



Mn/DOT Name: GRAHAM
 County: AITKIN, MN (Sheet 2)

NGS Name: GRAHAM

NGS ACRN: [DQ9954](#) [Get Map](#)
 NGS Quad / Sta Num : 46093114/
 USGS Quad: VANDUSE LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	52 N	22 W	465946.90	930820.17	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: GRAHAM 2017

11.5 MILES NORTHWEST OF FLOODWOOD, 3.5 MILES WEST-SOUTHWEST ALONG TRUNK HIGHWAY 200 FROM THE JUNCTION OF TRUNK HIGHWAY 200 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 10.0 MILES NORTHWEST OF FLOODWOOD), AT TRUNK HIGHWAY 200 MILEPOINT 197.8, 26.4 FEET NORTH OF TRUNK HIGHWAY 200, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: KELLY - AITKIN, MN

Leveling-Derived Orthometric Heights (Feet)

<u>NAVD88</u>			<u>Orthometric Height</u>			<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>	<u>Year</u>	<u>Reference</u>					
1258.895	.016	2/1				2021	00000963					

Non Leveling-Derived Orthometric and Ellipsoid Heights (Feet)

<u>NAVD88</u>			<u>Orthometric Height</u>			<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>	<u>Year</u>	<u>Reference</u>					
1258.885	.262		1163.180	.197	2011	2017	RTRN2017					

Geoid Separations(ft): GEOID18 = -95.722 12B = -95.705 09 = -95.626 03 = -95.538

Lat/Lon and County Coordinates (Feet)

<u>NAD83(2011)</u>		<u>Geodetic Position</u>		<u>Aitkin County</u>				<u>Determination Method</u>		<u>Project Info</u>	
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Year</u>	<u>Reference</u>				
46 59 46.90449	93 08 20.17287	573290.792	407314.997	.131	3	2017	RTRN2017				

State Plane and UTM Coordinates (Feet)

<u>NAD83(2011)</u>		<u>MN State Plane - Central Zone</u>		<u>UTM - Zone 15</u>				<u>Determination Method</u>		<u>Project Info</u>	
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Year</u>	<u>Reference</u>				
2901913.562	1058031.272	1605759.667	17075980.411	.131	3	2017	RTRN2017				

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/aitkin/GRAHAM-DQ9954-3N-12JUL2017.jpg	N	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/aitkin/GRAHAM-DQ9954-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/aitkin/GRAHAM-DQ9954-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **