

Mineral Potential Evaluation Section (MPES) Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN - Clay and Silt Resource Potential - report380_siltclay

This page last updated: 2011

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Metadata Summary

Originator	Minnesota Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Evaluation Section
Abstract	Mapped units inferred to contain silt and clay potential. Information gathering was completed in the fall of 2009 through the spring of 2010. It includes 20 polygons within the project boundary in northern St. Louis County and Lake County, Minnesota.
Browse Graphic	none available
Time Period of Content Date	2010
Currentness Reference	Information gathering was completed in the fall of 2009 through the spring of 2010. It includes 20 polygons within the MPES Report 380 project boundary.
Access Constraints	Acknowledgement of the Minnesota Department of Natural Resources is appreciated for products derived from these data.
Use Constraints	Acknowledgement of the MN DNR is appreciated in products derived from these data.
Distributor Organization	Minnesota Department of Natural Resources, Division of Lands and Minerals
Ordering Instructions	The MPES Report 380's spatial datasets (shapefiles & file geodatabase) are included in the file report380data.zip, accessible from the MN DNR Aggregate Mapping web page: http://www.dnr.state.mn.us/lands_minerals/aggregate_maps/completed/index.html The spatial datasets include: sand and gravel resource potential, clay and silt resource potential, field observations, aggregate pits, Minnesota Geological Survey (MGS) County Well Index (CWI) data points, MGS CWI stratigraphy table, sieve analysis database, Mn/DOT Aggregate Source Information System (ASIS) points, and Mn/DOT ASIS pit quality table.
Online Linkage	Click here to download data. (See Ordering Instructions above for details.) By clicking here, you agree to the notice in "Distribution Liability" in Section 6 of this metadata.

Full Metadata

Mineral Potential Evaluation Section (MPES) Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN - Clay and Silt Resource Potential - report380_siltclay

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Section 1	Identification Information	Top of page
Originator	Minnesota Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Evaluation Section	

<i>Title</i>	Mineral Potential Evaluation Section (MPES) Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN - Clay and Silt Resource Potential - report380_siltclay
<i>Abstract</i>	Mapped units inferred to contain silt and clay potential. Information gathering was completed in the fall of 2009 through the spring of 2010. It includes 20 polygons within the project boundary in northern St. Louis County and Lake County, Minnesota.
<i>Purpose</i>	To map where there is potential for clay and silt resources in the project boundary.
<i>Time Period of Content Date</i>	2010
<i>Currentness Reference</i>	Information gathering was completed in the fall of 2009 through the spring of 2010. It includes 20 polygons within the MPES Report 380 project boundary.
<i>Progress</i>	Complete
<i>Maintenance and Update Frequency</i>	None planned
<i>Spatial Extent of Data</i>	Northern St. Louis County and Lake County, Minnesota
<i>Bounding Coordinates</i>	-92.30 -91.65 47.92 47.45
<i>Place Keywords</i>	St. Louis County, Lake County, Minnesota
<i>Theme Keywords</i>	clay, silt, resources, potential
<i>Theme Keyword Thesaurus</i>	
<i>Access Constraints</i>	Acknowledgement of the Minnesota Department of Natural Resources is appreciated for products derived from these data.
<i>Use Constraints</i>	Acknowledgement of the MN DNR is appreciated in products derived from these data.
<i>Contact Person Information</i>	Aggregate Resource Mapping Program, Industrial Minerals Geologist or GIS Specialist Minnesota Department of Natural Resources, Division of Lands and Minerals 500 Lafayette Road St. Paul, MN 55155-4045 Phone: 651-259-5959 FAX: 651-296-5939 E-mail: aggregatemap@state.mn.us
<i>Browse Graphic</i>	none available
<i>Browse Graphic File Description</i>	
<i>Associated Data Sets</i>	The MPES Report 380's spatial datasets (shapefiles & file geodatabase) are included in the file report380data.zip, accessible from the MN DNR Aggregate Mapping web page: http://www.dnr.state.mn.us/lands_minerals/aggregate_maps/completed/index.html The spatial datasets include: sand and gravel resource potential, clay and silt resource potential, field observations, aggregate pits, Minnesota Geological Survey (MGS) County Well Index (CWI) data points, MGS CWI stratigraphy table, sieve analysis database, Mn/DOT Aggregate Source Information System (ASIS) points, and Mn/DOT ASIS pit quality table.

