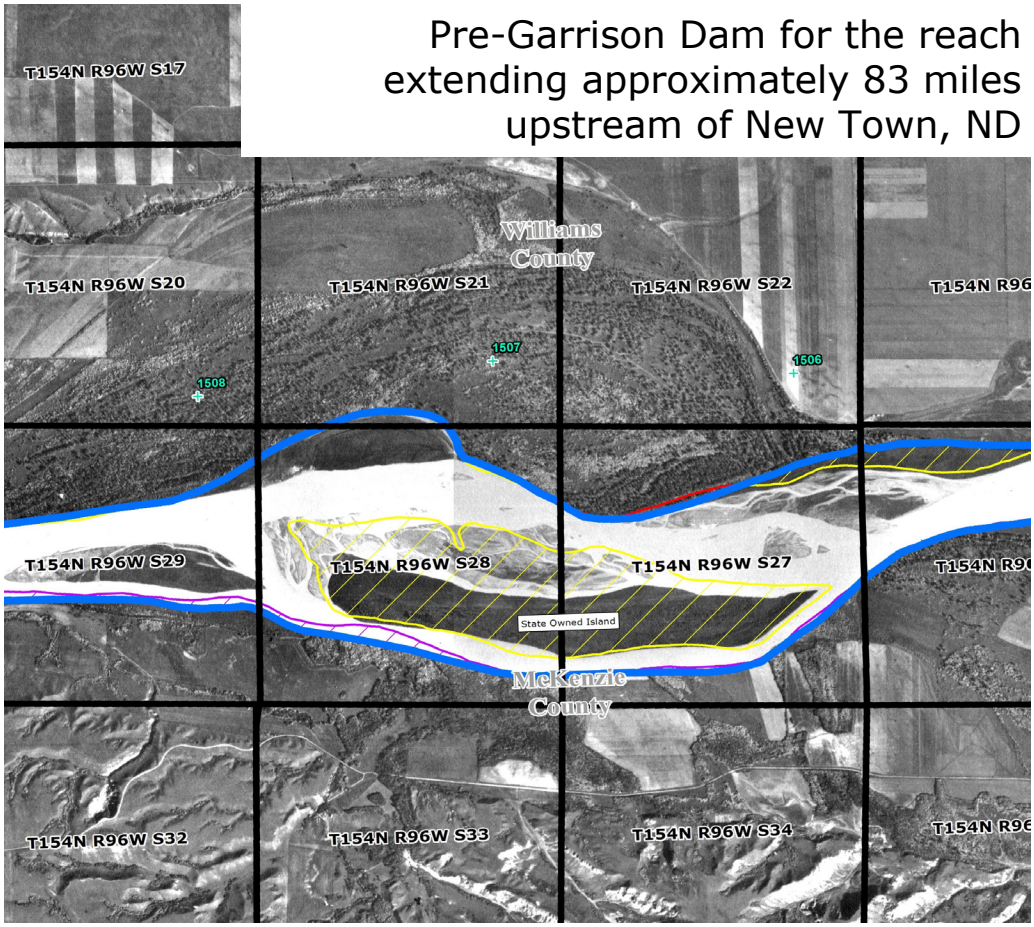
WENCK File #4384-0001
October 2018

Ordinary High Water Mark of the Historical Missouri River Bed

Pre-Garrison Dam for the reach extending approximately 83 miles upstream of New Town, ND



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Engineer's Certification

I, Joel Toso, a Registered Professional Engineer under the laws of the State of North Dakota, hereby certify that this Ordinary High Water Mark of the Historical Missouri River Bed study was prepared by me or under my direct supervision.



Executive Summary

This technical report presents the results of an ordinary high water mark (OHWM) study of the historic Missouri River channel under what is now Lake Sakakawea. The study was initiated by State legislation, North Dakota Century Code, section (N.D.C.C. §) 61-33.1-03, for the purpose of reviewing the determination of state-owned lands below the OHWM. The presumptive determination of the OHWM is the property boundary along the river established by the United States Army Corps of Engineers (USACE) survey before construction of the Garrison Dam. The USACE survey may in fact be the ordinary low water mark (OLWM) as is further discussed in Section 5. The North Dakota Industrial Commission Department of Mineral Resources (DMR) is identified as the state agency responsible for the work. The study area is the river reach that extends approximately 83 river miles from New Town to several miles upstream of Williston.

The OHWM definition for this study is based on N.D.C.C. § 61-33.1-03(3). In brief, it is the point at which the presence of action of the water is so continuous as to destroy the value of the land for agricultural purposes, including hay lands. Additional details are provided in Section 2.

The primary data sources in this study include:

- Historic aerial photographs taken before the USACE completed earthwork for the Garrison Dam in 1954.
- Pre-dam property or tract boundaries by the USACE.
- USACE property appraisal documents used to purchase easements prior to the construction of the dam.
- USACE pre-dam Missouri River cross sections.
- United States Geological Survey (USGS) 1943 topographic maps.
- USGS flow records from the gage at Williston.

The following method is used to determine the OHWM for the study reach. The OHWM is caused by relatively high flows that occur frequently enough to destroy the value of land for agricultural purposes. It follows the water level and is higher upstream than it is downstream. This variation in elevation along the study reach is first estimated using a hydraulic model with pre-dam river cross sections and Williston flow records. A stream flow that occurs every two years is estimated from pre-dam flow records and is used with a hydraulic model to estimate the stream flow levels for the entire 83-mile study reach.

The modeled stream flow levels are combined with the 1943 topographic maps to estimate the inundated area. This inundation area is used with evidence contained in historic aerial photographs to determine the "line below which the action of water is frequent enough either to prevent the growth of vegetation or to restrict its growth to predominantly wetland species." Farmed areas including hay lands are considered above the OHWM. The resulting area is the OHWM determination of this study.

The OHWM determination described above is compared with the USACE survey before the construction of the Garrison Dam. For each segment of the USACE survey, recommendations are made to either maintain or adjust, modify, or correct the USACE survey line. Changes to the USACE survey are only recommended if there is clear and convincing evidence.

1.0 Introduction

The purpose of this technical report is to present ordinary high water mark (OHWM) study results of the historic Missouri River channel under what is now Lake Sakakawea. The river reach of interest extends from the northern boundary of the Fort Berthold Indian Reservation (approximately River Mile 1482) to the southern border of Sections 33 and 34, Township 153 North, Range 102 West (just beyond River Mile 1564), a distance of approximately 83 river miles (See Figure 1).

This study was initiated by State legislation, North Dakota Century Code chapter 61-33.1-03 (see Appendix A). The purpose is to determine state owned lands below the OHWM prior to construction of the Garrison Dam. The North Dakota Industrial Commission Department of Mineral Resources (DMR) is identified as the state agency responsible for the work.

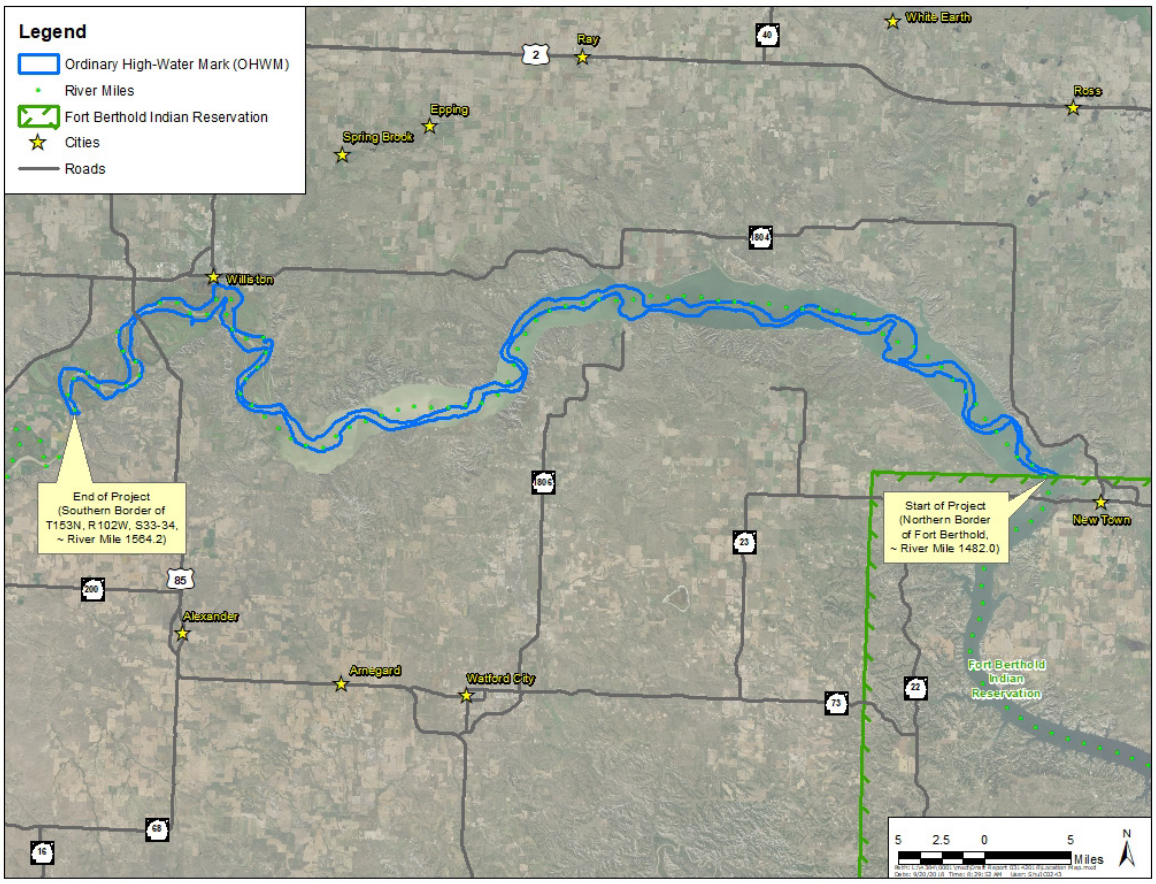


Figure 1 Project Location Map

2.0 Ordinary High Water Mark Definition

2.1 DEFINITION USED FOR DETERMINATION

There are various definitions for the OHWM. The legislation that initiated this report states that the following definition be used for the study of the OHWM (see Appendix A):

a. State case law regarding the identification of the point at which the presence of action of the water is so continuous as to destroy the value of the land for agricultural purposes, including hay lands. Land where the high and continuous presence of water has destroyed its value for agricultural purposes, including hay land, generally must be considered within the ordinary high water mark. The value for agricultural purposes is destroyed at the level where significant, major, and substantial terrestrial vegetation ends or ceases to grow. Lands having agricultural value capable of growing crops or hay, but not merely intermittent grazing or location of cattle, generally must be considered above the ordinary high water mark; and
b. Subsection 3 of section 61-33-01 and section 47-06-05, which provide all accretions are presumed to be above the ordinary high water mark and are not sovereign lands. Accreted lands may be determined to be within the ordinary high water mark of the historical Missouri riverbed channel based on clear and convincing evidence. Areas of low-lying and flat lands where the ordinary high water mark may be impracticable to determine due to inconclusive aerial photography or inconclusive vegetation analysis must be presumed to be above the ordinary high water mark and owned by the riparian landowner.

In addition to the above, state statute and case law establishes that land where native hay has been more than intermittently harvested is presumed to be above the OHWM (see Appendix A).

2.2 OTHER DEFINITIONS

Other OHWM definitions provide additional background and support for the determination used for this study. The North Dakota State Engineer has a document titled Ordinary High Water Mark Delineation Guidelines dated January 2007 (ref 1). Other significant references include: 1) the U.S. Army Corps of Engineers Regulatory Guidance Letter dated 7 December 2005 (RGL 05-05)(ref 2), and 2) the 2009 Bureau of Land Management Manual for Surveying Instructions (ref 3). The Corps guidance is derived from 33 CFR 328.3(e). These documents provide information related to OHWM delineation on existing waterways and water bodies. Their use for this study is limited by the fact that all evidence of the historic OHWM of the Missouri River in the study area is under Lake Sakakawea and has been affected by sedimentation within the reservoir. However, this information is helpful since it relies on physical evidence in making OHWM determinations. Some of these physical characteristics can be related to historic aerial photography (i.e., "deposition, change in plant community, destruction of terrestrial vegetation" as identified in Corps RGL 05-05) and can be used to help inform a remotely-determined OHWM.

Additionally, these guidance documents provide validity to the use of other non-physical evidence such as "lake and stream gage data, flow frequencies, historic records of water

flow, and statistical evidence" (RGL 05-05). This information is used to assist in the determination of the OHWM.

N.D.C.C. § 61-33.1-03 does not address islands, but other state statutes and case law indicates that "[i]slands and accumulations of land formed in the beds of streams which are navigable belong to the state, if there is no title or prescription to the contrary. The control and management, including the power to execute surface and mineral leases, of islands, relictions, and accumulations of land owned by the state of North Dakota in navigable streams and waters and the beds thereof, must be governed by chapter 61-33." N.D.C.C. § 47-06-08. "Islands in navigable waters are considered to be below the ordinary high water mark in their entirety." N.D.A.C. 89-10-01-03(7). Islands that were formed prior to statehood as dry, fast lands, however, remain held by the federal government and did not pass to the state through the equal footing doctrine. State v. Loy, 20 N.W.2d 668, 671-672 (N.D. 1945); Scott v. Lattig, 227 U.S. 229, 242-243 (1913). "If a stream, navigable or not navigable, in forming itself a new arm divides itself and surrounds land belonging to the owner of the shore and thereby forms an island, the island belongs to such owner." N.D.C.C. § 47-06-10.

2.3 LEGAL RESEARCH

Overview

N.D.C.C. § 61-33.1-02, enacted by the legislature in 2017, governs mineral ownership of land inundated by the Pick-Sloan Missouri basin project dams:

> The state sovereign land mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams extends only to the historical Missouri riverbed channel up to the ordinary high water mark. The state holds no claim or title to any minerals above the ordinary high water mark of the historical Missouri riverbed channel inundated by Pick-Sloan Missouri basin project dams, except for original grant lands acquired by the state under federal law and any minerals acquired by the state through purchase, foreclosure, or other written conveyance. Mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams which are located within the exterior boundaries of the Fort Berthold reservation and Standing Rock Indian reservation is controlled by other law and is excepted from this section.

Wilkinson v. Bd. of Univ. & Sch. Lands, 903 N.W.2d 51, 56–57 (N.D. 2017) (quoting 2017 N.D. Sess. Laws ch. 426, codified as N.D.C.C. § 61-33.1-02). The "historical Missouri riverbed channel" is statutorily defined as:

> [T]he Missouri riverbed channel as it existed upon the closure of the Pick-Sloan Missouri basin project dams, and extends from the Garrison Dam to the southern border of sections 33 and 34, township 153 North, range 102 West which is the approximate location of river mile marker 1,565, and from the South Dakota border to river mile marker 1,303.

Review of Case Law

In State ex rel. Sprynczynatyk, 592 N.W.2d 591 (N.D. 1999), the North Dakota Supreme Court upheld a Burleigh County District Court's decision determining the ordinary high water mark of the property in question. This case involved a property of approximately 62 acres located in Bismarck/Mandan on the Missouri River. The District Court's Findings of Fact, Conclusions of Law and Orders for Judgment and the accompanying Memorandum Decision & Order provide some relevance to determining OHWM boundaries. A summary of these two court documents that resulted from that case follows:

1. **Memorandum Decision & Order (Civ. No910C01669) – Burleigh County District Court**
   A. The test for accretions is discussed on pages 2 and 3 (Appendix B). The accretion must be from "natural causes" and must be on the "bank of the river." "[U]ntil the accretion rises above the OHWM, the title does not vest in the riparian owner." Citing Borough of Ford City v. U.S., 345 F.2d 645 (3d Cir. 1965); Nelson v. Stratbucker, 325 N.W.2d 391 (Iowa 1982) (page 4, Appendix B).
   B. The ordinary high water mark cannot be established by "average flows", or a point on the gage at any given place (page 5, Appendix B).
   C. Plaintiff's experts provided evidence to demonstrate the location of the OHWM at the property in question. The court agreed with the plaintiff's experts' conclusion. The evidence presented by the plaintiff's experts included:

      - No crops had been grown on the property although hay was harvested once in the 1990's.
      - The land in question had not changed significantly since 1968 according to one expert, based on personal observations and photographs.
      - The OHWM was determined to be located where a "shelf" was present. At this location, the land rose abruptly four to six feet, creating a shelf.
      - Sandy soils, coupled with aquatic vegetation typical of a wetland shore zone, were present below the shelf; upland vegetation was present above the shelf.
      - The area in question was determined to consist of class 7 and 8 soils which are unusable for any productive purpose. The soils were characterized as poorly drained with stratification indicative of frequent flooding and a high water table.
      - The land immediately to the east was characterized as a "terrace" with class 3 or 4 soils that would be suitable for cropland. The property at issue was termed a "floodplain" and the demarcation between the terrace and floodplain was the location of the OHWM.
      - Wetland vegetation dominated the area and the land was known to flood frequently.
      - The land was determined to be unreliable or useful for agricultural purposes, including the grazing of cattle since the saturated conditions would cause hoof rot. Fencing was determined to be infeasible.

2. **Findings of Fact, Conclusions of Law, and Order for Judgment (Civ. No 91-C-1669) – Burleigh County District Court**
   This order provides a discussion of the defendant's assertions and evidence presented by the defendant that was used to determine the OHWM. The plaintiff provided evidence (as listed above) to demonstrate the presence of the OHWM,

which the court concluded was "substantial and persuasive". An important statement in the document is that "aerial photos of the land and the areas adjoining it to the north and the south, make apparent, even to the layperson, the location o[f] the ordinary high watermark. The tree line of the river valley forest identifies the ordinary high watermark. Along the tree line there is a clear change in the characteristics of the land."

Several other cases were reviewed regarding the law of OHWM; however these cases discuss the standard for OHWM and not the method for determining the OHWM. They are included in Appendix B.

3.0 Data Compilation

3.1 DATA PROVIDED BY THE STATE

The following data were provided by the State:

- 1951 aerial photographs covering the area of interest (TIF images, no geo-referencing information). Photo 340_263 was missing in the original files. Hard copies of the same were borrowed from the DMR for use with a stereoscope to allow three-dimensional viewing. The hard copy of Photo 340_263 was scanned and inserted with the other TIF images.
- 1943 aerial photography (TIF images, no geo-referencing information).
- Tract boundaries (USACE survey) in GIS format.
- Geo-referenced 1943 USGS topographic maps covering the area of interest.

3.2 DATA COLLECTED FROM THE USACE, RIVERDALE OFFICE

The USACE office in Riverdale has many of the original records related to the construction of the Garrison Dam. As part of the project, scanners were brought to the Riverdale office and used to scan original records. The following data were collected:

- Segment (tract) maps (Appendix D).
- Appraisal documents (samples provided in Appendix D).
- Other miscellaneous data such as selected maps, and 1943 aerial photos (unindexed).

3.3 DATA COLLECTED FROM THE USACE, OMAHA DISTRICT

The following data were obtained from the USACE office in Omaha, NE:

- Missouri River pre-dam cross sections (Appendix D).
- Comments relating to the source of the information related to the river's edge on the segment (tract) maps (Appendix D).
- Geo-referenced 1943 topographic maps (these were found to be the same as the information from the State with some correction of maps on the western boundary).
- USACE project manuals and hydrologic information (collected from the web, ref. 4).

3.4 DATA FROM THE USGS

Flow data were collected from the USGS website at gage station 06330000, Missouri River NR Williston, ND, from 1929-1965.

https://waterdata.usgs.gov/nwis/uv?06330000

Although data were acquired up to 1965, to account for pre-Garrison Dam conditions, the data were only analyzed from 1929-1953. Plots of the data are included in Appendix C.

4.0 Data Processing

4.1 GEOREFERENCING THE AERIAL PHOTOGRAPHY

The State (DMR) provided single frame aerial imagery for the years 1951 and 1943. These data were initially georeferenced to 2016 National Agriculture Imagery Program (NAIP) orthophotos as described below. After initial review, it was decided that 1951 imagery provided the best data for the OHWM study. The 1951 imagery is closest date-wise to the completion of the earthwork for the Garrison Dam started in 1954. The 1943 photos were taken shortly after a significant flood event that washed out much of the floodplain area, limiting the usefulness of information available for analysis.

The DMR requested refinements to the georeferencing of the 1951 aerials by adding more control points. The methodology changed slightly from the initial georeferencing in that highly distorted areas and significant areas of overlap were clipped from the original photo to further minimize error. Additional details are provided below.

The 1943 data were used as a secondary reference as described further in Section 5.

4.1.1 Initial Georeferencing Methodology

Aerial photos stamped September 16, 1951 were georeferenced to the project using recent aerials photos from 2016 and 2003; both orthophotos were collected under the NAIP. Georeferenced photos started at the southeast corner of the project area and were referenced sequentially east to west. Approximately 10-15 control points were used to reference each image. In areas of overlap the images used similar referencing points to reduce the distortion. In the eastern portion of the project area, points referenced road crossings, driveways with farmsteads present in 2016 and 1951, and rock outcroppings. In limited cases where road crossings and unique identifiers were lacking, stream confluences were used to "generally" reference the photo. Once the photo was referenced, the control points were reviewed, and stream confluences were removed as reference points.

To start, reference points were placed on the corner of the photos and fitted to road crossings (where available) and geologic features. Points were then added to the center of the photo at road crossings, structures that appear in both the 2016 and 1951 photos, and rock outcroppings along the banks of the river. Rock outcrops were selected based on prominence and their ability to be easily distinguishable in both the 1951 and 2016 imagery. Once the image was georeferenced using a first order polynomial transformation, the residuals were checked. In cases where the residuals were relatively high, a second order polynomial transformation was used. The photo was checked for distortion and warping; control points were adjusted accordingly to minimize image distortion. Third order polynomials were not used due to warping of the images with limited control points.

Following georeferencing all the 1951 images within the project extent, photos were selected that minimized distortion and extended from bank to bank. The images selected for analysis are the following: 340_317, 340_315, 340_265, 340_264, 340_312, 340_269, 340_271, 340_273, 340_275, and 340_301. Images 340_304, 340_305, 340_306, 340_307 were not georeferenced; they do not show any portion of the river.

The 1943 aerial photos were georeferenced in the same manner as the 1951 images. Between 5-10 control points were set in the corners where like geographic features existed and in the bluff area along the river. The scale of the images is smaller than the 1951 images, in most cases several tiles span the river. Tiles that are positioned over areas exposed in current imagery were georeferenced first. This allowed photos spanning the open water on the current imagery to reference the 1943 photos that were referencing rock outcroppings, out buildings, road crossings, etc. To minimize the errors, photos that span the open water areas were georeferenced and corrected once the tiles spanning the river were complete. Images from 1943 primarily used a first order polynomial transformation. This transformation minimized the distortion of the rectified image. For each image, notes were recorded if the photo lacked reference points, was georeferenced based on other 1943 photos, or had referenced unique control points.

4.1.2 Georeferencing Refinements

The georeferencing of the 1951 aerial photo set was refined as follows. The initial georeferencing utilized all of the photos. The refined georeferencing focused on using the following subset of the photos: 340_317, 340_317, 340_315, 340_314, 340_313, 340_312, 340_311, 340_310, 340_309, 340_263, 340_364, 340_269, 340_270, 340_271, 340_272 340_273, 340_274, 340_275, and 340_301, 340_300. Photos were inspected and clipped to remove highly distorted areas. Clipping the images on the far edge of the photos removed warping and creases. These distortions are due to a legacy of scanning paper maps. Areas extending one mile outside of the draft OHWM were clipped and retained as the base photo for use in delineating the OHWM.

Georeferenced photos started at the western edge of the project area and continued east to New Town. Approximately 30 to 50 control points were placed manually to reference each image. Road crossings, farmsteads, and rock outcrops were used to reference the 1951 imagery to the 2016 NAIP photos. To help with edge matching, auto-referencing was used in some cases. When auto-referencing was used, the amount of control points significantly increased. Auto-referenced points with relatively high residuals were deleted. A second or third order polynomial transformation was used to fit the 1951 photo to the 2016 photo. The photo was checked for distortion and warping; control points were adjusted accordingly to minimize image distortion.

To estimate the error in the georeferencing, 56 sample points (approximately 3 points per photo) were compared between the 1951 aerials and the 2016 NAIP aerials. The average error was 48.5 feet.

4.2 GEOREFERENCING REFINEMENTS TO THE TRACT BOUNDARIES

The USACE property survey boundaries or tract boundaries were received from the State in GIS format. The tract boundaries show the land ownership adjacent to the river, extending approximately one mile outside of the river valley. These boundaries were used to locate appraisal data and compare farmed acreages.

A comparison of these boundaries to those evident on the 1951 aerial photo shows discrepancies. Metadata associated with the creation of the data (creator, how it was created, when the data was created) were not found. The spatial dataset was then adjusted to assign farmed areas within the area of interest accurately within a single parcel. The

method used to shift the boundaries to better represent tract boundaries accurately is discussed below.

A copy was made of the original dataset and corners of the parcels were adjusted using the Spatial Adjustment toolset within ArcGIS. The spatial adjustment tools allow for users to align features to another dataset by setting displacement links from the original dataset and creating a match point to the new location. Several options are available when spatially adjusting data; "rubber-sheeting" was selected to adjust boundaries to current parcel boundaries. The tract boundaries were adjusted to multiple parcel datasets that encompass the Missouri River: Williams and Mountrail to the north and McKenzie to the south.

The historic boundaries were adjusted only if there was clear evidence of similar geometric properties (i.e. section or quarter sections were identifiable between both datasets). Other properties that did not demonstrate clear geometric properties in both datasets were not referenced to modernized parcel boundaries, although the referencing from adjacent links fit the tract boundaries well to the modern parcels.

Displacement links were created to adjust the tract boundaries to the modernized parcel dataset. Additional displacement links were added on the western edge of the project area in the floodplain between Williams and McKenzie Counties along the U.S. Highway 85 bridge. The 1951 aerial photo was used to better delineate the tract boundaries in this area. Inferences were made in adjusting the field boundaries. In places where a tree line or roads existed and the boundary discrepancy was less than 100 feet, the boundary was adjusted to the aerial demarcation. In total, 253 displacement links were created to better represent the tract boundaries dataset.

To estimate the error in the data, areas of randomly selected tracts within each USACE segment map were compared with the areas of the same tracts within the GIS data set. The average area of the 32 randomly selected tracts was 210 acres. The average error was 6.9 acres or 3 percent.

4.3 USACE CROSS SECTION DATA

Pre-dam Missouri River cross section data were provided by the USACE. There are 19 available sections throughout the 83-river-mile study reach. An example of one is shown in Figure 2. These sections provide detailed survey across the floodplain that adds significant elevation information beyond that of the 1943 USGS topographic maps. Note the valley walls on either side of the river, the river banks, and terracing within floodplain. The remainder of the cross sections used are provided in Appendix D.

4.4 USGS FLOW DATA

Daily Missouri River pre-dam flow records from the USGS Williston gage were analyzed to determine a relatively frequent high flow causing inundation long enough that would destroy substantial terrestrial vegetation useful for agricultural purposes. Figure 3 shows a portion of pre-dam flow records. It can be seen that a discharge of approximately 80,000 cfs occurs regularly (statistically every two years). In some years it is exceeded twice in one year. Additional information is provided in Appendix C.

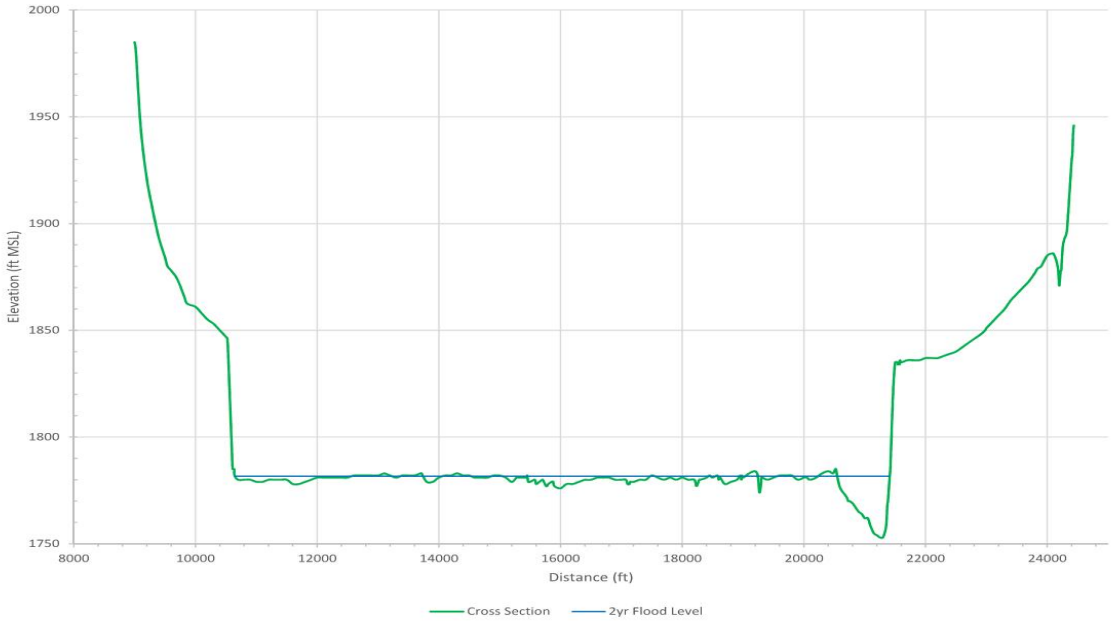


Figure 2 USACE Cross Section 1561.6

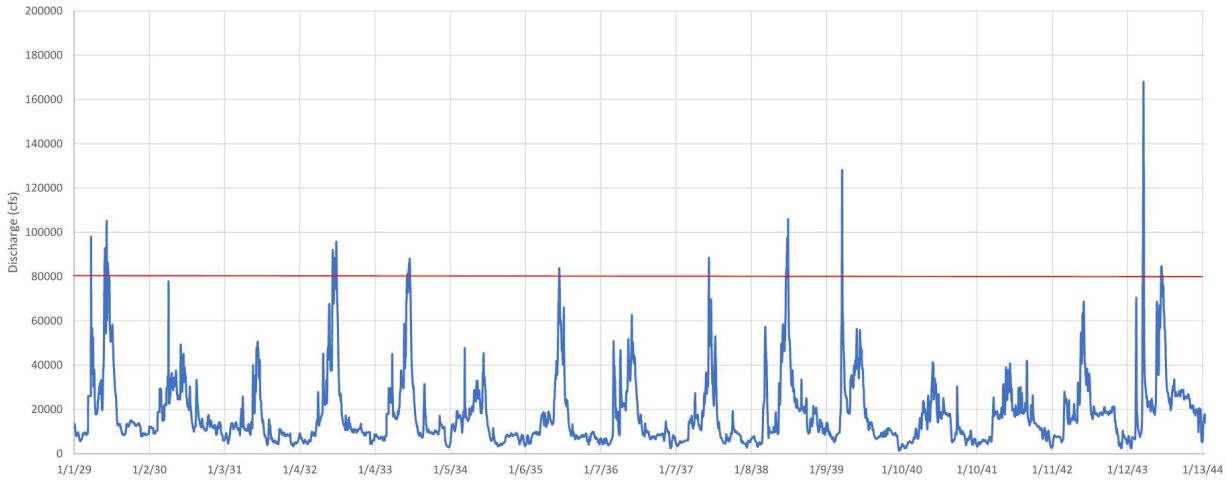


Figure 3 Missouri River Flow at Williston

5.0 Determination Methodology

5.1 GENERAL APPROACH

The OHWM is caused by relatively high flows that occur frequent enough to destroy the value of land for agricultural purposes. These flows or the presence of action of the water are so continuous as to kill vegetation useful for agricultural purposes. The OHWM follows the water level and as a result is higher upstream than it is downstream. This variation in elevation along the study reach is estimated using a hydraulic model described below to calculate a water surface profile for the entire 83-mile study reach.

The modeled water surface profile is used with the 1943 topographic maps to estimate an area of inundation. This area of inundation is compared with evidence contained in historic aerial photographs. Adjustments to the area of inundation are made where photographic evidence matches the OHWM definition. Any farmed areas, including lands capable of growing hay, but not merely intermittent grazing or location of cattle, are considered above the OHWM. The resulting area is the OHWM determination of this study. Details of the methodology are provided below.

5.2 FLOW MODELING

The USACE Hydraulic Engineer Center's River Analysis System (HEC-RAS) software was selected to develop a hydraulic model of the Missouri River for pre-dam conditions. This is made possible by the pre-dam cross-section data collected by the USACE. These data with USGS flow information from the gage at Williston provide a means to estimate the flow levels throughout the study reach. The flow levels that occur approximately every two years are shown in Figure 8. Details of the hydraulic model are included in Appendix E.

5.3 TOPOGRAPHIC INFORMATION

Applying the flow levels estimated by the hydraulic model to the 1943 topographic maps for the area results in an estimated area of inundation. The topographic maps have a 10-foot contour interval and interpolation is required for the area between contour lines. This area of inundation provides the first step toward delineating the OHWM. The next step is to compare the area of inundation with aerial photo interpretation as described below.

5.4 AERIAL PHOTO INTERPRETATION

Two sets of aerial photos are selected for pre-dam conditions, those taken in 1943 (on April 20, May 20 and 21), and those taken in 1951 (on September 16). The 1951 photos were selected as the more suitable set for the following reasons:

- The photos were taken closer to the date when the earthwork was completed for the Garrison Dam in 1954.
- There are no significant flood events preceding the photos that would erode the floodplain areas, potentially causing an erroneous setting of the OHWM determination at an excessive elevation.
- Since the photos were taken in September, the woody vegetation had leaves that allowed for better photo interpretation.

The opposite applies to the 1943 photos. They are limited due to fact they are older; they were taken shortly after a significant flood event (168,000 cfs on March 31, see USGS data in Appendix C and ref. 4) that eroded much of the floodplain and washed out evidence of the OHWM; and the vegetation has less leaves for photo interpretation given the early spring date. There are significant other data that make the 1943 set useful as a secondary reference. Many of the 1943 photos have notes and delineated farmed areas on them that appear to match those found in the USACE appraisal documents at Riverdale. This information helped confirm appraisal data. They are also helpful in determining the progression of farming in the floodplain area when compared with the 1951 data set.

It should also be noted that the 1943 aerial photos were likely used to create the USGS 1943 topographic maps. The river bank in the maps was used in establishing the USACE survey along the river (10/6/17 USACE email Appendix D). Comparison of the river banks between 1943 and 1951 shows significant movement of the meander bends. This is the reason for a significant portion of the differences between the OHWM determination of this report and the USACE survey.

Another reason for the differences between the OHWM determination of this report and the USACE survey, as pointed out by the State Engineer, may be that the presumption the USACE condemned riparian land to the OHWM may be in error. The USACE may have acquired riparian land to the ordinary low water mark (OLWM). Title to the bed and banks, up to the OHWM, of navigable waters passed to the State incidental to statehood under the Equal Footing Doctrine. *See* State ex rel. Sprynczynatyk v. Mills, 523 N.W.2d 537, 539 (N.D. 1994) (citations omitted). N.D.C.C. § 47-01-15 states that "the owner of the upland, when it borders on a navigable lake or stream, takes to the edge of the lake or stream at low water mark." This has been construed by the North Dakota Supreme Court as a rule of construction applicable to limited instances where the State contractually grants or conveys parts of its equal footing interests so as to avoid an interpretation that would gift title to an upland owner in violation of the anti-gift clause language of N.D. Const. Art. X, § 18, (*see* Reep v. State, 841 N.W.2d 664, 675 (N.D. 2013)), However, it was likely understood to be the law at the time the USACE was condemning land for the Garrison Reservoir. Since it may have been interpreted by the USACE that the riparian owner took title to the OLWM of the Missouri River, the USACE would have sought to acquire all riparian lands to the OLWM.

The inundated area determined by the flow modeling and 1943 topographic maps as described above was reviewed in detail on the 1951 aerial photos. The OHWM was determined as "that line below which the action of water is frequent enough either to prevent the growth of vegetation or to restrict its growth to predominantly wetland species". A stereoscope was used with overlapping aerial photos to better see three-dimensional landforms such as swales and to determine high and low areas.

Farmed and hayed areas were designated as above the OHWM. Accreted lands above the line which restrict vegetation to predominantly wetland species were also designated above the OHWM. Areas of low-lying and flat lands where the OHWM was impracticable to determine due to inconclusive aerial photography or inconclusive vegetation analysis was presumed to be above the OHWM.

