extends into Torch Lake, creating a man-made peninsula roughly 200 acres in size. The western portion of the parcel includes a stamp sand covered area that appears to be used for road-traction storage. The area is not well vegetated and not fenced. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:			
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
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View looking north at a portion of the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Sands Area

Property (Common Name):

Municipal - Village of Lake Linden

Property Identification Number:

012-056-006-00 (East)

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The eastern portion of the parcel is generally a man-made peninsula roughly 200 acres in size. The peninsula is bound on the north by the Torch Lake Backwater, to the east by the Trap Rock River, and to the south by Torch Lake. The peninsula was created by the deposition of mining era wastes, specifically stamp sands. The peninsula was capped during remedial actions implemented by the EPA. The peninsula is open to the public for recreation including a campground and public beach operated by the Village of Lake Linden. Flooded areas of the shoreline were observed in the vicinity of the public beach, campground, and Village Park. The area is generally well vegetated and well maintained. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
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Potential PCB or Mercury Containing Equipment								
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Residual Process Materials								



View looking north/northwest at the public beach area of the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Lake Linden Village Park

Property Identification Number:

014-306-002-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is open to the public and serves as the Village of Lake Linden’s Park. The property is bound to west by Highway M-26, to the north by Parcel No. 012-056-006-00 to the east by Torch Lake, and to the south by Parcel No. 014-306-003-00 and Parcel No. 014-306-003-50. The property is accessible by Front Street to the north and to the south by McDonald Drive. The property features multiple public facilities including a playground, tennis courts, a skate board park, a gazebo, and a pavilion for use by residents. The area was capped during remedial actions implemented by the EPA. Eroded portions of the cap were observed along portions of the south /east shoreline along Torch Lake. The area is well to sparsely vegetated, but well maintained. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
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Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking south/southwest at the Village Park on the subject property.



View looking east at eroded portions of the cap/shoreline in the eastern portion of the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Lake Linden Marina

Property Identification Number:

014-306-003-50

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : The property is open to the public and serves as the Village of Lake Linden’s public marina and boat launch. The property is bound to west by Parcel No. 014-306-003-00, to the north by Parcel No. 014-306-002-00 to the east by Torch Lake, and to the south by Parcel No. 014-306-003-00 and Parcel No. 014-306-004-00. The property is accessible by McDonald Drive. The access road traverses historic foundations associated with mining era operations and loops back to the starting point in the vicinity of the marina. The ground surface is sparsely vegetated in the vicinity of the access road which is primarily comprised of stamp sand. The primary public feature at the property is the boat launch and marina that includes approximately 12 slips for docking. The property also has several picnic areas located along the shoreline. The area was capped during remedial actions implemented by the EPA. Eroded portions of the cap were observed along the north of the marina. The area is partially vegetated and well maintained. With the exception of the foundations along the access road to the marina, no historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								



View looking west/northwest at an area of cap/shoreline erosion north of the marina.



View looking north at the marina portion of the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Sands Area

Property (Common Name):

Municipal - Village of Lake Linden


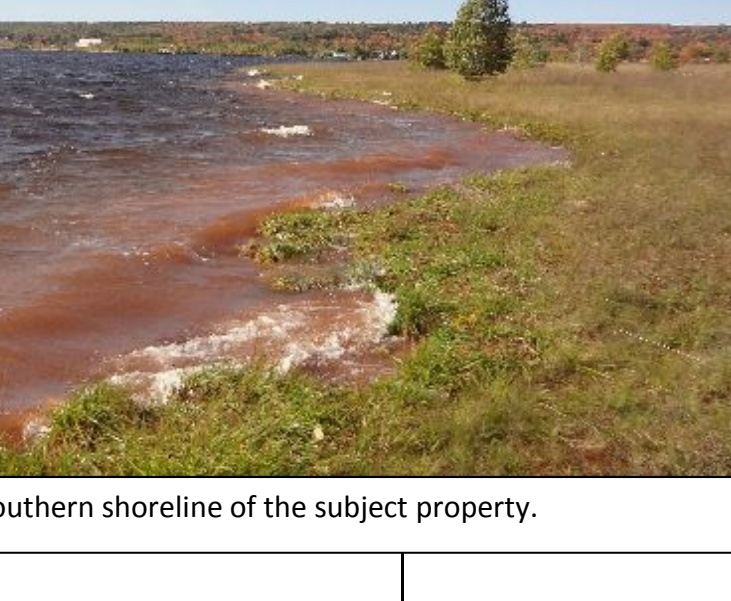
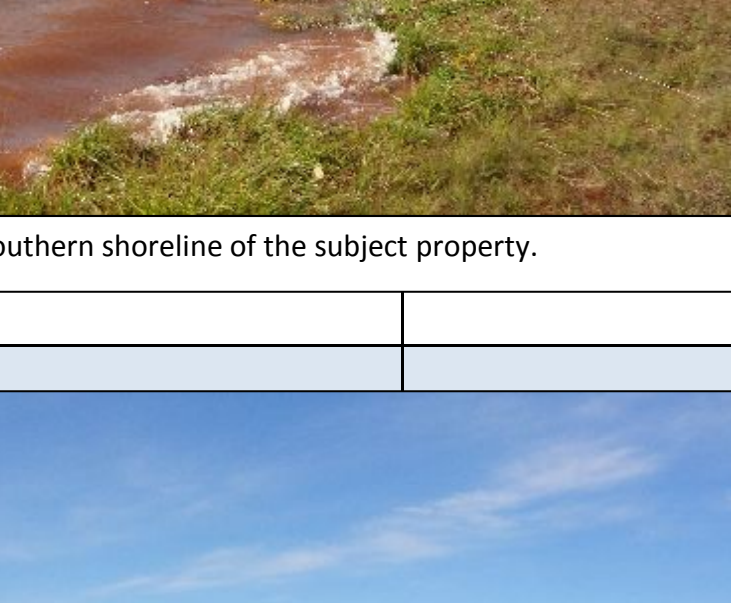

