

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

- Table: Sieve Analysis on Selected Field Observations - report380_sieve

This page last updated: 2011

Metadata created using [Minnesota Geographic Metadata Guidelines](#)

Metadata Summary

Originator	Minnesota Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Evaluation Section
Abstract	This table includes 73 selected sediment samples gathered in the field and later analyzed with sieves for textural quality by the Division of Lands and Mineral's Hibbing Lab in the fall of 2010. 12 sieves were used to determine coarse gradations and 8 sieves were used for the fine gradations. The material samples were taken during the fieldwork in the fall of 2009 and spring of 2010. These numbers represent either a single drill hole or a single exposure within a deposit. However, the deposit may vary in textural composition very much from one end to the other, or the top 10 feet may be very different from the lower 10 feet. Thus, great care must be taken when interpreting this information. In order to view the locations of these samples, the user can join this table to the field observations spatial dataset (report380_fobs.shp) table using the field 'FIELD_ID'.
Browse Graphic	none available
Time Period of Content Date	2010
Currentness Reference	Data were collected in fall of 2009 and spring of 2010. Sieve analysis was completed in the Fall of 2010.
Access Constraints	
Use Constraints	Acknowledgement of the Minnesota Department of Natural Resources is appreciated for products derived from these data.
Distributor Organization	Minnesota Department of Natural Resources, Division of Lands and Minerals
Ordering Instructions	<p>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</p> <p>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.</p>
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

- Table: Sieve Analysis on Selected Field Observations - report380_sieve

Go to Section:

- [1. Identification Information](#)
- [2. Data Quality Information](#)
- [3. Spatial Data Organization Information](#)
- [4. Spatial Reference Information](#)
- [5. Entity and Attribute Information](#)
- [6. Distribution Information](#)
- [7. Metadata Reference Information](#)

Section 1	Identification Information	Top of page
Originator	Minnesota Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Evaluation Section	
Title	Mineral Potential Evaluation Section (MPES) Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN - Table: Sieve Analysis on Selected Field Observations - report380_sieve	
Abstract	This table includes 73 selected sediment samples gathered in the field and later analyzed with sieves for textural quality by the Division of Lands and Mineral's Hibbing Lab in the fall of 2010. 12 sieves were used to determine coarse gradations and 8 sieves were used for the fine gradations. The material samples were taken during the fieldwork in the fall of 2009 and spring of 2010. These numbers represent either a single drill hole or a single exposure within a deposit. However, the deposit may vary in textural composition very much from one end to the other, or the top 10 feet may be very different from the lower 10 feet. Thus, great care must be taken when interpreting this information. In order to view the locations of these samples, the user can join this table to the field observations spatial dataset (report380_fobs.shp) table using the field 'FIELD_ID'.	
Purpose	To summarize the sieve data that determines coarse and fine gravel gradations.	
Time Period of Content Date	2010	
Currentness Reference	Data were collected in fall of 2009 and spring of 2010. Sieve analysis was completed in the Fall of 2010.	
Progress	Complete	
Maintenance and Update Frequency	None planned	
Spatial Extent of Data	Northern St. Louis County, Northern Lake County	
Bounding Coordinates	-92.30 -91.65 47.92 47.45	
Place Keywords	St. Louis County, Lake County	
Theme Keywords	Texture, sieve, coarse gradation, fine gradation, sand and gravel	
Theme Keyword Thesaurus		

Access Constraints

Use Constraints

Acknowledgement of the Minnesota Department of Natural Resources is appreciated for products derived from these data.

Contact Person Information

Aggregate Resource Mapping Program, Industrial Minerals Geologist or GIS Specialist
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Phone: 651-259-5959
FAX: 651-296-5939
E-mail: aggregatemap@dnr.state.mn.us

Browse Graphic

none available

Browse Graphic File Description

Associated Data Sets

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](#)

Attribute Accuracy

The ranges of values were derived from sieving samples from a deposit(s). However, a deposit may vary in textural composition very much from one end to the other, or the top 10 feet may be very different from the lower 10 feet. Thus, great care must be taken when interpreting this information. These data can be related to their locations, stored in the fieldobs.shp, by relating on the ident field.