5.5 APPRAISAL DOCUMENTS

Appraisal documents were prepared by the USACE to purchase easements prior to the construction of the dam. These documents often provide tables of acreages and maps that identify and delineate various land uses and even vegetation and soils for a particular

property or tract. The value of the easement is determined from these land uses. The appraisal documents, especially the maps, provided excellent information to support the delineation of farmed areas that were not readily identifiable in some aerial photos.

5.6 REVIEW

The OHWM determination was reviewed at various times during the process by geomorphologists, river engineers, wetland scientists with aerial photo interpretation expertise, and legal experts.

5.7 CONSIDERATION OF ERROR

The OHWM was carefully determined with available information. As with every process there are sources of error. The primary sources for this work include the following:

- Aerial photo geo-referencing – See Section 4.1 for efforts made to minimize errors.
- Tract boundary survey – See Section 4.2 for efforts made to minimize errors.
- Aerial photo resolution – While the 1951 aerial photos are of relatively good quality, the resolution limits exact placement of lines.
- Aerial photo date – The 1951 aerials were the most current available photos prior to the completion of earthwork for the Garrison Dam in 1954. Stream meandering occurring in the interim is not accounted for.

6.0 Results

The OHWM determination described in the previous section is compared with the USACE survey. Results are shown with the Bureau of Land Management (BLM) National Public Land Survey System quarter-quarter sections on Maps 1 through 18. Many of the BLM quarter-quarter sections near the river are irregular, not square 40-acre plots. The irregularity is likely a result of a survey done by a sinuous water course that is constantly moving.

For each segment of the USACE survey, recommendations are made to either maintain, adjust or modify, or correct the USACE survey line (See hatched areas on Maps 1 through 18). Changes to the USACE survey are only recommended if there is clear and convincing evidence. For the area where there is a direct correlation between the USACE survey and the determination completed for this report, from the downstream end of the project to the approximate south boundary of Township 153N Range 101W, Section 6 or River Mile 1482 to 1553.5, the USACE survey area is 16,687 acres and the OHWM determination area is 26,194 acres. Table 1a shows the detailed results for the above river reach. Table 1b shows the detailed results in the project area where USACE survey is limited or not available, south of Township 153N Range 101W, Section 6 or upstream of River Mile 1553.5.

The last column of Table 1a shows the net difference in area between the USACE survey line and the OHWM determined by the project. This net difference is not applicable where the USACE survey line is not available (shown as N/A in Table 1b). The USACE survey line starts at the downstream end of the project at River Mile 1482 and ends on the east bank of the river just upstream of River Mile 1557 (see Map 17). On the west bank of the river the USACE survey line ends at River 1553.5 (see Map 16).

These areas shown in Tables 1a through 1b are for the purposes of estimating the overall effect of the study and not for property transfer purposes. The areas for each property will need to be determined by a Professional Land Surveyor. The coordinates of the USACE survey and the OHWM from this study are provided in Appendix F and will be available digitally from the DMR website for this purpose.

The columns in Table 1a and 1b are defined as follows:

- Column one is the BLM quarter-quarter section identification (Township, Range, Section, and quarter-quarter).
- Column two is the total area of the quarter-quarter section as computed digitally from the BLM lines.
- Column three is the area below the USACE survey computed digitally from the USACE survey line and the quarter-quarter section boundaries.
- Column four is the area below the project determined OHWM computed digitally from the project OHWM and the quarter-quarter section boundaries.
- Column five is the area above the project determined OHWM computed digitally from the project OHWM and the quarter-quarter section boundaries.
- Column six is the difference between Columns three and four where applicable. The results are rounded to the nearest tenth.

Results for selected quarter-quarter sections are shown in Figures 4 through 7 to further explain different configurations.

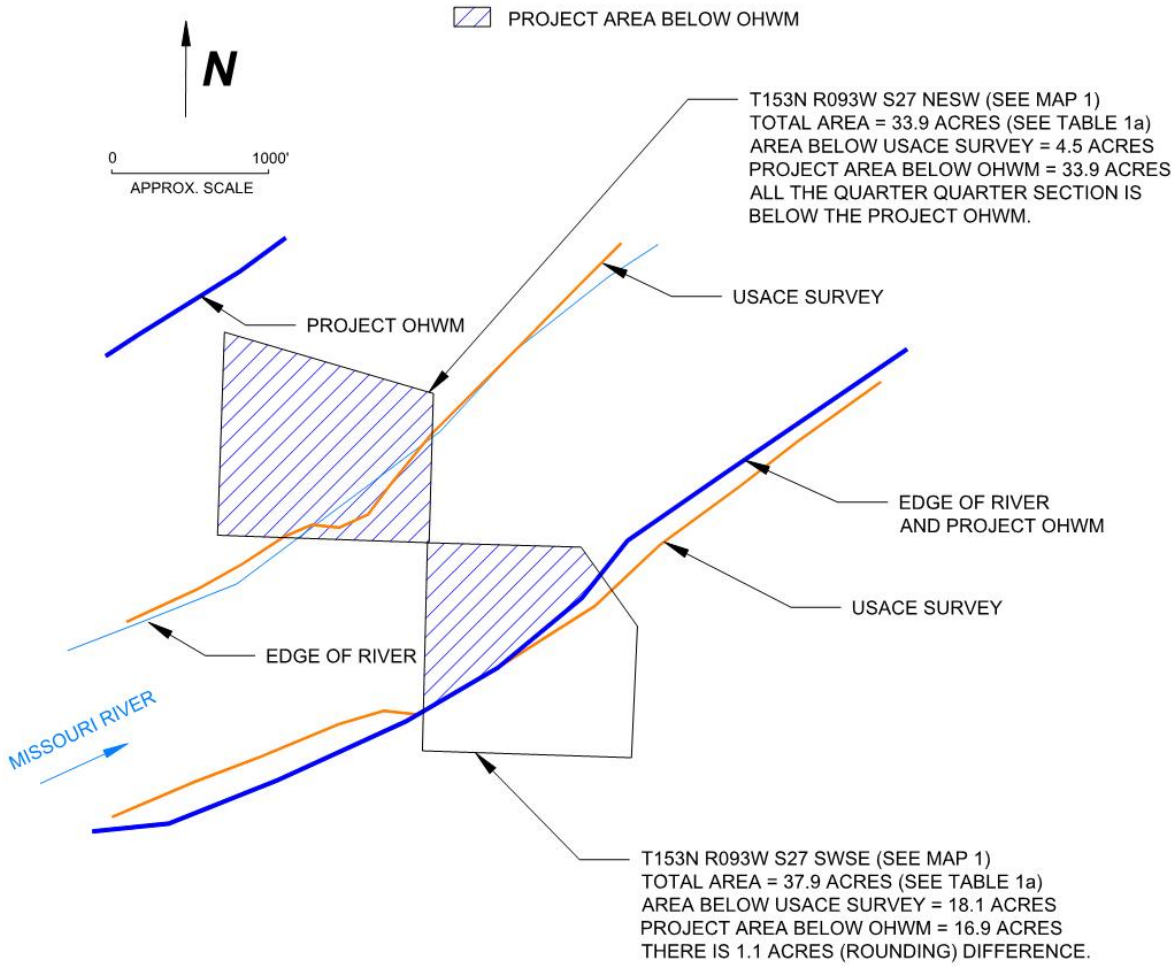


Figure 4 Example Quarter-Quarter Sections from Map 1

Figure 4 shows two quarter-quarter sections across the river from each other. The north quarter-quarter has a total area of 33.9 acres of which 4.5 acres is below the USACE survey line. The project OHWM determination is on the shore area that frequently inundated putting the entire quarter-quarter section below the OHWM.

The project OHWM determination for the south quarter-quarter section in Figure 4 has 1.1 acres less area than the USACE survey area. This is likely due to more recent aerial photo information.

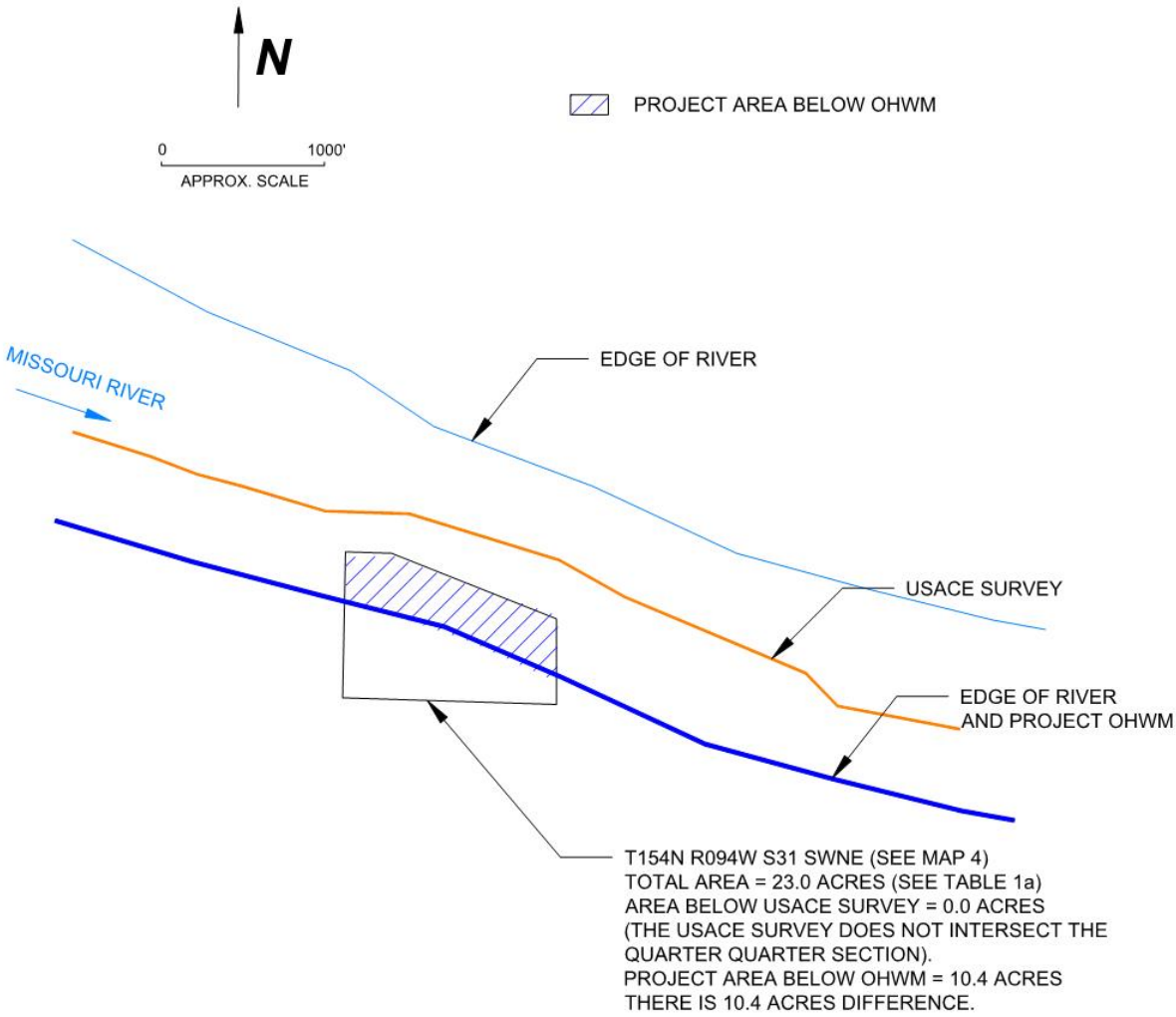


Figure 5 Example Quarter-Quarter Section from Map 4

Figure 5 shows an example where the USACE survey does not intersect a quarter-quarter section, but the determination for this project does.

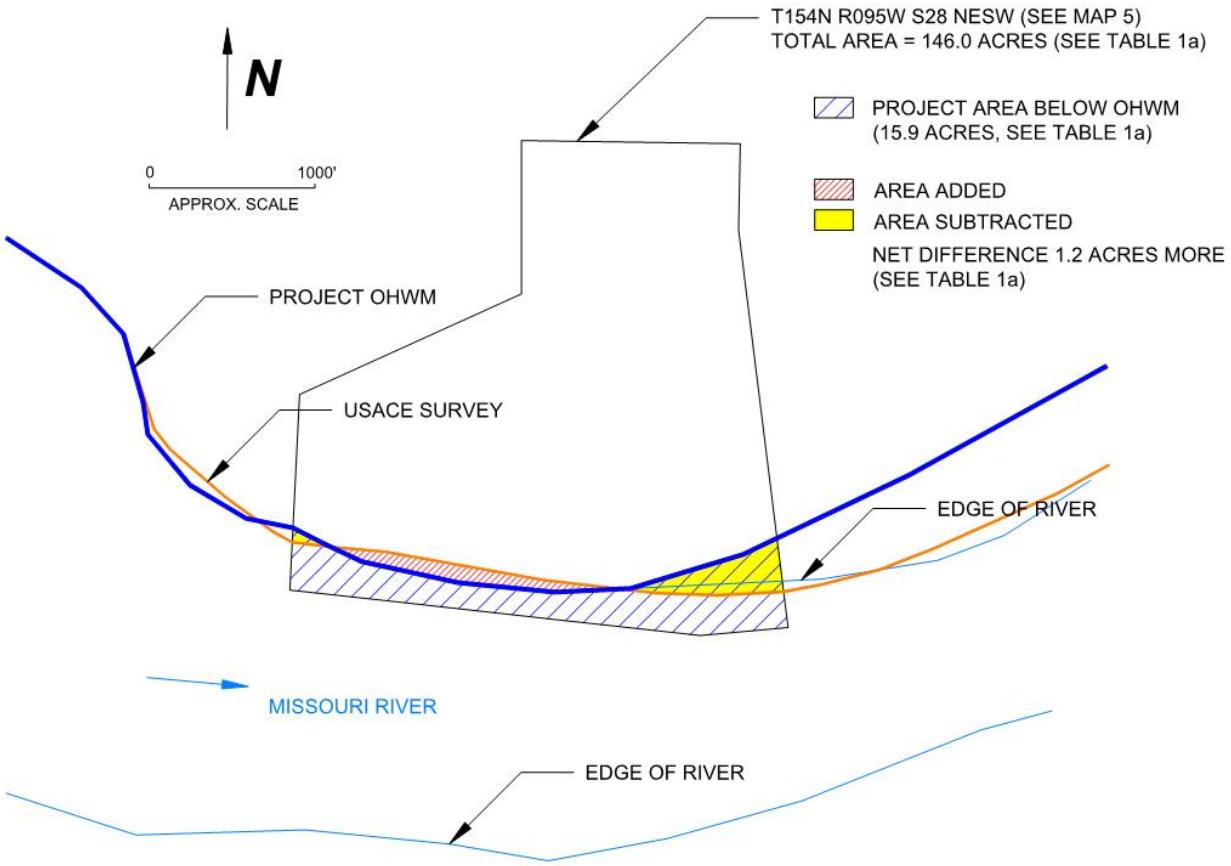


Figure 6 Example Quarter-Quarter Section from Map 5

Figure 6 shows an example where the project OHWM determination both increases and decreases the area in comparison to the USACE survey. If the net difference shown in Table 1a is positive, there is more area below the OHWM based on the project OHWM determination than the USACE survey.

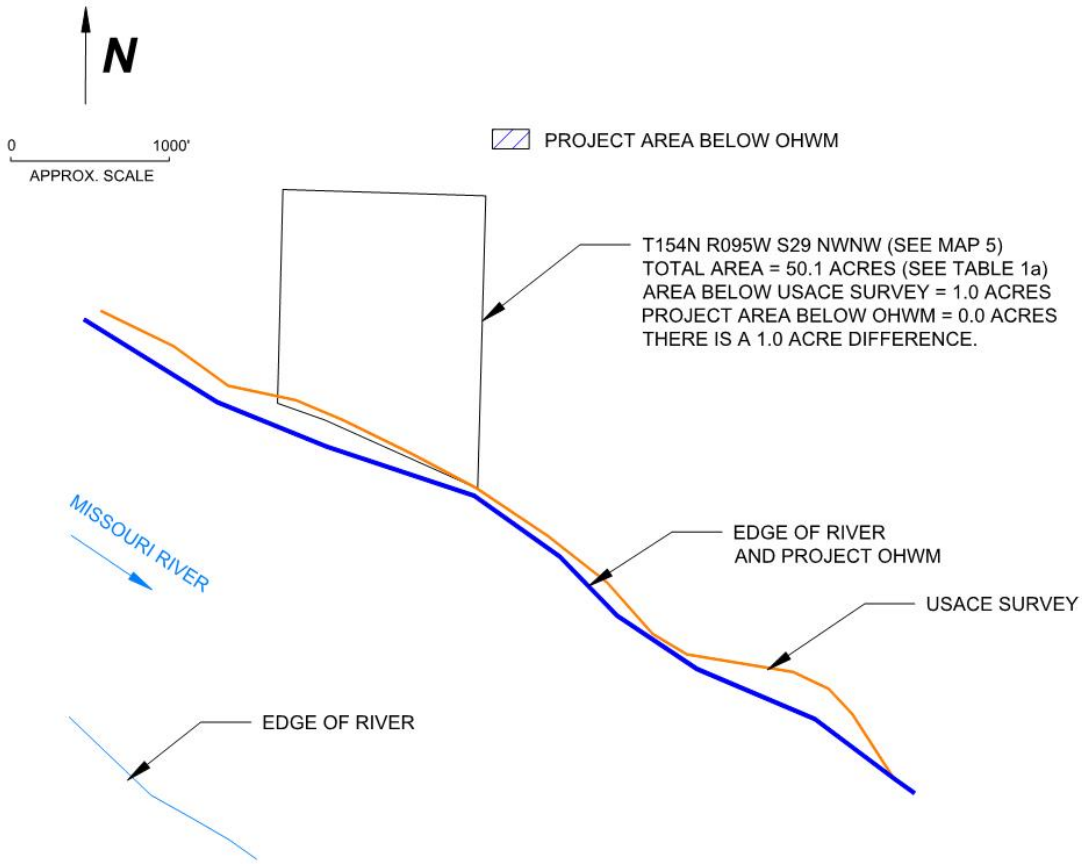


Figure 7 Second Example Quarter-Quarter Section from Map 5

Figure 7 shows an example where the USACE survey intersects the quarter-quarter section but the project OHWM determination does not. The area below the USACE survey is added above the OHWM within the existing quarter-quarter boundaries. In the configuration shown, there is additional area above the OHWM that could be added to the quarter-quarter section if the boundaries where extended south. There are very few of these configurations found as a result of the project OHWM determination. The existing quarter-quarter section boundaries where not changed as a part of this project.

7.0 References

1. North Dakota State Engineer, January 2007, Ordinary High Water Mark Delineation Guidelines.

2. U.S. Army Corps of Engineers, 7 December 2005, Regulatory Guidance Letter No. 05-05, Ordinary High Water Mark Identification.

3. U.S. Department of the Interior. 2009. Manual of Surveying Instructions: For the Survey of the Public Lands of the United States. Bureau of Land Management. Denver, CO: Government Printing Office.

4. U.S. Army Corps of Engineers, Omaha District, 1978, Missouri River Main Stem Reservoir System Reservoir Regulation Manual, Garrison Manual.

Tables

1a. Detailed OHWM Determination Results (Downstream of River Mile 1553.5)

1b. Detailed OHWM Determination Results (Upstream of River Mile 1553.5)

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
152N093W03SWSW	39.1	0.0	4.6	34.6	4.6
152N093W04NENW	45.9	17.4	45.6	0.4	28.2
152N093W04NESE	39.9	0.0	0.1	39.8	0.1
152N093W04NESW	4.2	4.2	4.2	0.0	0.1
152N093W04NWNE	57.6	11.6	18.4	39.2	6.8
152N093W04NWNW	1.2	0.0	1.2	0.0	1.2
152N093W04NWSE	20.6	0.0	3.5	17.1	3.5
152N093W04NWSW	33.9	11.8	19.4	14.5	7.6
152N093W04SENW	9.4	8.3	9.4	0.0	1.1
152N093W04SESE	22.1	0.0	10.5	11.6	10.5
152N093W04SESW	34.6	7.6	12.8	21.9	5.1
152N093W04SWNE	39.9	3.0	6.5	33.5	3.5
152N093W04SWNW	8.8	8.5	8.8	0.0	0.3
152N093W04SWSE	8.1	6.0	7.3	0.8	1.3
152N093W04SWSW	40.0	0.0	0.1	39.9	0.1
152N093W05NENE	48.0	2.8	21.5	26.5	18.6
152N093W05NESE	39.9	0.0	0.1	39.7	0.1
152N093W05SENE	39.7	5.2	12.8	26.9	7.5
152N093W09NENE	26.1	9.7	11.9	14.2	2.2
152N093W09NWNE	39.1	6.6	6.1	33.0	-0.4
152N093W10NENE	36.4	1.3	2.3	34.1	1.0
152N093W10NENW	14.9	0.0	1.0	14.0	1.0
152N093W10NESE	43.3	0.5	2.5	40.7	2.0
152N093W10NWNE	24.4	0.0	0.9	23.5	0.9
152N093W10NWNW	12.0	5.5	9.8	2.2	4.2
152N093W10NWSE	48.1	0.0	0.3	47.8	0.3
152N093W10SENE	3.7	3.1	3.4	0.3	0.2
152N093W10SENW	30.6	5.6	13.4	17.2	7.8
152N093W10SWNE	17.5	6.8	13.4	4.1	6.5
152N093W10SWNW	40.0	1.5	3.5	36.5	2.0
152N093W11NESW	8.5	1.2	0.7	7.8	-0.5
152N093W11SENW	39.3	4.4	1.9	37.4	-2.5
152N093W11SWNW	18.4	6.0	2.6	15.8	-3.4
152N099W05NENE	67.8	0.0	0.6	67.2	0.6
152N099W05NENW	52.5	1.0	3.4	49.1	2.4
152N099W05NWNE	60.9	0.2	1.4	59.5	1.2
152N099W05NWNW	57.1	2.7	17.0	40.1	14.4
152N099W06NENE	71.9	4.5	36.6	35.3	32.1
152N099W06NENW	100.5	4.0	44.1	56.4	40.1

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
152N099W06NWNE	86.3	3.0	43.2	43.2	40.2
152N100W02NENW	62.9	0.0	1.0	61.8	1.0
152N100W02NWNW	17.8	0.0	2.8	15.1	2.8
152N100W02NWSW	60.3	0.0	25.1	35.2	25.1
152N100W02SWNW	42.7	0.0	5.4	37.3	5.4
152N100W02SWSW	56.5	0.0	17.4	39.1	17.4
152N100W03NENW	47.8	2.0	3.6	44.2	1.6
152N100W03NWNE	3.1	0.8	0.0	3.1	-0.8
152N100W03NWSW	0.9	0.1	0.9	0.0	0.9
152N100W03SENW	0.6	0.1	0.5	0.1	0.4
152N100W03SESE	23.4	0.0	18.5	4.8	18.5
152N100W03SWNW	27.7	0.3	6.0	21.7	5.7
152N100W04NESE	13.0	0.3	2.4	10.6	2.1
152N100W04NWSE	25.8	0.2	0.0	25.8	-0.2
152N100W04NWSW	29.3	0.0	0.3	29.1	0.3
152N100W04SESW	7.3	0.8	3.6	3.7	2.8
152N100W04SWSW	0.4	0.0	0.4	0.0	0.4
152N100W05NESW	12.1	2.7	10.5	1.6	7.8
152N100W05NWNE	40.9	0.0	0.0	40.8	0.0
152N100W05NWNW	10.6	4.2	3.2	7.4	-1.0
152N100W05NWSW	40.0	0.3	2.1	37.9	1.8
152N100W05SENE	29.4	0.0	0.1	29.3	0.1
152N100W05SESW	37.4	0.2	17.1	20.3	16.9
152N100W05SWNE	0.5	0.0	0.1	0.4	0.1
152N100W05SWNW	31.5	5.2	6.3	25.2	1.1
152N100W05SWSE	9.2	0.1	9.2	0.0	9.1
152N100W06NENE	66.6	9.0	8.3	58.3	-0.7
152N100W08NENE	39.9	11.9	28.1	11.8	16.2
152N100W08NENW	39.8	0.0	0.0	39.8	0.0
152N100W08NWNE	40.0	0.4	11.3	28.7	10.9
152N100W09NENW	0.2	0.2	0.2	0.0	0.0
152N100W09NWNW	21.6	11.3	17.8	3.8	6.5
152N100W09SENE	2.9	0.0	0.0	2.9	0.0
152N100W09SENW	27.7	1.4	1.5	26.2	0.2
152N100W09SWNW	39.9	0.3	0.7	39.2	0.4
152N100W10NENE	51.4	0.0	17.1	34.3	17.1
152N100W10NWNE	16.6	0.0	8.4	8.2	8.4
152N100W10SENW	33.6	0.0	1.1	32.4	1.1
152N100W10SWNE	39.8	0.0	0.0	39.8	0.0

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
152N100W10SWNW	22.9	0.0	8.6	14.3	8.6
153N093W07NENE	40.0	0.0	0.0	40.0	0.0
153N093W07NESE	6.3	0.0	6.3	0.0	6.3
153N093W07NESW	39.8	37.7	39.8	0.0	2.1
153N093W07NWNE	23.9	0.0	0.0	23.9	0.0
153N093W07NWSE	30.1	16.8	30.1	0.0	13.3
153N093W07NWSW	39.0	39.0	39.0	0.0	0.0
153N093W07SENE	18.0	0.0	0.0	18.0	0.0
153N093W07SENW	5.5	1.9	5.5	0.0	3.6
153N093W07SESE	29.7	24.8	29.7	0.0	4.9
153N093W07SESW	39.9	35.5	33.2	6.7	-2.2
153N093W07SWNE	0.0	0.0	0.0	0.0	0.0
153N093W07SWNW	9.9	9.8	9.9	0.0	0.1
153N093W07SWSE	39.9	39.9	39.9	0.0	0.0
153N093W07SWSW	39.0	18.3	15.7	23.3	-2.6
153N093W08NESW	40.0	0.0	1.3	38.7	1.3
153N093W08NWSW	78.8	0.0	64.3	14.5	64.3
153N093W08SESW	53.8	5.0	44.6	9.2	39.6
153N093W08SWSE	40.0	0.0	1.3	38.6	1.3
153N093W08SWSW	0.5	0.5	0.5	0.0	0.0
153N093W17NENW	2.9	0.8	2.9	0.0	2.1
153N093W17NESE	40.0	5.3	6.0	34.0	0.7
153N093W17NWNE	38.7	7.5	14.3	24.4	6.7
153N093W17NWNW	13.9	13.1	7.9	6.1	-5.2
153N093W17NWSE	27.9	27.9	27.9	0.0	0.0
153N093W17SENE	40.0	0.7	1.1	38.9	0.4
153N093W17SESE	40.0	14.7	14.6	25.4	-0.1
153N093W17SWNE	31.3	29.4	29.5	1.8	0.1
153N093W17SWNW	29.0	0.4	0.0	29.0	-0.4
153N093W17SWSE	29.8	25.8	29.8	0.0	4.0
153N093W18NENE	53.4	41.2	39.0	14.4	-2.2
153N093W18NWNE	27.0	0.3	2.7	24.4	2.4
153N093W20NESE	27.3	0.0	0.7	26.6	0.7
153N093W20SESE	39.9	0.0	0.2	39.7	0.2
153N093W20SWSE	12.3	0.0	0.3	12.0	0.3
153N093W20WE	228.9	207.2	217.2	11.7	10.0
153N093W26SENW	36.7	0.0	0.1	36.5	0.1
153N093W26SW	84.5	62.9	81.5	3.1	18.6
153N093W26SWNW	13.4	0.0	0.9	12.6	0.9

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N093W27NESW	33.9	4.5	33.9	0.0	29.4
153N093W27NWSE	11.8	11.2	11.8	0.0	0.6
153N093W27NWSW	39.9	0.0	32.6	7.3	32.6
153N093W27SENE	1.5	0.0	0.6	1.0	0.6
153N093W27SESW	39.9	35.3	38.5	1.3	3.3
153N093W27SWNW	2.6	0.0	0.2	2.4	0.2
153N093W27SWSE	37.93	18.07	16.94	20.99	-1.13
153N093W27SWSW	39.9	21.4	39.9	0.0	18.5
153N093W29NENW	13.9	13.7	13.7	0.1	0.0
153N093W29NESE	9.5	4.4	8.0	1.5	3.5
153N093W29NESW	39.9	0.1	1.4	38.5	1.3
153N093W29NWNE	30.5	8.1	8.5	21.9	0.4
153N093W29NWSE	28.2	12.2	21.5	6.7	9.4
153N093W29SENW	27.7	8.5	9.4	18.3	0.9
153N093W29SESE	40.0	23.1	34.4	5.6	11.3
153N093W29SWNE	1.0	1.0	1.0	0.0	0.0
153N093W29SWSE	39.9	0.4	4.8	35.1	4.4
153N093W32NENE	39.9	0.4	1.5	38.5	1.1
153N093W33NENE	13.2	1.6	3.9	9.3	2.3
153N093W33NENW	12.9	1.1	2.2	10.7	1.1
153N093W33NN	143.3	126.6	143.3	0.0	16.6
153N093W33NWNE	8.9	1.2	4.4	4.5	3.2
153N093W33NWNW	25.9	0.7	2.8	23.2	2.1
153N093W34NENW	40.0	1.0	3.7	36.3	2.7
153N093W34NWNW	39.9	13.6	17.0	22.8	3.5
153N093W35NESE	40.8	0.0	0.6	40.2	0.6
153N093W35NWSE	5.4	0.0	2.1	3.3	2.1
153N093W35SESE	25.9	0.0	10.5	15.5	10.5
153N093W35SWSE	0.3	0.0	0.3	0.0	0.3
153N093W35WE	114.4	96.0	111.4	3.0	15.4
153N093W36SWSW	40.1	0.0	0.3	39.8	0.3
153N094W02NENW	18.5	0.0	0.2	18.3	0.2
153N094W02NESW	25.6	0.0	0.6	24.9	0.6
153N094W02SESW	40.0	0.0	0.0	39.9	0.0
153N094W02SWSW	19.2	0.4	0.1	19.1	-0.3
153N094W03NENE	515.0	4.8	514.3	0.8	509.4
153N094W03SESE	0.4	0.0	0.0	0.4	0.0
153N094W04NENE	0.2	0.0	0.2	0.0	0.2
153N094W04NWNE	34.5	0.0	3.0	31.4	3.0

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N094W04NWSE	25.5	0.0	6.1	19.4	6.1
153N094W04SENE	9.6	0.0	0.8	8.8	0.8
153N094W04SESE	236.9	0.2	230.5	6.4	230.2
153N094W04SWSE	13.8	0.0	9.0	4.9	9.0
153N094W09NENE	19.0	0.0	1.5	17.4	1.5
153N094W09NWNE	32.1	0.0	3.1	28.9	3.1
153N094W10NENE	28.4	0.6	0.0	28.4	-0.6
153N094W10NENW	2.2	0.3	0.8	1.4	0.5
153N094W10NESE	39.9	0.1	0.3	39.6	0.2
153N094W10NWNE	39.7	3.2	20.5	19.2	17.3
153N094W10NWNW	7.9	0.0	0.1	7.9	0.1
153N094W10SENE	9.6	0.9	4.2	5.4	3.3
153N094W10SENW	35.1	0.0	1.1	34.1	1.1
153N094W10SWNE	21.8	0.1	1.3	20.5	1.2
153N094W11NESW	18.5	2.7	2.4	16.1	-0.3
153N094W11NWSE	2.7	0.7	1.0	1.7	0.3
153N094W11NWSW	31.5	1.8	3.9	27.6	2.1
153N094W11SESE	26.7	2.1	5.3	21.4	3.2
153N094W11SWNE	63.5	0.0	14.4	49.1	14.4
153N094W11SWSE	38.7	0.5	1.8	36.9	1.3
153N094W12NESE	40.0	39.8	38.5	1.5	-1.4
153N094W12NESW	10.3	5.4	10.3	0.0	4.9
153N094W12NWSE	38.0	35.9	37.2	0.8	1.3
153N094W12SENE	12.0	12.0	12.0	0.0	0.0
153N094W12SESE	40.0	3.7	2.0	38.1	-1.7
153N094W12SESW	39.9	3.3	33.6	6.2	30.4
153N094W12SWNE	5.4	5.4	5.4	0.0	0.0
153N094W12SWSE	40.1	2.0	7.8	32.3	5.8
153N094W12SWSW	33.3	3.0	26.9	6.4	23.9
153N098W01NENW	37.3	0.0	6.7	30.5	6.7
153N098W01NWNW	5.4	0.0	5.1	0.3	5.1
153N098W01SWNW	27.9	0.0	6.7	21.2	6.7
153N098W02NWSE	12.0	0.1	0.0	12.0	0.0
153N098W02SESW	31.7	0.0	1.0	30.7	1.0
153N098W02SWNE	27.0	0.1	0.0	27.0	-0.1
153N098W02SWSE	0.1	0.0	0.0	0.0	0.0
153N098W11NENE	31.6	0.0	0.0	31.6	0.0
153N098W11NENW	14.3	2.5	8.2	6.1	5.7
153N098W11NESE	55.7	0.0	7.3	48.4	7.3

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N098W11NESW	0.9	0.1	0.6	0.3	0.5
153N098W11NWNE	93.5	0.0	15.5	78.0	15.5
153N098W11NWNW	73.0	2.8	8.3	64.6	5.6
153N098W11NWSW	35.3	1.3	1.6	33.7	0.3
153N098W11SENE	35.4	0.0	0.0	35.4	0.0
153N098W11SESE	3.1	1.1	3.1	0.0	2.1
153N098W11SESW	29.4	0.2	1.3	28.1	1.1
153N098W11SWSE	3.1	0.0	0.4	2.7	0.4
153N098W12SESE	40.2	0.0	0.2	40.0	0.1
153N098W12SESW	37.6	0.2	3.2	34.3	3.1
153N098W12SWSW	12.9	1.6	4.8	8.1	3.2
153N098W13NENW	8.9	0.2	5.7	3.1	5.6
153N098W13NWNE	38.8	0.0	3.1	35.7	3.1
153N098W13NWSE	19.9	0.0	3.1	16.8	3.1
153N098W13SWNE	22.3	0.0	4.4	17.9	4.4
153N098W13SWSE	27.6	0.0	0.1	27.5	0.1
153N098W14NENE	535.1	3.7	35.5	499.6	31.8
153N098W21NESE	61.5	0.0	46.2	15.3	46.2
153N098W21NESW	131.7	0.0	68.8	62.9	68.8
153N098W21NWSE	103.3	0.0	74.4	28.9	74.4
153N098W21NWSW	234.1	0.0	82.4	151.6	82.4
153N098W22NENE	45.9	0.2	7.0	38.9	6.8
153N098W22NWNE	40.0	0.0	0.0	39.9	0.0
153N098W22NWSW	21.7	0.0	15.8	5.8	15.8
153N098W22SENW	28.4	0.1	5.0	23.4	4.9
153N098W22SWNE	7.9	0.2	2.0	5.9	1.8
153N098W22SWNW	39.8	0.0	0.8	39.0	0.8
153N098W23NESE	4.8	0.2	1.6	3.2	1.3
153N098W23NWSE	66.5	3.1	17.6	48.9	14.5
153N098W23SENW	22.5	0.0	5.7	16.9	5.7
153N098W23SWNE	13.7	0.0	3.0	10.7	3.0
153N098W23SWNW	13.8	0.0	6.8	7.0	6.8
153N098W24NENW	1.8	0.0	0.0	1.8	0.0
153N098W24NESW	37.6	0.0	1.3	36.2	1.3
153N098W24NWNE	39.0	0.0	0.0	39.0	0.0
153N098W24SENW	16.2	0.0	0.6	15.6	0.6
153N098W24SWSW	57.9	1.2	2.0	55.9	0.8
153N098W26SWNE	92.4	0.9	7.3	85.1	6.4
153N098W27NENE	934.9	17.6	178.7	756.3	161.1