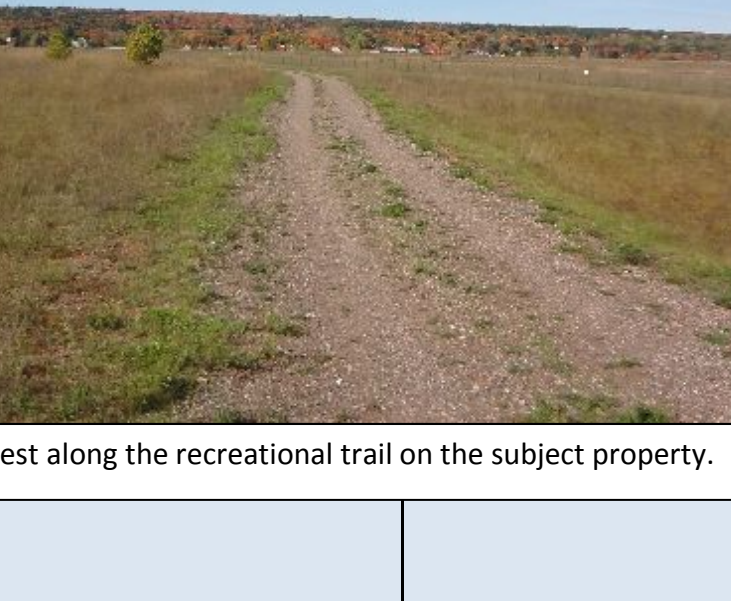
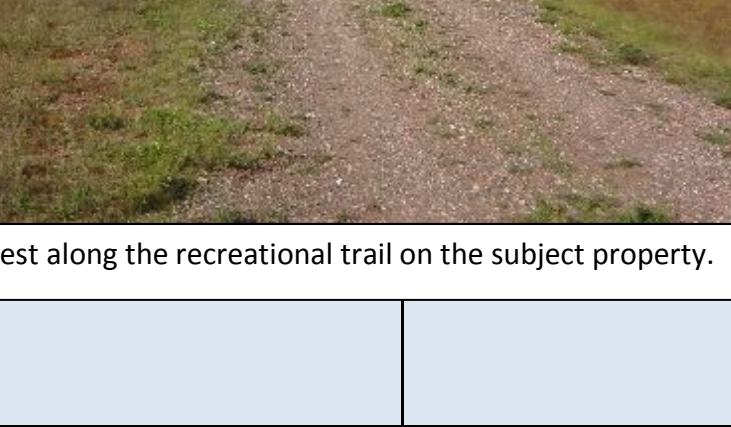
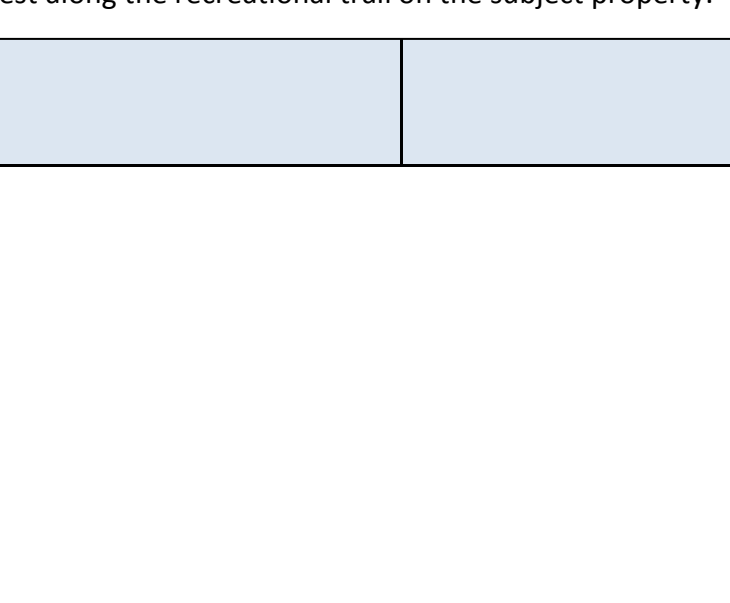
Property Identification Number:

012-056-006-00 (East)

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The eastern portion of the parcel is generally a man-made peninsula roughly 200 acres in size. The peninsula is bound on the north by the Torch Lake Backwater, to the east by the Trap Rock River, and to the south by Torch Lake. The peninsula was created by the deposition of mining era wastes, specifically stamp sands. The peninsula was capped during remedial actions implemented by the EPA. Eroded portions of the cap were observed along the south shore of the peninsula. The peninsula is open to the public for recreation including a walking path and a frisbee golf course operated by the Village of Lake Linden. A portion of the southern part of the peninsula is owned and operated by the Torch Lake Sewage Authority (Parcel No. 012-056-011-00). The area is generally well vegetated. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								View looking west at the southern shoreline of the subject property.
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								View looking west/northwest along the recreational trail on the subject property.
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Sands Area

Property (Common Name):

Municipal - Torch Lake Sewage Authority

Property Identification Number:

012-056-011-00

Inspection Date:

10/6/2014

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The parcel is located in the southern half of the stamp sand peninsula, located within Parcel No. 012-056-006-00. The parcel is fenced and comprised of two water treatment lagoons owned and operated by the Torch Lake Sewage Authority. The area is generally well vegetated. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society







Property Identification Number:

014-306-003-00

Inspection Date:

