

## Aggregate Resources of Aitkin County, MN

**Maps, Data, and Metadata** Published April 14, 2014 (sand and gravel) and July 3 2015 (crushed stone) Produced by the Aggregate Resource Mapping Program  
MN Department of Natural Resources (MN DNR), Division of Lands and Minerals  
Project Managers/Geologists - Carrie Jennings and Steven Kostka  
Cartography & GIS support— Kevin Hanson

### Maps

**aitkin\_sandandgravel.pdf** - Aggregate Resource Potential in Aitkin County, Minnesota, Sand and Gravel Potential.

**aitkin\_crushedstone.pdf** - Aggregate Resource Potential in Aitkin County, Minnesota, Crushed Stone Potential.

### GIS Data and Metadata (.pdf)

MN DNR's Aggregate Resource Mapping Program's Aggregate Resource Data

- ❖ **aitk\_sgp** - Sand and gravel resource potential. (polygon, 7,415 records).  
*aitk\_sgp.pdf* - metadata
- ❖ **aitk\_csp** - Crushed stone resource potential. (polygon, 18 records).  
*aitk\_csp.pdf* - metadata
- ❖ **aitk\_fobs** - Locations of geologic field observations. (point, 699 records)  
*aitk\_fobs.pdf* - metadata
- ❖ **aitk\_testholes** – Test hole sites (drilling, backhoe, or shovel) to assist in confirming the presence or absence of sand and gravel. (point, 245 records)
- ❖ **aitk\_testholes\_sampling** - Table related to test hole sites displaying the sampled results for gradations and aggregate quality (table, 126 records).  
*aitk\_testholes\_sampling.pdf* - metadata
- ❖ **aitk\_pits** - Locations of gravel pits, sand pits, borrow pits, and prospects. (point, 464 records)  
*aitk\_fobs.pdf* - metadata

Minnesota Geological Survey's (MGS) County Well Index Data

- ❖ **aitk\_cwilocs\_nps\_0610** – Field verified locations of CWI wells download in June of 2010 and clipped to Aitkin County. This file includes an additional field that links to the online well logs called 'DOH\_Path'. (point, 1,364 records)
- ❖ **aitk\_unlocs\_nps\_0610** – Unverified locations of CWI wells downloaded in June of 2010 and clipped to Aitkin County. These wells do not have a good location. The location is derived by calculating the midpoint of the Public Land Survey location reported by the driller. This file includes an additional field that links to the online well logs called 'DOH\_Path'. (point, 4,861 records)
- ❖ **aitk\_c4st**– Table of driller's descriptions and interpreted stratigraphy that can be related in GIS software to both CWI datasets above via the 'RELATEID' field (table, 11,934 records).  
*county\_well\_index\_version\_4\_2011.pdf* - metadata

Minnesota Department of Transportation's (MnDOT) Aggregate Source Information System Data

- ❖ **aitk\_asis0111** - Locations of MnDOT sites of aggregate sources (gravel pits) downloaded in January of 2011 and clipped to Aitkin County. (point, 153 records)  
*'oasismeta09.pdf'* - metadata
- ❖ **aitk\_asisquality** - Summary table of construction aggregate quality data from MnDOT ASIS pit sheets where recorded. (table, 11 records)  
*aitk\_asisquality.pdf* - metadata

The above features are available in the following spatial data formats:

- ❖ **ESRI File Geodatabase** (viewable in ArcGIS 9.3 and above)
- ❖ **ESRI shapefiles** (viewable in most versions of ESRI software (ArcView -> ArcGIS) and other mapping software (exp., Map Info)

### MnDOT Quality Test Reports (.pdf)

A folder with the MnDOT Quality Test Reports for 48 tested samples. These reports are related to the **aitk\_testholes** and **aitk\_testholes\_sampling** datasets.

### Online Links

**Aitkin County Aggregate Resource Mapping Webpage** for digital map, data, and metadata:

[http://www.dnr.state.mn.us/lands\\_minerals/aggregate\\_maps/completed/aitkin.html](http://www.dnr.state.mn.us/lands_minerals/aggregate_maps/completed/aitkin.html)

**Aggregate Resource Mapping Program Home Page:**

[http://www.dnr.state.mn.us/lands\\_minerals/aggregate\\_maps/index.html](http://www.dnr.state.mn.us/lands_minerals/aggregate_maps/index.html)