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N098W27NWNW	14.3	2.6	7.6	6.7	5.0
153N098W27NWSW	69.6	2.5	14.4	55.2	11.9
153N098W28NESE	11.2	1.7	10.3	0.9	8.6
153N098W28SESE	36.9	0.8	12.4	24.5	11.6
153N098W28SWSE	9.6	0.8	4.8	4.8	4.0
153N098W29NENE	276.2	0.0	43.9	232.3	43.9
153N098W29NESW	39.8	0.0	2.4	37.4	2.4
153N098W29NWSE	31.8	0.0	2.7	29.1	2.7
153N098W29NWSW	61.4	0.2	5.2	56.2	5.0
153N098W29SESW	7.5	0.0	6.1	1.4	6.1
153N098W29SWSE	1.7	0.0	1.7	0.0	1.7
153N098W30NWNW	38.6	0.0	0.0	38.6	0.0
153N098W30NWSW	101.5	42.1	4.8	96.7	-37.3
153N098W30SESE	37.5	0.1	4.1	33.4	4.0
153N098W30SWNW	37.2	10.5	0.0	37.2	-10.5
153N098W30SWSW	16.9	5.6	0.0	16.9	-5.6
153N098W31NENE	2.1	0.0	2.1	0.0	2.1
153N098W31NENW	30.3	0.0	7.4	22.8	7.4
153N098W31NWNE	15.6	0.0	8.2	7.4	8.2
153N098W31NWNW	5.4	0.0	0.3	5.2	0.3
153N098W31NWSE	444.1	23.4	94.9	349.2	71.5
153N098W32NENE	15.2	2.7	13.4	1.9	10.7
153N098W32NWNE	7.0	1.0	7.0	0.0	5.9
153N098W32SENE	39.8	0.0	1.4	38.3	1.4
153N098W32SWNE	36.9	0.0	1.5	35.4	1.5
153N098W33NENW	32.9	0.3	5.2	27.7	5.0
153N098W33NWNE	39.9	0.0	0.0	39.9	0.0
153N098W33NWNW	19.5	0.6	7.1	12.4	6.6
153N099W23NESE	16.1	3.8	0.0	16.1	-3.8
153N099W23NESW	32.3	1.1	0.0	32.3	-1.1
153N099W23NWSE	19.1	2.2	0.0	19.1	-2.2
153N099W23NWSW	40.0	0.0	0.0	40.0	0.0
153N099W23SESE	40.0	1.0	0.0	40.0	-1.0
153N099W23SESW	16.6	1.3	0.0	16.6	-1.3
153N099W23SWSE	35.3	1.0	0.0	35.3	-1.0
153N099W23SWSW	5.7	0.0	0.0	5.7	0.0
153N099W24NESW	28.3	0.6	0.0	28.3	-0.6
153N099W24NWSE	39.8	0.0	0.0	39.8	0.0
153N099W24NWSW	16.4	1.6	0.0	16.4	-1.6

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N099W24SESE	39.8	1.3	0.0	39.8	-1.3
153N099W24SESW	23.5	0.7	0.0	23.5	-0.7
153N099W24SWSE	19.5	5.4	0.0	19.5	-5.4
153N099W24SWSW	38.2	3.1	0.0	38.2	-3.1
153N099W25NENE	21.7	6.5	0.0	21.7	-6.5
153N099W25NESW	40.0	3.2	0.0	40.0	-3.2
153N099W25NWSW	38.9	17.4	0.0	38.9	-17.4
153N099W25SENE	4.0	2.1	0.0	4.0	-2.1
153N099W25SESW	39.9	9.0	0.0	39.9	-9.0
153N099W25SWSE	40.0	0.0	0.0	40.0	0.0
153N099W25SWSW	20.0	0.4	0.0	20.0	-0.4
153N099W26NENW	12.0	0.0	0.0	12.0	0.0
153N099W26NWSE	23.9	0.0	0.0	23.9	0.0
153N099W26SENW	4.7	0.0	0.0	4.7	0.0
153N099W26SWNW	26.9	0.5	0.0	26.9	-0.5
153N099W31NESE	61.7	1.5	16.8	44.9	15.3
153N099W31SENE	106.3	0.0	21.9	84.4	21.9
153N099W31SESW	39.5	0.0	0.0	39.5	0.0
153N099W31SWSE	10.5	0.0	0.0	10.5	0.0
153N099W32NENE	25.9	0.0	0.1	25.9	0.1
153N099W32NESE	36.0	0.9	3.7	32.3	2.8
153N099W32NWNE	30.8	0.0	0.0	30.8	0.0
153N099W32NWSE	8.8	0.7	3.5	5.3	2.8
153N099W32SENW	84.3	0.2	14.6	69.8	14.4
153N099W32SESW	10.2	0.0	0.0	10.1	0.0
153N099W32SWSE	37.4	0.4	1.2	36.2	0.8
153N099W33NENE	34.3	0.5	0.0	34.3	-0.5
153N099W33NENW	22.2	0.2	5.2	17.1	4.9
153N099W33NWNE	25.4	0.9	2.5	22.9	1.6
153N099W33NWNW	21.8	0.0	0.9	20.9	0.9
153N099W34NESE	36.7	0.8	2.2	34.5	1.4
153N099W34NESW	4.3	0.5	1.5	2.8	1.0
153N099W34NWSE	24.4	0.6	3.4	20.9	2.8
153N099W34SENW	37.9	0.2	0.6	37.3	0.5
153N099W34SWNW	17.0	0.3	0.6	16.4	0.2
153N099W35NESW	39.1	0.0	0.9	38.2	0.9
153N099W35NWSW	40.1	0.0	1.7	38.4	1.6
153N099W35SESE	5.4	0.0	0.7	4.7	0.7
153N099W35SESW	4.1	0.8	3.9	0.2	3.1

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N099W35SWSE	0.4	0.0	0.4	0.0	0.4
153N099W35SWSW	2.9	0.4	2.9	0.0	2.5
153N099W36NESE	22.7	13.8	13.9	8.9	0.0
153N099W36NESW	40.1	25.9	28.4	11.7	2.4
153N099W36NWSE	40.0	36.0	37.5	2.5	1.5
153N099W36NWSW	10.1	6.3	7.8	2.3	1.5
153N099W36SENE	18.7	7.2	12.0	6.7	4.8
153N099W36SESW	39.9	8.3	11.5	28.4	3.2
153N099W36SWNE	40.0	6.5	9.7	30.3	3.2
153N099W36SWSE	39.9	0.3	1.4	38.5	1.1
153N099W36SWSW	36.6	17.2	20.3	16.3	3.1
153N100W05SESW	607.5	5.8	185.8	421.7	180.0
153N100W06NENW	51.8	1.3	43.5	8.3	42.1
153N100W06NESW	4.4	0.0	2.7	1.7	2.7
153N100W06NWNW	27.7	0.0	27.7	0.0	27.6
153N100W06NWSW	22.4	0.0	1.8	20.7	1.8
153N100W06SENW	37.4	0.0	28.4	9.0	28.4
153N100W06SWNW	9.2	1.4	9.2	0.0	7.8
153N100W07NENW	49.9	0.0	8.1	41.8	8.1
153N100W07NESE	27.1	0.1	11.1	16.1	11.0
153N100W07NWNE	2.3	0.0	1.4	0.8	1.4
153N100W07NWSE	39.8	0.0	0.1	39.7	0.1
153N100W07SENE	0.4	0.0	0.4	0.0	0.3
153N100W07SESE	39.8	0.0	0.4	39.4	0.4
153N100W07SWNE	26.6	0.0	3.9	22.7	3.9
153N100W08NENE	28.2	2.0	0.1	28.1	-1.9
153N100W08NESW	2.8	0.7	2.8	0.0	2.0
153N100W08NWSW	0.1	0.1	0.1	0.0	0.0
153N100W08SESW	39.0	0.1	26.7	12.3	26.7
153N100W08SWSE	30.7	1.1	5.6	25.1	4.5
153N100W08SWSW	41.8	1.1	21.3	20.5	20.2
153N100W09NESW	6.0	0.0	0.0	6.0	0.0
153N100W09NWSE	10.5	1.1	2.9	7.6	1.8
153N100W09NWSW	1.4	0.2	0.0	1.4	-0.2
153N100W09SWNE	9.8	0.0	2.4	7.4	2.4
153N100W09SWSE	13.2	2.5	0.0	13.2	-2.5
153N100W09SWSW	38.4	0.5	0.0	38.3	-0.5
153N100W16NENW	5.0	5.0	5.0	0.0	0.0
153N100W16NESW	39.8	11.0	6.6	33.1	-4.4

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N100W16NWNE	36.4	16.6	13.1	23.3	-3.5
153N100W16NWSW	25.4	24.2	22.1	3.3	-2.1
153N100W16SENW	29.6	25.4	21.5	8.1	-3.8
153N100W16SWNE	38.4	1.6	0.3	38.1	-1.3
153N100W16SWNW	1.9	0.6	0.6	1.2	0.0
153N100W16SWSW	39.1	7.9	5.5	33.6	-2.4
153N100W17NESE	4.0	0.1	0.1	3.8	0.0
153N100W17SESE	18.0	13.5	12.2	5.8	-1.3
153N100W17SESW	35.4	0.0	1.7	33.7	1.7
153N100W17SWSE	6.6	0.0	0.2	6.4	0.2
153N100W19NESE	9.4	0.0	2.4	7.0	2.4
153N100W19SENE	33.2	0.0	2.9	30.3	2.9
153N100W19SESE	9.7	0.0	1.1	8.6	1.1
153N100W20NENE	39.5	4.5	2.4	37.2	-2.2
153N100W20NENW	5.1	0.0	1.9	3.2	1.9
153N100W20NESW	35.5	2.8	0.4	35.1	-2.4
153N100W20NWNE	11.2	6.0	2.7	8.5	-3.3
153N100W20NWNW	33.8	0.0	3.2	30.6	3.2
153N100W20NWSW	5.2	4.1	3.2	2.1	-0.9
153N100W20SENW	6.8	1.8	0.0	6.8	-1.8
153N100W20SWNE	38.2	3.4	1.1	37.0	-2.2
153N100W20SWNW	3.3	0.0	1.7	1.6	1.7
153N100W20SWSW	30.6	10.9	8.8	21.8	-2.1
153N100W29NWNW	38.2	1.3	0.5	37.8	-0.8
153N100W29SESW	25.4	0.0	0.0	25.4	0.0
153N100W29SWSW	5.8	0.0	0.3	5.4	0.3
153N100W30NENE	8.4	1.1	3.0	5.4	1.9
153N100W30NESE	18.5	4.4	7.2	11.3	2.8
153N100W30SENE	11.2	4.7	7.4	3.7	2.7
153N100W30SESE	33.7	0.0	2.4	31.3	2.4
153N100W32NENE	5.9	5.9	5.9	0.0	0.0
153N100W32NENW	14.1	2.7	4.7	9.5	2.0
153N100W32NWNE	0.7	0.7	0.7	0.0	0.0
153N100W32NWNW	37.5	0.0	0.7	36.8	0.7
153N100W32SENE	39.8	21.1	26.0	13.8	4.9
153N100W32SENW	39.6	0.1	0.9	38.7	0.8
153N100W32SWNE	39.5	12.0	15.0	24.5	2.9
153N100W33NENE	40.1	21.4	22.9	17.2	1.5
153N100W33NENW	24.1	12.7	12.6	11.5	-0.1

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N100W33NESE	39.9	0.0	1.4	38.6	1.4
153N100W33NWNE	38.9	15.2	16.3	22.6	1.1
153N100W33NWNW	13.5	13.1	11.8	1.6	-1.3
153N100W33SENE	39.9	37.0	39.9	0.0	2.8
153N100W33SENW	40.0	26.8	32.3	7.7	5.5
153N100W33SWNE	39.7	31.2	37.2	2.5	5.9
153N100W33SWNW	40.0	25.2	29.8	10.2	4.5
153N100W34NENW	7.3	5.1	5.1	2.2	0.0
153N100W34NESE	21.9	0.2	4.9	17.1	4.7
153N100W34NWNE	34.5	0.8	1.5	33.0	0.7
153N100W34NWNW	36.1	26.7	32.3	3.8	5.6
153N100W34NWSE	17.4	0.0	3.1	14.3	3.1
153N100W34NWSW	40.1	0.0	0.3	39.8	0.3
153N100W34SENE	40.1	0.0	0.0	40.1	0.0
153N100W34SENW	30.5	11.1	18.5	12.0	7.4
153N100W34SESE	7.9	5.7	6.0	1.9	0.3
153N100W34SWNE	11.2	0.3	2.8	8.4	2.5
153N100W34SWNW	40.2	33.0	37.8	2.5	4.8
153N100W34SWSE	38.8	0.6	3.3	35.4	2.7
153N100W35NWSW	39.7	0.1	0.7	39.0	0.6
153N100W35SESW	39.1	2.0	1.8	37.4	-0.2
153N100W35SWSW	17.3	5.4	5.9	11.4	0.5
153N101W01NENE	0.4	0.0	0.2	0.2	0.2
153N101W01NESE	43.3	0.0	3.1	40.2	3.1
153N101W01NWNE	33.7	5.7	2.4	31.3	-3.3
153N101W01NWNW	35.9	0.0	2.2	33.7	2.2
153N101W01SENE	25.8	0.0	13.9	12.0	13.9
153N101W02NENE	35.3	20.5	27.6	7.8	7.0
153N101W02NENW	35.1	35.1	35.1	0.0	0.0
153N101W02NWNE	35.3	35.0	35.3	0.0	0.3
153N101W02NWNW	18.8	14.3	18.8	0.0	4.4
153N101W02NWSW	40.0	0.0	0.1	40.0	0.1
153N101W02SENE	40.1	0.0	0.2	39.9	0.2
153N101W02SENW	40.0	7.8	4.1	35.8	-3.6
153N101W02SWNE	40.0	3.0	6.0	34.1	3.0
153N101W02SWNW	39.9	0.5	11.0	28.9	10.4
153N101W03NENE	305.6	24.6	24.1	281.5	-0.5
153N101W03NESE	40.1	0.0	0.4	39.6	0.4
153N101W03SENE	30.5	0.0	3.8	26.6	3.8

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N101W05NWNW	27.0	0.3	0.0	27.0	-0.3
153N101W06NENE	5.7	1.4	0.0	5.7	-1.4
153N101W06NESW	3.8	0.0	0.0	3.8	0.0
153N101W06NWNE	18.8	0.2	0.8	18.0	0.6
153N101W06NWSW	33.3	1.3	3.9	29.4	2.6
153N101W06SENE	37.1	0.7	0.0	37.1	-0.7
153N101W06SENW	30.3	0.0	0.7	29.5	0.7
153N101W06SWNE	5.3	0.0	0.3	5.0	0.3
153N101W06SWSW	3.8	0.9	2.9	0.9	2.1
154N094W27NESW	30.4	0.0	1.0	29.4	1.0
154N094W27NWSE	39.9	0.0	0.1	39.8	0.1
154N094W27NWSW	13.9	0.0	0.7	13.2	0.7
154N094W27SESE	31.3	0.0	0.8	30.5	0.8
154N094W27SWSE	9.0	0.0	1.2	7.8	1.2
154N094W28SWNW	515.8	0.2	130.7	385.1	130.4
154N094W28SWSE	3.8	1.4	1.3	2.5	-0.1
154N094W30NWSE	34.3	0.0	0.1	34.3	0.1
154N094W31NESE	39.9	0.0	3.9	36.0	3.9
154N094W31NWNW	3.7	0.0	3.1	0.7	3.1
154N094W31SENE	7.4	0.0	6.7	0.7	6.7
154N094W31SENW	30.7	0.0	7.5	23.2	7.5
154N094W31SWNE	23.0	0.0	10.4	12.6	10.4
154N094W31SWNW	37.9	0.0	3.9	34.0	3.9
154N094W32NESE	39.8	0.6	1.9	37.9	1.3
154N094W32NESW	25.4	1.2	3.5	21.9	2.3
154N094W32NWSE	31.1	2.5	3.8	27.3	1.3
154N094W32NWSW	31.1	0.0	6.5	24.6	6.5
154N094W32SENE	6.3	1.8	5.4	0.9	3.6
154N094W33NENE	206.2	5.6	102.5	103.7	96.9
154N094W33NENW	16.6	2.0	2.4	14.2	0.4
154N094W33NESE	16.8	0.0	12.4	4.4	12.4
154N094W33NWNE	36.3	1.1	0.6	35.7	-0.5
154N094W33NWNW	0.4	0.4	0.4	0.0	0.1
154N094W33NWSE	40.1	0.0	1.6	38.5	1.6
154N094W33SENE	16.4	0.0	1.3	15.0	1.3
154N094W33SENW	40.0	0.0	0.7	39.3	0.7
154N094W33SWNW	29.5	1.7	13.4	16.1	11.7
154N094W33SWSE	33.8	0.0	8.3	25.5	8.3
154N094W34NENE	0.9	0.0	0.3	0.6	0.3

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N094W34SENE	622.6	16.9	622.6	0.0	605.7
154N094W35NESW	29.4	0.0	3.9	25.5	3.9
154N094W35NWNW	26.8	0.0	1.3	25.5	1.3
154N094W35SENW	39.5	0.0	1.4	38.0	1.4
154N094W35SESW	22.2	0.0	0.2	22.0	0.2
154N094W35SWNW	4.5	0.0	1.1	3.4	1.1
154N095W25NESE	11.0	0.2	0.2	10.8	0.0
154N095W25SESW	33.3	4.3	31.0	2.3	26.7
154N095W25SWNW	64.5	1.4	11.5	53.1	10.1
154N095W25SWSE	0.5	0.1	0.5	0.0	0.4
154N095W25SWSW	62.2	1.6	50.0	12.2	48.4
154N095W26NENE	39.9	0.0	0.0	39.9	0.0
154N095W26NESE	54.5	1.4	54.0	0.6	52.6
154N095W26NESW	151.3	7.6	108.3	43.0	100.8
154N095W26NWNE	28.7	0.0	0.0	28.7	0.0
154N095W26NWSE	19.7	0.0	5.9	13.8	5.9
154N095W26SENE	5.7	0.0	0.0	5.7	0.0
154N095W26SESE	34.4	0.0	1.6	32.8	1.6
154N095W27NESW	4.3	0.1	1.7	2.6	1.6
154N095W27SENE	52.8	5.3	22.6	30.2	17.2
154N095W27SESW	38.2	0.0	2.6	35.6	2.6
154N095W27SWNW	63.6	0.0	4.8	58.8	4.8
154N095W27SWSW	13.6	0.0	7.6	5.9	7.6
154N095W28NESW	146.0	14.7	15.9	130.1	1.2
154N095W28SENE	102.6	0.9	18.9	83.6	18.0
154N095W28SWNE	124.3	5.5	22.9	101.4	17.4
154N095W29NESE	39.2	0.7	0.2	38.9	-0.5
154N095W29NWNW	50.1	1.0	0.0	50.1	-1.0
154N095W29SENW	32.6	0.4	0.0	32.6	-0.4
154N095W29SESE	23.7	4.2	4.7	19.0	0.5
154N095W29SWNE	55.2	1.9	0.0	55.2	-1.9
154N095W30NENE	34.0	1.4	0.0	34.0	-1.4
154N095W30NENW	13.3	4.0	0.0	13.3	-4.0
154N095W30NWNE	18.5	2.2	0.0	18.5	-2.2
154N095W30NWNW	9.2	5.8	3.0	6.3	-2.8
154N095W30SENE	0.6	0.4	0.0	0.6	-0.4
154N095W31NENE	584.4	0.0	10.3	574.1	10.3
154N095W32NESE	73.4	0.0	3.0	70.4	3.0
154N095W32NESW	40.4	0.0	0.4	39.9	0.4

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	Total Area (acres)	Area Below USACE Survey (acres)	Project Area Below OHWM (acres)	Project Area Above OHWM (acres)	Net Difference (acres)
154N095W32SENW	45.4	0.0	6.0	39.4	6.0
154N095W32SWNE	37.5	0.0	2.6	34.8	2.6
154N095W33NENE	22.9	0.0	5.1	17.8	5.1
154N095W33NESW	72.2	0.0	2.7	69.5	2.7
154N095W33NWNE	6.1	0.0	3.4	2.7	3.4
154N095W33SWNE	39.7	0.0	1.1	38.6	1.1
154N095W33SWNW	31.6	0.0	2.3	29.3	2.3
154N095W34NWNW	39.7	0.0	4.5	35.2	4.5
154N095W36NENE	15.1	0.0	4.5	10.6	4.5
154N095W36NENW	40.0	0.0	0.5	39.5	0.5
154N095W36NWNE	33.3	1.2	6.8	26.6	5.6
154N096W19NESW	40.0	0.0	0.9	39.1	0.9
154N096W19NWSW	40.0	13.9	24.9	15.1	10.9
154N096W19SESW	40.0	2.0	14.9	25.1	12.9
154N096W19SWSW	40.0	38.5	40.0	0.0	1.4
154N096W21SESW	39.9	6.1	6.0	33.9	-0.1
154N096W21SWSE	40.0	2.6	2.6	37.4	0.0
154N096W21SWSW	40.0	0.0	0.0	40.0	0.0
154N096W24SESW	39.8	0.4	1.0	38.9	0.5
154N096W24SWSE	39.9	0.9	1.3	38.6	0.4
154N096W25NENE	32.3	27.8	28.4	3.9	0.5
154N096W25NENW	15.6	13.7	14.8	0.8	1.1
154N096W25NWNE	21.4	20.8	21.2	0.3	0.4
154N096W25NWNW	14.8	11.1	11.3	3.5	0.2
154N096W26NENW	13.7	0.0	1.6	12.1	1.6
154N096W26NWNE	36.3	0.1	24.3	12.0	24.2
154N096W26NWNW	14.9	0.0	2.3	12.6	2.3
154N096W26NWSW	39.0	0.6	1.0	38.0	0.3
154N096W26SENW	18.2	0.4	0.4	17.8	0.0
154N096W26SWNW	6.4	1.1	1.6	4.9	0.5
154N096W27NENE	28.9	0.0	8.7	20.2	8.7
154N096W27NENW	39.7	0.2	0.0	39.7	-0.2
154N096W27NESE	15.5	2.4	5.1	10.4	2.7
154N096W27NWNE	32.4	0.1	0.0	32.4	-0.1
154N096W27SENW	4.4	0.2	0.0	4.4	-0.2
154N096W27SESE	39.8	0.3	0.7	39.1	0.4
154N096W27SESW	21.9	1.9	4.5	17.4	2.6
154N096W27SWSE	26.6	2.1	4.2	22.4	2.1
154N096W27SWSW	19.8	1.9	3.1	16.7	1.2

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N096W28NENE	33.8	0.0	0.9	32.9	0.9
154N096W28NESW	9.8	0.0	8.2	1.6	8.1
154N096W28NWNE	8.7	0.0	1.1	7.6	1.1
154N096W28NWSW	4.3	0.0	1.1	3.2	1.1
154N096W28SESE	20.0	2.3	3.4	16.6	1.2
154N096W28SESW	38.0	0.0	2.9	35.1	2.9
154N096W28SWSE	28.8	0.1	3.8	25.1	3.7
154N096W28SWSW	39.9	0.0	0.0	39.9	0.0
154N096W29NENE	31.2	0.1	0.1	31.0	0.0
154N096W29NESE	29.5	0.0	7.7	21.8	7.7
154N096W29NESW	23.4	0.2	3.3	20.1	3.1
154N096W29NWNE	44.4	0.1	0.7	43.7	0.6
154N096W29NWSW	24.2	0.0	5.0	19.2	5.0
154N096W29SENW	14.6	0.4	2.9	11.7	2.5
154N096W29SWNW	18.9	0.2	1.5	17.4	1.3
154N096W30NENW	33.9	0.2	12.6	21.4	12.4
154N096W30NESE	23.7	0.2	6.7	17.1	6.5
154N096W30NWSE	6.4	0.0	1.9	4.5	1.9
154N096W30SENE	26.0	0.1	1.5	24.5	1.4
154N096W30SENW	31.6	0.4	17.1	14.5	16.7
154N096W30SESW	12.6	0.7	2.9	9.7	2.1
154N096W30SWNE	92.2	4.2	63.9	28.3	59.6
154N096W30SWSE	38.8	0.0	2.0	36.8	2.0
154N096W30SWSW	11.2	0.2	11.2	0.0	11.0
154N096W31NENW	39.9	0.0	0.1	39.8	0.1
154N096W31NWNW	40.1	0.0	11.0	29.1	11.0
154N097W22SWNE	494.9	0.0	13.7	481.2	13.7
154N097W23NENE	41.8	0.1	1.8	40.0	1.7
154N097W23NENW	182.6	0.0	20.7	161.9	20.7
154N097W23NWNE	51.0	0.0	5.2	45.7	5.2
154N097W23SENE	34.8	0.0	28.6	6.1	28.6
154N097W23SESW	22.9	0.4	2.4	20.6	1.9
154N097W23SWNE	33.2	0.0	20.6	12.6	20.6
154N097W23SWSE	68.9	0.1	8.3	60.6	8.2
154N097W23SWSW	4.3	0.5	0.8	3.5	0.3
154N097W24NESE	2.7	0.6	2.2	0.5	1.6
154N097W24SENE	38.8	0.1	2.9	35.9	2.8
154N097W24SENW	27.1	0.0	8.1	18.9	8.1
154N097W24SWNE	32.3	0.0	5.6	26.7	5.6

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N097W24SWNW	25.7	0.0	19.0	6.6	19.0
154N097W25NESW	68.2	0.2	68.2	0.0	68.1
154N097W25NWNW	93.4	1.2	77.0	16.4	75.7
154N097W25NWSE	87.7	0.9	87.7	0.0	86.8
154N097W25NWSW	40.1	0.0	39.5	0.6	39.5
154N097W25SENW	12.3	0.0	12.3	0.0	12.3
154N097W25SESE	61.7	0.4	61.7	0.0	61.2
154N097W25SESW	39.8	0.0	39.8	0.0	39.8
154N097W25SWNW	163.3	0.6	146.1	17.1	145.6
154N097W25SWSE	39.8	0.0	39.8	0.0	39.8
154N097W25SWSW	39.9	0.0	31.7	8.2	31.7
154N097W26NENE	63.5	0.4	17.5	46.0	17.0
154N097W26NESE	39.9	0.0	2.7	37.2	2.7
154N097W26NWNW	37.5	0.4	0.6	36.9	0.2
154N097W26SESE	39.9	0.0	0.2	39.8	0.2
154N097W27NENE	21.1	0.0	0.5	20.6	0.5
154N097W27NESW	39.9	0.0	3.5	36.4	3.5
154N097W27NWNE	3.5	0.0	1.3	2.2	1.3
154N097W27NWSW	39.9	0.0	24.6	15.3	24.6
154N097W27SENW	19.8	0.0	13.3	6.5	13.3
154N097W27SWNE	36.8	0.0	2.6	34.2	2.6
154N097W27SWNW	11.7	0.1	11.7	0.0	11.6
154N097W28NENW	20.0	0.0	1.1	18.9	1.1
154N097W28NESE	40.0	0.0	39.6	0.4	39.6
154N097W28NESW	60.3	0.0	41.0	19.3	40.9
154N097W28NWNE	9.6	0.0	0.1	9.5	0.1
154N097W28NWNW	22.6	0.0	2.6	20.0	2.6
154N097W28NWSE	49.3	0.0	40.4	8.9	40.3
154N097W28NWSW	0.0	0.0	0.0	0.0	0.0
154N097W28SENE	15.9	0.5	15.9	0.0	15.4
154N097W28SESE	39.9	0.0	1.0	38.9	1.0
154N097W28SWNE	12.1	0.3	12.1	0.0	11.9
154N097W28SWSW	37.5	0.0	0.0	37.5	0.0
154N097W29NENE	40.0	12.0	14.8	25.2	2.8
154N097W29NENW	40.0	0.3	0.4	39.6	0.1
154N097W29NWNE	40.0	6.5	8.9	31.1	2.4
154N097W29NWNW	40.0	0.0	0.4	39.6	0.4
154N097W29NWSW	1.1	0.0	1.1	0.0	1.1
154N097W29SENE	27.4	27.4	27.4	0.0	0.0

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N097W29SENW	35.8	32.9	31.9	3.9	-1.0
154N097W29SWNE	30.9	30.9	30.9	0.0	0.0
154N097W29SWNW	39.7	22.8	34.7	5.0	11.9
154N097W30NENE	39.9	5.2	6.7	33.2	1.5
154N097W30NESE	5.6	0.0	5.6	0.0	5.6
154N097W30NESW	18.7	11.7	18.7	0.0	7.0
154N097W30NWNE	40.0	1.7	1.5	38.4	-0.2
154N097W30NWSE	10.6	0.0	10.6	0.0	10.6
154N097W30NWSW	30.5	20.2	19.2	11.3	-1.0
154N097W30SENE	39.9	24.2	39.9	0.0	15.8
154N097W30SENW	39.9	23.5	19.9	20.0	-3.6
154N097W30SESE	17.4	0.0	0.1	17.3	0.1
154N097W30SESW	0.2	0.2	0.2	0.0	0.0
154N097W30SWNE	40.0	32.7	37.7	2.2	5.0
154N097W30SWNW	37.8	1.0	0.4	37.3	-0.6
154N097W30SWSE	8.3	1.1	3.9	4.3	2.8
154N097W31NENW	34.4	7.6	12.7	21.7	5.1
154N097W31NWNE	40.0	0.1	0.8	39.2	0.7
154N097W31NWNW	9.4	4.7	7.6	1.8	2.9
154N097W31SWNW	38.0	2.0	4.6	33.4	2.6
154N097W36NENE	39.9	0.0	28.0	11.9	28.0
154N097W36NENW	39.9	0.0	10.5	29.4	10.5
154N097W36NWNE	39.9	0.0	35.0	4.9	35.0
154N097W36NWNW	39.9	0.0	0.6	39.3	0.6
154N098W25NESE	40.0	3.9	2.5	37.4	-1.4
154N098W25SESE	12.9	8.1	8.3	4.6	0.3
154N098W25SWSE	37.4	0.8	1.1	36.4	0.3
154N098W35NESE	39.8	0.2	0.3	39.5	0.1
154N098W35SESE	27.3	3.5	4.2	23.2	0.7
154N098W36NENW	36.6	6.1	6.7	29.9	0.7
154N098W36NESE	58.2	6.4	11.3	47.0	4.9
154N098W36NESW	0.1	0.1	0.1	0.0	0.0
154N098W36NWNE	7.2	1.6	4.3	2.9	2.7
154N098W36NWSE	24.8	8.4	13.0	11.8	4.6
154N098W36NWSW	12.9	4.7	4.7	8.2	0.0
154N098W36SENW	6.6	4.2	4.2	2.5	0.0
154N098W36SESW	14.5	0.8	5.8	8.8	5.0
154N098W36SWNW	36.5	2.8	2.8	33.8	0.0
154N098W36SWSE	39.9	0.1	1.3	38.6	1.2

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N100W30NESE	40.1	3.5	5.6	34.4	2.2
154N100W30NESW	40.0	40.0	40.0	0.0	0.0
154N100W30NWNW	37.8	0.0	0.1	37.7	0.1
154N100W30NWSE	40.0	34.6	38.2	1.9	3.5
154N100W30NWSW	38.0	25.7	38.0	0.0	12.4
154N100W30SENW	40.1	25.6	31.6	8.4	6.0
154N100W30SESE	40.0	16.7	18.0	22.0	1.3
154N100W30SESW	40.0	38.6	40.0	0.0	1.3
154N100W30SWNE	40.1	5.4	9.8	30.3	4.4
154N100W30SWNW	38.0	27.4	36.8	1.1	9.5
154N100W30SWSE	40.0	40.0	40.0	0.0	0.0
154N100W30SWSW	38.2	1.1	38.2	0.0	37.1
154N100W31NENE	29.5	1.0	0.0	29.5	-1.0
154N100W31NESW	34.1	0.2	18.2	15.9	18.0
154N100W31NWNW	45.8	3.8	45.8	0.0	42.0
154N100W31NWSW	11.2	0.0	11.2	0.0	11.2
154N100W31SENE	40.0	0.0	0.0	40.0	0.0
154N100W31SESW	52.4	0.0	42.6	9.7	42.6
154N100W31SWNE	18.1	0.7	0.0	18.1	-0.7
154N100W31SWSW	30.7	0.0	30.7	0.0	30.7
154N101W25NENE	39.9	0.0	0.4	39.5	0.4
154N101W25NENW	8.0	0.0	0.2	7.8	0.2
154N101W25NWNE	31.7	0.0	3.6	28.1	3.6
154N101W25SENE	15.6	1.0	11.6	4.0	10.6
154N101W25SWNE	0.1	0.0	0.1	0.0	0.1
154N101W31NESE	40.1	0.0	0.7	39.4	0.7
154N101W31SESE	22.3	0.7	9.2	13.1	8.6
154N101W31SWSE	40.0	0.0	0.3	39.7	0.3
154N101W32NENE	40.1	0.1	0.0	40.1	-0.1
154N101W32NESW	10.4	2.3	8.6	1.8	6.3
154N101W32NWSE	3.0	1.1	3.0	0.0	1.9
154N101W32NWSW	29.9	4.6	10.1	19.8	5.5
154N101W32SENE	19.7	3.9	5.5	14.2	1.6
154N101W32SENW	40.0	0.0	0.8	39.2	0.8
154N101W32SWNE	39.3	1.9	5.2	34.1	3.4
154N101W32SWSW	0.9	0.9	0.9	0.0	0.0
154N101W33NENE	4.0	0.0	1.7	2.3	1.7
154N101W33NENW	13.1	0.0	6.3	6.8	6.3
154N101W33NWNE	7.4	0.0	1.3	6.2	1.3

Table 1a. OHWM Determination Results (Downstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
154N101W33NWNW	24.4	0.2	3.3	21.1	3.1
154N101W33SESW	492.7	0.3	242.1	250.6	241.8
154N101W34NENW	23.8	0.0	6.9	16.8	6.9
154N101W34NESE	19.5	0.4	18.3	1.1	17.9
154N101W34NWNE	39.9	0.0	0.4	39.5	0.4
154N101W34NWNW	6.8	0.0	4.0	2.8	4.0
154N101W34NWSE	1.7	0.0	1.7	0.0	1.7
154N101W34SENE	40.0	0.0	4.1	35.9	4.1
154N101W34SWNE	25.4	0.0	9.6	15.8	9.6
154N101W35NENE	1267.5	59.2	571.0	696.5	511.8
154N101W36NENE	100.9	23.7	76.7	24.3	53.0
154N101W36NESE	2.5	2.5	1.0	1.5	-1.5
154N101W36NWSE	38.4	3.7	1.2	37.2	-2.5
154N101W36SENE	5.1	3.2	0.1	5.0	-3.1
154N101W36SWNE	30.3	0.1	0.0	30.3	-0.1
154N101W36SWSE	27.3	7.9	3.5	23.9	-4.4
River Corridor East	19903.9	13349.9	16123.1	3780.8	2773.1
Totals	**49695.5**	**16686.8**	**26193.8**	**23501.7**	**9507.0**

Table 1b. OHWM Determination Results (Upstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N101W07NWNW	326.2	56.6	208.7	117.5	152.1
153N101W17SWSW	37.1	3.5	6.0	31.1	2.5
153N101W18NESE	55.2	9.8	9.7	45.5	0.0
153N101W18NWSE	27.4	9.2	10.4	17.0	1.2
153N101W18SWNW	16.1	0.0	6.5	9.6	N/A
153N101W18SWSE	0.8	0.8	0.7	0.0	0.0
153N101W19NENE	430.2	0.0	234.2	196.1	N/A
153N101W19SESE	4.2	0.3	1.9	2.3	1.6
153N101W20NWNW	20.8	2.5	7.4	13.4	4.9
153N101W20NWSW	23.7	1.6	6.3	17.5	4.7
153N101W20SWNW	19.2	2.7	7.0	12.2	4.3
153N101W20SWSW	36.9	0.1	3.4	33.5	3.2
153N101W30NENE	34.6	0.0	1.1	33.5	N/A
153N101W30NWNE	10.0	0.0	2.8	7.2	N/A
153N101W30NWNW	25.8	0.0	6.0	19.7	N/A
153N101W30NWSW	68.6	0.0	34.6	34.0	N/A
153N101W30SENW	23.8	0.0	4.5	19.3	N/A
153N101W30SWNE	39.8	0.0	0.9	38.9	N/A
153N102W01SESE	40.0	4.5	10.8	29.2	N/A
153N102W12NENE	39.9	0.0	35.1	4.8	N/A
153N102W12NESE	40.0	0.0	39.8	0.2	N/A
153N102W12NWNE	40.0	0.0	0.0	39.9	N/A
153N102W12NWSE	40.0	0.0	0.5	39.4	N/A
153N102W12SENE	40.0	0.0	40.0	0.0	N/A
153N102W12SESE	40.0	0.0	31.2	8.8	N/A
153N102W12SWNE	40.0	0.0	2.4	37.6	N/A
153N102W13NENE	40.0	0.0	11.7	28.3	N/A
153N102W13SENE	40.0	0.0	0.0	40.0	N/A
153N102W21NESE	39.9	0.0	39.9	0.0	N/A
153N102W21NESW	29.0	0.0	4.3	24.7	N/A
153N102W21NWSE	39.9	0.0	39.2	0.7	N/A
153N102W21SENE	40.0	0.0	15.3	24.8	N/A
153N102W21SESE	4.4	0.0	4.4	0.0	N/A
153N102W21SWNE	40.0	0.0	10.2	29.8	N/A
153N102W21SWSE	1.2	0.0	1.2	0.0	N/A
153N102W22NESE	39.9	0.0	22.8	17.1	N/A
153N102W22NESW	39.9	0.0	39.9	0.0	N/A
153N102W22NWSE	39.9	0.0	39.6	0.4	N/A
153N102W22NWSW	39.9	0.0	39.9	0.0	N/A