5/13/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.187595	CHLL-SACM01 - Weathered black roofing material, damaged, friable.					Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410768						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187708	CHLL-SACM02 - Weathered black roofing material, damaged, friable.					Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410743						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187691	CHLL-SACM03 - Weathered black roofing material, damaged, friable.					Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410994						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187609	CHLL-SACM04 - Weathered, black, fibrous material/mat.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410803						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187542	CHLL-SACM05 - Weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410839						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187619	CHLL-SACM06 - Center of floatation table, suspect thermal systems insulation and highly weathered asphaltic roofing material, damaged, friable.					Material samples CHLL-ASBBLK46-063015 and CHLLASBBLK39-063015 collected during the targeted inspection activities are consistent with the materials identified during the reconnaissance activities.
Residual Process Materials								Material samples CHLL-ASBBLK46-063015 and CHLLASBBLK39-063015 collected during the targeted inspection activities are consistent with the materials identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411004						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society







Property Identification Number:

014-306-003-00

Inspection Date:

5/13/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.187571	CHLL-SACM07 - Suspect thermal system insulation in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK43-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411033						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187563	CHLL-SACM08 - Suspect cementitious board fragment with asphaltic roofing material in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK43-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK44-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411016						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187473	CHLL-SACM09 - Suspect grayish white transite fragment, damaged, friable.					Material sample CHLL-ASBBLK44-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK44-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410897						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187462	CHLL-SACM10 - Suspect transite and asphaltic roofing material in a subgrade vault in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material samples CHLL-ASBBLK46-063015 and CHLLASBBLK43-063015 collected during the targeted inspection activities are consistent with the materials identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411068						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187377	CHLL-SACM11 - Weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410911						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187349	CHLL-SACM12 - Weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.41093						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society







Property Identification Number:

014-306-003-00

Inspection Date:

5/13/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.187342	CHLL-SACM13 - Suspect thermal system insulation commingled with stamp sand on the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410955						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187321	CHLL-SACM14 - Asphaltic roofing material and building debris in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.41109						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187247	CHLL-SACM15 - Approximately 20 square feet of weathered, blackish gray, fibrous, paper-like/cardboard-like material and debris, commingled with stamp sand.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.410992						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187185	CHLL-SACM16 - Approximately 3 foot by 3 foot mat of weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411028						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187205	CHLL-SACM17 - Approximate 1 foot by 1 foot by 2 inches thick fibrous, gray, damaged, cementitious material/insulating board.					Material sample CHLL-ASBBLK51-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411293						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187165	CHLL-SACM18 - Tar coated, fibrous rope-like material around the top of a floatation table. Appears to be a gasket and is generally consistent on each of the floatation tables.					Material sample CHLL-ASBBLK38-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411302						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society


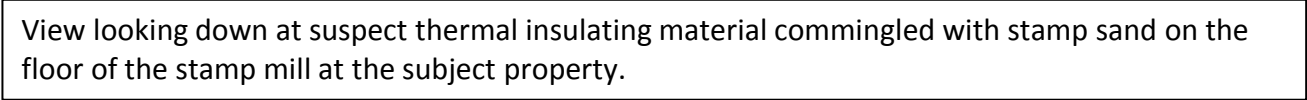


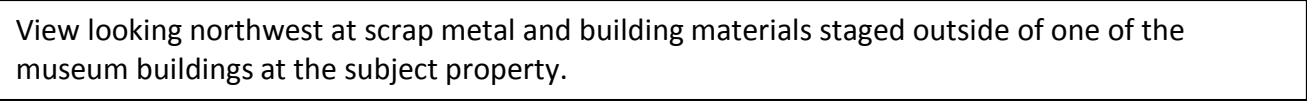

Property Identification Number:

014-306-003-00

Inspection Date:

5/13/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.187101	CHLL-SACM19 - Asphaltic roofing material and building debris in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK46-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411262						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.187017	CHLL-SACM20 - Suspect thermal system insulation commingled with stamp sand on the east wall of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411078						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186941	CHLL-SACM21 - Suspect thermal system insulation in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411159						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186987	CHLL-SACM22 - Suspect thermal system insulation and asphaltic roofing material in a trench in the floor of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material samples CHLL-ASBBLK46-063015 and CHLLASBBLK39-063015 collected during the targeted inspection activities are consistent with the materials identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411321						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186918	CHLL-SACM23 - Gray, damaged, fibrous, cementitious material/insulating board.					Material sample CHLL-ASBBLK51-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411297						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186817	CHLL-SACM24 - Suspect thermal system insulation commingled with stamp sand on the east wall of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411184						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society


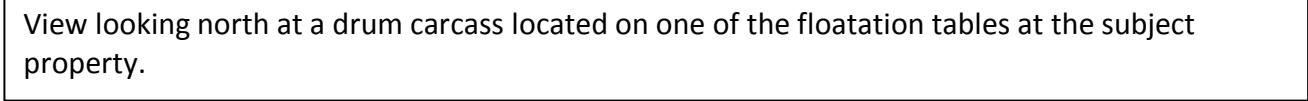
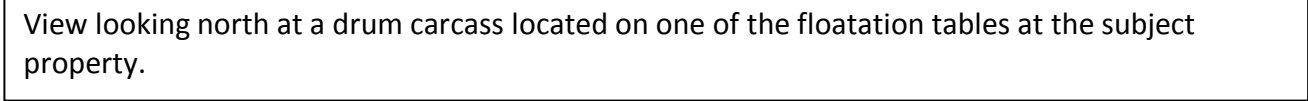



Property Identification Number:

014-306-003-00

Inspection Date:

5/13/2015 and 6/30/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.18672	CHLL-SACM25 - Weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411255						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186722	CHLL-SACM26 - Weathered, blackish gray, fibrous, paper-like/cardboard-like material, damaged, friable located in the center of a floatation table.					Material sample CHLL-ASBBLK42-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411472						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.186624	CHLL-SACM27 - Suspect thermal system insulation commingled with stamp sand on the east wall of the former stamp mill/reclamation plant. The material is weathered, damaged, and friable.					Material sample CHLL-ASBBLK39-063015 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411279						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.186691817	CHLL-DRUMCARCASS01: Rusted 55-gallon drum, crushed, damaged, half filled with debris.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411473447						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.186617169	CHLL-DRUMCARCASS02: Yellow, rusted, 55 gallon drum, crushed, damaged.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.41126237						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.187098325	CHLL-DRUMCARCASS03: Suspect drum carcass, rusted, crushed, in a trench in the floor and partially obscured from view, possibly a metal culvert.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411045305						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Houghton County Historical Society







Property Identification Number:

014-306-003-00

Inspection Date:

6/30/2015

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Access is restricted to the property; however, the public is allowed to tour various areas of the property. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-002-00, to the east by Parcel No. 014-306-003-50, and to the south by Parcel No. 014-306-004-00. The property is not fenced and does not front along Torch Lake. The property includes portions of the former stamp mill and reclamation operations. Foundations and mining era materials and equipment are present in the central portion of the property. The western portion of the property includes a parking area comprised of stamp sand and various facilities for visitors. EPA completed remedial activities at the adjacent property to the south between 2010 and 2014, which was part of the same mining era complex. Suspect asbestos containing materials, including thermal system insulation, asphaltic roofing material, and transite were observed on the concrete floors and foundations in the eastern portion of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude: 47.18672	ABDN PRESSURE TANK - White, crushed container, ribbed, partially buried in mine rock in the berm around the former stamp mill foundation, could potentially be a historic pressure tank.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411255						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.186722	5 GAL GARGOYLE GREASE - A 3-5 gallon, metal pail with "Gargoyle Grease" printed on the side, appears to be empty.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411472						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.186624	3 PLASTIC DRUMS - Two empty plastic drums and one half full plastic drum. The drum is filled with what appears to be "clinkers", or non-combustible material from firing the steam engine that operates at the property.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411279						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:	1 PLASTIC DRUM: Empty plastic drum stored adjacent to a building.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Lake Linden Processing Area

Property (Common Name):

Power Plant Property - Meninc, Inc.






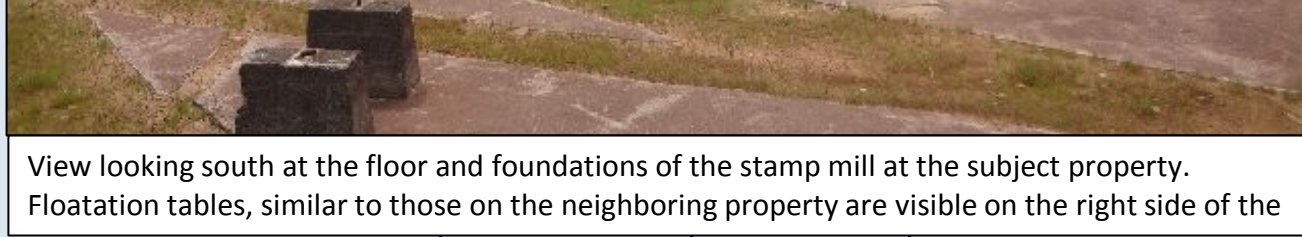
Property Identification Number:

014-306-004-00 and 014-307-004-00

Inspection Date:

7/01/15

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): Field inspectors accessed this private property in 2015. The property is fenced and access is restricted. The property is bound to west by Highway M-26, to the north by Parcel No. 014-306-003-00, to the east by Torch Lake, and to the south by a residential property, Parcel No. 014-720-001-00. The property includes portions of the former stamp mill and reclamation operations. The property was also the location of a power plant that provided electricity to the mining era operations in Lake Linden and Hubbell. Foundations and mining era materials are visible across the property. Under the guidance of the EPA, the identified responsible party, Honeywell, completed remedial activities at the property between 2010 and 2014. Areas of contamination were reportedly remediated and/or capped.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.184957194	TRANSITE - Suspect grayish white transite fragment.					Material samples CHLL-ASBBLK60-070115 and CHLLASBBLK63-070115 collected during the targeted inspection activities are consistent with the material identified during the reconnaissance activities.
Residual Process Materials								Material sample CHLL-ASBBLK62-070115 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411604434						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.185022793	ROOFING - Black asphaltic roofing material.					Surface soil location CHLL-SS17-0-6"" is representative of environmental conditions in the vicinity of the reconnaissance location.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.41143796						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.184909472	DRUMS - Two rusted, crushed, drum carcasses protruding from the hillside.					Surface soil location CHLL-SS17-0-6"" is representative of environmental conditions in the vicinity of the reconnaissance location.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.411543806						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.184857124	DRUM - One rusted, crushed, drum carcass protruding from the hillside.					Surface soil location CHLL-SS16-0-6"" is representative of environmental conditions in the vicinity of the reconnaissance location.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.411716282						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.184397058	SUSPECT THERMAL SYSTEMS INSULATING MATERIAL - Whitish gray fibrous insulating material					Material sample CHLL-ASBBLK64-070115 collected during the targeted inspection activities is consistent with the material identified during the reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.414122548						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.184458729	DRUMS - Two rusted drums, one vertical, orange colored, empty, and upside down and the second, empty, rusted and lying on its side.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.414130673						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Residential - Hoganson

Property Identification Number:

014-720-001-00

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): : Field inspectors did not access this private property. The property is bound on the north by Parcel No. 014-307-004-00, to the west by Highway M-26, to the south by Parcel No. 014-720-002-00, and to the east by Torch Lake. The property includes a private beach located along the shoreline of Torch Lake. The topography of the property appears to be flat, gently sloping to the east towards the shoreline. The ground surface is well-vegetated and maintained. The structures on the property include a residential home, a garage, and an out building. No historic or mining era features were observed on the property during the inspection.


Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:	Hubbell Coal Dock Area
Property (Common Name):	Residential - Meneguzzo
Property Identification Number:	014-720-002-00
Inspection Date:	10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Field inspectors did not access this private property. The property is bound on the north by Parcel No. 014-720-001-00, to the west by Highway M-26, to the south by Parcel No. 014-720-003-70, and to the east by Torch Lake. The property includes a private beach located along the shoreline of Torch Lake. The topography of the property appears to be flat, sloping to the east towards the shoreline. The ground surface is well-vegetated and maintained. The structures on the property include a residential home, a garage, and several out buildings. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:		Document as Applicable:			
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes	
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____		Longitude:							

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:	Hubbell Coal Dock Area
Property (Common Name):	Residential - Kiley
Property Identification Number:	014-720-003-70
Inspection Date:	10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.) : Field inspectors did not access this private property. The property is bound on the north by Parcel No. 014-720-002-00, to the west by Highway M-26, to the south by Parcel No. 014-720-003-60, and to the east by Torch Lake. The property includes a private beach located along the shoreline of Torch Lake. The topography of the property appears to be flat, sloping to the east towards the shoreline. The ground surface is well-vegetated and maintained. The structures on the property include a residential home and a garage. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:	Hubbell Coal Dock Area
Property (Common Name):	Residential - Lavergne
Property Identification Number:	014-720-003-60
Inspection Date:	10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by Parcel No. 014-720-003-70, to the west by Highway M-26, to the south by Parcel No. 014-720-003-00, and to the east by Torch Lake. The property includes a private beach located along the shoreline of Torch Lake. The topography of the property appears to be flat, sloping to the east towards the shoreline. The ground surface is well-vegetated and maintained. The structures on the property include a residential home, a garage, and a rental home. A commercial business is located on the property. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:		Document as Applicable:		
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Residential - Black

Property Identification Number:

014-720-003-00 and 014-720-003-00

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.,) : Field inspectors did not access this private property. The property includes two parcels that extend from Highway M-26 to Lighthouse Point. The western parcel is bound on the north by Parcel No. 014-720-003-60, to the west by Highway M-26, to the south by Parcel No. 014-720-003-50, and to the east by Parcel No. 014-720-003-00. The eastern parcel makes up Light House Point and extends south into Torch Lake. The property includes private beaches, boat mooring locations, and rip rap along the north/east side of Light House Point. The topography of the property appears to be flat, sloping to the east towards the shoreline. The ground surface appears to be well-vegetated and maintained. There are multiple structures on the property including, several residential homes, garages, and multiple out buildings. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking east at the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Residential - Centerline Apartments

Property Identification Number:

014-720-003-50

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.,) : The property is bound on the north by Parcel No. 014-720-003-00, to the west by Highway M-26, to the south by Parcel No. 014-307-001-25, and to the east/southeast by Torch Lake. The southern property line is fenced. The property includes a private beach located along the shoreline of Torch Lake. The topography of the property appears to be flat, sloping to the east towards the shoreline. The ground surface is well-vegetated and maintained. The structures on the property include two multi-story apartment buildings and parking areas for approximately 46 vehicles. There is one out-building and a children’s play area located in the eastern portion of the property. No historic or mining era features were observed on the property during the inspection.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers		Latitude:						
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials		Longitude:						
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Coal Dock Property







Property Identification Number:

014-307-001-25

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.,) : The property is located adjacent to and directly north of the Mineral Building Property. The property is bound on the west by Highway M-26 and to the east by Torch Lake. The property is fenced with and open/ bermed entry. The western half of the property is generally wooded with a clearing, possibly a former railroad grade, through the middle of the woods. The eastern portion of the woods is characterized by more steeply sloping ridges, while the western half of the wooded area (along the highway) is generally flat. The eastern half of the property is generally flat, and roughly 20 feet lower in elevation than the wooded portion of the parcel. The eastern half of the property features low lying wet areas, characteristic of a wetland in the western portion, along the toe of the ridges in the wooded portion of the property. Closer to the shoreline, the eastern half of the property generally features large areas that are covered by coal. In addition, coal piles up to 20 feet in diameter and 6 feet tall, are also present. The south eastern portion of the property is generally open and flat, gradually sloping towards the lake. The ground surface is littered with debris, building materials, and burnt waste and cinders.

Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47° 10'52.877"	Debris Pile with metal, tin siding and possible drum carcass					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88° 24'57.1637"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47° 10'52.247"	SACM-02 - Suspect transite fragments on foundation/slab. Foundation is hollow underneath, extending approximately 3-4 feet below the foundation surface.					Material samples CHLL-ASBBLK07-101414 and CHLL-ASBBLK09-101414 were collected from the vicinity of location SACM-02 during targeted inspection activities. Surface soil sample CHLL-SS08-101514 was collected from a soil mound located on the foundation surface.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88° 24'57.042"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°10'52.254"	SACM -03 - Cementitious wall board on building slab/foundation.					Material sample CHLL-ASBBLK10-101414 was collected from the vicinity of location SACM-03 during targeted inspection activities.
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88° 24'56.469"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47°.181135990	SACM-04 - Asphaltic roofing material fragments					Material sample CHLL-ASBBLK08-101414 was collected from the vicinity of location SACM-04 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88°.415712152						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'43.914"	DRUM-04 - Approximately 10 intact drums on the ground surface and protruding from the hillside. Drums are in varying states of deterioration.					Soil samples CHLL-SS04-101514, CHLL-SS05-101514, and CHLL-SS06-101514 were collected from the vicinity of location DRUM-04 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88° 25'09.352"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'50.237"	DRUM-03 - One drum laying on its side, appears to be empty. Small crushed metal container nearby.					Soil sample CHLL-SS07-101514 was collected from the vicinity of location DRUM-03 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88° 25'02.667"						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Coal Dock Property