Logical Consistency

Completeness

All available data were summarized and are incorporated within this table.

Horizontal Positional Accuracy

Lineage

The ranges of values were taken directly from sieve data tested at the MN-DNR Hibbing laboratory. A deposit may vary in textural composition very much from one end to the other, or the top 10 feet may be very different from the lower 10 feet. Thus, great care must be taken when interpreting this information.

Source Scale Denominator

Section 3

Spatial Data Organization Information

[Top of full metadata](#)

[Top of page](#)

Native Data Set Environment

ArcGIS 9.3

Geographic Reference for Tabular Data

NA

<i>Spatial Object Type</i>	Point
<i>Vendor Specific Object Types</i>	Point
<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 ranges of values were derived from sieving samples from a deposit(s). These data can be related to their locations, stored in the report380_fobs.shp, by relating on the 'FIELD_ID'.		
<i>Entity and Attribute Detailed Citation</i>	Attribute values can be found in a table at the bottom of this document (report380_sieve.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_sieve.pdf' document included in the project zip file report380data.zip, which can be found at the following folder directory: report380data\resource\shapefile\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@dnr.state.mn.us		
<i>Distributor's Data Set Identifier</i>	MPES Report 380: Aggregate Resource Potential in Parts of Northern St. Louis and Lake Counties, MN		
<i>Distribution Liability</i>	The Minnesota Department of Natural Resources makes no representation or warranties, express or implied, with		

respect to the reuse of data provided herewith, regardless of its format or the means of its transmission. There is no guarantee or representation to the user as to the accuracy, currency, suitability, or reliability of this data for any purpose. The user accepts the data 'as is', and assumes all risks associated with its use. By accepting this data, the user agrees not to transmit this data or provide access to it or any part of it to another party unless the user shall include with the data a copy of this disclaimer. The Minnesota Department of Natural Resources assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data.

Transfer Format Name

Transfer Format Version Number

Transfer Size

mb for data, mb for associated maps

Ordering Instructions

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Online Linkage

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Section 7

Metadata Reference Information

[Top of full metadata](#)

[Top of page](#)

Metadata Date

2011

Contact Person Information

Aggregate Resource Mapping Program, Industrial Minerals Geologist or GIS Specialist
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E-mail: aggregatemap@dnr.state.mn.us

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_sieve.dbf	FIELD_ID		Text, 8	Ex: 001, 008, 125	Unique identifiers used in the field. Can be joined to the Field Observations Table (report380_fobs.dbf) for locations of samples.

	SAMPLE		Text, 12	See Below	Sample number
	PCT_4IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 4 inch sieve calculated by weight.
	PCT_3IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 3 inch sieve calculated by weight.
	PCT_2_5IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 2 ½ inch sieve calculated by weight.
	PCT_2IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 2 inch sieve calculated by weight.
	PCT_1_5IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 1 ½ inch sieve calculated by weight.
	PCT_1_25IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 1 ¼ inch sieve calculated by weight.
	PCT_1IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 1 inch sieve calculated by weight.
	PCT_3_4IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a ¾ inch sieve calculated by weight.
	PCT_5_8IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 5/8 inch sieve calculated by weight.
	PCT_1_2IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a ½ inch sieve calculated by weight.
	PCT_3_8IN		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a 3/8 inch sieve calculated by weight.
	PCT_NUM4		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 4 sieve calculated by weight.
	PCT_NUM10		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 10 sieve calculated by weight.
	PCT_NUM16		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 16 sieve calculated by weight.

	PCT_NUM30		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 30 sieve calculated by weight.
	PCT_NUM40		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 40 sieve calculated by weight.
	PCT_NUM50		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 50 sieve calculated by weight.
	PCT_NUM100		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 100 sieve calculated by weight.
	PCT_NUM200		Number, 20, 5	Ex: 58, 61, 42, etc...	Average of the % of material that passed through a number 200 sieve calculated by weight.