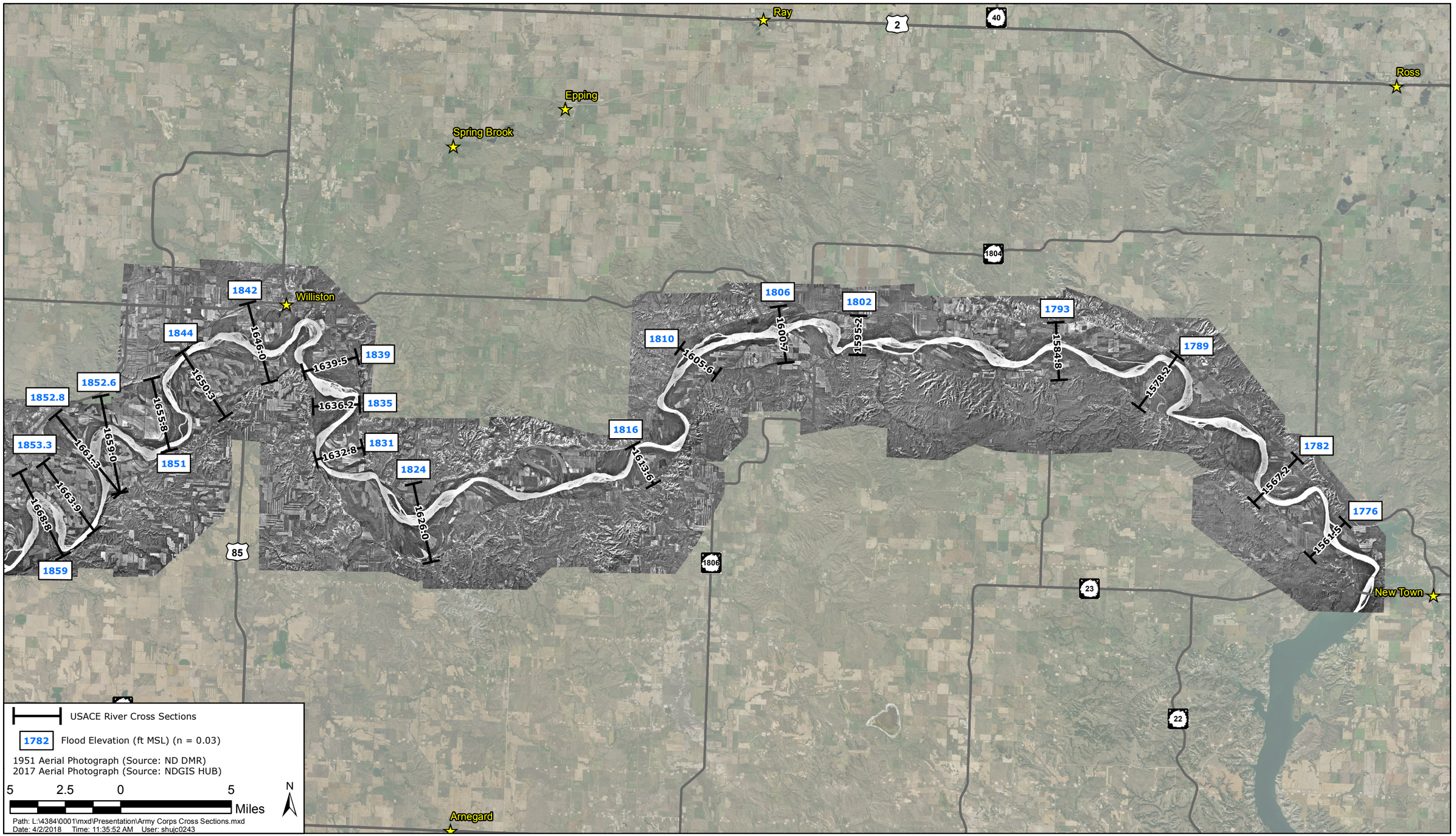
Table 1b. OHWM Determination Results (Upstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N102W22SENW	39.9	0.0	13.4	26.6	N/A
153N102W22SESE	39.9	0.0	39.9	0.0	N/A
153N102W22SESW	23.6	0.0	23.6	0.0	N/A
153N102W22SWNE	39.9	0.0	3.1	36.8	N/A
153N102W22SWNW	40.0	0.0	17.0	23.0	N/A
153N102W22SWSE	36.4	0.0	35.9	0.5	N/A
153N102W22SWSW	13.2	0.0	13.2	0.0	N/A
153N102W23NWSW	39.9	0.0	1.6	38.3	N/A
153N102W23SESW	39.9	0.0	11.5	28.4	N/A
153N102W23SWSW	39.9	0.0	33.3	6.6	N/A
153N102W25NENE	41.4	0.0	20.7	20.7	N/A
153N102W25NENW	20.0	0.0	10.3	9.7	N/A
153N102W25NESE	32.2	0.0	6.7	25.5	N/A
153N102W25NESW	40.3	0.0	40.3	0.0	N/A
153N102W25NWNE	29.2	0.0	17.2	12.0	N/A
153N102W25NWNW	14.0	0.0	1.9	12.1	N/A
153N102W25NWSE	36.8	0.0	34.5	2.3	N/A
153N102W25NWSW	40.2	0.0	40.2	0.0	N/A
153N102W25SENW	1.6	0.0	1.6	0.0	N/A
153N102W25SESW	39.5	0.0	37.4	2.2	N/A
153N102W25SWNW	5.6	0.0	5.6	0.0	N/A
153N102W25SWSE	39.5	0.0	14.6	24.9	N/A
153N102W25SWSW	39.9	0.0	39.4	0.5	N/A
153N102W26NENE	14.0	0.0	0.0	14.0	N/A
153N102W26NENW	14.9	0.0	14.8	0.1	N/A
153N102W26NESE	40.0	0.0	40.0	0.0	N/A
153N102W26NESW	40.0	0.0	1.0	38.9	N/A
153N102W26NWNE	14.0	0.0	2.3	11.7	N/A
153N102W26NWNW	18.2	0.0	18.2	0.0	N/A
153N102W26NWSE	39.9	0.0	24.2	15.7	N/A
153N102W26SENE	3.7	0.0	3.7	0.0	N/A
153N102W26SENW	1.9	0.0	0.9	1.0	N/A
153N102W26SESE	40.0	0.0	18.4	21.6	N/A
153N102W26SWNE	0.7	0.0	0.7	0.0	N/A
153N102W26SWSE	40.1	0.0	0.2	39.9	N/A
153N102W27NENE	13.0	0.0	13.0	0.0	N/A
153N102W27NWNE	1.3	0.0	1.0	0.3	N/A
153N102W28SESE	4.3	0.0	4.3	0.0	N/A
153N102W28SWSE	17.0	0.0	10.0	7.0	N/A

Table 1b. OHWM Determination Results (Upstream of River Mile 1553.5)					
Quarter Quarter Section ID	**Total Area (acres)**	**Area Below USACE Survey (acres)**	**Project Area Below OHWM (acres)**	**Project Area Above OHWM (acres)**	**Net Difference (acres)**
153N102W33NENE	31.8	0.0	31.8	0.0	N/A
153N102W33NWNE	9.5	0.0	3.1	6.4	N/A
153N102W33SENE	5.7	0.0	3.2	2.5	N/A
153N102W34NESW	39.3	0.0	18.0	21.2	N/A
153N102W34NWNW	32.0	0.0	9.9	22.0	N/A
153N102W34NWSW	8.4	0.0	8.4	0.0	N/A
153N102W34SENW	40.1	0.0	3.5	36.6	N/A
153N102W34SESW	25.7	0.0	22.1	3.6	N/A
153N102W34SWNW	35.7	0.0	29.0	6.6	N/A
153N102W34SWSE	40.1	0.0	8.0	32.1	N/A
153N102W36NENW	39.9	0.0	0.6	39.3	N/A
153N102W36NWNW	39.9	0.0	2.1	37.8	N/A
River Corridor West	3486.7	0.0	1748.5	1738.2	1748.5
Totals	**6824.6**	**91.6**	**3484.1**	**3340.5**	

Figures

8. Cross Section Locations and 2-Year Flow Levels

Maps 1 to 18 OHWM Determination Results



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Cross-Section Locations and 2 Year Flow Levels

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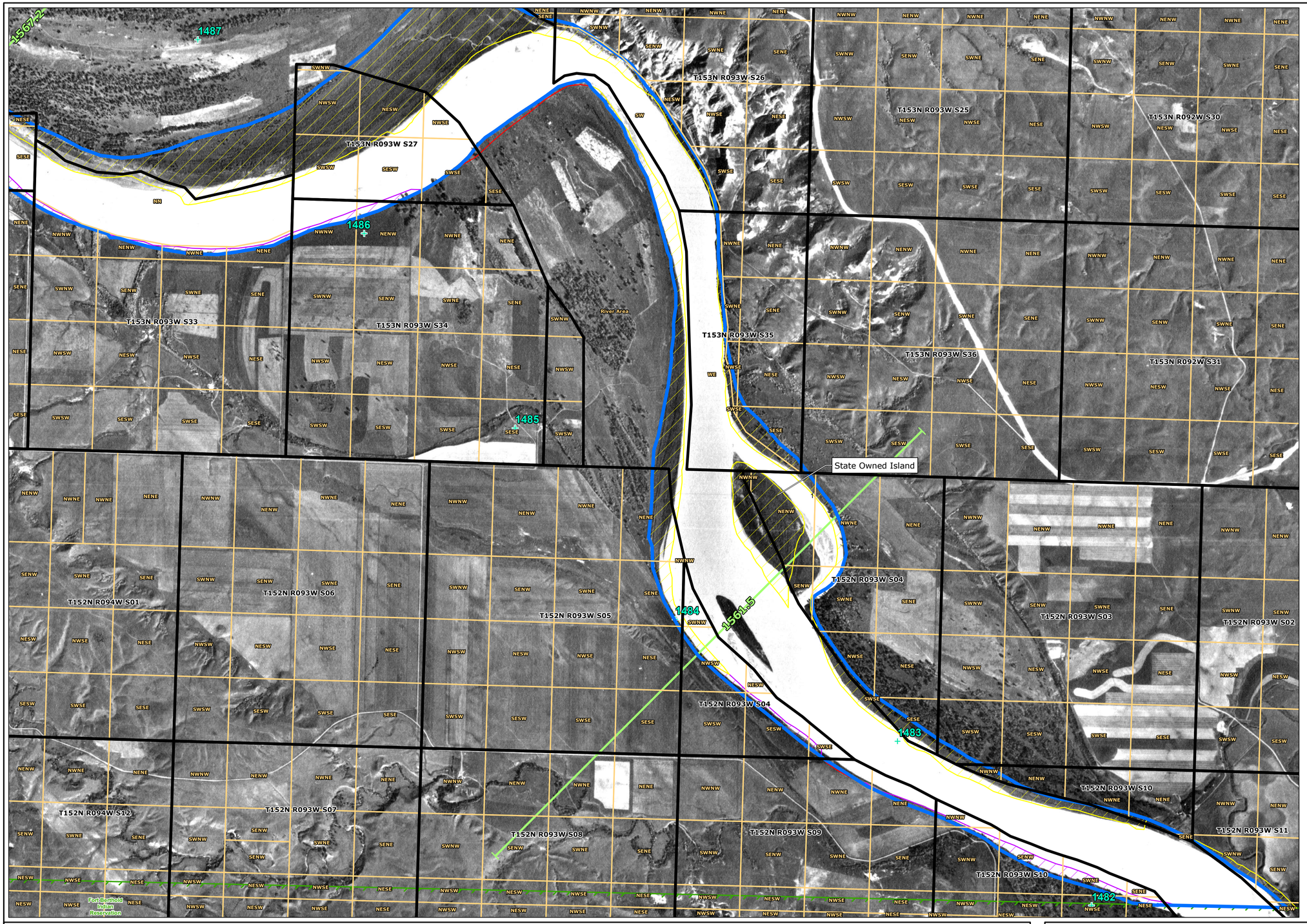
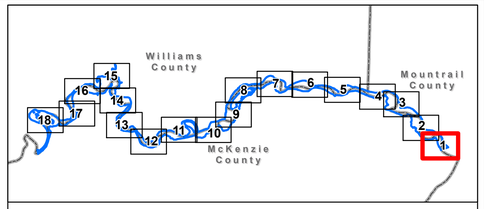
Figure 8





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

Recommend Correction to Account for More Recent Aerial Information

Recommend Correction to Account for Frequently Flooded Accretion

Recommend Correction to Account for Active Meandering (Reliction)

Notes:
1. PLSS Sections and Quarter Sections: BLM National Public Land Survey System, Department of the Interior
2. 1951 Aerial Photographs (Source: ND Department of Mineral Resources)

2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

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OHWM Determination

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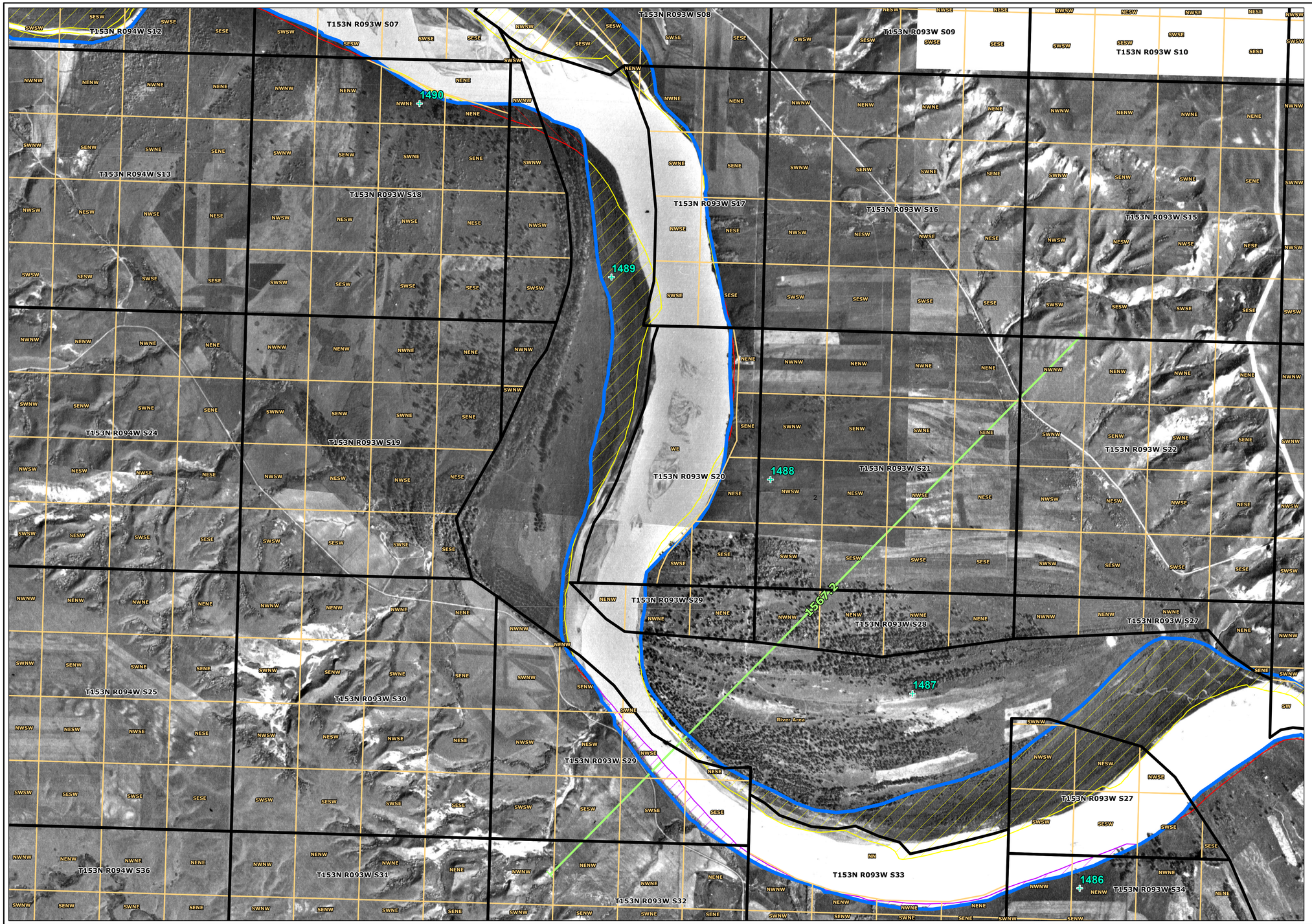
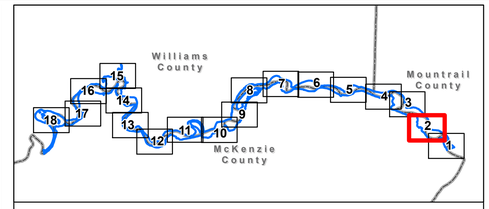
Map 1 of 18





- BLM PLSS Section Boundary
- BLM PLSS Qtr Qtr Section Boundary
- River Miles
- USACE Cross Section
- Ordinary High-Water Mark (OHWM)
- Recommend Correction to Account for More Recent Aerial Information
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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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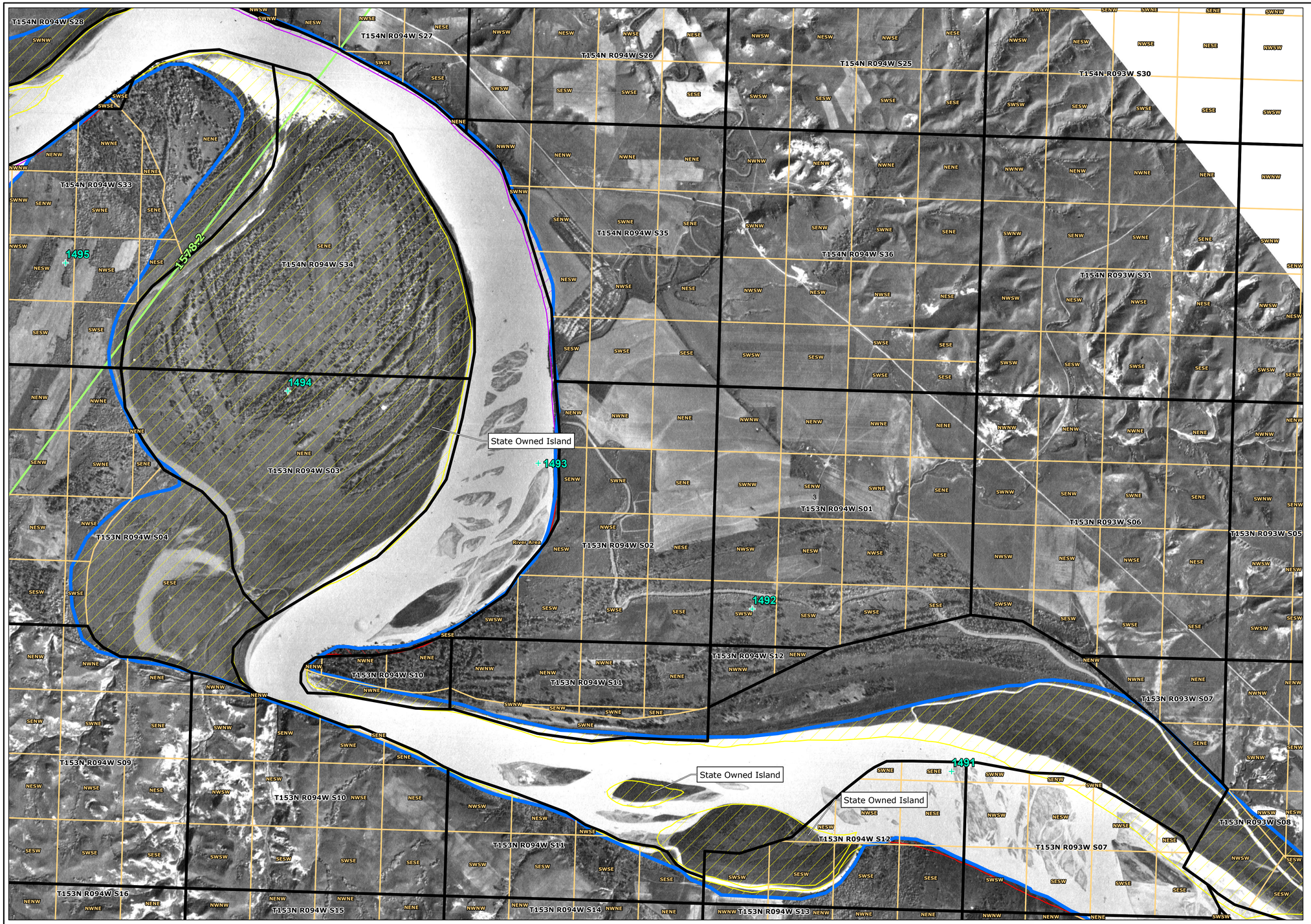
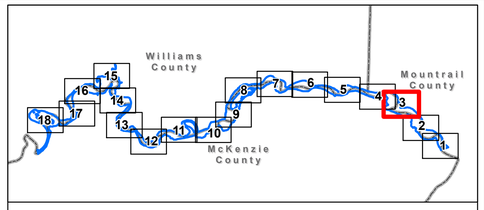
Map 2 of 18





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

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1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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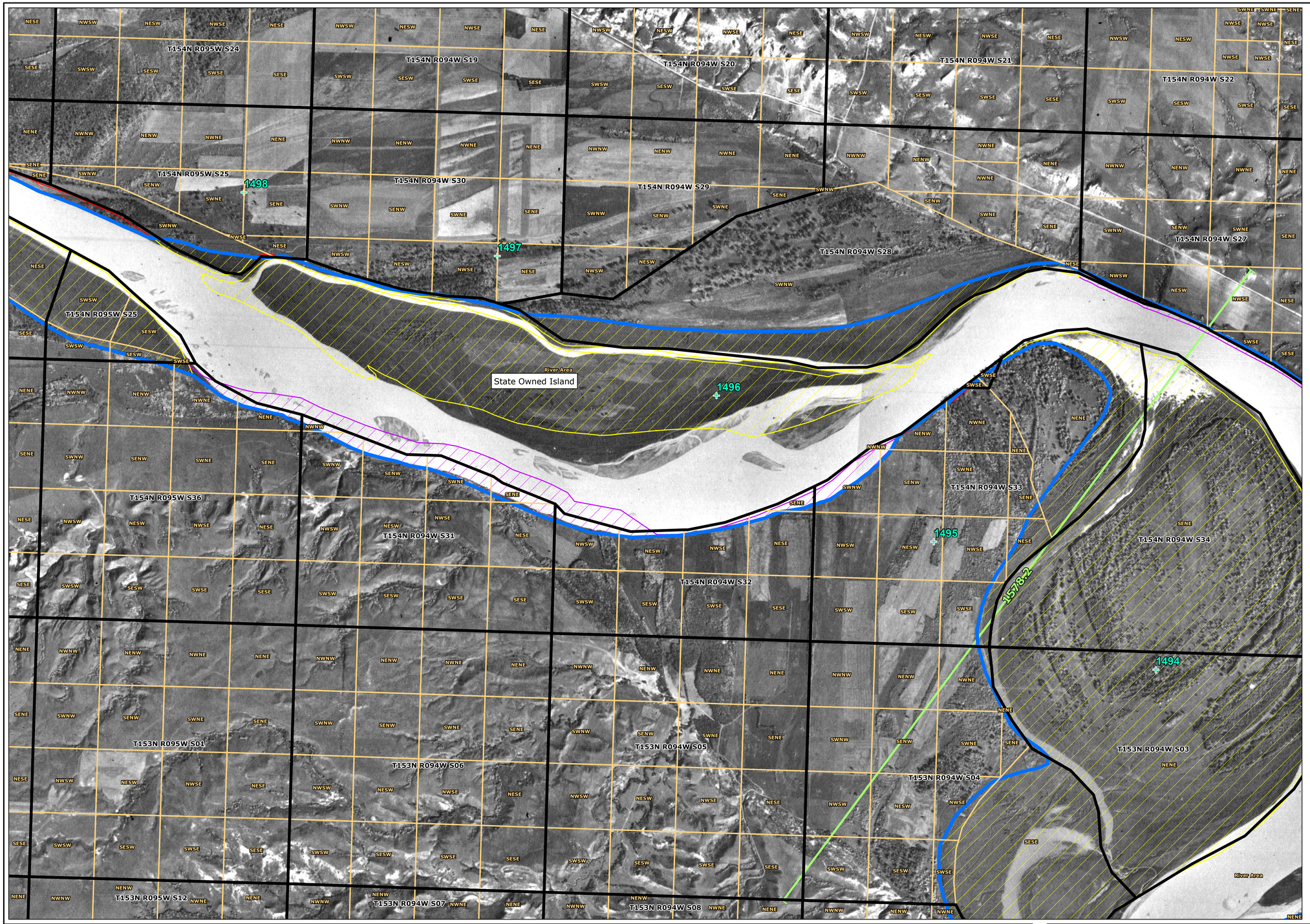
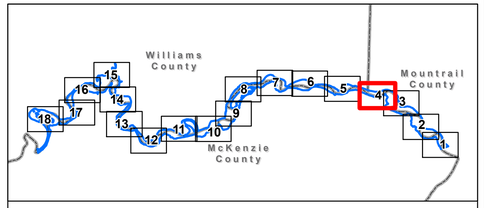
Map 3 of 18





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

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1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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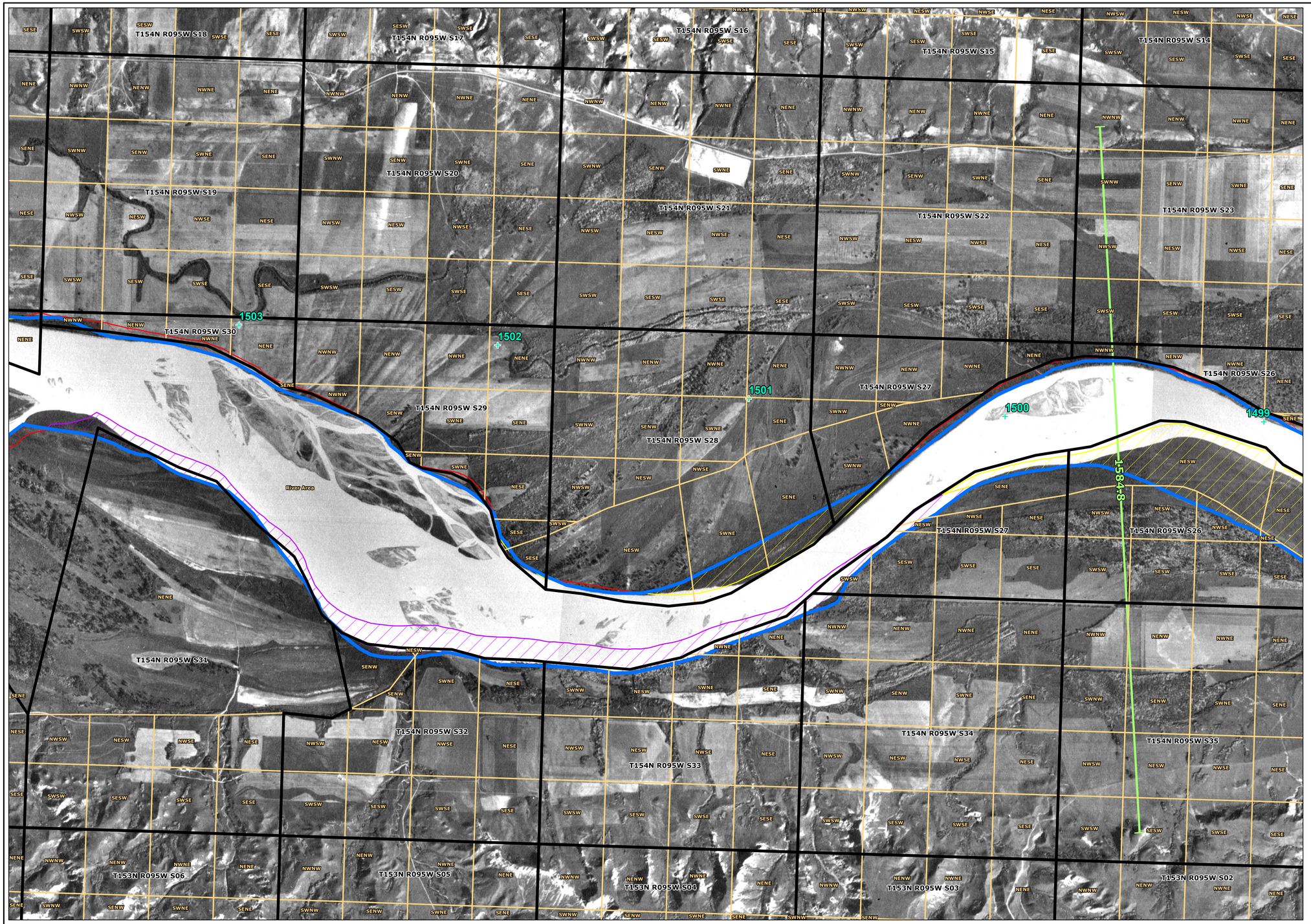
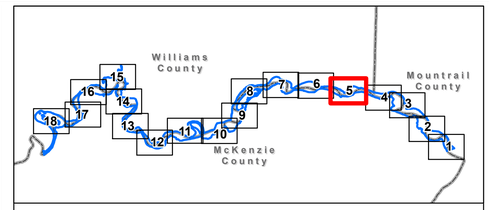
Map 4 of 18





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

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1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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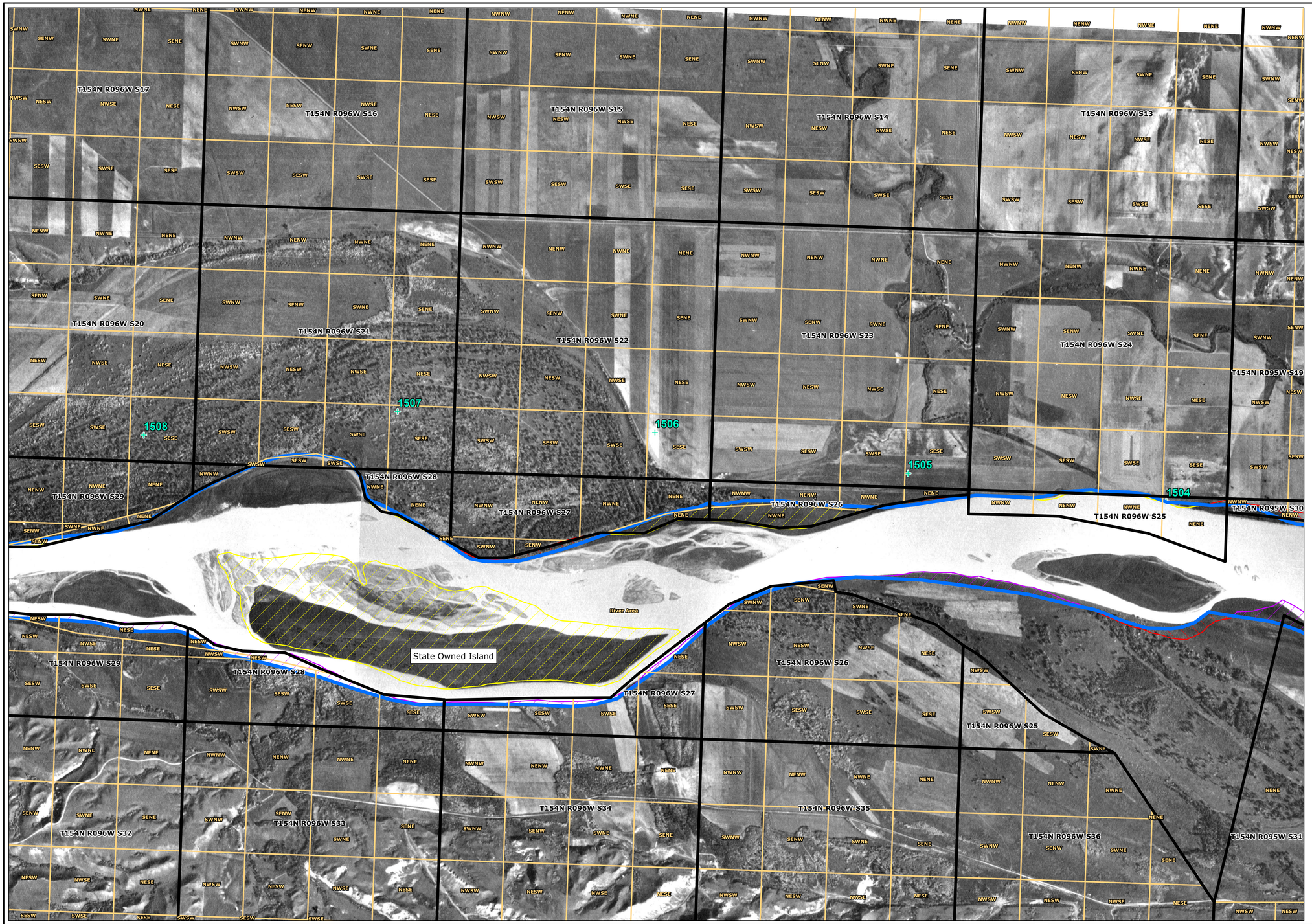
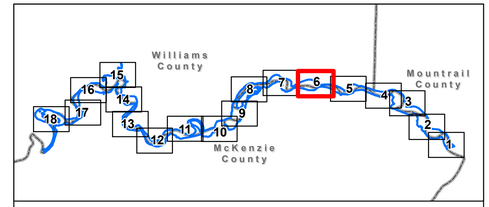
Map 5 of 18





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

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2. 1951 Aerial Photographs (Source: ND Department of Mineral Resources)

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1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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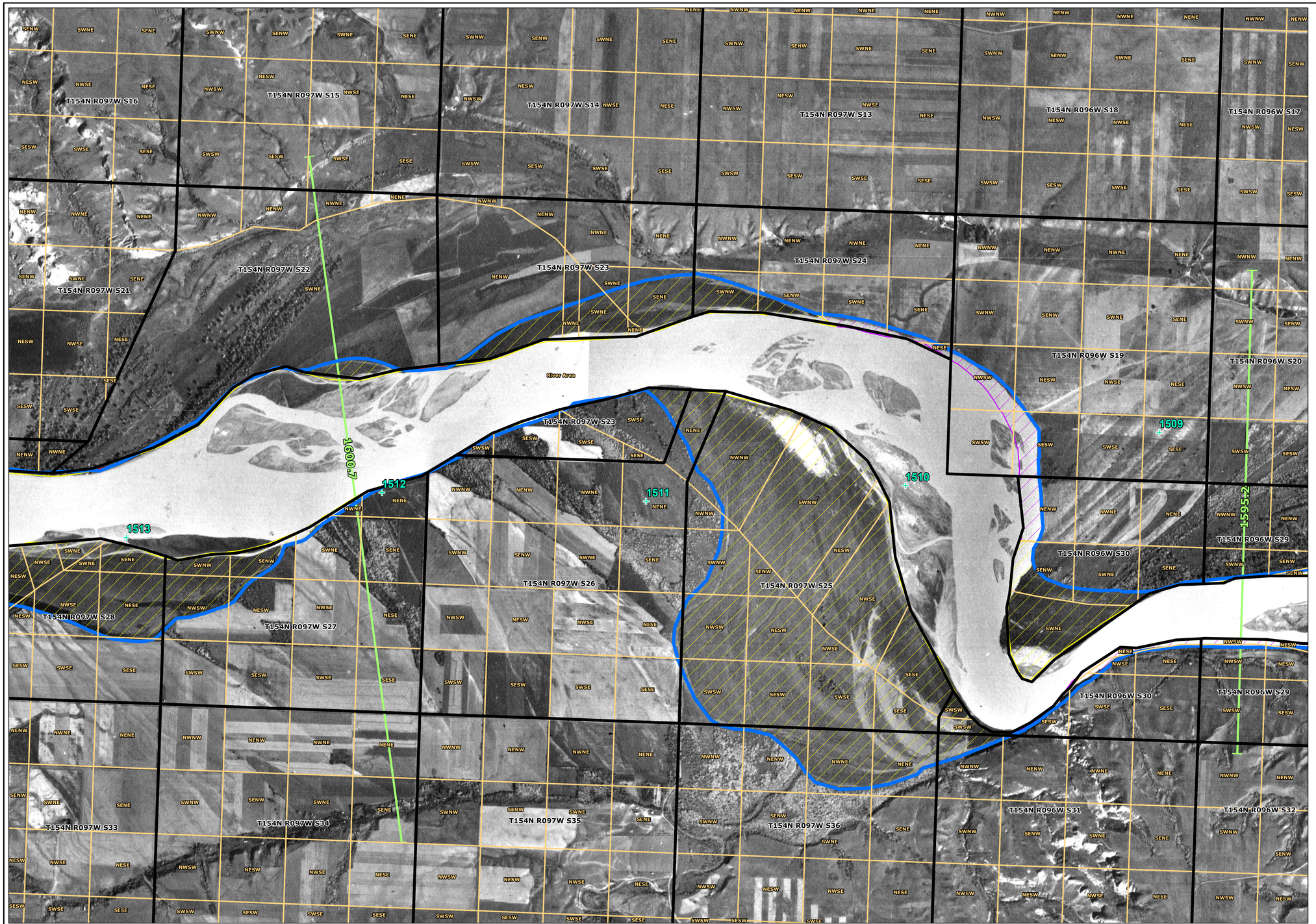
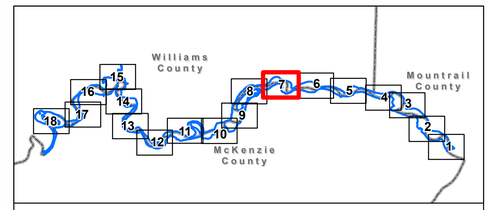
Map 6 of 18





BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

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Recommend Correction to Account for Frequently Flooded Accretion

Recommend Correction to Account for Active Meandering (Reliction)

Notes:
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2. 1951 Aerial Photographs (Source: ND Department of Mineral Resources)

2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

WENCK

Responsive partner. Exceptional outcomes.

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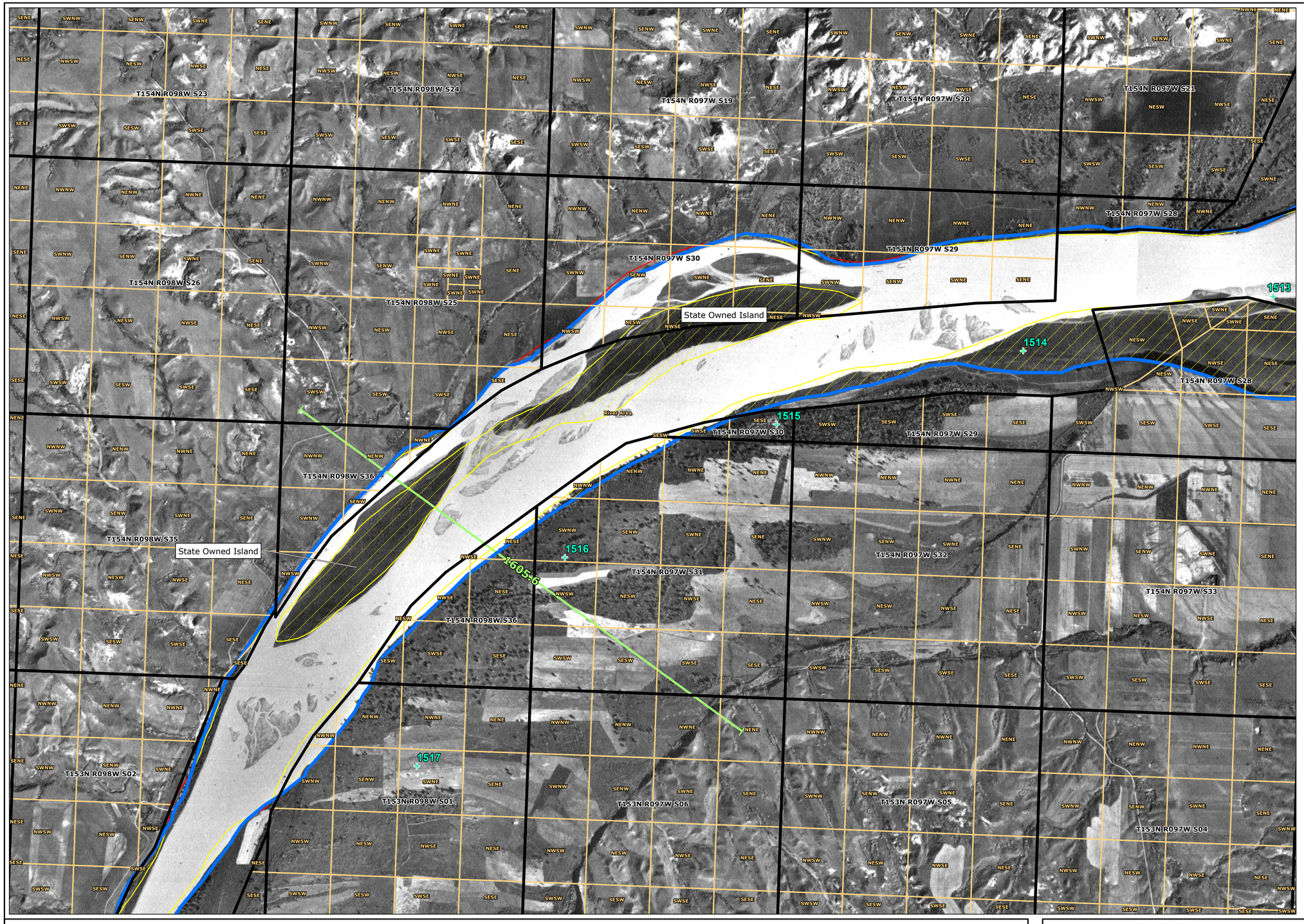

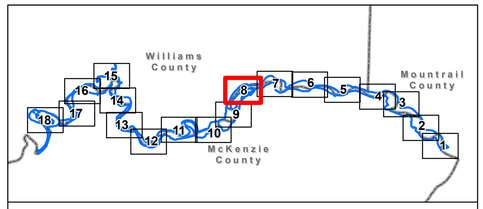

BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

Recommend Correction to Account for More Recent Aerial Information

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2,000 1,000 0 2,000 Feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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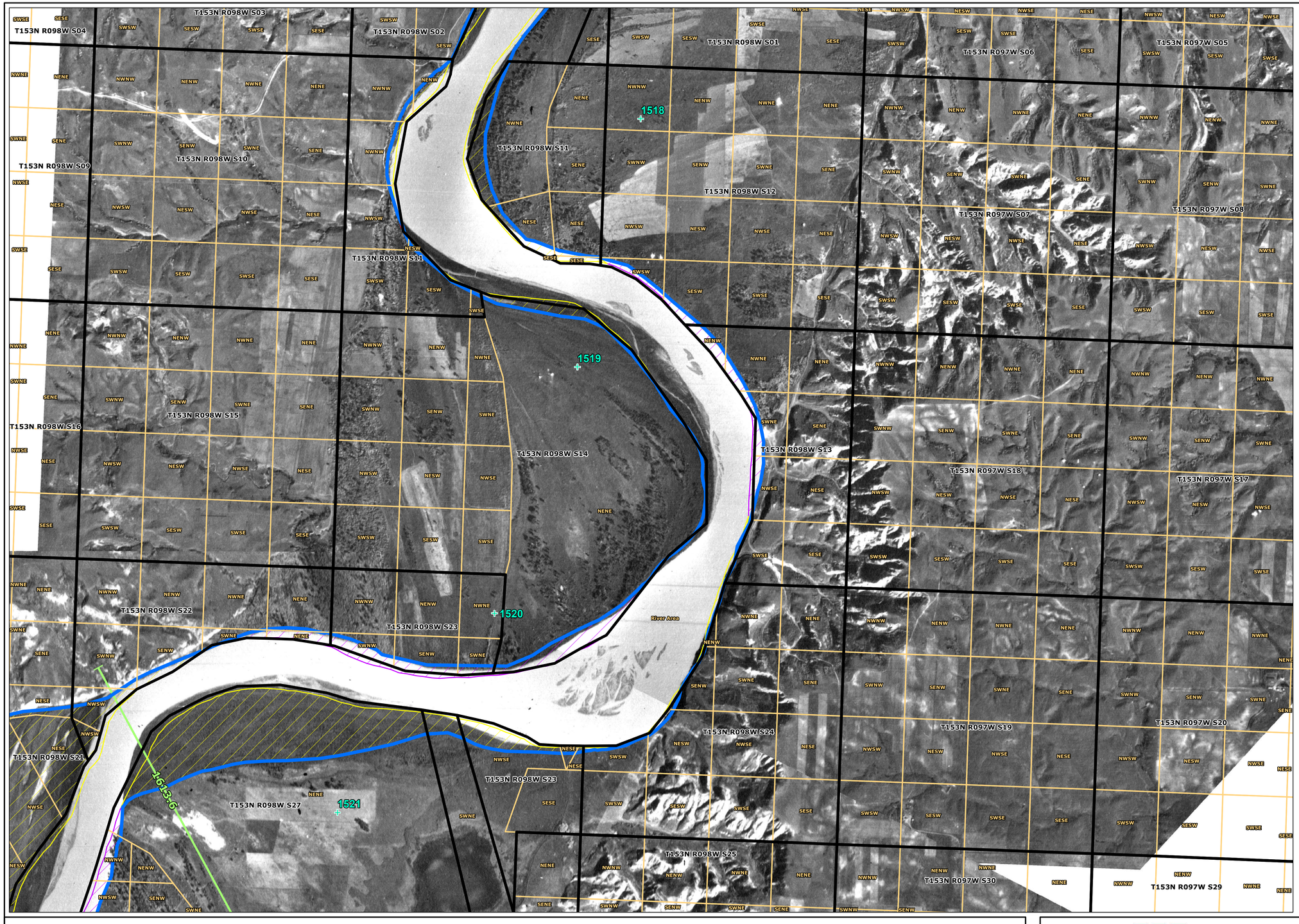

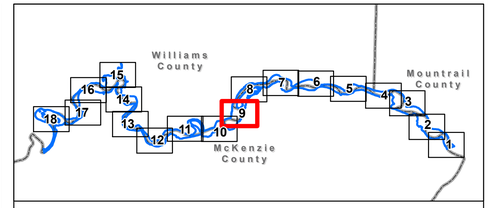

- BLM PLSS Section Boundary
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2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

WENCK
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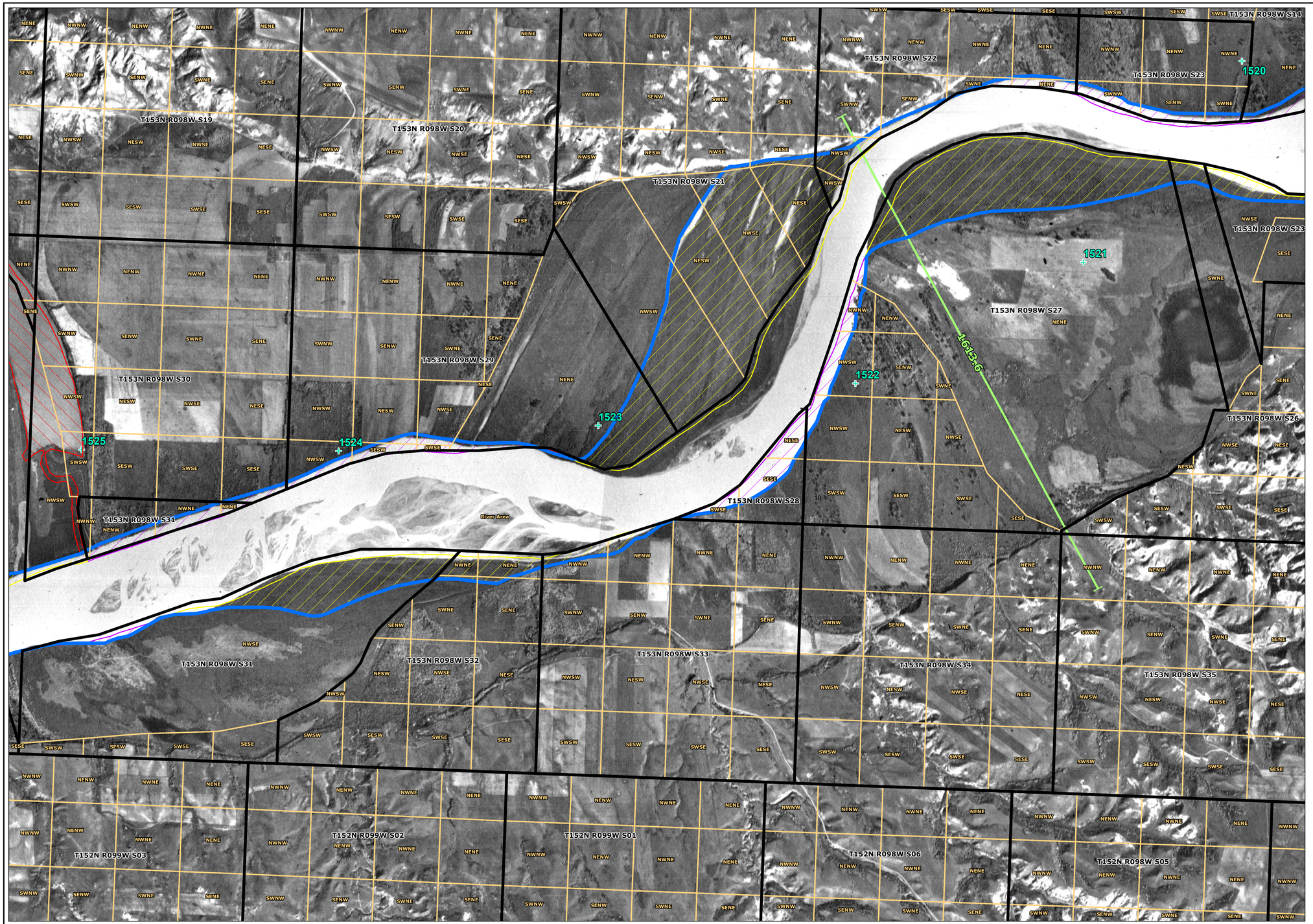

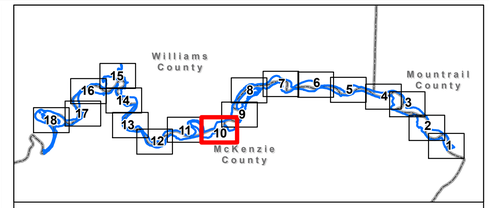

- BLM PLSS Section Boundary
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2. 1951 Aerial Photographs (Source: ND Department of Mineral Resources)

2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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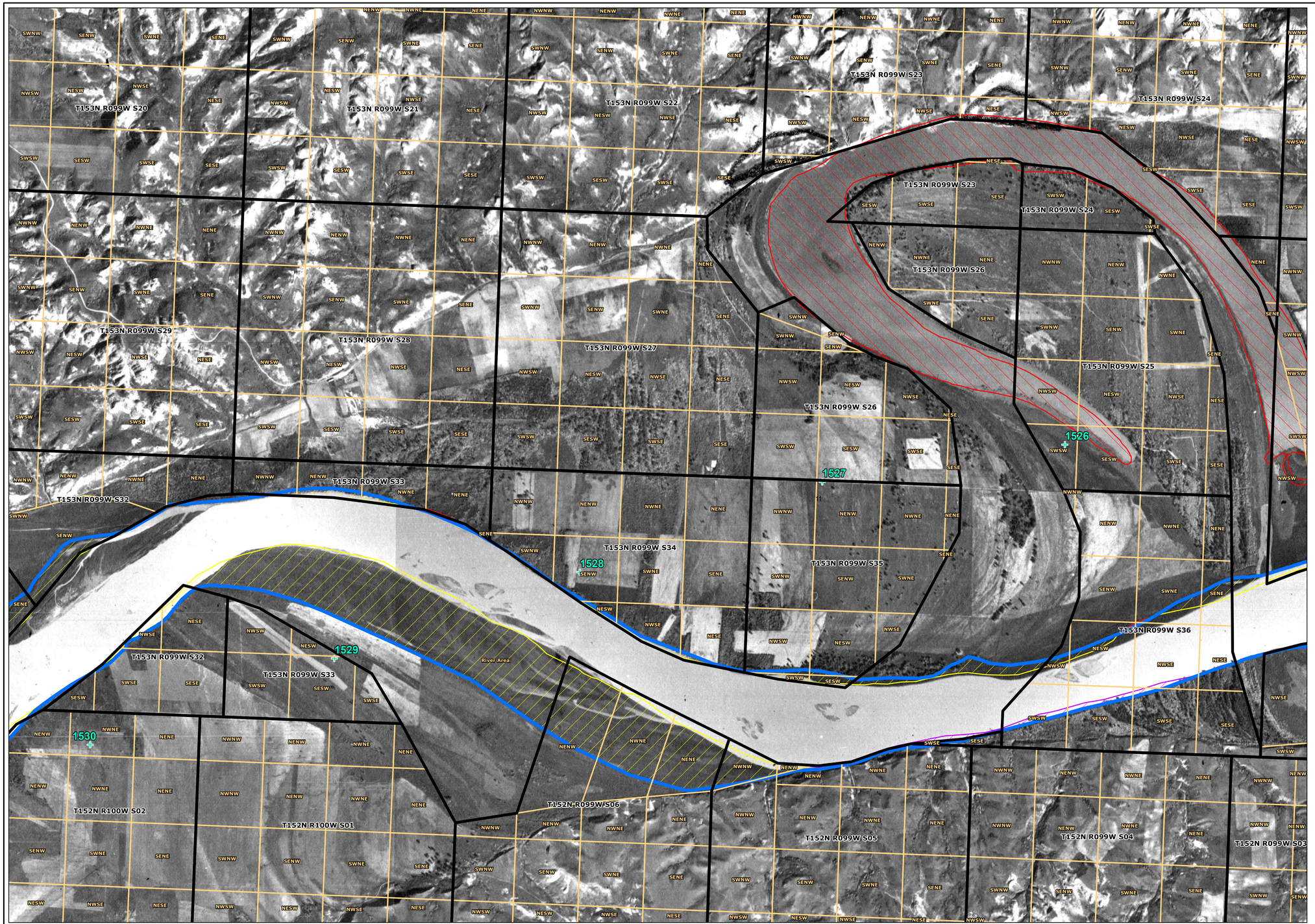

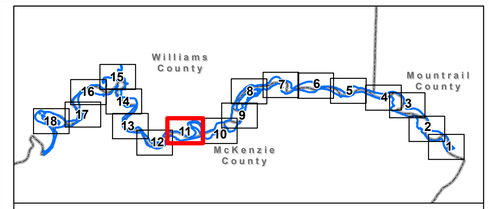

BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

River Miles

USACE Cross Section

Ordinary High-Water Mark (OHWM)

Recommend Correction to Account for More Recent Aerial Information

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2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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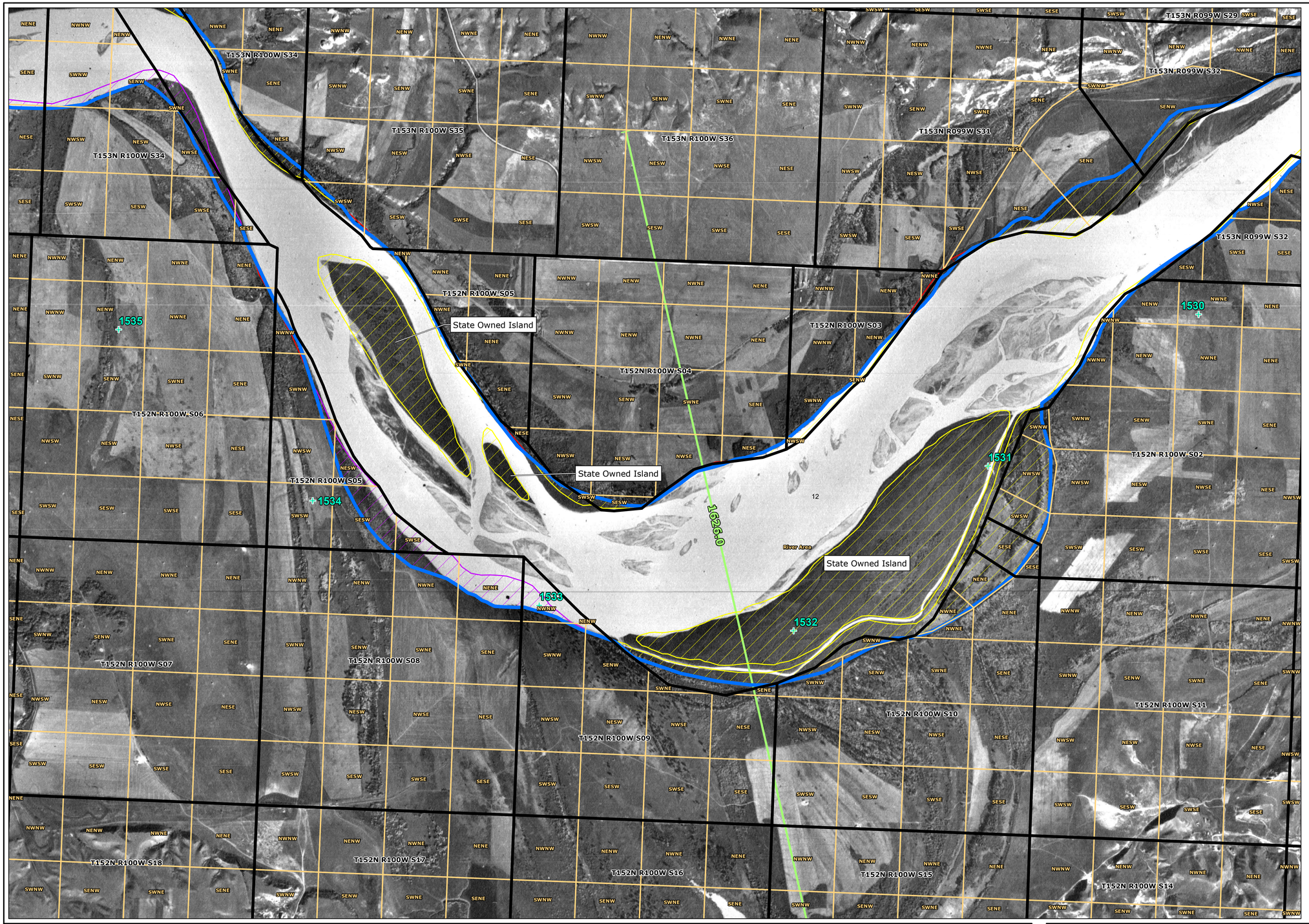

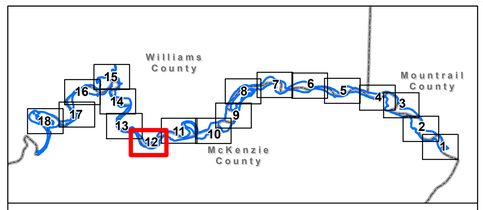

- BLM PLSS Section Boundary
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- River Miles
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2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

WENCK
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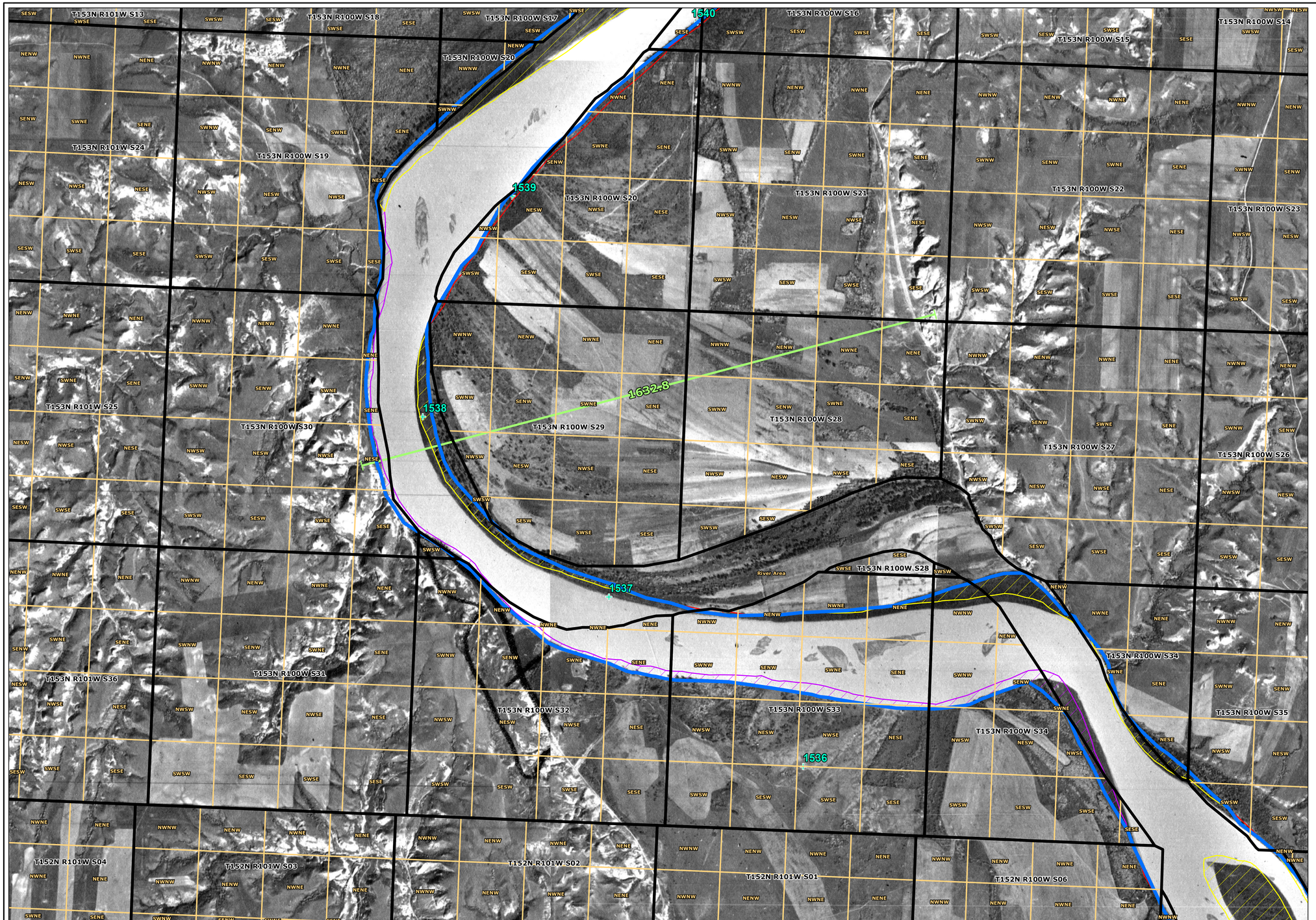

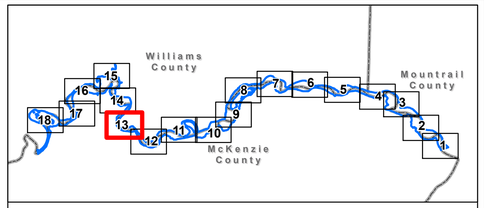

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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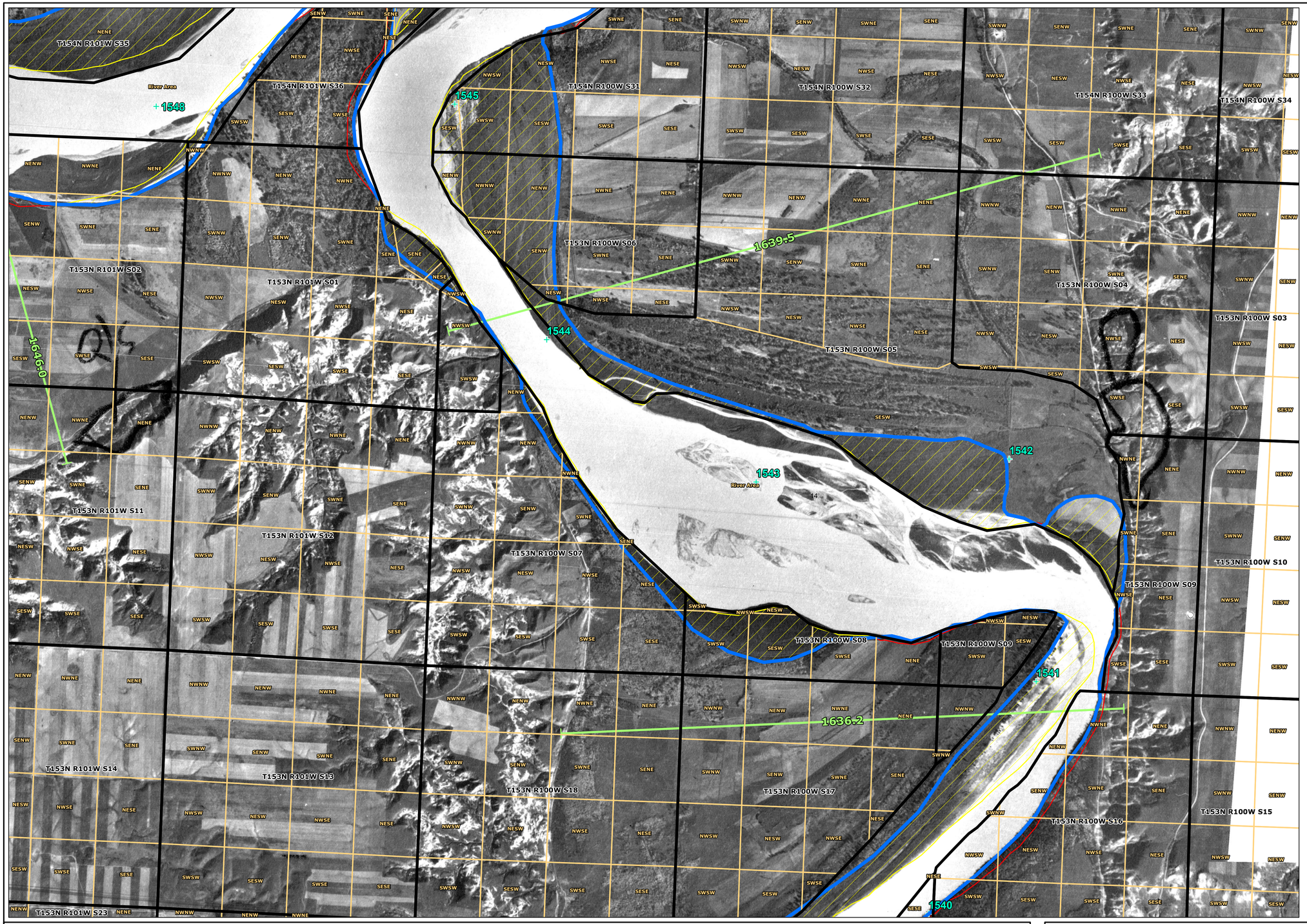
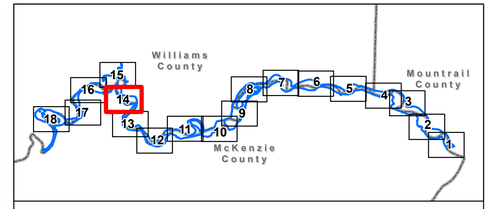
Map 13 of 18





- BLM PLSS Section Boundary
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2,000 1,000 0 2,000 Feet

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N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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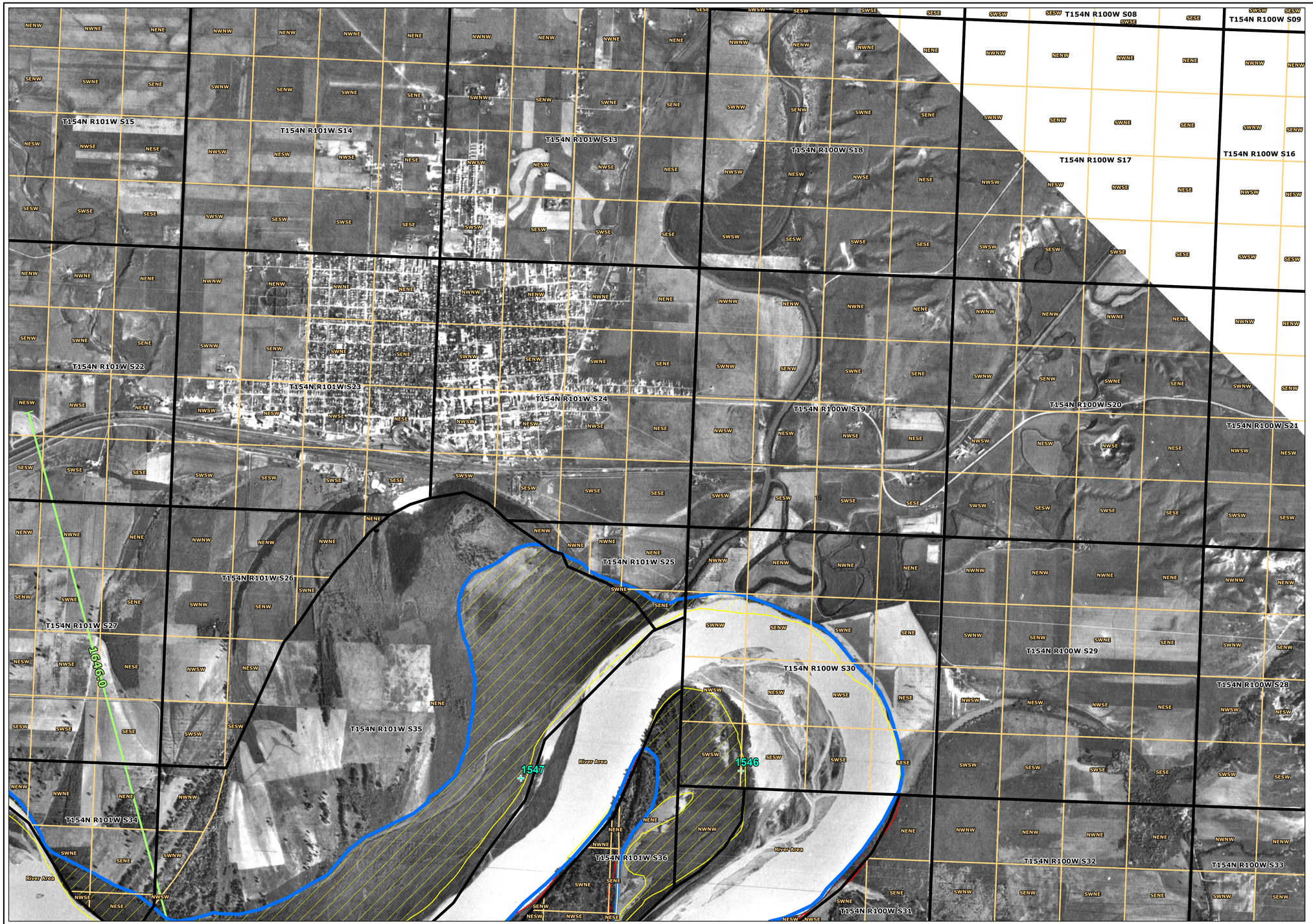
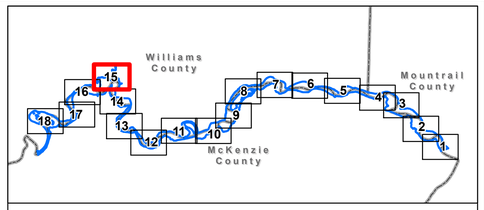
Map 14 of 18





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2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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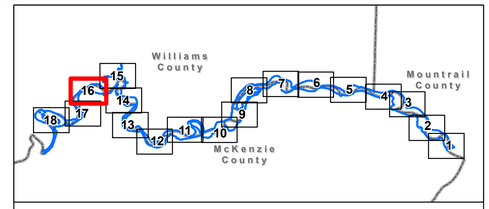