Property Identification Number:

014-307-001-25

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is located adjacent to and directly north of the Mineral Building Property. The property is bound on the west by Highway M-26 and to the east by Torch Lake. The property is fenced with and open/bermed entry. The western half of the property is generally wooded with a clearing, possibly a former railroad grade, through the middle of the woods. The eastern portion of the woods is characterized by more steeply sloping ridges, while the western half of the wooded area (along the highway) is generally flat. The eastern half of the property, closer to the shoreline is generally flat, and roughly 20 feet lower in elevation than the wooded portion of the parcel. The eastern half of the property features low lying wet areas, characteristic of a wetland in the western portion, along the toe of the ridges in the wooded portion of the property. Closer to the shoreline, the eastern half of the property generally features large areas that are covered by coal. In addition, coal piles up to 20 feet in diameter and 6 feet tall, are also present. The southeastern portion of the property is generally open and flat, gradually sloping towards the lake. The ground surface is littered with debris, building materials, and burnt waste and cinders.

Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes	
Suspect ACM	✓	Latitude: 47° 10'42.934"	SACM-07 - Debris pile with asphaltic roofing material, transite, and cementitious wall board material.					Material samples CHLL-ASBBLK14-101414, CHLL-ASBBLK15-101414, CHLL-ASBBLK16-101414, and CHLL-ASBBLK17-101514 were collected from the vicinity of location SACM-07 during targeted inspection activities.	
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM	✓	Latitude: 47° 10'46.526"	SACM -06 - Small canvas/fibrous material					Material sample CHLL-ASBBLK18-101414 was collected from the vicinity of location SACM-06 during targeted inspection activities.	
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude: 47°10'44.583"	SACM-08 - Pile of gray/black fibrous material. Fire brick in the vicinity.		View looking east at roofing material on the ground surface of the subject property.				Material samples CHLL-ASBBLK11-101414, CHLL-ASBBLK12-101414, CHLL-ASBBLK13-101414, CHLL-ASBBLK35-101514, and CHLL-ASBBLK36-101514 were collected from the vicinity of location SACM-08 during targeted inspection activities.
Residual Process Materials	✓								
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude: 47°.178977	Pile of crushed limestone.						
Residual Process Materials	✓								
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM	✓	Latitude: 47°.178769117	SACM-09 - Black asphaltic roofing material, tar paper, weathered.						Material sample CHLL-ASBBLK32-101514 was collected from the vicinity of location SACM-09 during targeted inspection activities.
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM	✓	Latitude: 47° 10'40.663"	SACM-11 - Black wire/cable/pipe wrap and outer sheathing.		View looking south at roofing material on the ground surface of the subject property.				Material samples CHLL-RPM01-101514, CHLL-RPM02-101514, and, CHLL-RPM03-101514 were collected from the vicinity of location SACM-11 during targeted inspection activities.
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation									
Potential PCB or Mercury Containing Equipment	✓								
Other: _____									

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Coal Dock Property







Property Identification Number:

014-307-001-25

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is located adjacent to and directly north of the Mineral Building Property. The property is bound on the west by Highway M-26 and to the east by Torch Lake. The property is fenced with and open/bermed entry. The western half of the property is generally wooded with a clearing, possibly a former railroad grade, through the middle of the woods. The eastern portion of the woods is characterized by more steeply sloping ridges, while the western half of the wooded area (along the highway) is generally flat. The eastern half of the property, closer to the shoreline is generally flat, and roughly 20 feet lower in elevation than the wooded portion of the parcel. The eastern half of the property features low lying wet areas, characteristic of a wetland in the western portion, along the toe of the ridges in the wooded portion of the property. Closer to the shoreline, the eastern half of the property generally features large areas that are covered by coal. In addition, coal piles up to 20 feet in diameter and 6 feet tall, are also present. The southeastern portion of the property is generally open and flat, gradually sloping towards the lake. The ground surface is littered with debris, building materials, and burnt waste and cinders.

Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47° 10'42.345" Longitude: -88° 25'08.801"	SACM-12 - Transite fragments on the ground surface					Material sample CHLL-ASBBLK19-101414 was collected from the vicinity of location SACM-12 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47° 10'40.282" Longitude: -88° 25'09.893"	SACM -13- Green and red asphaltic roofing material in a debris pile/demolished structure.					Material samples CHLL-ASBBLK20-101414 and CHLL-ASBBLK21-101414 were collected from the vicinity of location SACM-13 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47°10'40.132" Longitude: -88°25'09.772"	Electrical switch in debris pile, potentially mercury containing. Labeled "Delco GM 1957725 2625, Delco Remey"					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment	✓							
Other: _____								
Suspect ACM	✓	Latitude: 47° 10'38.878" Longitude: -88° 25'11.257"	SACM-14 - Black fibrous wire/cable insulating material.					The collection of a material sample from the deteriorated drum was attempted during the targeted inspection activities; however, the drum contents were too dense to effectively collect a sample.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'38.501" Longitude: -88° 25'10.035"	DRUM-05 - Rusted, deteriorating 55 gallon drum, contents are hardened black material.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'38.563" Longitude: -88° 25'09.300"	DRUM-06 - Rusted, drum carcass					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Coal Dock Property








Property Identification Number:

014-307-001-25

Inspection Date:

10/06/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is located adjacent to and directly north of the Mineral Building Property. The property is bound on the west by Highway M-26 and to the east by Torch Lake. The property is fenced with and open/bermed entry. The western half of the property is generally wooded with a clearing, possibly a former railroad grade, through the middle of the woods. The eastern portion of the woods is characterized by more steeply sloping ridges, while the western half of the wooded area (along the highway) is generally flat. The eastern half of the property, closer to the shoreline is generally flat, and roughly 20 feet lower in elevation than the wooded portion of the parcel. The eastern half of the property features low lying wet areas, characteristic of a wetland in the western portion, along the toe of the ridges in the wooded portion of the property. Closer to the shoreline, the eastern half of the property generally features large areas that are covered by coal. In addition, coal piles up to 20 feet in diameter and 6 feet tall, are also present. The southeastern portion of the property is generally open and flat, gradually sloping towards the lake. The ground surface is littered with debris, building materials, and burnt waste and cinders.

Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47°.177445620	SACM-15 - Black asphaltic roofing material. Potential PCB/asbestos contaminated wire/cable wrap nearby.					Material sample CHLL-ASBBLK24-101414 and surface soil sample CHLL-SS09-101514 were collected from the vicinity of location SACM-15 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment	✓							
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____								

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Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Coal Dock Area

Property (Common Name):

Mineral Building







Property Identification Number:

014-307-001-75

Inspection Date:

10/07/14








General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the west by Highway M-26 and to the east by Torch Lake. The property is located adjacent to and south of the Coal Dock Property and north of the smelter property. The property is fenced with and open/bermed entry on the adjacent property to the north. There is large structure, the former C&H Mineral Building located on the west side of the property. The building is unsecured and is in a deteriorated condition, Structurally, the building is standing, windows and doors are generally closed, but large holes are visible in the roof. A large masonry stack was toppled and lies on the south side of the Mineral Building. There is a small masonry building to the east of the Mineral Building that is generally in good condition, although patches of roofing material are missing. The remainder of the property to the east is generally open and flat, gradually sloping towards the lake. The ground surface around the Mineral Building is littered with debris, roofing material, and roughly 30 large debris piles. The contents of the debris piles vary from concrete, asphalt, building materials, and burnt waste and cinders.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47° 10'37.960"	SACM -16 - Transite fragments and black asphaltic roofing material fragments					
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: 88° 25'21.825"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47° 10'37.960"	SACM -17 - Smelter stack debris, mortar, and fire brick					Material samples CHLL-ASBBLK28-101514, CHLL-ASBBLK29-101514, CHLL-ASBBLK30-101514, and CHLL-ASBBLK31-101514 were collected from the vicinity of location SACM-17 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: 88° 25'21.825"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 6'37.379"	Stack sludge - Fine grained sludge that appears to be leaching/eroding from the stack debris. The material is accumulating in muddy pools around the demolished smelter stack.					Material sample CHLL-RPM04-101514 was collected from the vicinity of location "Stack Sludge" during targeted inspection activities.
Residual Process Materials	✓							
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: 88° 25'22.809"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM	✓	Latitude: 47.177151795	SACM -18 - Fibrous insulating material between the metal exterior and the interior brick lining of a stack component.					Material sample CHLL-ASBBLK27-101514 was collected from the vicinity of location SACM-18 during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.422471649						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'37.960"	Rusted empty 55-gallon drum					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: 88° 25'21.825"						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47° 10'37.960"	Crushed 55-gallon drum carcass. An empty blue poly-drum also in the vicinity.					
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: 88° 25'21.825"						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D

Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:	Hubbell Processing Area	General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the north by Parcel No. 014-307-001-75, to the west by Highway M-26, to the south by a privately owned parcel, and to the east by Torch Lake. The southern property is fenced and is the location of an operating industrial facility that manufactures wood preservation chemicals. The property includes approximately 1,600 feet of shoreline along Torch Lake. There are multiple buildings located on the property used for storage, chemical production, and shipping. Some of the buildings are refurbished mining era structures. In addition, mining era building foundations and floors are visible east/northeast portion of the property, near the fence line. The topography at the property is generally flat and sloping towards Torch Lake. The ground surface at the property is generally covered with gravel on the interior of the fence line and vegetated outside of the fence line. There are visible slag outcrops in the western portion of the property. An area of capped and vegetated land is present along the shoreline and is approximately 150-170 feet wide. With the exception of the buildings and slag deposits on the property, no other, historic or mining era features were observed on the property during the inspection.
Property (Common Name):	Koppers - Smelter Property -MSL Development	
Property Identification Number:	014-307-001-50	
Inspection Date:	08/19/14 and 07/01/15	

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude: 47.174503653	SUBMERGED DRUM - An intact submerged drum observed in approximately 1 foot of water					Drum sampling location CHLL-DM04 is representative of the contents of the submerged drum identified during reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.422700892						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.17453134	SUBMERGED DRUM CONTENTS - A drum carcass containing black solid material observed in approximately 1 foot of water					Drum sampling location CHLL-DM03 is representative of the contents of the submerged drum identified during reconnaissance activities.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.422641972						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.174452769	DRUMS - Two submerged drums observed in approximately 1 foot of water. One drum observed protruding from the shoreline.					Surface soil location CHLL-SS14-0-6"" is representative of environmental conditions in the vicinity of the reconnaissance location.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.422872653						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude: 47.174373113	SUBMERGED DRUM - An intact submerged drum observed in approximately 1 foot of water					Surface soil location CHLL-SS15-0-6"" is representative of environmental conditions in the vicinity of the reconnaissance location.
Residual Process Materials								
Potentially Abandoned Containers	✓							
Soil Staining/Stressed Vegetation		Longitude: -88.42312259						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Beach and Slag Dump Area

Property (Common Name):

Slag Dump/Silver Shores Enterprise, Inc.