Section 2	Data Quality Information	Top of full metadata	Top of page
<i>Attribute Accuracy</i>			
<i>Logical Consistency</i>			
<i>Completeness</i>	The silt and clay resource potential areas were digitized onscreen using ArcGIS 9.3.1 with 2009 FSA color air photos, (at a scale of 1:3,000) and USGS DRGs (at a scale of 1:24000) as the spatially registered backdrops.		
<i>Horizontal Positional Accuracy</i>	1:50000		
<i>Vertical Positional</i>	Not applicable.		

<i>Accuracy</i>	
<i>Lineage</i>	The inferred clay and silt resources were digitized based on information gathered from aerial photographs, county well index stratigraphy data, field observations, historic geologic maps, and digital elevation models.
<i>Source Scale Denominator</i>	50000

Section 3	Spatial Data Organization Information	Top of full metadata	Top of page
<i>Native Data Set Environment</i>	ArcGIS 9.3.1 from ESRI		
<i>Geographic Reference for Tabular Data</i>			
<i>Spatial Object Type</i>	Vector		
<i>Vendor Specific Object Types</i>	Polygon		
<i>Tiling Scheme</i>	MPES Report 380 Project Boundary		

Section 4	Spatial Reference Information	Top of full metadata	Top of page
<i>Horizontal Coordinate Scheme</i>	UTM		
<i>Ellipsoid</i>	GRS80		
<i>Horizontal Datum</i>	NAD83		
<i>Horizontal Units</i>	Meters		
<i>Distance Resolution</i>			
<i>Altitude Datum</i>	Not applicable		
<i>Depth Datum</i>	Not applicable		
<i>UTM Zone Number</i>	15E		

Section 5	Entity and Attribute Information	Top of full metadata	Top of page
<i>Entity and Attribute Overview</i>	The polygons were delineated to represent inferred areas of clay and silt resources.		
<i>Entity and Attribute Detailed Citation</i>	Attribute values can be found in a table at the bottom of this document (report380_siltclay.pdf). If you are viewing this metadata in ArcCatalog, from the .xml file, the attribute table is not displayed. You will have to refer to the 'report380_siltclay.pdf' document included in the project zip file report380data.zip, which can be found at the following folder directory: report380data\resource\shapefiles\mn_dnr\metadata		

Section 6	Distribution Information	Top of full metadata	Top of page
<i>Publisher</i>	Minnesota Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Evaluation Section		
<i>Publication Date</i>	2011		
<i>Contact Person Information</i>	Aggregate Resource Mapping Program Industrial Minerals Geologist or GIS Specialist Minnesota Department of Natural Resources, Division of Lands and Minerals 500 Lafayette Road St. Paul, MN 55155-4045		

Phone: 651-259-5959
FAX: 651-296-5939
E-mail: aggregatemap@state.mn.us

Distributor's Data Set Identifier

MPES Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN

Distribution Liability

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Transfer Format Name

Transfer Format Version Number

Transfer Size

Ordering Instructions

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Online Linkage

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Metadata Reference Information

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Metadata Date

2011

Contact Person Information

Aggregate Resource Mapping Program, Industrial Minerals Geologist or GIS Specialist
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Metadata Standard Name

Minnesota Geographic Metadata Guidelines

Metadata Standard Version

2.1

Metadata Standard Online Linkage

<http://www.lmic.state.mn.us/gc/stds/metadata.htm>

This page last updated: 2011

Table Name	Field Name	Begin Column	Definition	Valid Values	Descriptions
report380_siltclay.dbf	DESCRPTION		Text, 250		General description: "Silty clay deposits greater than 5 acres were identified based on field observations, subsurface data, and the MGS Surficial Geology map of the Mesabi Iron Range (M164)."