BLM PLSS Section Boundary

BLM PLSS Qtr Qtr Section Boundary

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2,000 1,000 0 2,000 Feet

1 inch = 1,000 feet

N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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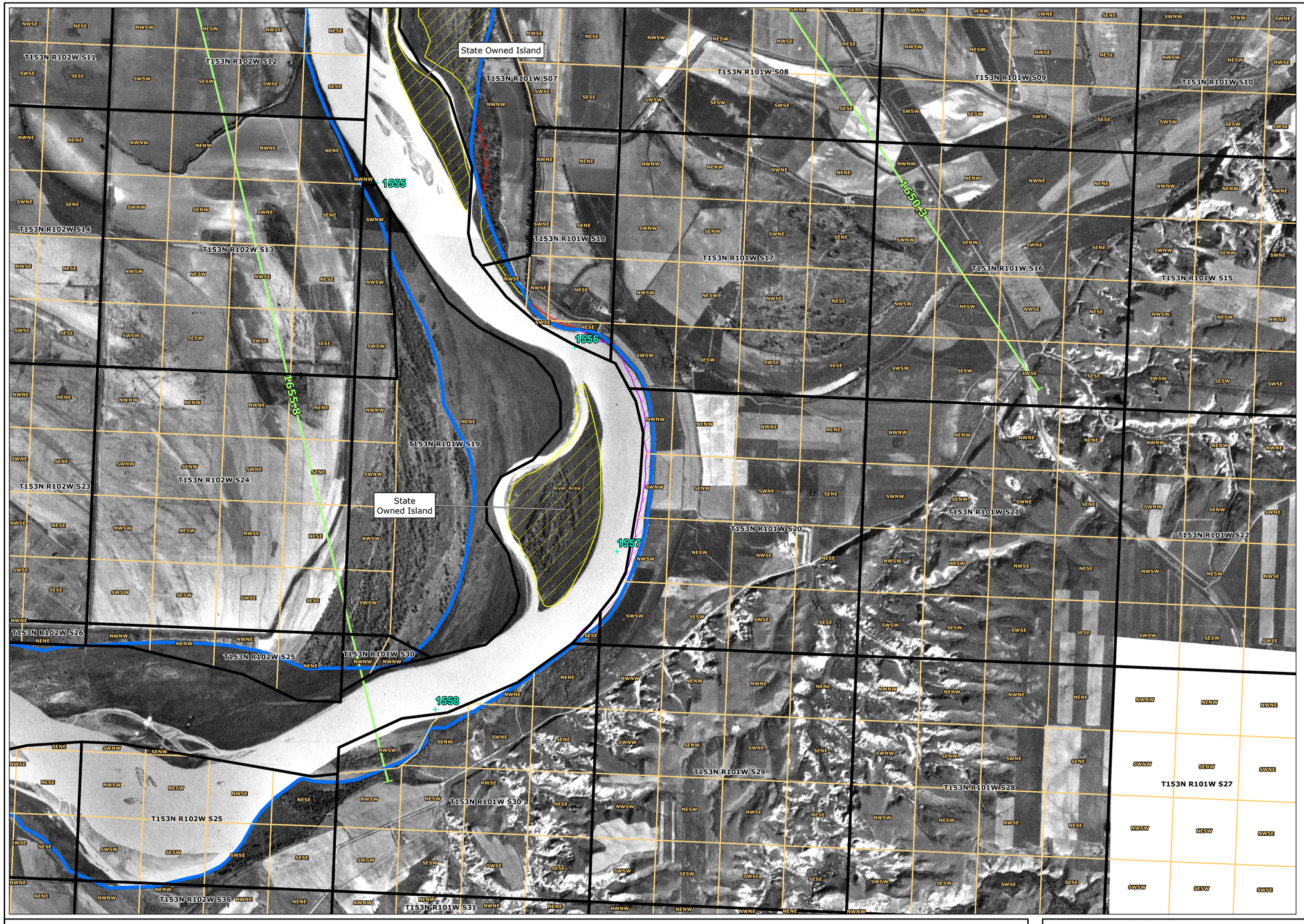

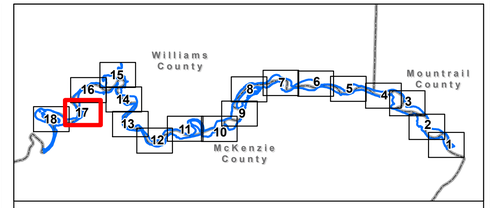

BLM PLSS Section Boundary

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2,000 1,000 0 2,000 Feet

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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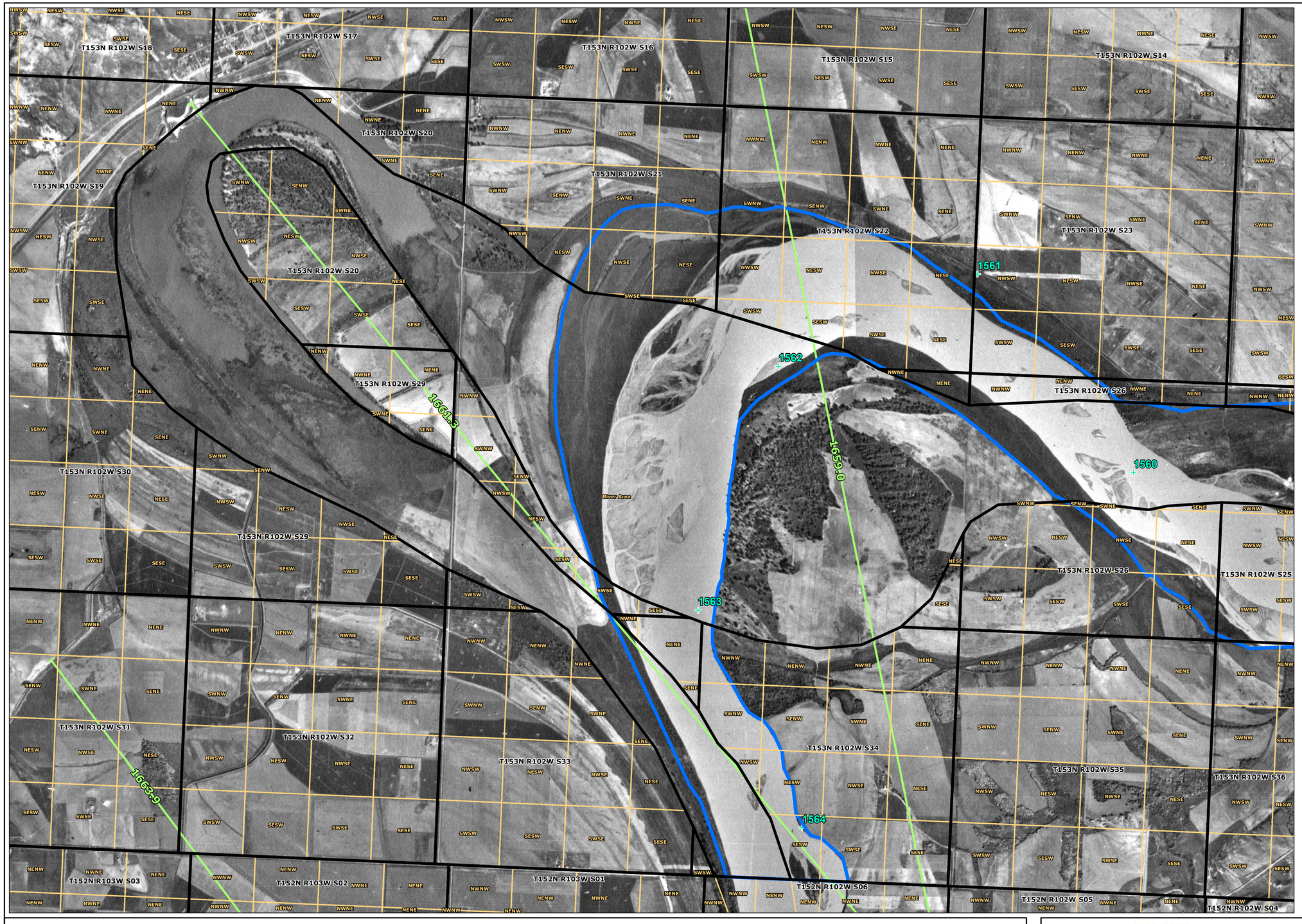
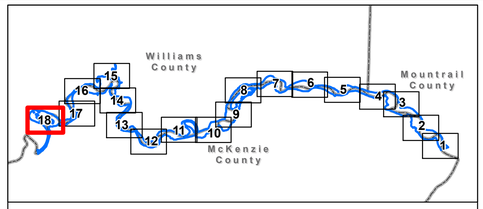
Map 17 of 18





BLM PLSS Section Boundary

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2,000 1,000 0 2,000 Feet

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N

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NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

OHWM Determination

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Appendix A

State Law Basis for Ordinary High Water Mark Study
North Dakota Century Code Chapter 61-33.1-03

And OHWM Definition

CHAPTER 61-33.1
STATE OWNERSHIP OF MISSOURI RIVERBED

61-33.1-01. Definitions. (Retroactive application - See note) Note attached after Page 3

For purposes of this chapter, unless the context otherwise requires:

1. "Corps survey" means the last known survey conducted by the army corps of engineers in connection with the corps' determination of the amount of land acquired by the corps for the impoundment of Lake Sakakawea and Lake Oahe, as supplemented by the supplemental plats created by the branch of cadastral survey of the United States bureau of land management.
2. "Historical Missouri riverbed channel" means the Missouri riverbed channel as it existed upon the closure of the Pick-Sloan Missouri basin project dams, and extends from the Garrison Dam to the southern border of sections 33 and 34, township 153 north, range 102 west which is the approximate location of river mile marker 1,565, and from the South Dakota border to river mile marker 1,303.
3. "Segment" means the individual segment maps contained within the corps survey final project maps for the Pick-Sloan project dams.
4. "State phase two survey" means the "Ordinary High Water Mark Survey Task Order #2 Final Technical Report" commissioned by the board of university and school lands.

61-33.1-02. Mineral ownership of land inundated by Pick-Sloan Missouri basin project dams. (Retroactive application - See note)

The state sovereign land mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams extends only to the historical Missouri riverbed channel up to the ordinary high water mark. The state holds no claim or title to any minerals above the ordinary high water mark of the historical Missouri riverbed channel inundated by Pick-Sloan Missouri basin project dams, except for original grant lands acquired by the state under federal law and any minerals acquired by the state through purchase, foreclosure, or other written conveyance. Mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams which are located within the exterior boundaries of the Fort Berthold reservation and Standing Rock Indian reservation is controlled by other law and is excepted from this section.

61-33.1-03. Determination of the ordinary high water mark of the historical Missouri riverbed channel. (Retroactive application - See note)

1. The corps survey must be considered the presumptive determination of the ordinary high water mark of the historical Missouri riverbed channel, subject only to the review process under this section and judicial review as provided in this chapter.
2. Effective April 21, 2017, the department of mineral resources shall commence procurement to select a qualified engineering and surveying firm to conduct a review of the corps survey under this section. The review must be limited to the corps survey segments from the northern boundary of the Fort Berthold Indian reservation to the southern border of sections 33 and 34, township 153 north, range 102 west. Within ninety days of the first date of publication of the invitation, the department shall select and approve a firm for the review. The department may not select or approve a firm that has a conflict of interest in the outcome of the review, including any firm that has participated in a survey of the Missouri riverbed for the state or a state agency, or participated as a party or expert witness in any litigation regarding an assertion by the state of mineral ownership of the Missouri riverbed.
3. The selected and approved firm shall review the delineation of the ordinary high water mark of the corps survey segments. The review must determine whether clear and convincing evidence establishes that a portion of the corps survey does not reasonably reflect the ordinary high water mark of the historical Missouri riverbed channel under state law. The following parameters, historical data, materials, and applicable state laws must be considered in the review:

a. Aerial photography of the historical Missouri riverbed channel existing before the closure date of the Pick-Sloan project dams;
b. The historical records of the army corps of engineers pertaining to the corps survey;
c. Army corps of engineers and United States geological survey elevation and Missouri River flow data;
d. State case law regarding the identification of the point at which the presence of action of the water is so continuous as to destroy the value of the land for agricultural purposes, including hay lands. Land where the high and continuous presence of water has destroyed its value for agricultural purposes, including hay land, generally must be considered within the ordinary high water mark. The value for agricultural purposes is destroyed at the level where significant, major, and substantial terrestrial vegetation ends or ceases to grow. Lands having agricultural value capable of growing crops or hay, but not merely intermittent grazing or location of cattle, generally must be considered above the ordinary high water mark; and (copies appended following)
e. Subsection 3 of section 61-33-01 and section 47-06-05, which provide all accretions are presumed to be above the ordinary high water mark and are not sovereign lands. Accreted lands may be determined to be within the ordinary high water mark of the historical Missouri riverbed channel based on clear and convincing evidence. Areas of low-lying and flat lands where the ordinary high water mark may be impracticable to determine due to inconclusive aerial photography or inconclusive vegetation analysis must be presumed to be above the ordinary high water mark and owned by the riparian landowner.

4. The firm shall complete the review within six months of entering a contract with the department of mineral resources. The department may extend the time required to complete the review if the department deems an extension necessary.
5. Upon completion of the review, the firm shall provide its findings to the department. The findings must address each segment of the corps survey the firm reviewed and must include a recommendation to either maintain or adjust, modify, or correct the corps survey as the delineation of the ordinary high water mark for each segment. The firm may recommend an adjustment, modification, or correction to a segment of the corps survey only if clear and convincing evidence establishes the corps survey for that segment does not reasonably reflect the ordinary high water mark of the historical Missouri riverbed channel under state law.
6. The department shall publish notice of the review findings and a public hearing to be held on the findings. The public must have sixty days after publication of the notice to submit comments to the department. At the end of the sixty days, the department shall hold the public hearing on the review.
7. After the public hearing, the department, in consultation with the firm, shall consider all public comments, develop a final recommendation on each of the review findings, and deliver the final recommendations to the industrial commission, which may adopt or modify the recommendations. The industrial commission may modify a recommendation from the department only if it finds clear and convincing evidence from the resources in subsection 3 that the recommendation is substantially inaccurate. The industrial commission's action on each finding will determine the delineation of the ordinary high water mark for the segment of the river addressed by the finding.

61-33.1-04. Implementation. (Retroactive application - See note)

1. Within six months after the adoption of the final review findings by the industrial commission:
   a. Any royalty proceeds held by operators attributable to oil and gas mineral tracts lying entirely above the ordinary high water mark of the historical Missouri riverbed channel on both the corps survey and the state phase two survey must

be released to the owners of the tracts, absent a showing of other defects affecting mineral title; and

b. Any royalty proceeds held by the board of university and school lands attributable to oil and gas mineral tracts lying entirely above the ordinary high water mark of the historical Missouri riverbed channel on both the corps survey and the state phase two survey must be released to the relevant operators to distribute to the owners of the tracts, absent a showing of other defects affecting mineral title.

2. Upon adoption of the final review findings by the industrial commission:

a. The board of university and school lands shall begin to implement any acreage adjustments, lease bonus and royalty refunds, and payment demands as may be necessary relating to state-issued oil and gas leases. The board shall complete the adjustments, refunds, and payment demands within two years after the date of adoption of the final review findings.

b. Operators of oil and gas wells affected by the final review findings immediately shall begin to implement any acreage and revenue adjustments relating to state-owned and privately owned oil and gas interests. The operators shall complete the adjustments within two years after the date of adoption of the review findings. Any applicable penalties, liability, or interest for late payment of royalties or revenues from an affected oil or gas well may not begin to accrue until the end of the two-year deadline. The filing of an action under section 61-33.1-05 tolls the deadline for any oil and gas well directly affected by the action challenging the review finding.

61-33.1-05. Actions challenging review findings. (Retroactive application - See note)

An interested party seeking to bring an action challenging the review findings or recommendations or the industrial commission actions under this chapter shall commence an action in district court within two years of the date of adoption of the final review findings by the industrial commission. The plaintiff bringing an action under this section may challenge only the final review finding for the section or sections of land in which the plaintiff asserts an interest. The state and all owners of record of fee or leasehold estates or interests affected by the finding, recommendation, or industrial commission action challenged in the action under this section must be joined as parties to the action. A plaintiff or defendant claiming a boundary of the ordinary high water mark of the historical Missouri riverbed channel which varies from the boundary determined under this chapter bears the burden of establishing the variance by clear and convincing evidence based on evidence of the type required to be considered by the engineering and surveying firm under subsection 3 of section 61-33.1-03. Notwithstanding any other provision of law, an action brought in district court under this section is the sole remedy for challenging the final review, recommendations, and determination of the ordinary high water mark under this chapter, and preempts any right to rehearing, reconsideration, administrative appeal, or other form of civil action provided under law.

61-33.1-06. Public domain lands. (Retroactive application - See note)

Notwithstanding any provision of this chapter to the contrary, the ordinary high water mark of the historical Missouri riverbed channel abutting nonpatented public domain lands owned by the United States must be determined by the branch of cadastral study of the United States bureau of land management in accordance with federal law.

61-33.1-07. State engineer regulatory jurisdiction. (Retroactive application - See note)

This chapter does not affect the authority of the state engineer to regulate the historical Missouri riverbed channel, minerals other than oil and gas, or the waters of the state, provided the regulation does not affect ownership of oil and gas minerals in and under the riverbed or lands above the ordinary high water mark of the historical Missouri riverbed channel inundated by Pick-Sloan Missouri basin project dams.

Note referenced in North Dakota Century Code chapter 61-33.1-03

2017_426_4

As provided by S.L. 2017, ch. 426, § 4, this section is retroactive to the date of closure of the Pick-Sloan Missouri basin project dams. The ordinary high water mark determination under this Act is retroactive and applies to all oil and gas wells spud after January 1, 2006, for purposes of oil and gas mineral and royalty ownership.

CHAPTER 61-33
SOVEREIGN LAND MANAGEMENT

61-33-01. Definitions.

As used in this chapter, unless the context otherwise requires:

1. "Board" means the sovereign lands advisory board.
2. "Board of university and school lands" means that entity created by section 15-01-01.
3. "Sovereign lands" means those areas, including beds and islands, lying within the ordinary high water mark of navigable lakes and streams. Lands established to be riparian accretion or reliction lands pursuant to section 47-06-05 are considered to be above the ordinary high water mark and are not sovereign lands.
4. "State engineer" means the person appointed by the state water commission pursuant to section 61-03-01.

61-33-02. Administration of sovereign lands.

All sovereign lands of the state must be administered by the state engineer and the board of university and school lands subject to the provisions of this chapter. Lands managed pursuant to this chapter are not subject to leasing provisions found elsewhere in this code.

61-33-03. Transfer of possessory interests in real property.

All possessory interests now owned or that may be acquired except oil, gas, and related hydrocarbons, in the sovereign lands of the state owned or controlled by the state or any of its officers, departments, or the Bank of North Dakota, together with any future increments, are transferred to the state of North Dakota, acting by and through the state engineer. All such possessory interests in oil, gas, and related hydrocarbons in the sovereign lands of the state are transferred to the state of North Dakota, acting by and through the board of university and school lands. These transfers are self-executing. No evidence other than the provisions of this chapter is required to establish the fact of transfer of title to the state of North Dakota, acting by and through the state engineer and board of university and school lands. Proper and sufficient delivery of all title documents is conclusively presumed.

61-33-04. Existing contracts and encumbrances recognized.

The transfers made by this chapter are subject to all existing contracts, rights, easements, and encumbrances made or sanctioned by the state or any of its officers or departments.

61-33-05. Duties and powers of the state engineer.

The state engineer shall manage, operate, and supervise all properties transferred to it by this chapter; may enter into any agreements regarding such property; may enforce all rights of the owner in its own name; may issue and enforce administrative orders and recover the cost of the enforcement from the party against which enforcement is sought; and may make and execute all instruments of release or conveyance as may be required pursuant to agreements made with respect to such assets, whether such agreements were made heretofore, or are made hereafter. The state engineer may enter agreements with the game and fish department or other law enforcement entities to enforce this chapter and rules adopted under this chapter.

61-33-06. Duties and powers of the board of university and school lands.

The board of university and school lands shall manage, operate, and supervise all properties transferred to it by this chapter; may enter into any agreements regarding such property; may enforce all subsurface rights of the owner in its own name; and may make and execute all instruments of release or conveyance as may be required pursuant to agreements made with respect to such assets, whether such agreements were made heretofore, or are made hereafter.

61-33-07. Deposit of income.

All income derived from the lease and management of the lands acquired by the state engineer and board of university and school lands pursuant to this chapter and not belonging to other trust funds must be deposited in the strategic investment and improvements fund.

61-33-08. Advisory board - Responsibilities.

There is created a sovereign lands advisory board. The board's responsibility is to advise the state engineer and the board of university and school lands on general policies as well as specific projects, programs, and uses regarding sovereign lands. The board, being solely advisory, has no authority to require the state engineer or the board of university and school lands to implement or otherwise accept the board's recommendations.

61-33-09. Members of the board - Organization - Meetings.

1. The board consists of the manager of the Garrison Diversion Conservancy District, the state engineer, the commissioner of university and school lands, the director of the parks and recreation department, the director of the game and fish department, and the state health officer, or their representatives.
2. The state engineer is the board's secretary.
3. The board shall meet at least once a year or at the call of the state engineer or two or more members of the board. The board shall meet at the office of the state engineer or at any other place decided upon by the board.
4. The board may adopt rules to govern its activities.

(Contingent effective date - See note) Members of the board - Organization - Meetings.

1. The board consists of the manager of the Garrison Diversion Conservancy District, the state engineer, the commissioner of university and school lands, the director of the parks and recreation department, the director of the game and fish department, and the director of the department of environmental quality, or their representatives.
2. The state engineer is the board's secretary.
3. The board shall meet at least once a year or at the call of the state engineer or two or more members of the board. The board shall meet at the office of the state engineer or at any other place decided upon by the board.
4. The board may adopt rules to govern its activities.

61-33-10. Penalty.

A person who violates this chapter or any rule implementing this chapter is guilty of a class B misdemeanor unless a lesser penalty is indicated. A civil penalty may be imposed by a court in a civil proceeding or by the state engineer through an adjudicative proceeding pursuant to chapter 28-32. The assessment of a civil penalty does not preclude the imposition of other sanctions authorized by law, this chapter, or rules adopted under this chapter. The state engineer may bring a civil action to recover damages resulting from violations and may also recover any costs incurred.

CHAPTER 47-06
REAL ESTATE TITLE BY OCCUPANCY AND ACCESSION

47-06-01. Title by occupancy.

Occupancy for any period confers a title sufficient against all except the state and those who have title by prescription, accession, transfer, will, or succession.

47-06-02. Title by prescription - Occupancy required.

Occupancy for the period prescribed by any law of this state as sufficient to bar an action for the recovery of the property confers a title thereto, denominated a title by prescription, which is sufficient against all.

47-06-03. Title to real property - Adverse possession.

A title to real property, vested in any person who has been or hereafter shall be, either alone or including those under whom that person claims, in the actual open adverse and undisputed possession of the land under such title for a period of ten years and who, either alone or including those under whom that person claims, shall have paid all taxes and assessments legally levied thereon, shall be valid in law. Possession by a county under tax deed shall not be deemed adverse. A contract for deed shall constitute color of title within the meaning of this section from and after the execution of such contract.

47-06-04. Fixtures - When tenant may remove.

When a person affixes that person's property to the land of another without an agreement permitting that person to remove it, the thing affixed belongs to the owner of the land, unless the owner of the land chooses to require the former to remove it. A tenant may remove from the demised premises, anytime during the continuance of the tenant's term, anything affixed thereto, for the purpose of trade, manufacture, ornament, or domestic use, if the removal can be effected without injury to the premises, unless the thing has become an integral part of the premises by the manner in which it is affixed. When any tenant upon agricultural land shall have built, erected, or placed upon such leased premises during the tenant's tenancy, any grain bin, granary, or structure for the purpose of housing grain, and no written agreement between the landlord and the tenant has been made as to its removal, the tenant may remove the same at any time within eight months after the termination of the tenant's lease and the vacating of said premises. The tenant shall not have said right of removal as against the owner or holder of any mortgage, deed, or conveyance which shall have been filed and recorded after the building, erection, or placing of such bin, granary, or structure, unless such tenant, within sixty days after such building, erecting, or placing, shall have filed in the office of the recorder a written notice describing the land, the character of the structure, and stating that the tenant intends to remove such structure as provided by law.

47-06-04.1. Mobile home storm shelters - Placement and transfer of ownership.

1. Upon approval of the mobile home park owner, the owner of a mobile home located in the park may construct a storm shelter in the mobile home park. The approval must be in writing and must include the type, location, and use of the shelter, and an agreement between the park owner and the mobile home owner concerning ownership and maintenance of the shelter.
2. Notwithstanding section 47-06-04, the agreement between the owner of the mobile home and the park owner must provide that the owner of the mobile home is the owner of the shelter and may remove the shelter provided the land is returned to its original condition during any time that person owns the mobile home.
3. The shelter owner may transfer ownership of the shelter to either a person who purchases the mobile home or to the mobile home park owner. The transfer must be in writing; must include the type, location, and use of the shelter; must include the maintenance responsibilities of the parties; and must be signed by both parties. If a mobile home owner transfers the shelter to a purchaser of the mobile home, the terms

of the transfer must be the same as the terms of the agreement between the park owner and the mobile home owner required under subsection 1.

a. If a suitable price cannot be agreed upon with the mobile home park owner, the shelter owner is deemed to have transferred the ownership and maintenance responsibilities of the shelter to the park owner without cost, unless the shelter is removed or the shelter is transferred to a purchaser of the mobile home as provided in this section.
b. If the park owner is unwilling to assume ownership of the shelter, the park owner may require the mobile home owner to remove the shelter and return the land to its original condition.

4. The park owner is not liable for any injury or damages that may occur to the mobile home owner as a result of the installation or use of the mobile home storm shelter.
5. All shelters must meet with the approval of local governing bodies.

47-06-05. Riparian accretions.

Where from natural causes land forms by imperceptible degrees upon the bank of a river or stream, navigable or not navigable, either by accumulation of material or by the recession of the stream, such land belongs to the owner of the bank, subject to any existing right of way over the bank.

47-06-06. Avulsion - Title - Reclamation by original owner - Limitations.

If a river or stream, navigable or not navigable, carries away by sudden violence a considerable and distinguishable part of a bank and bears it to the opposite bank or to another part of the same bank, the owner of the part carried away may reclaim it within a year after the owner of the land to which it has been united takes possession thereof.

47-06-07. Ancient streambed taken by owners of new course as indemnity.

If a stream, navigable or not navigable, forms a new course abandoning its ancient bed, the owners of the land newly occupied take by way of indemnity the ancient bed abandoned, each in proportion to the land of which the owner has been deprived.

47-06-08. Islands and relicted lands in navigable streams belong to state.

Islands and accumulations of land formed in the beds of streams which are navigable belong to the state, if there is no title or prescription to the contrary. The control and management, including the power to execute surface and mineral leases, of islands, relictions, and accumulations of land owned by the state of North Dakota in navigable streams and waters and the beds thereof, must be governed by chapter 61-33.

47-06-09. Islands and relicted land in non-navigable streams.

An island or accumulation of land formed in a stream which is not navigable belongs to the owner of the shore on that side where the island or accumulation is formed, or if not formed on one side only, to the owners of the shore on the two sides, divided by an imaginary line drawn through the middle of the river.

47-06-10. Island formed by dividing stream - Title.

If a stream, navigable or not navigable, in forming itself a new arm divides itself and surrounds land belonging to the owner of the shore and thereby forms an island, the island belongs to such owner.

Native Hay Land as above the OHWM

The following is the basis for considering native hay land as above the ordinary high watermark.

In the 1999 ND Supreme Court case OHWM was defined as follows:

This Court has delineated factors for determining the ordinary high watermark:

"' "High-water mark" means what its language imports--a water mark. It is co-ordinate with the limit of the bed of the water; and that only is to be considered the bed which the water occupies sufficiently long and continuously to wrest it from vegetation, and destroy its value for agricultural purposes. * * * In some places, however, where the banks are low and flat, the water does not impress on the soil any well-defined line of demarcation between the bed and the banks.

"'In such cases the effect of the water upon vegetation must be the principal test in determining the location of high-water mark as a line between the riparian owner and the public. It is the point up to which the presence and action of the water is so continuous as to destroy the value of the land for agricultural purposes by preventing the growth of vegetation, constituting what may be termed an ordinary agricultural crop.'"

43 CFR 2610.0-5 defines Ordinary Agricultural Crop as follows:

§ 2610.0-5 Definitions.

As used in the regulations of this part:

(a)*Actual settler* means a person who establishes a primary residence on the land.

(b)*Cultivation* means tilling or otherwise preparing the land and keeping the ground in a state favorable for the growth of ordinary agricultural crops and requires irrigation as an attendant act.

(c)*Desert lands* means unreclaimed lands which will not, without irrigation, produce any reasonably remunerative agricultural crop by usual means or methods of cultivation. This includes lands which will not, without irrigation, produce paying crops during a series of years, but on which crops can be successfully grown in alternate years by means of the so-called dry-farming system. Lands which produce native grasses sufficient in quantity, if ungrazed by grazing animals, to make an ordinary crop of hay in usual seasons, are not desert lands. Lands which will produce an agricultural crop of any kind without irrigation in amount sufficient to make the cultivation reasonably remunerative are not desert. Lands containing sufficient moisture to produce a natural growth of trees are not to be classed as desert lands.

(d)*Economic feasibility* means the capability of an entry to provide an economic return to the settler sufficient to provide a viable farm enterprise and assure continued use of the land for farming purposes. Factors considered in determining feasibility may include the cost of developing or acquiring water, land reclamation costs, land treatment costs, the cost of construction or acquisition of a habitable residence, acquisition of farm equipment, fencing

and other costs associated with a farm enterprise, such as water delivery, seed, planting, fertilization, harvest, etc.

(e)*Grant contract* means the contract between a State and the United States which sets the terms and conditions which the State or its assignees shall comply with before lands shall be patented.

(f)*Irrigation* means the application of water to the land for the purpose of growing crops.

(g)*Ordinary agricultural crops* means any agricultural product to which the land under consideration is generally adapted, and which would return a fair reward for the expense of producing them. Ordinary agricultural crops do not include forest products but may include orchards and other plants which cannot be grown on the land without irrigation and from which a profitable crop may be harvested.

(h)*Reclamation* means the establishment of works for conducting water in adequate volume and quantity to the land so as to render it available for distribution when needed for irrigation and cultivation.

(i)*Segregation* means the action under the Act of August 19, 1894 (39 Stat. 422), as amended (43 U.S.C. 641), by which the lands are reserved from the public domain and closed to application or entry under the public land laws, including location under the mining laws.

(j)*Smallest legal subdivision* means a quarter quarter section (40 acres).

ARTICLE 89-10
SOVEREIGN LANDS

Chapter
89-10-01 Sovereign Lands

CHAPTER 89-10-01
SOVEREIGN LANDS

Section
89-10-01-01 Authority
89-10-01-02 Prohibition on Permanent Relinquishment
89-10-01-03 Definitions
89-10-01-04 Authorization
89-10-01-05 Application for Permit, Easement, Lease, or Management Agreement
89-10-01-06 Application Review
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89-10-01-26 Removal of Public Property
89-10-01-27 Cultural or Historical Resources
89-10-01-28 Disposal of Waste
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89-10-01-30 Abandoned Property
89-10-01-31 Firearms
89-10-01-32 Tree Stands
89-10-01-33 Baiting
89-10-01-34 Dredging or Filling

89-10-01-01. Authority.

These rules are adopted and promulgated by the state engineer under North Dakota Century Code chapter 61-33 to provide consistency in the administration and management of sovereign lands. These rules do not apply to the state of North Dakota's interests in oil, gas, and related hydrocarbons on sovereign lands.

History: Effective November 1, 1989; amended effective April 1, 2008; April 1, 2009; July 1, 2014.
General Authority: NDCC 28-32-02, 61-03-13
Law Implemented: NDCC 61-33

89-10-01-02. Prohibition on permanent relinquishment.

Sovereign lands may not be permanently relinquished, but must be held in perpetual trust for the benefit of the citizens of the state of North Dakota. All structures permitted or otherwise allowed for private use on sovereign lands are subordinate to public use and values.

History: Effective November 1, 1989; amended effective April 1, 2009; July 1, 2014.
General Authority: NDCC 28-32-02, 61-03-13
Law Implemented: NDCC 61-33

89-10-01-03. Definitions.

The following definitions apply to this article:

1. "Authorization" means a permit, easement, lease, or management agreement approved and granted by the state engineer after application; and the authority granted in sections 89-10-01-10 and 89-10-01-19.

2. "Boardwalk" means a walk constructed of planking.

3. "Domestic use" means the use of water as defined by subsection 4 of North Dakota Century Code section 61-04-01.1.

4. "Grantee" means the person, including that person's assigns, successors, and agents who has authorization.

5. "Livestock" means bison, cattle, horses, mules, goats, sheep, and swine.

6. "Navigable waters" means any waters that were in fact navigable at the time of statehood, that is, were used or were susceptible of being used in their ordinary condition as highways for commerce over which trade and travel were or may have been conducted in the customary modes of trade on water.

7. "Ordinary high watermark" means that line below which the action of the water is frequent enough either to prevent the growth of vegetation or to restrict its growth to predominantly wetland species. Islands in navigable waters are considered to be below the ordinary high watermark in their entirety.

8. "Project" means any activity that occurs either partially or wholly on sovereign lands.

9. "Riparian owner" means a person who owns land adjacent to navigable waters or the person's authorized agent.

10. "Snagging and clearing" means the removal and disposal of fallen trees and associated debris encountered within and along the channel.

11. "Structure" means something that is formed from parts, including equipment, boat docks, boat ramps, and water intakes.

12. "Watercraft" means any device capable of being used as a means of transportation on waters.

History: Effective November 1, 1989; amended effective August 1, 1994; April 1, 2008; April 1, 2009; April 1, 2010; July 1, 2014.
General Authority: NDCC 28-32-02, 61-03-13

Appendix B

Legal Research

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Overview

North Dakota Century Code, section 61-33.1-02, enacted by the legislature in 2017, governs mineral ownership of land inundated by the Pick-Sloan Missouri basin project dams:

> The state sovereign land mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams extends only to the historical Missouri riverbed channel up to the ordinary high water mark. The state holds no claim or title to any minerals above the ordinary high water mark of the historical Missouri riverbed channel inundated by Pick-Sloan Missouri basin project dams, except for original grant lands acquired by the state under federal law and any minerals acquired by the state through purchase, foreclosure, or other written conveyance. Mineral ownership of the riverbed segments inundated by Pick-Sloan Missouri basin project dams which are located within the exterior boundaries of the Fort Berthold reservation and Standing Rock Indian reservation is controlled by other law and is excepted from this section.

Wilkinson v. Bd. of Univ. & Sch. Lands, 903 N.W.2d 51, 56–57 (N.D. 2017) (quoting 2017 N.D. Sess. Laws ch. 426, codified as N.D.C.C. § 61-33.1-02). The "historical Missouri riverbed channel" is statutorily defined as:

> [T]he Missouri riverbed channel as it existed upon the closure of the Pick-Sloan Missouri basin project dams, and extends from the Garrison Dam to the southern border of sections 33 and 34, township 153 North, range 102 West which is the approximate location of river mile marker 1,565, and from the South Dakota border to river mile marker 1,303.

Id. at 57 (quoting N.D.C.C. § 61-33.1-01(2)). The legislature also provided a procedure for determining the ordinary high watermark of the historical Missouri riverbed channel:

> 1. The corps survey must be considered the presumptive determination of the ordinary high water mark of the historical Missouri riverbed channel, subject only to the review process under this section and judicial review as provided in this chapter.

2. Effective April 21, 2017, the department of mineral resources shall commence procurement to select a qualified engineering and surveying firm to conduct a review of the corps survey under this section. The review must be limited to the corps survey segments from the northern boundary of the Fort Berthold Indian reservation to the southern border of sections 33 and 34, township 153 north, range 102 west. Within ninety days of the first date of publication of the invitation, the department shall select and approve a firm for the review. The department may not select or approve a firm that has a conflict of interest in the outcome of the review, including any firm that has participated in a survey of the Missouri riverbed for the state or a state agency, or participated as a party or expert witness in any litigation regarding an assertion by the state of mineral ownership of the Missouri riverbed.