Property Identification Number:

Unknown

Inspection Date:

10/07/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is generally bound on the west by B Avenue and to the east by Torch Lake. The property is located adjacent to and south of the former smelter property and north of several similar capped properties. The property is fenced along the west boundary with a gated entry. There are no historical structures present on the property. A culvert in the southwest corner of the property emanates from a point west of the property boundary and discharges to a narrow ditch. The ditch continues south onto the adjacent property. The property is generally flat with a gentle slope toward Torch Lake. The property is characterized as a capped and vegetated portion of the Torch Lake Superfund Site. The material underlying the cap is primarily composed of slag waste generated by the adjacent smelter facility. Areas of the cap along the shoreline of Torch Lake have been flooded due to elevated lake levels. Cap erosion along the shoreline is not significant.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
Other: _____		Longitude:						
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
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Potential PCB or Mercury Containing Equipment								
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Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment		Latitude:						
Other: _____								
Suspect ACM								
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking east at the capped shoreline of the subject property.



View looking northeast at the shoreline of the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Beach and Slag Dump Area

Property (Common Name):

Slag Dump - Marcotte

Property Identification Number:


014-409-002-00

Inspection Date:


10/07/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the west by B Avenue and a small area of commercial development and to the east by Torch Lake. The property is located between several capped properties south of the former smelter property. The property is fenced along the west boundary with a gated entry. There are no historical structures present on the property. A ditch crosses onto the property along the north-central property boundary. The ditch flows into a small wetland area and ultimately south/southeast where it discharges to Torch Lake. The property is gently sloped inward from the property boundaries towards the ditch and then east to Torch Lake. The property is characterized as a capped and vegetated portion of the Torch Lake Superfund Site. The material underlying the cap is primarily composed of slag waste generated by the nearby smelter facility. Significant cap erosion along the shoreline was not observed.

Check as Appropriate:		Record Field Measurements:		Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes	
Suspect ACM		Latitude: 47°.173560211	Drum Carcass - Steel, crushed 55-gallon drum lying in a rip rap lined drainage ditch.						
Residual Process Materials									
Potentially Abandoned Containers	✓								
Soil Staining/Stressed Vegetation		Longitude: -88°.426364019							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude: 47°.173610735	Empty Drum - Steel, 55-gallon, no lid, intact, empty, lying on its side in standing water.						
Residual Process Materials									
Potentially Abandoned Containers	✓								
Soil Staining/Stressed Vegetation		Longitude: -88°.425972857							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									
Suspect ACM		Latitude:							
Residual Process Materials									
Potentially Abandoned Containers									
Soil Staining/Stressed Vegetation		Longitude:							
Potential PCB or Mercury Containing Equipment									
Other: _____									



View looking north at the shoreline of the subject property.



View looking southwest at an abandoned container located on the subject property.



View looking north at the shoreline of the subject property.



View looking southwest at an abandoned container located on the subject property.

Appendix D
Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Beach and Slag Dump Area

Property (Common Name):

Slag Dump - Schmitt

Property Identification Number:

014-409-001-50

Inspection Date:

10/07/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is bound on the west by B Avenue and a small area of commercial development and to the east by Torch Lake. The property is located between several capped properties south of the former smelter property. The property is fenced along the west boundary with a gated entry. There are no historical structures present on the property. The property is sloped to the northeast toward Torch Lake. The property is characterized as a capped and vegetated portion of the Torch Lake Superfund Site. The material underlying the cap is primarily composed of slag waste generated by the nearby smelter facility. Some cap erosion was observed along the east/north shoreline exposing the underlying slag deposit.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation								
Potential PCB or Mercury Containing Equipment								
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Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude:						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM								
Residual Process Materials								



View looking southeast at the shoreline of the subject property.

Appendix D

Potential Physical and Health Hazard Inventory - Reconnaissance Logs
Abandoned Mining Wastes - Torch Lake Non-Superfund Site
Calumet and Hecla - Lake Linden Operations

Geographic Area:

Hubbell Beach and Slag Dump Area

Property (Common Name):

Hubbell Beach/Township Dump - Torch Lake Township

















































Property Identification Number:

Unknown

Inspection Date:

10/07/14

General Property Description (Significant Land scape Features, Topography, Cover, Etc.): The property is generally bound on the west by Garfield Avenue and Spruce Street. The property is bound to the east by Torch Lake. The property includes approximately 1,500 feet off shoreline, portions of which that have been designated for public use. The northern half of the property includes a public beach, a public boat launch, a playground, and picnic areas. The southern half of the property remains undeveloped and wooded. A yard waste collection area is located along Spruce Street in the southern portion of the property. Two large diameter stormwater drains discharge on the property into Torch Lake. The property is not fenced and is accessible by the public. The northern portion of the property is generally flat with a gentle slope toward Torch Lake. The southern portion of the property features a more undulating topography, including wetland areas. The property appears to be a capped and vegetated portion of the Torch Lake Superfund Site. Areas of the cap along the shoreline of Torch Lake have been flooded due to elevated lake levels. Significant cap erosion was observed along the eastern shoreline in the northern half of the property.

Check as Appropriate:		Record Field Measurements:	Provide Written Description Including Condition, Content, and Similar Material Properties:	Document as Applicable:				
Potential Chemical or Physical Hazards	✓	Location/Coordinates	Description	Estimated Size/Area/Volume	Quantity	Units	Sample Recommendations	Notes
Suspect ACM	✓	Latitude: 47.171717169	ROOFING - Suspect roofing material, observed during offshore reconnaissance. Approximately 20 square feet of black asphaltic roofing material, tar, and metal debris.					Material sample CHLL-ASBBLK58-070115 was collected from this location during targeted inspection activities.
Residual Process Materials								
Potentially Abandoned Containers								
Soil Staining/Stressed Vegetation		Longitude: -88.42645936						
Potential PCB or Mercury Containing Equipment								
Other: _____								
Suspect ACM		Latitude:						
Residual Process Materials								
Potentially Abandoned Containers								
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