

MNDNR Tier One Metadata Record
Cstkpile.shp and Vstkpile.shp

Field	Description
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Main ID Information

<i>Title</i>	Stockpile Outlines for the Mesabi Range Stockpile Inventory project
<i>Filename</i>	cstkpile.shp and vstkpile.shp
<i>Abstract</i>	This dataset contains the outline, or “footprint”, of every stockpile and mine within two designated study areas: one near Calumet and the other near Virginia.
<i>Place Keywords</i>	Stockpile, Mesabi Iron Range, Virginia, Calumet, Minnesota
<i>Theme Keywords</i>	stockpile inventory, aggregate
<i>Time Period of Content</i>	Digitizing was conducted from November 2000 to February 2001 using a 1998 Mesabi Range elevation dataset..
<i>Parent Theme</i>	About 10% of the stockpile outlines and about 95% of the mine outlines were taken from a Mesabi Range Mining features coverage (still in progress at the Minnesota Department of Natural Resources, Division of Lands and Minerals).
<i>Spatial Extent of the Data</i>	Part of St. Louis County, in the area around the town of Virginia and part of Itasca county, in the area around the town of Calumet.
<i>Contact Person</i>	Heather Anderson
<i>Contact Person Organization/Division</i>	Department of Natural Resources, Division of Lands and Minerals
<i>Contact Person Position</i>	Industrial Minerals Geologist (or GIS Specialist)
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Additional ID Information

<i>Originator</i>	Department of Natural Resources, Division of Lands and Minerals, Mineral Potential Section
<i>Purpose</i>	To capture the outlines of stockpiles and pits for the purposes of a stockpile inventory.
<i>Progress</i>	Complete
<i>Currentness Reference</i>	All data was gathered in the fall of 1999 and the summer of 2000 and compiled in the winter of 2000-2001.

<i>Maintenance Frequency</i>	None Planned
<i>Access Constraints</i>	N/A
<i>Use Constraints</i>	N/A
<i>Associated Data Sets</i>	ArcView shapefiles: Cstyarea, Vstyarea, Cstkpile, and Vstkpile
Data Quality	
<i>Attribute Accuracy</i>	The units were identified in the field and were delineated using ArcView. This was a reconnaissance scale study and was mapped at 1:30,000.
<i>Logical Consistency</i>	N/A
<i>Completeness</i>	Stockpiles were delineated by stockpile material type. This information was captured by observations made in the field and aerial photograph interpretations. Generalizations were made, this is a reconnaissance scale study (1:24,000)
<i>Horizontal Positional Accuracy</i>	1:24000
<i>Vertical Positional Accuracy</i>	N/A
<i>Lineage</i>	The first step to inventorying stockpiles is to determine a concise definition of a stockpile. For the purposes of this project, a stockpile is defined as any earthen material piled during the process of mining, containing mostly one material type. This includes tailing basins, overburden piles, and rock dumps. If the material had another intended use, such as material used for a dike, overpass, or road base, that material is not considered to be a stockpile for purposes of this project. Over 90% of the stockpiles were visited in the field to confirm material type. Other sources of information were also used: company information, USX plates (1967) and Great Northern Iron Ore Properties' Maps of the Mesabi Range (1955 and 1959) After fieldwork, a classification system was devised to categorized the different material found within the two study areas. Then, the outlines of the stockpiles were captured using the 1998 Mesabi Range Elevation Project dataset digitized at 1:10000.
<i>Source Scale Denominator</i>	10000

Spatial Reference

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS80
<i>Horizontal Datum</i>	NAD83
<i>Horizontal Units</i>	Meters
<i>Distance Resolution</i>	N/A
<i>Altitude Datum</i>	N/A
<i>Altitude Units</i>	N/A

<i>Depth Datum</i>	N/A
<i>Depth Units</i>	N/A
<i>UTM Zone Number</i>	15

Spatial Data Organization

<i>Geographic Reference for Tabular Data</i>	The units are referenced as stockpile material (glacial overburden, coarse tailings, etc...).
<i>Native Dataset Environment</i>	ArcView 3.1/ArcInfo 8.0.2
<i>Vendor Specific Object Type</i>	N/A
<i>Tiling Scheme</i>	Study Area
<i>Spatial Object Type</i>	Vector-polygon
<i>Transfer Size</i>	485 kb (total for both study areas)

Entities -- Attributes

<i>Entity-Attribute Overview</i>	
<i>Entity-Attribute Detailed Citation</i>	See table below

Table Name	Field Name	Begin Column	Definition	Valid Values	Descriptions
Cstkpiledb and Vstkpiledb					This table contains data from multiple tables in the database. The data was added to these shapefiles to make them more useful as a stand alone product.
	Pit			“Y” or null	Used for processing in GIS environment. Is this polygon in a mine pit or is it a mine pit? “Y” means yes.
	Pile			“Y” or null	Used for processing in GIS environment. Is this polygon a stockpile? (As opposed to being a mine pit) “Y” means yes.

	MatTyp				See descriptions for 'Stockpile Material Type' table in Stkpile.mdb database metadata (database.pdf or .htm)
	StkplID				See descriptions for 'Stockpile' table in Stkpile.mdb database metadata (database.pdf or .htm)
	StkName				“
	StkPhotoIn				“
	StkSampIn				“
	StkPitIn				“
	StkEAcre				“
	StkColorDS				See descriptions for 'Mined/Piled Stockpile Material' table in Stkpile.mdb database metadata (database.pdf or .htm)
	StkComTx				“
	MinGrnMod				“
	MinGrnNm				“
	MinGrnUt				“
	MaxGrnMod				“
	MaxGrnNm				“
	MaxGrnUt				“
	AvgGrnMod				“
	AvgGrnNm				“
	AvgGrnUt				“
	StkSortIn				“
	StkVolNm				“
	StkVolUt				“
	StkEVolNm				“
	StkEVolUt				“

	StkFePct				“
	StkMagFePct				“
	StkSilPct				“
	StkAlPct				“
	StkGravPct				“
	StkSandPct				“
	AggPotIn				“