3. The selected and approved firm shall review the delineation of the ordinary high water mark of the corps survey segments. The review must determine whether clear and convincing evidence establishes that a portion of the corps survey does not reasonably reflect the ordinary high water mark of the historical Missouri riverbed channel under state law. The following parameters, historical data, materials, and applicable state laws must be considered in the review:

   a. Aerial photography of the historical Missouri riverbed channel existing before the closure date of the Pick-Sloan project dams;

   b. The historical records of the army corps of engineers pertaining to the corps survey;

   c. Army corps of engineers and United States geological survey elevation and Missouri River flow data;

   d. State case law regarding the identification of the point at which the presence of action of the water is so continuous as to destroy the value of the land for agricultural purposes, including hay lands. Land where the high and continuous presence of water has destroyed its value for agricultural purposes, including hay land, generally must be considered within the ordinary high water mark. The value for agricultural purposes is destroyed at the level where significant, major, and substantial terrestrial vegetation ends or ceases to grow. Lands having agricultural value capable of growing crops or hay,

but not merely intermittent grazing or location of cattle, generally must be considered above the ordinary high water mark; and

e. Subsection 3 of section 61-33-01 and section 47-06-05, which provide all accretions are presumed to be above the ordinary high water mark and are not sovereign lands. Accreted lands may be determined to be within the ordinary high water mark of the historical Missouri riverbed channel based on clear and convincing evidence. Areas of low-lying and flat lands where the ordinary high water mark may be impracticable to determine due to inconclusive aerial photography or inconclusive vegetation analysis must be presumed to be above the ordinary high water mark and owned by the riparian landowner.

4. The firm shall complete the review within six months of entering a contract with the department of mineral resources. The department may extend the time required to complete the review if the department deems an extension necessary.

5. Upon completion of the review, the firm shall provide its findings to the department. The findings must address each segment of the corps survey the firm reviewed and must include a recommendation to either maintain or adjust, modify, or correct the corps survey as the delineation of the ordinary high water mark for each segment. The firm may recommend an adjustment, modification, or correction to a segment of the corps survey only if clear and convincing evidence establishes the corps survey for that segment does not reasonably reflect the ordinary high water mark of the historical Missouri riverbed channel under state law.

6. The department shall publish notice of the review findings and a public hearing to be held on the findings. The public must have sixty days after publication of the notice to submit comments to the department. At the end of the sixty days, the department shall hold the public hearing on the review.

7. After the public hearing, the department, in consultation with the firm, shall consider all public comments, develop a final recommendation on each of the review findings, and deliver the final recommendations to the industrial commission, which may adopt or modify the recommendations. The industrial commission may modify a recommendation from the department only if it finds clear and convincing evidence from the resources in subsection 3 that the recommendation is substantially inaccurate. The industrial commission's

> action on each finding will determine the delineation of the ordinary high water mark for the segment of the river addressed by the finding.

Id. (citing N.D.C.C. § 61-33.1-03).

> An interested party seeking to bring an action challenging the review findings or recommendations or the industrial commission actions under this chapter shall commence an action in district court within two years of the date of adoption of the final review findings by the industrial commission. The plaintiff bringing an action under this section may challenge only the final review finding for the section or sections of land in which the plaintiff asserts an interest. The state and all owners of record of fee or leasehold estates or interests affected by the finding, recommendation, or industrial commission action challenged in the action under this section must be joined as parties to the action. A plaintiff or defendant claiming a boundary of the ordinary high water mark of the historical Missouri riverbed channel which varies from the boundary determined under this chapter bears the burden of establishing the variance by clear and convincing evidence based on evidence of the type required to be considered by the engineering and surveying firm under subsection 3 of section 61-33.1-03. Notwithstanding any other provision of law, an action brought in district court under this section is the sole remedy for challenging the final review, recommendations, and determination of the ordinary high water mark under this chapter, and preempts any right to rehearing, reconsideration, administrative appeal, or other form of civil action provided under law.

Id. (citing N.D.C.C. § 61-33.1-05). The North Dakota Supreme Court has already ruled that the delineation method outlined above applies retroactively to "all oil and gas wells spud after January 1, 2006, for purposes of oil and gas mineral and royalty ownership." *Id.* at 58.

Wenck Associates was selected by DMR as the qualified engineering and surveying firm qualified to conduct a review of the corps survey under this section. Wenck subcontracted with Rinke Noonan to provide the state case law referenced in section 61-33.1-03(3)(d). This memorandum describes the state case law pertaining to the delineation of the OHWM of the historical Missouri riverbed. Additionally, the memo provides a summary of our research into secondary legal jurisdictions that have discussed or commented on the appropriate methodology for determining an OHWM.

North Dakota Case Law

The following is a summary of North Dakota cases regarding the law of OHWM relevant to the validity of the method for determining the OHWM:

1. <u>Rutten v. State</u>, 93 N.W.2d 796 (N.D. 1958).

Rutten is the earliest found case in North Dakota where the state Supreme Court cites the test for determining the OHWM as first finding the location where a well-defined line shows the difference between the bed and the bank and then, in areas where the bank is low and flat, look to the change in vegetation where ordinary agricultural crops cannot grow:

> 'High-water mark' means what its language imports—a water mark. It is co-ordinate with the limit of the bed of the water, and that only is to be considered the bed which the water occupies sufficiently long and continuously to wrest it from vegetation, and destroy its value for agricultural purposes . . . . In some places, however, where the banks are low and flat, the water does not impress on the soil any well-defined line of demarcation between the bed and the banks.
>
> In such cases the effect of the water upon vegetation must be the principal test in determining the location of high-water mark as a line between the riparian owner and the public. It is the point up to which the presence and action of the water is so continuous as to destroy the value of the land for agricultural purposes by preventing the growth of vegetation, constituting what may be termed an ordinary agricultural crop.

93 N.W.2d at 799. (quoting *Tilden v. Smith*, 113 So. 708 (Fla. 1927) & citing 56 Am. Jur., *Waters*, § 57; C.J., *Waters*, Ch. IV; 93 C.J.S. *Waters* § 103; 9 C.J., *Boundaries*, § 74; 11 C.J.S. *Boundaries* § 32; 45 C.J., *Navigable Waters*, § 191; 65 C.J.S. *Navigable Waters* § 81; *Anderson v. Ray*, 156 N.W. 591 (S.D. 1916).

2. State ex rel. Sprynczynatyk v. Mills, 592 N.W.2d 591 (N.D. 1999).

Plaintiffs appealed from a judgement determining the OHWM of the Missouri River. *Sprynczynatyk*, 592 N.W.2d at 592. The North Dakota Supreme Court held that the trial court did not err in determining the OHWM based upon the current condition of the river. *Id*. The Court ruled that the OHWM is ambulatory, and is not determined as of a fixed date. *Id.* (citing *In re Ownership of the Bed of Devils Lake*, 423 N.W.2d 141, 143–44 (N.D. 1988).

The determination of the OHWM "is a finding of fact, reviewable on appeal under the 'clearly erroneous' standard of N.D. R. Civ. P. 52(a)." *Id.* at 594 (citing *U.S. v. Southern Inv. Co.*, 876 F.2d 606, 611 (8th Cir. 1989)). "A finding of fact is clearly erroneous only if it is induced by an erroneous view of the law, if no evidence exists to support it, or if, upon review of the entire evidence, we are left with a definite and firm conviction that a mistake has been made." *Id.* (citing *Wachter Development, L.L.C. v. Gomke*, 579 N.W.2d 209 (N.D. 1998)).

For delineating the OHWM, the Court cited to factors listed in *In re Ownership of the Bed of Devils Lake* from the case *Rutten v. State*:

> 'High-water mark' means what its language imports—a water mark. It is co-ordinate with the limit of the bed of the water; and that only is to be considered the bed which the water occupies sufficiently long and continuously to wrest it from vegetation, and destroy its value for agricultural purposes . . . . In some places, however, where

> the banks are low and flat, the water does not impress on the soil any well-defined line of demarcation between the bed and the banks.
>
> In such cases the effect of the water upon vegetation must be the principal test in determining the location of high-water mark as a line between the riparian owner and the public. It is the point up to which the presence and action of the water is so continuous as to destroy the value of the land for agricultural purposes by preventing the growth of vegetation, constituting what may be termed an ordinary agricultural crop.

Id. (citing 423 N.W.2d at 144–45 (quoting *Rutten v. State*, 93 N.W.2d 796, 79 (N.D. 1958))).

While the delineation of the OHWM was based on existing conditions, and not a historical review, the Court upheld the trial court's decision based on evidence presented by the State in the record that there was a "well-defined, obvious embankment where the water reaches its highest point, at the western edge of Riverwood Drive." *Id.* In addition, expert testimony in the record showed the "soil and vegetation change dramatically at that point." *Id.*

3. <u>In re Ownership of Bed of Devils Lake</u>, 423 N.W.2d 141 (N.D. 1988).

The State appealed a finding concerning the ownership of the bed of Devils Lake. The trial court found that expert opinions "indicate that the ordinary high water mark of Devils Lake at statehood was approximately 1,426 feet above mean sea level." *In re Ownership of Bed of Devils Lake*, 423 N.W.2d at 142.

On review, the North Dakota Supreme Court commented on the evidence considered by the trial court as a basis for upholding the trial court's findings as to the OHWM of Devils Lake:

> In this case, however, evidence was introduced to show an ordinary high water mark. There was expert testimony that 'based upon vegetation lines and strand lines' an ordinary high water mark is determinable; that the boundary of Devils Lake is 'an ambulatory boundary;' that there is a 'major change at the shoreline' at 1,426.2 feet above mean sea level; that there is a significant strand line at 1,426 feet; that the best evidence of long-term stability is at a level of 1,423 to 1,426 feet above mean sea level; and that there are no trees below 1,423 feet and there are fifty to sixty year-old trees in the area of 1,426 feet. In our view the evidence of an ordinary high water mark at an elevation of 1,426 feet above mean sea level is sufficient to establish an ordinary high water mark at that level and to warrant application of the doctrine of reliction. The evidence of fifty to sixty year-old trees at an elevation of 1,426 feet is particularly persuasive.

Id. at 145.

IN DISTRICT COURT, BURLEIGH COUNTY, STATE OF NORTH DAKOTA

State of North Dakota, ex rel David Sprynccnatyk, North Dakota State Engineer,
Plaintiff

Memorandum Decision & Order
Civil No. 91-C-1669

Vs.

William R. Mills, etal.,
Defendants

The trial of this case was heard on the 3rd day of February, 1998 in Bismarck, ND. The plaintiff was represented by Mr. Charles Carvell, Assistant Attorney General for the State of North Dakota, and the defendant appeared pro se on behalf of himself and the other named defendants, which are family members or business entities of the defendant.

The litigation has been pending for many years. This court issued summary judgment pursuant to Rule 56 of the North Dakota Rules of Civil Procedure, holding the State of North Dakota was the absolute owner of the land between the ordinary high water mark and the ordinary low water mark, otherwise described as the "shore zone". The defendants appealed that ruling to the North Dakota Supreme Court, and that court reversed, holding that neither party held absolute ownership of the shore zone, and remanded the case to the this court for further proceedings in accorance with the mandate. State of North Dakota ex rel David Sprynccnatyk, North Dakota State Engineer v. William R. Mills, etal. 523 NW2d 537 (ND 1994).

After a pretrial conference, the issues were narrowed to just one for the court to

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DISTRICT COURT CHAMBERS
Northeast Central Judicial District
Grand Forks, North Dakota 58201

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determine: what is the ordinary high water mark on the property in question? The issue is ripe for determination because the shore zone must be established in order to determine the correlative rights of the parties therein, and there is disagreement between the parties as to the location of this mark.

The defendant's position has always been that he owns absolutely to the low water mark in accordance with the dictates of NDCC section 47-01-15. That contention, however, was rejected by the North Dakota Supreme Court, holding that NDCC section 47-01-15 was a rule of construction, and was not, in itself, a grant of ownership to the riparian owner. Id. at 542.

The defendant has also argued that the pre-Garrison Dam water flows and stream bed locations should be used in determining what the ordinary high water mark is at this time. However, the court ruled in a pre-trial motion proceeding that the relevant time frame would be the post-dam period since the building of the dam has so significantly changed the nature of the river's flows and shifting bed that it would be virtually impossible to reconstruct the ordinary high water mark based on "natural conditions" that are gone forever. The determination of the ordinary high water mark, as presently constituted, can only be determined on the basis of present conditions, whether or not such conditions have been altered by man-made structures. See J.P. Furlong Enterprises, Inc. V. Sun Exploration & Production Co., 423 NW2d 130 (ND 1988). Furthermore, the ordinary high water mark may again change over time, due to natural and artificial occurrences. To limit, or freeze, the ordinary high water mark to a point sometime in the past would be unrealistic and impracticable. This position has been rejected by the North Dakota Supreme Court in the case of In Re Ownership of the Bed of Devils Lake, 423 NW2d 141 (ND 1988). The mark is ambulatory.

The defendant also advanced the argument that the land in question constitutes accretion to his land, and is considered above the ordinary high water mark pursuant to NDCC section 61-33-01(3). That section, however, applies to accretions pursuant to NDCC section 47-06-05. That section provides that:

"Where from natural causes land forms by imperceptible degrees

> upon the bank of a river or stream, navigable or not navigable, either by accumulation of material or by the recession of the stream, such land belongs to the owner of the bank, subject to to any existing right of way over the bank."

There are two requirements that must be met in order for defendant to be successful in his argument. First, the accretion must be from "natural causes"; and second, it must form upon the "bank" of the river.

At the time of trial, there was no evidence presented by the defendant to the effect that the land in question was an accretion, or that it had formed by natural causes. To the contrary, the evidence suggests that to the extent that the land has accreted, temporarily or otherwise, it is due in large part to the dumping of debris at the north end of the property, apparently the result of defendants' building activities elsewhere in the immediate area. Also, there is no proof that the land at issue has formed on the bank of the river. That is precisely the issue in this litigation. It is a settled principle of law that to establish title to accretions, the claimant must show that said accretions were formed by deposits against the highland. 78 AmJur2d, Waters, section 408. See also Hogue v. Bourgois, 71 NW2d 47 (ND 1955), holding that the state is the owner of accretions to islands located in the bed of the river. Hence, just because a piece of property may constitute an accretion, it does not necessarily mean that it is attached to the bank or the highland. The court concludes that NDCC section 61-33-01(3), cannot be interpreted to give defendant title to the disputed land simply because it may constitute an accretion. The said statute was never intended to change the law as it relates to the State of North Dakota's interest in sovereign lands as it existed before the adoption of the amendment to the statute in 1991 (see H.B. 1471), which added the provision concerning accretions. The amendment was simply for the purpose of assuring landowners who were occupying and farming accreted land that the state was not making a claim to their property--land that had clearly been added to the bank by natural causes and was above the high water mark. That amendment cannot be construed as an attempt by the legislature to give away its sovereign interest in the lands which lie below the ordinary high water mark.

Part of the difficulty caused in this area is due to the nature of accretions. In the

Missouri River near Bismarck, the riverbank undulates over time. Sandbars migrate downstream, sometimes attaching to the highland, sometimes not. Usually, and by definition, accretion happens imperceptibly. It is a natural process that any river experiences over time, but until the accretion rises above the ordinary high water mark, the title does not vest in the riparian owner. Borough of Ford City v. United States, 345 F.2d 645 (3rd Cir. 1965); Nelson v. Stratbucker, 325 NW2d 391 (Iowa 1982).

This court must determine the location of the ordinary high water mark. This determination will declare the boundary of the bank, or upland, and declare the rights of the parties to that extent. There is no other issue before the court at this time, although there was a preliminary decision that the issue of mineral rights in the shore zone would also be decided in this litigation. The court later held, at the final pre trial conference, that the additional issue of mineral rights was not ripe for determination, nor any other correlative rights of the parties in the shore zone. The only issue ready for inquiry based on the pleadings and pretrial proceedings is the location of the ordinary high water mark on the property affected by the litigation, namely:

> Tracts 1A, 1B, and 1C, platted as parts of Sections 7 and 8 of Township 138 N., R. 80 W. of the 5th P.M., contained in the Plat received in evidence as Plaintiff's Exhibit 4, and otherwise known as a portion of Southport Addition to the City of Bismarck, ND.

The plaintiff presented testimony from Cary Backstrand, David Wroblewski, Mike Brand and Don Peterson, together with exhibits 1 through 6. The defendant presented testimoney from Russell Harkness and exhibits 7 through 15, together with the transcript from the motions hearing held on October 24, 1996(item 109 in the file), appellant's responsive brief dated July 3, 1997(item 114 in the file), defendant's brief with attachments filed March 31, 1997(item 108 in the file), defendant's brief dated June 23, 1997(item 110 in the file), and defendant's responses to plaintiff's interrogatories, set 2, with attachments. The latter items offered by the defendant from the file do not contain evidence per se, but are in the nature of argument. The material is mostly duplicates of

information already contained in defendants' exhibits.

Essentially, the defendant contends that the pre-dam flows of 20,000 cfs should determine the ordinary high water mark, and that would translate into a figure of 1624 feet at the Bismarck gage. See defendant's exhibit 11. The ordinary high water mark cannot be established by "average flows", or a point on the gage at any given place. The Missouri river has changed its channel over the years in this area, subjecting the banks to erosion and accretion. The current course of the channel cannot be predicated on what the pre-dam flows might have "averaged". There is absolutely no evidence that the channel of the river would be different today if the Garrison Dam had not been built. It is just as reasonable to assume that the moody channel would have experienced more severe swings, and that areas subjected to frequent flooding would have been much greater than is currently seen. The problem with defendant's argument is that it is not supported by the evidence, has no relevance to determining ordinary high water mark at this time under federal and state standards, and fails to establish any geographical reference for the court. This litigation has been pending for 7 years. The defendant has had ample opportunity to support his theories with evidence, but the evidence is missing, and in its place is a litany about "bank robbery" by the federal and state authorities. Defendant may have a cause of action under theories of inverse condemnation, but that is not the focus of this action.

In defendants' exhibit 11, there is a portion of the federal code of regulations dealing with the definition of "ordinary high water mark". It is contained in 33 CFR 323.2(f):

> "The term 'ordinary high water mark' means that the line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed upon the bank; shelving; changes in the character of the soil; destruction of terrestial vegetation; the presence of litter and debris; or other appropriate means that consider the characteristics of the surrounding areas."

North Dakota has a definition of "ordinary high water mark" found in the case of Rutten v. State, 93 NW2d 796,799 (ND 1958):

> "'High-water mark means what its language imports--a water mark. It is co-ordinate with the limit of the bed of the water; and that only is to be considered the bed which the water occupies sufficiently long and continuous to wrest it from vegetation, and destoy its value for agricultural purposes...In some places, however, where the banks are low and flat, the water does not impress on the soil any well-defined line of demarcation between the bed and the banks.
>
> "In such cases the effect of the water upon vegetation must be the principal test in determining the location of high-water as a line between the riparian owner and the public. It is the point up to which the presence and action of the water is so continuous as to destroy the value of the land for agricultural purposes by preventing the growth of vegetation, constituting what may be termed an ordinary agricultural crop."

The plaintiff has the burden of proof. As noted above, the plaintiff presented witnesses and exhibits to support its contentions. First, Mr. Cary Backstrand testified. He has been a registered engineer for the North Dakota State Water Commission since 1979. He testified that the ordinary high water mark on the property in issue is located on the west edge of Riverwood Drive, which is a generally north-south roadway adjacent to the golf course. Tracts 1A, 1B, and 1C constitute about 62 acres, more or less, as shown in plaintiff's exhibit 4.

Backstrand testified that the area to the west of Riverwood Drive has flooded from time to time, and has also been dry periodically. The sandbar on the north end of the property closed in the 1970's. No crops have been grown on the property, although hay was harvested once in the 1990's. He testified that sometimes the land is wet all year, and that has been the case since 1995.

He went to testify that the area has not changed significantly since 1968, and he based this on his observations personally and also photographs that have been taken over

the years.

His opinion that the ordinary high water mark was located on the west edge of Riverwood Drive was based on the shelf that starts at that point, with the land rising 4-6 feet at that point, creating a shelf to the east. He also based his opinion on the sandy nature of the soil; the aquatic type vegetation that grows there, which is typical of a wetland shore zone; the change in vegetation to the east, where upland plants take hold; the lack of crops grown there; and the fact that it was customary for the water to reach that height.

Next, Mr David Wroblewski testified. Mr. Wroblewski is a soils expert and a consultant. He testified concerning a soils survey that he conducted on the property in August 1995. He said that the soils were poorly drained, and soil stratification was indicative of frequent flooding. The majority of the soils were in classes 7 and 8. Class 1 is the best type of soil, and class 8 is the worst. The ratings were assigned by Wroblewski to the property primarily on the basis of the wetness, and the inability to use the land for any productive purpose. The golf course to the east contains good soil, and he termed this area the "terrace". Soil there would be classified as 3 or 4, and usable for cropland. On the other hand, the property at issue was classified as a "floodplain".

Next, Mr. Mike Brand testified for the plaintiff. He is with the North Dakota Land Department, and his duties include the identification of boundaries. He has an expertise in determining the ordinary high water mark on properties since this mark constitutes the boundary between the riparian owner and the state's sovereign interest in the riverbed. He prepared a comprehensive report, which was received in evidence as plaintiff's exhibit 6. The report contains a number of photographs that are particularly helpful in showing the land in a somewhat dry condition, and the same property during high water.

It was Brand's opinion that the ordinary high water mark was on the western edge of Riverwood Drive. The property to the west of Riverwood Drive was characterized by gray soils, which are commonly found in flooded areas. The water table was very close to the surface (within a foot or so), and the only area that supported grasses that were at least baled during one season (as evidenced by an old hay bale) was located close to

Riverwood Drive. The vegetation in the area was predominantly a wetlands type. The land flooded frequently.

Brand also testified that the north end of the sand bar completed the closing process in 1984 by reason of the rubble pile that was placed there. Hence, the process of accretion was aided significantly by man made conditions.

Don Peterson, a banker-farmer-agricultural extension agent, testified that the land was not reliable or useful for agriculture. Even fencing would be difficult to install and maintain. The saturated soil would make it difficult for cattle to walk on it and the usual pasture grasses usable for grazing would not grow on the property. Cattle would suffer foot rot from walking on the wet ground. Row crops would not grow in this environment, and the property could not be included in a farm plan for purposes of obtaining credit. He concluded that the land west of Riverwood Drive was not useable for agricultural purposes.

The court finds that from the aerial photographs, the ordinary high water mark can also be observed. That point follows the western edge of Riverwood Drive. The aquatic vegetation predominates below that line, and the land rises about 5 feet at the point, and to the east, upland type vegetation and the tree line starts. The land to the west of Riverwood Drive cannot be used for agricultural purposes, and is especially unsuited for any ordinary crop. The preponderance of the evidence supports the plaintiff's contention that the land is not even useful for grazing purposes. No crops can be grown, and the land has no economic usefulness in forming a farm plan for agricltural credit purposes. "Crops" must be considered as those other than an occasional use for haying. The evidence indicates that the area immediately adjacent to Riverwood Drive on the west side was hayed one year, but that alone would not suffice to change the result. The term "ordinary agricultural crop" used in Rutten v. State, 93 NW2d 796 (ND 1958), requires a greater showing. The Idaho courts have held that the land's usefulness for livestock is not determinative of the issue. But the evidence in this case is that the land is not even useful for grazing, and the one instance of haying a small portion of the easternmost portion of the property is not sufficient to establish its use for that purpose. Don Peterson's

testimony in this regard was particularly relevant.

The defendants' evidence centers around statistical data, as idicated above. Mills argues that the ordinary flow of the river. pre-dam, is about 20,000 cfs, and that the river level at that flow would equal 1,624 feet elevation at the Bismarck gage. See defendants' exhibit 11. But the use of statistics is not useful in determining ordinary high water mark locations, using either the federal test, cited by the defendants, or the standard set forth in Rutten v. State, infra. The Rutten court held that statistical evidence as to the height of water during different years, without knowing the mark left on the soil, or their elevations, is not useful in determining the location of the ordinary high water mark, which is the line the water "impresses on the soil as the limits of its dominion." Id. at 799.

Such is the case here. The defendant's evidence is not persuasive and does not overcome the evidence submitted by the plaintiff.

The court therefore finds that the ordinary high water mark on the property in issue is the western edge of Riverwood Drive located in Bismarck, North Dakota

IT IS SO ORDERED. Counsel for plaintiff shall draft the necessary findings of fact, conclusions of law, order for judgment and judgment to conform with this memorandum decision.

Dated this 16th day of March, 1998.

BY THE COURT:

Bruce Bohlman

Bruce E. Bohlman, District Judge

cc: Charles Carvell
William Mills

STATE OF NORTH DAKOTA

COUNTY OF BURLEIGH

IN DISTRICT COURT

SOUTH CENTRAL JUDICIAL DISTRICT

State of North Dakota ex rel. David Sprynczynatyk, North Dakota State Engineer,

Plaintiff,

v.

William R. Mills, et al.,

Defendants.

FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER FOR JUDGMENT

Civil No. 91-C-1669

Upon consideration of the evidence presented at the February 3, 1998, trial, and the arguments of the parties, the court makes the following:

FINDINGS OF FACT

1. At issue is the location of the ordinary high watermark on the land in question.

2. Neither Plaintiff nor Defendants gave a metes and bounds description of the land in dispute. Exhibit 4, however, adequately describes the land for the purposes of this litigation. It is, as depicted on Exhibit 4, Tracts 1A, 1B, and 1C. Tract 1A is in the NE¼ of Section 7, Township 138 North, Range 80 West. Tracts 1B and 1C are in the NW¼ of Section 8, Township 138 North, Range 80 West. All three tracts are in Burleigh County and lie just south of Bismarck/Mandan's Expressway Bridge. They comprise about 62 acres, more or less.

3. Tract 1C comprises the most eastern portion of the land and it is adjacent to a road known as Riverwood Drive. To the east of this road is Riverwood Golf Course.

4. Defendants contend that the land is above the ordinary high watermark because it is accreted land, relying upon N.D.C.C. § 61-33-01(3), which also refers to relicted land. While land west of the revetment that runs through

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about the middle of the property may have had its origins as accretion, it formed on the bed of the Missouri River as an island. It did not form on the river bank. Furthermore, the dumping of debris by Defendants in this area contributed in no small measure to the creation of this land. As for land east of the revetment, Defendants failed to present any evidence on the manner in which it was created. Even if it is accretion, Defendants failed to present any evidence whether it is accretion to the bed of the river or to the bank of the river.

5. Defendants assert that the ordinary high watermark of the Missouri River prior to closure of Garrison Dam was 20,000 cubic feet per second (cfs) and that such a flow places the ordinary high watermark at an elevation of 1,624 feet. The court has previously ruled that the ordinary high watermark is to be determined as it exists today and not as it may have existed before the presence of Garrison Dam. Thus, Defendants' position is inconsistent with the law of the case. Furthermore, there are serious factual problems with Defendants' position.

6. Defendants did not present an elevation survey of the land. Consequently, just where elevation 1,624 may be on the land is unknown.

7. Defendants failed to even prove how the 20,000 cfs benchmark was established and how it is tied to the 1,624 elevation. They made statements about such matters but offered no proof to substantiate them.

8. Defendants' stream flow data and elevation data, standing alone, do not aid determining location of the ordinary high watermark, which is defined by agricultural usefulness.

9. Plaintiff did present evidence on the location of the ordinary high watermark, and that evidence is substantial and persuasive. Plaintiff places the ordinary high watermark mark at the base of Riverwood Drive. The court agrees.

10. The land in dispute is low and flat. It is flooded each winter. It is subject to frequent flooding during other seasons. In fact, the land has been flooded continuously since the autumn of 1995, over two years. As a result of frequent flooding, its proximity to the flowing river, and the fact it is low and flat, the land has a high water table.

11. Witnesses with expertise in locating the boundary between the beds of navigable bodies of water and uplands place the ordinary high watermark at the base of the road that separates the land from the golf course.

12. The land has never been used as crop land. It has never been used as pasture land. It is not feasible to fence the land, and even if it were fenced, it is not healthy for livestock to be in an area with soils that are often saturated.

13. Although the land has been in existence for at least thirty years, only one occasion was identified on which the land was used as hay land. On that occasion at least some of the hay bales were not even removed.

14. The soil of the land is poorly drained and its stratification indicates frequent flooding, as does the gray color of the soil. Applying the standard soils classification system, the soils are "7" and "8," making them the poorest land possible for agricultural purposes. Soils just beyond this land, in the golf course, are useful for all agricultural purposes, including crop land. This abrupt change in soils helps to locate the ordinary high watermark.

15. Vegetation on the land is predominantly aquatic. At the road the vegetation abruptly changes from aquatic to upland species, also helping to identify the ordinary high watermark.

16. At the road, the elevation of the land makes a marked change, rising four to six feet. This is the riverbank.

17. There was persuasive testimony from an agricultural expert that the land is not useful for any agricultural purpose. This unreliability for any agricultural purpose prohibits it from being included in a farm management plan and used as security for farm credit.

18. Finally, aerial photos of the land and the areas adjoining it to the north and the south, make apparent, even to the layperson, the location or the ordinary high watermark. The tree line of the river valley forest identifies the ordinary high watermark. Along the tree line there is a clear change in the characteristics of the land.

19. The Missouri River has so effected the land in dispute, and continues to do so, that this land is still part of the bed of the river. The riverbank, the ordinary high watermark, is at the western edge of Riverwood Drive, the road bordering the property.

CONCLUSIONS OF LAW

1. While N.D.C.C. § 61-33-01(3) refers to accreted and relicted land, it does not award to or confirm in riparian landowners title of all accreted and relicted land. It confirms riparian title to land that has formed on the bank of a river. Defendants failed to present any evidence on how the land in dispute here was created. And even if it is assumed that the land is either accreted or relicted land, Defendants failed to present any evidence whether it formed on the riverbank. Having failed to make such proof, Defendants cannot rely upon N.D.C.C. § 61-33-01(3) to locate the ordinary high watermark.

2. The ordinary high watermark is defined by the agricultural usefulness test. Stream flow data and water elevation data standing alone are not helpful in determining the agricultural usefulness of land.

3. The land here does not have any agricultural usefulness. It cannot be used to grow crops. It cannot be used as pasture. It cannot with any degree of reliability or consistency be used as hay land.

4. The ordinary high watermark of the land is at the base or western most edge of Riverwood Drive, a road marking the eastern boundary of the land.

ORDER FOR JUDGMENT

IT IS HEREBY ORDERED:

1. On the land in question, that is, Tracts 1A, 1B, and 1C, as depicted on Exhibit No. 4, lying in Sections 7 and 8, Township 138 North, Range 80 West, Burleigh County, containing about 62 acres, more or less, the ordinary high watermark is located at the base or western most edge of Riverwood Drive, a road marking the eastern boundary of the land.

2. No costs are awarded.

LET JUDGMENT BE ENTERED ACCORDINGLY.

Dated this 24th day of March, 1998.

BY THE COURT

Bruce Bohlman

Bruce Bohlman, District Judge

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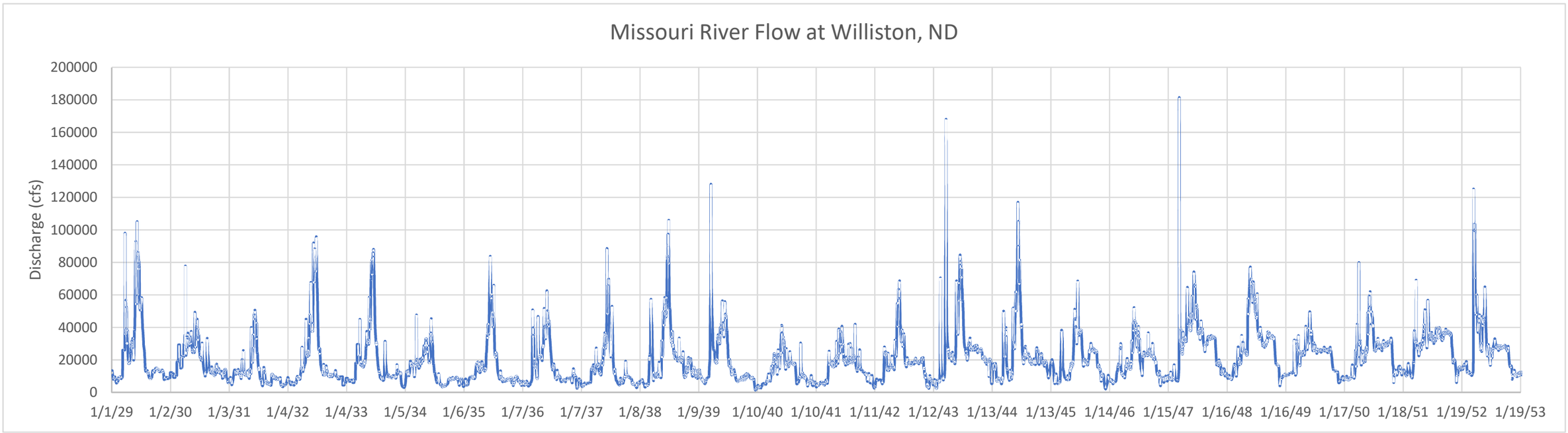
Appendix C

USGS Data (Flow Records)


Missouri River Flow at Williston, ND
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/29
1/2/30
1/3/31
1/4/32
1/4/33
1/5/34
1/6/35
1/7/36
1/7/37
1/8/38
1/9/39
1/10/40
1/10/41
1/11/42
1/12/43
1/13/44
1/13/45
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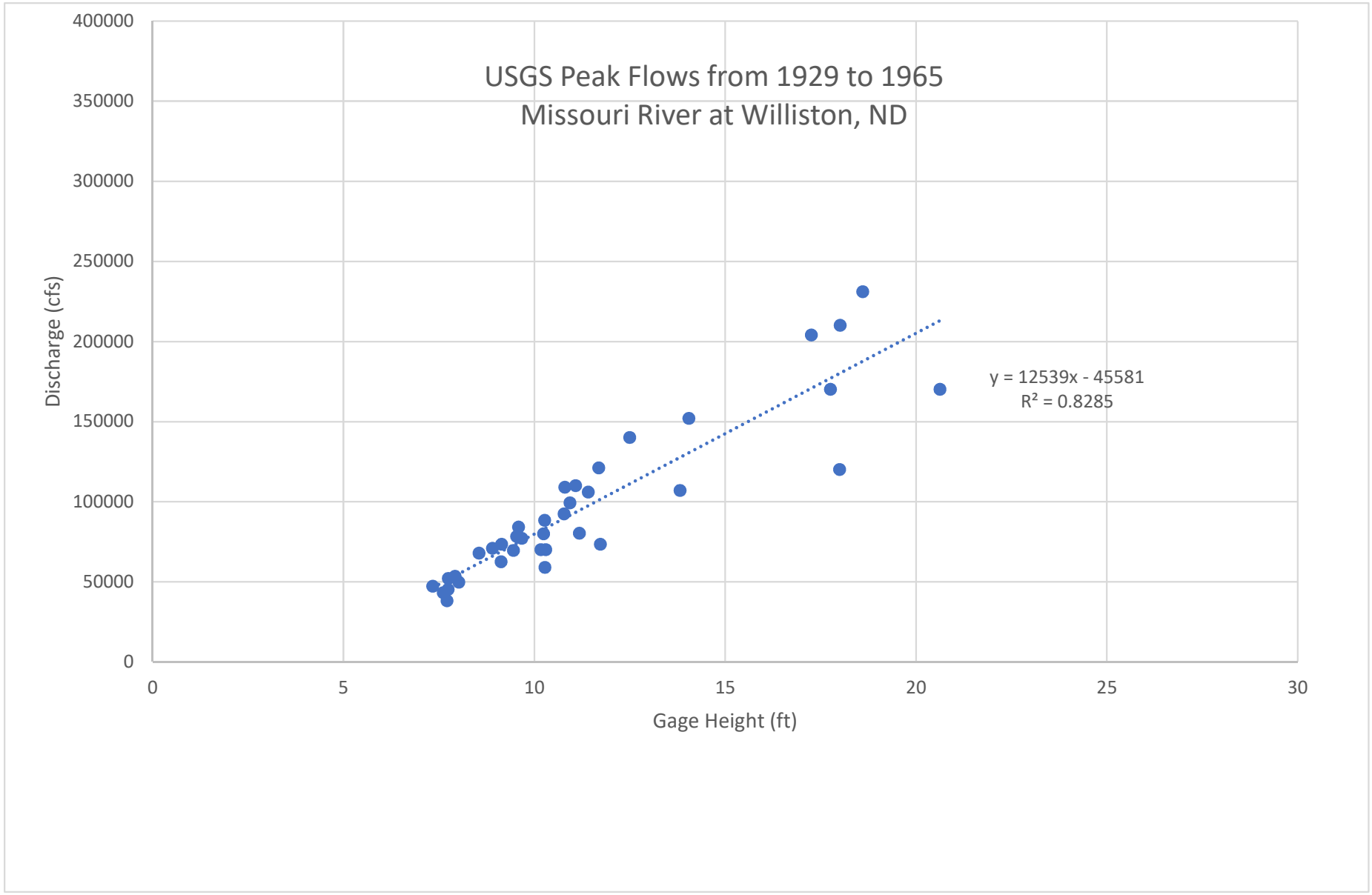
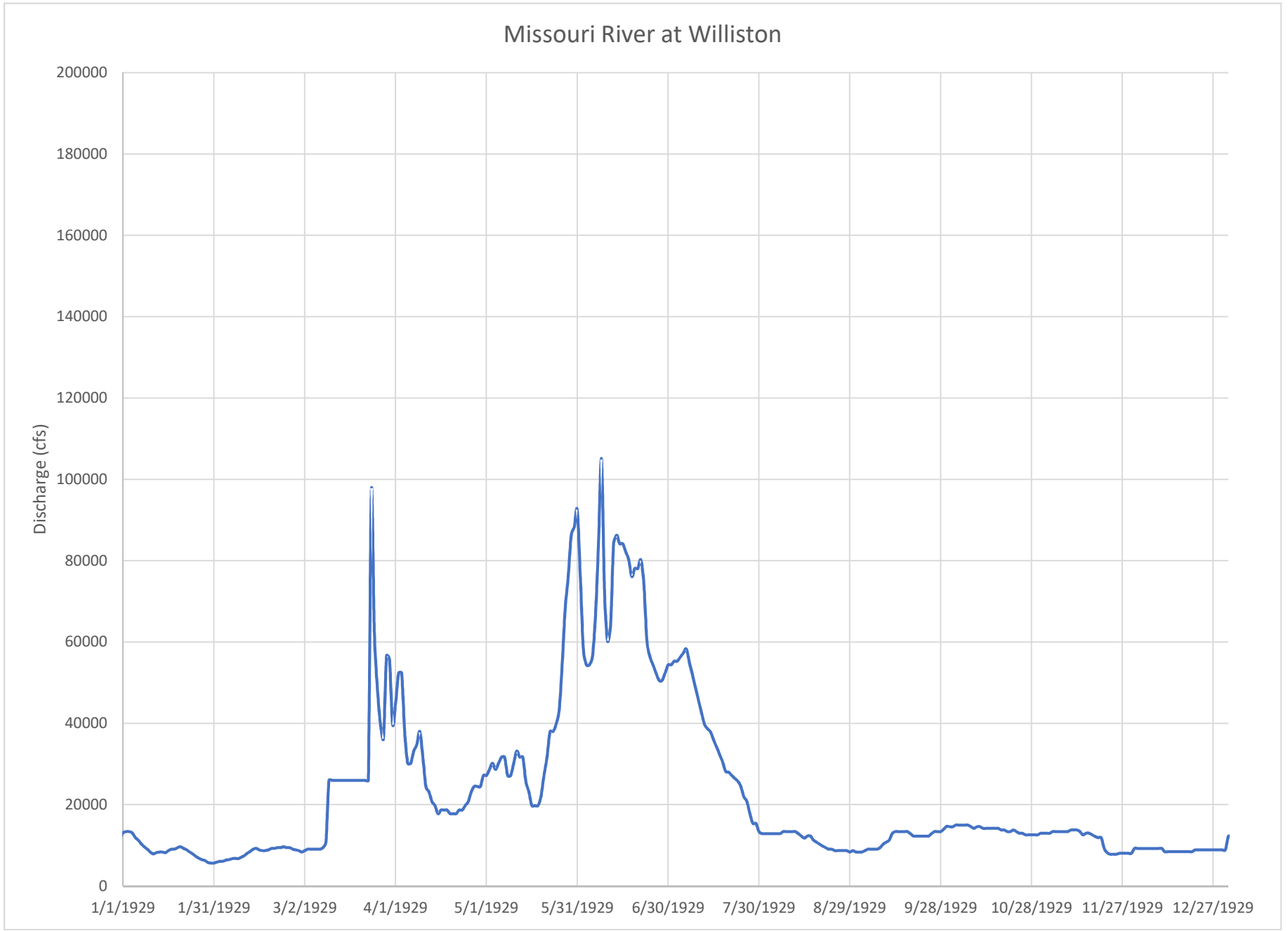
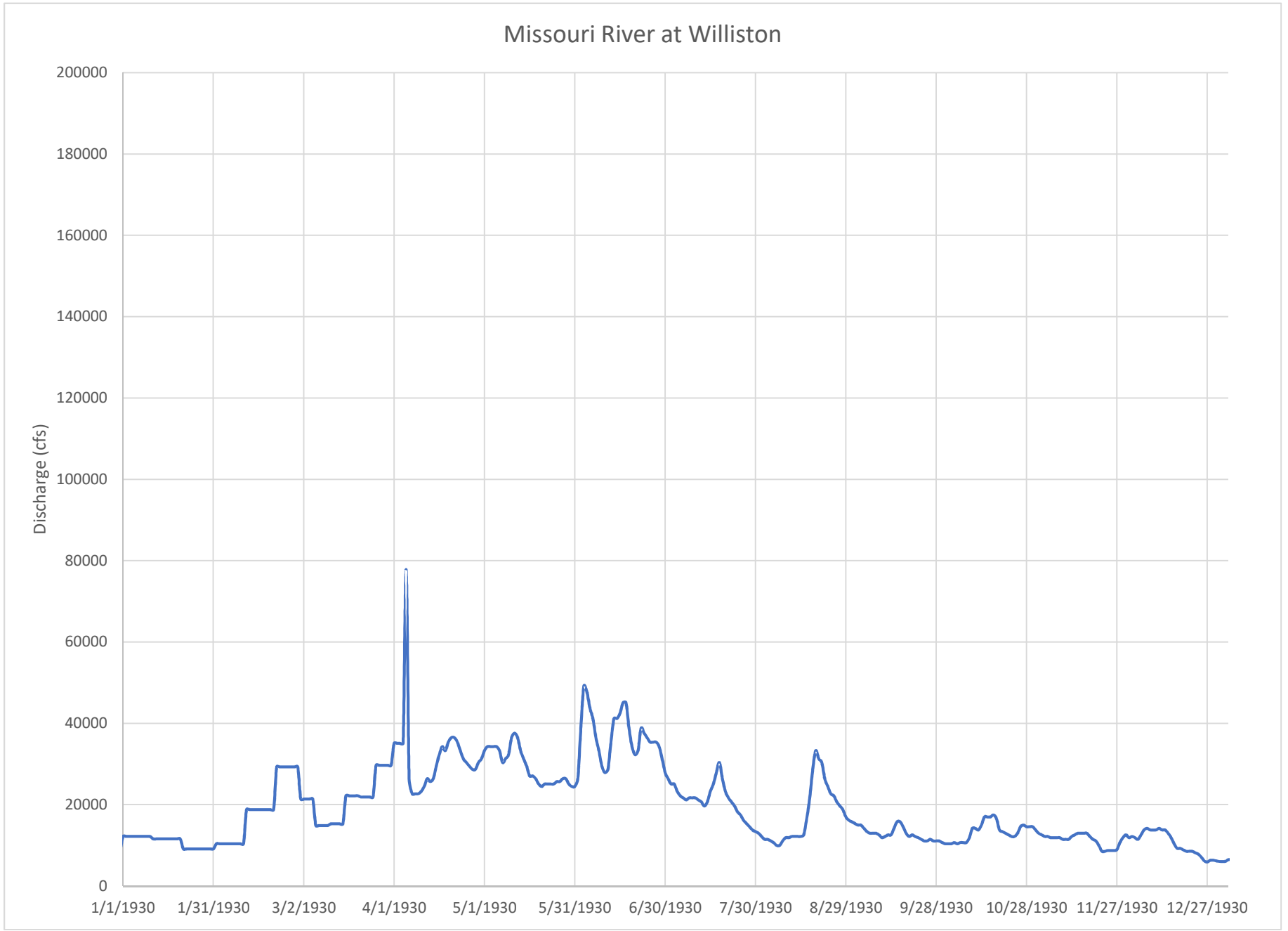
1/19/52
1/19/53


USGS Peak Flows from 1929 to 1965
Missouri River at Williston, ND
Discharge (cfs)
Gage Height (ft)
y = 12539x - 45581
R² = 0.8285
400000
350000
300000
250000
200000
150000
100000
50000
0
0
5
10
15
20
25
30


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1929
1/31/1929
3/2/1929
4/1/1929
5/1/1929
5/31/1929
6/30/1929
7/30/1929
8/29/1929
9/28/1929
10/28/1929
11/27/1929
12/27/1929


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1930
1/31/1930
3/2/1930
4/1/1930
5/1/1930
5/31/1930
6/30/1930
7/30/1930
8/29/1930
9/28/1930
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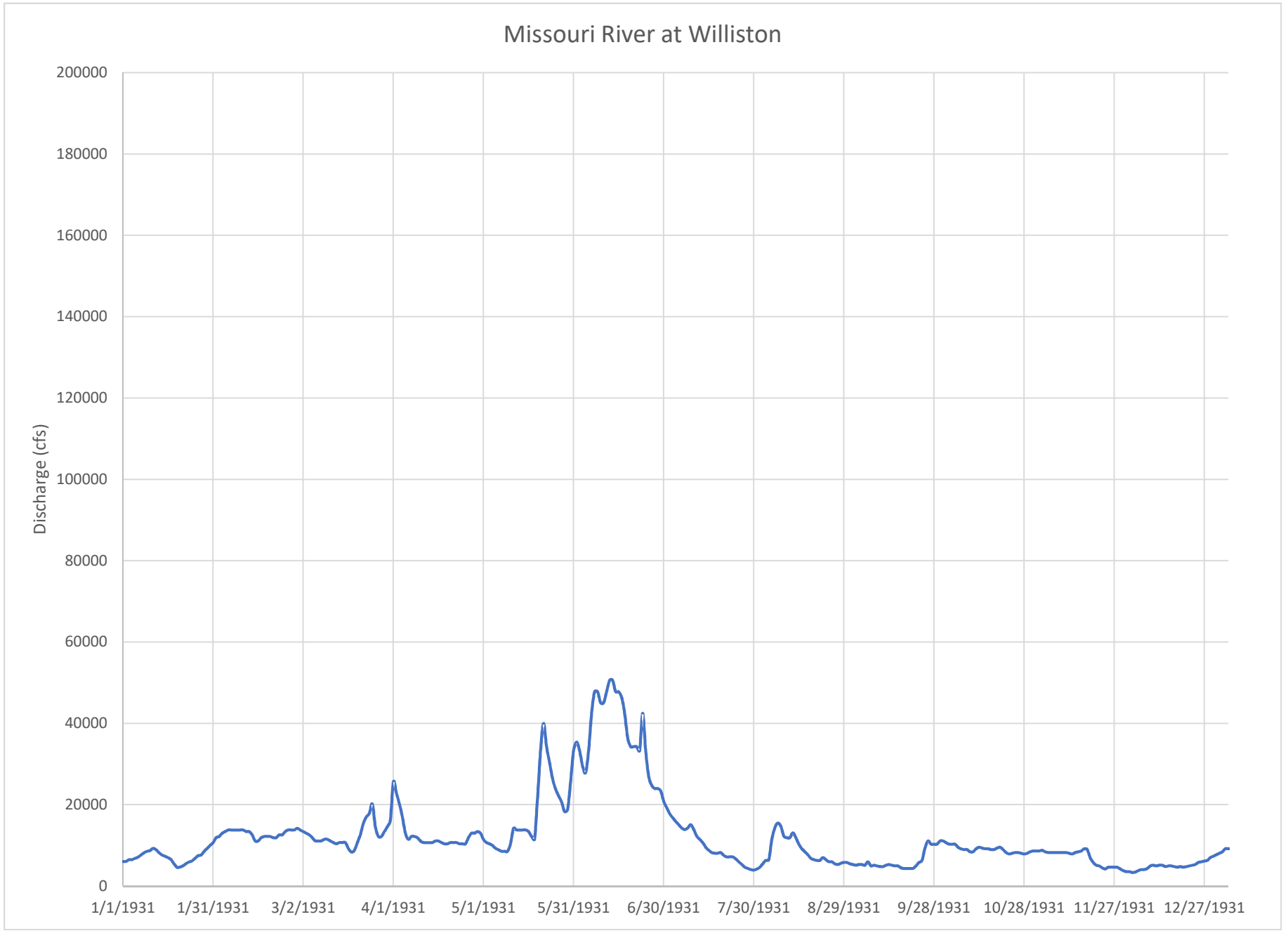
11/27/1930
12/27/1930


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1931
1/31/1931
3/2/1931
4/1/1931
5/1/1931
5/31/1931
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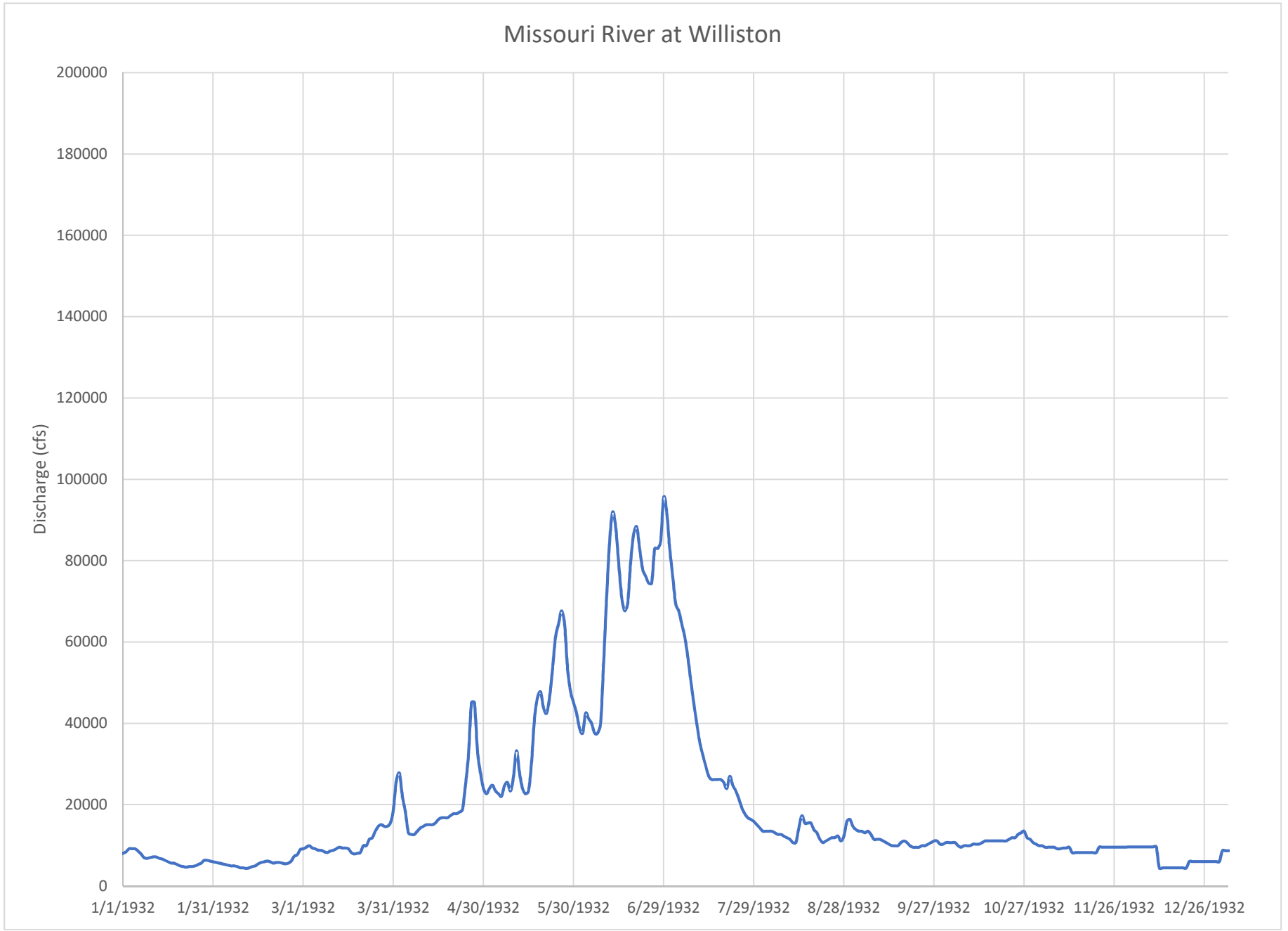
11/27/1931
12/27/1931


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1932
1/31/1932
3/1/1932
3/31/1932
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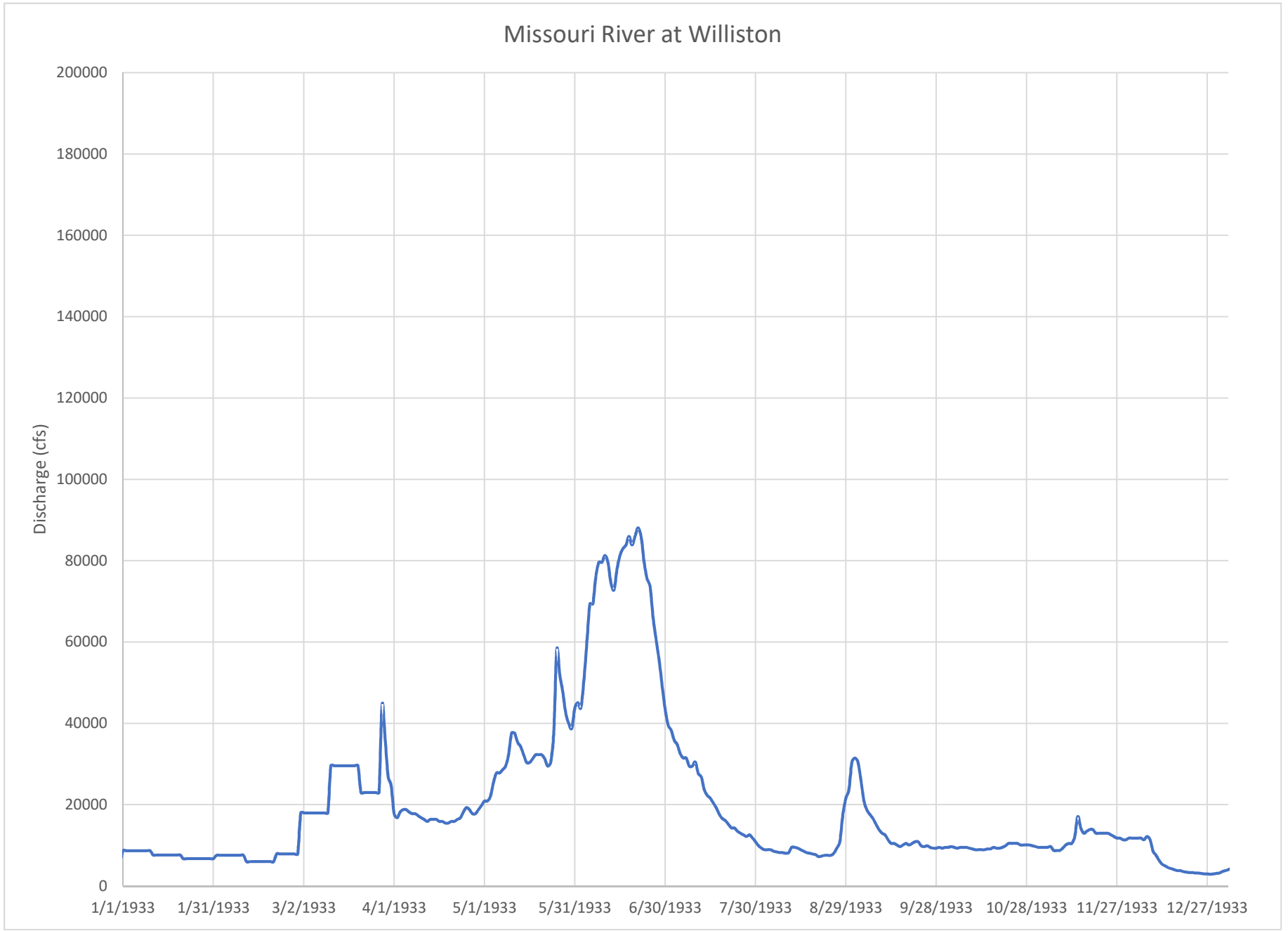
11/26/1932
12/26/1932


Missouri River at Williston
Discharge (cfs)
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180000
160000
140000
120000
100000
80000
60000
40000
20000
0
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1/31/1933
3/2/1933
4/1/1933
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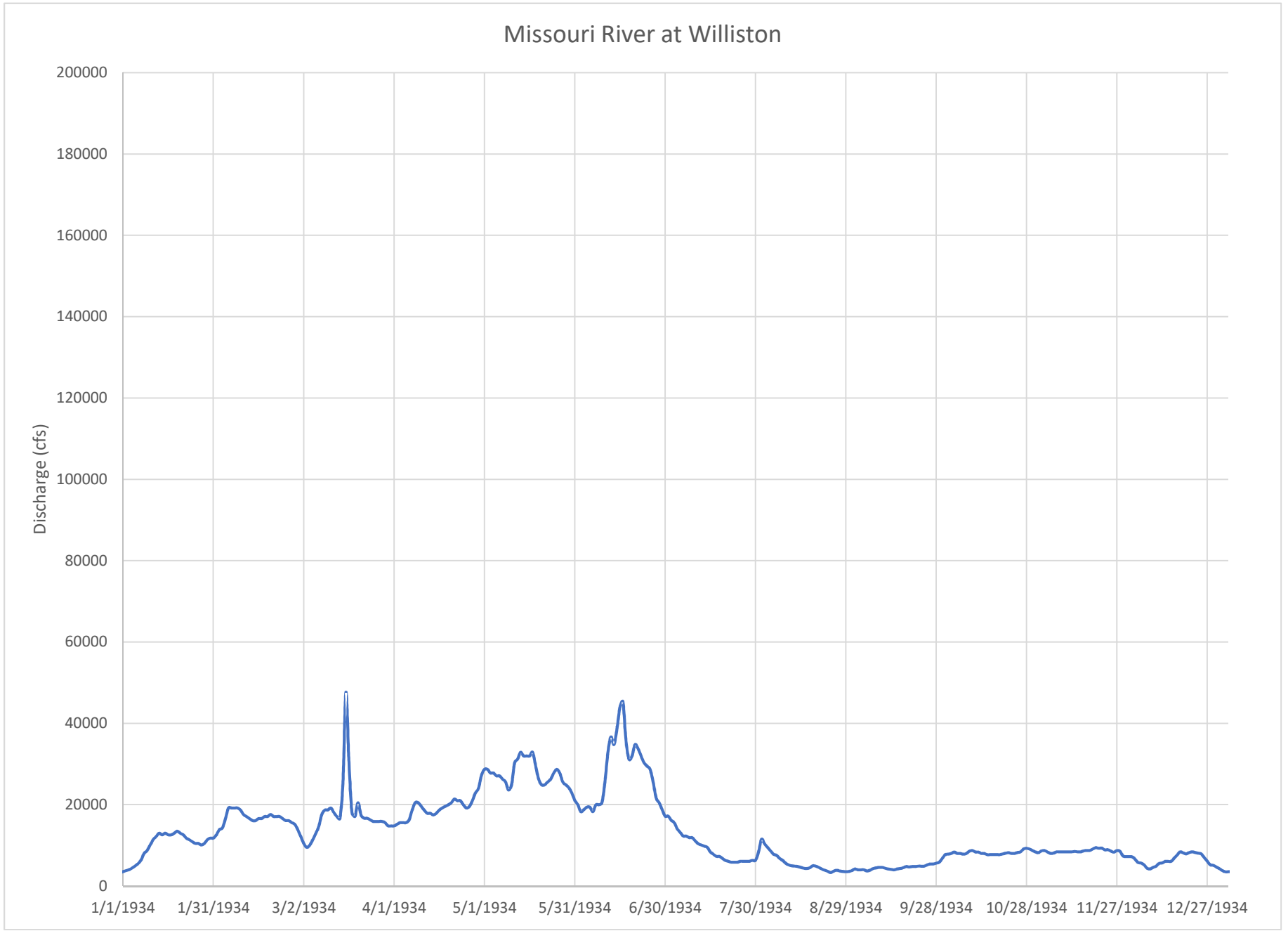
11/27/1933
12/27/1933


Missouri River at Williston
Discharge (cfs)
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180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1934
1/31/1934
3/2/1934
4/1/1934
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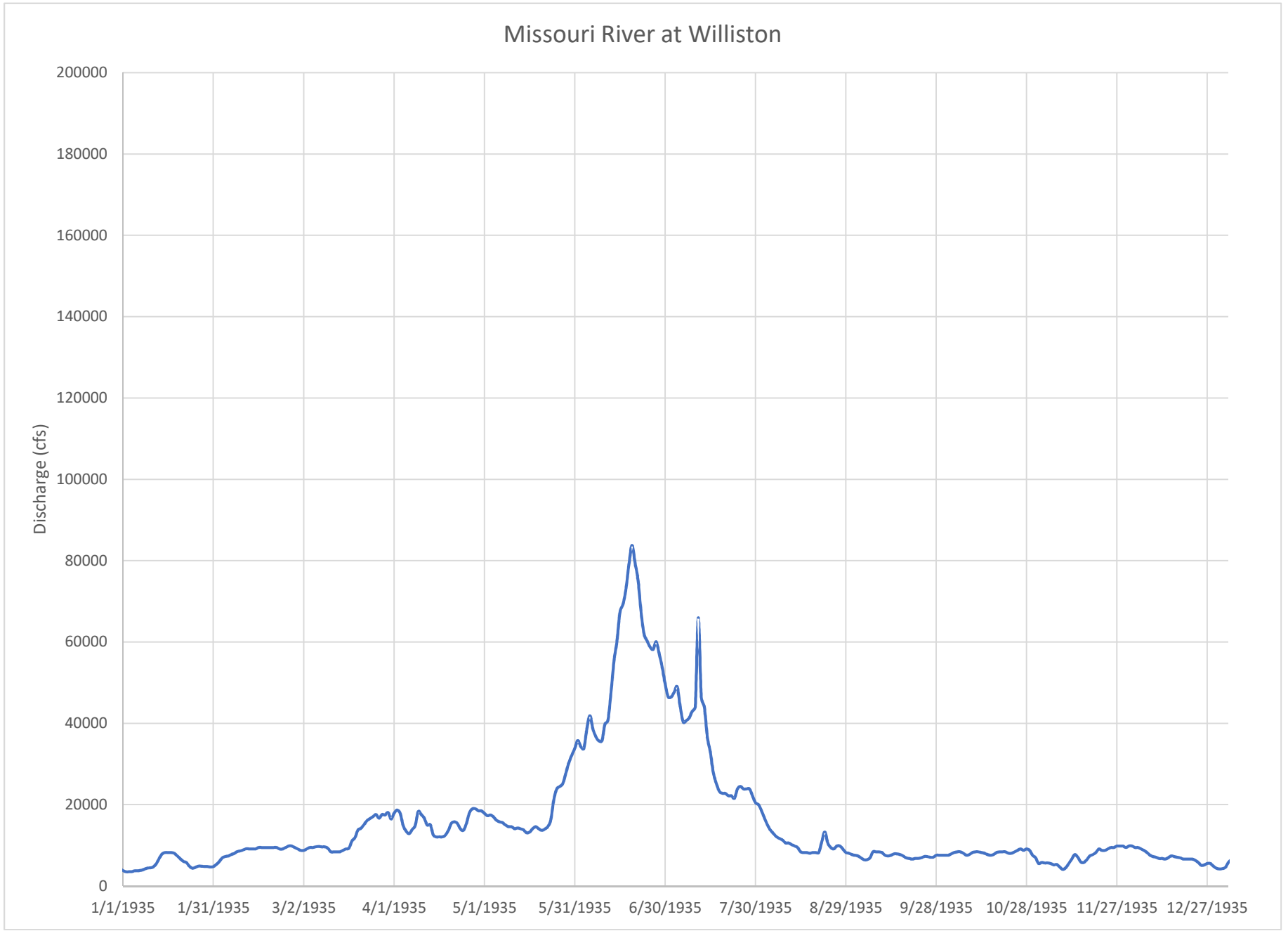
11/27/1934
12/27/1934


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1935
1/31/1935
3/2/1935
4/1/1935
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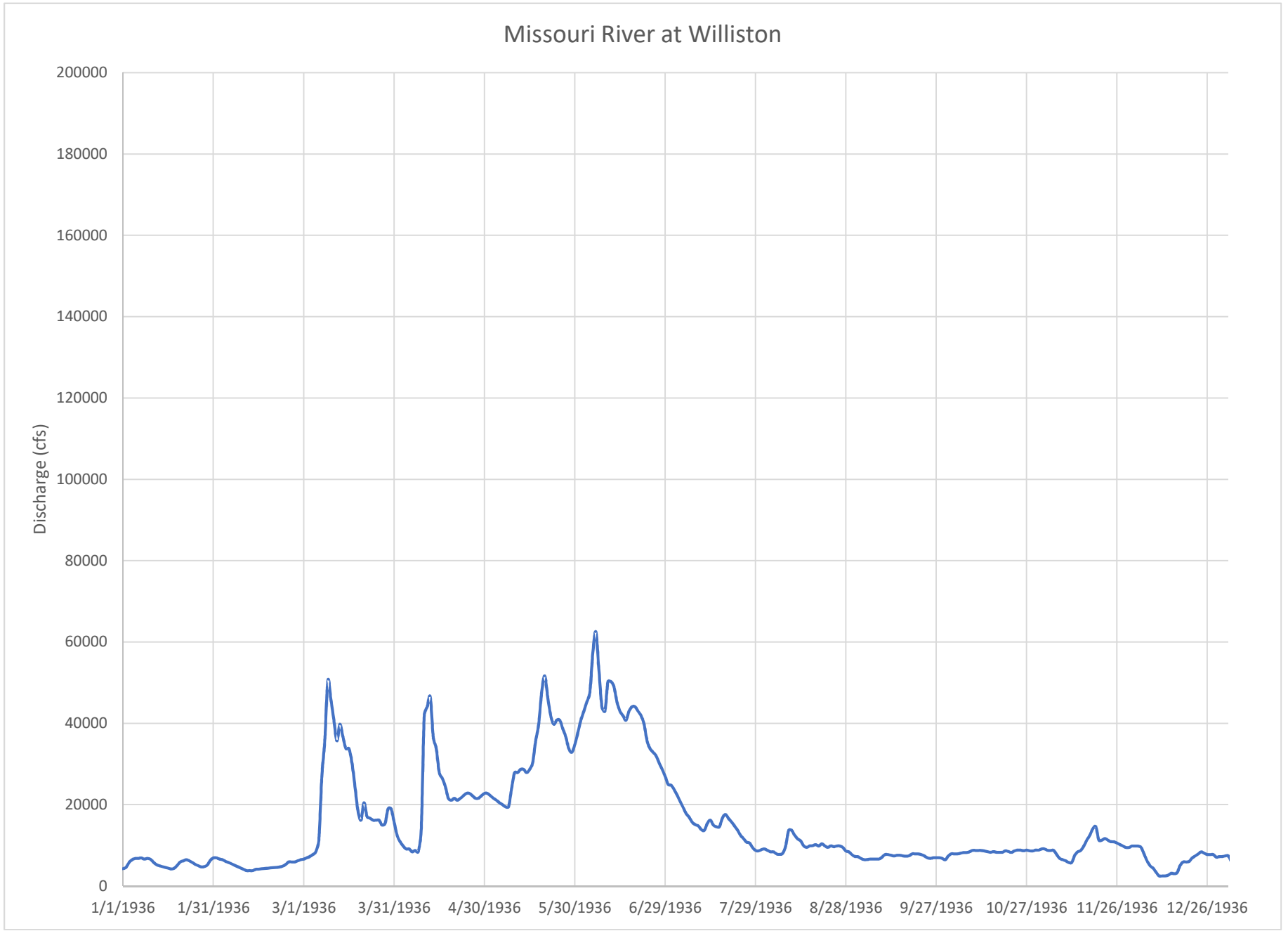
11/27/1935
12/27/1935


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1936
1/31/1936
3/1/1936
3/31/1936
4/30/1936
5/30/1936
6/29/1936
7/29/1936
8/28/1936
9/27/1936
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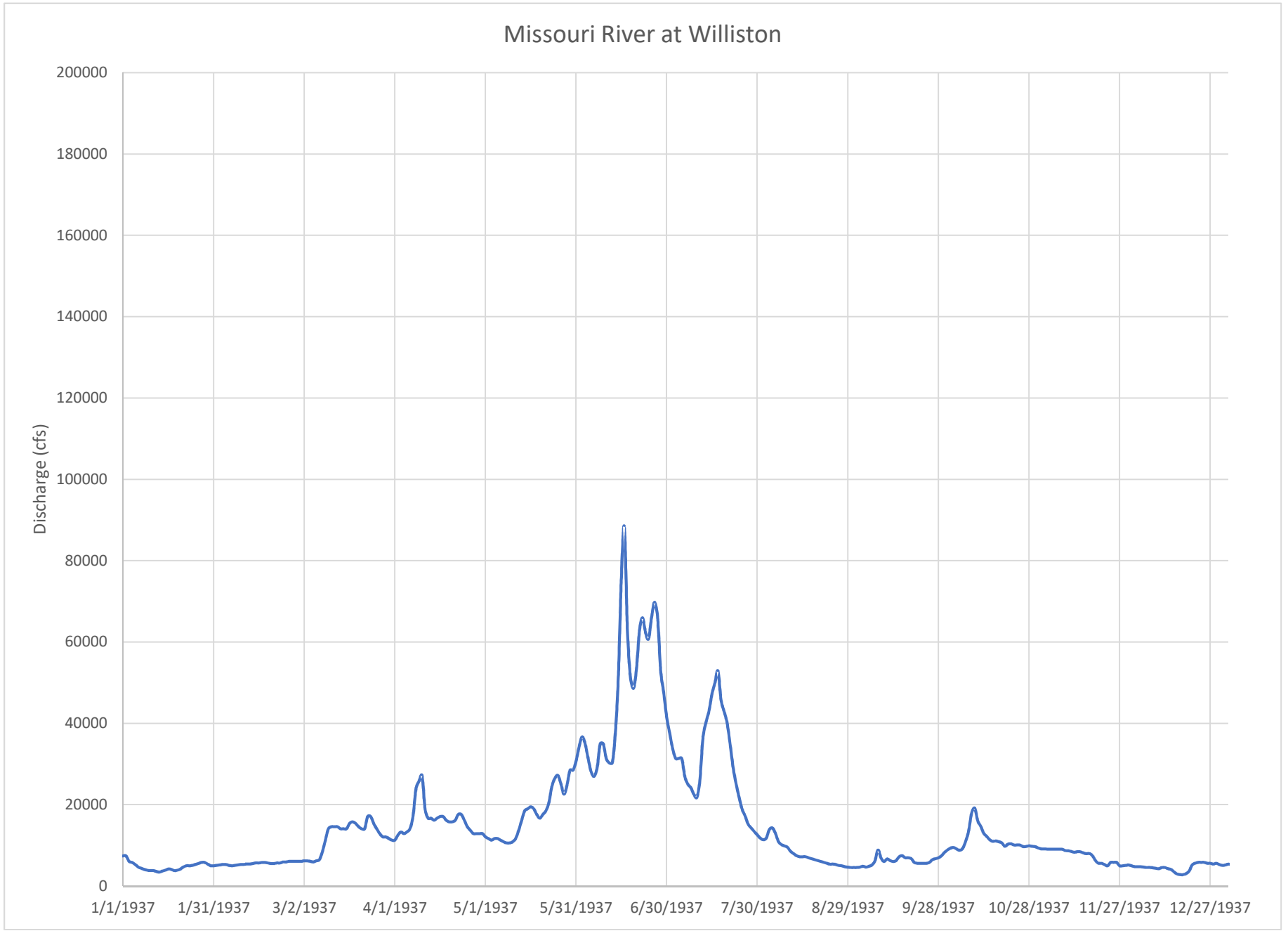
11/26/1936
12/26/1936


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1937
1/31/1937
3/2/1937
4/1/1937
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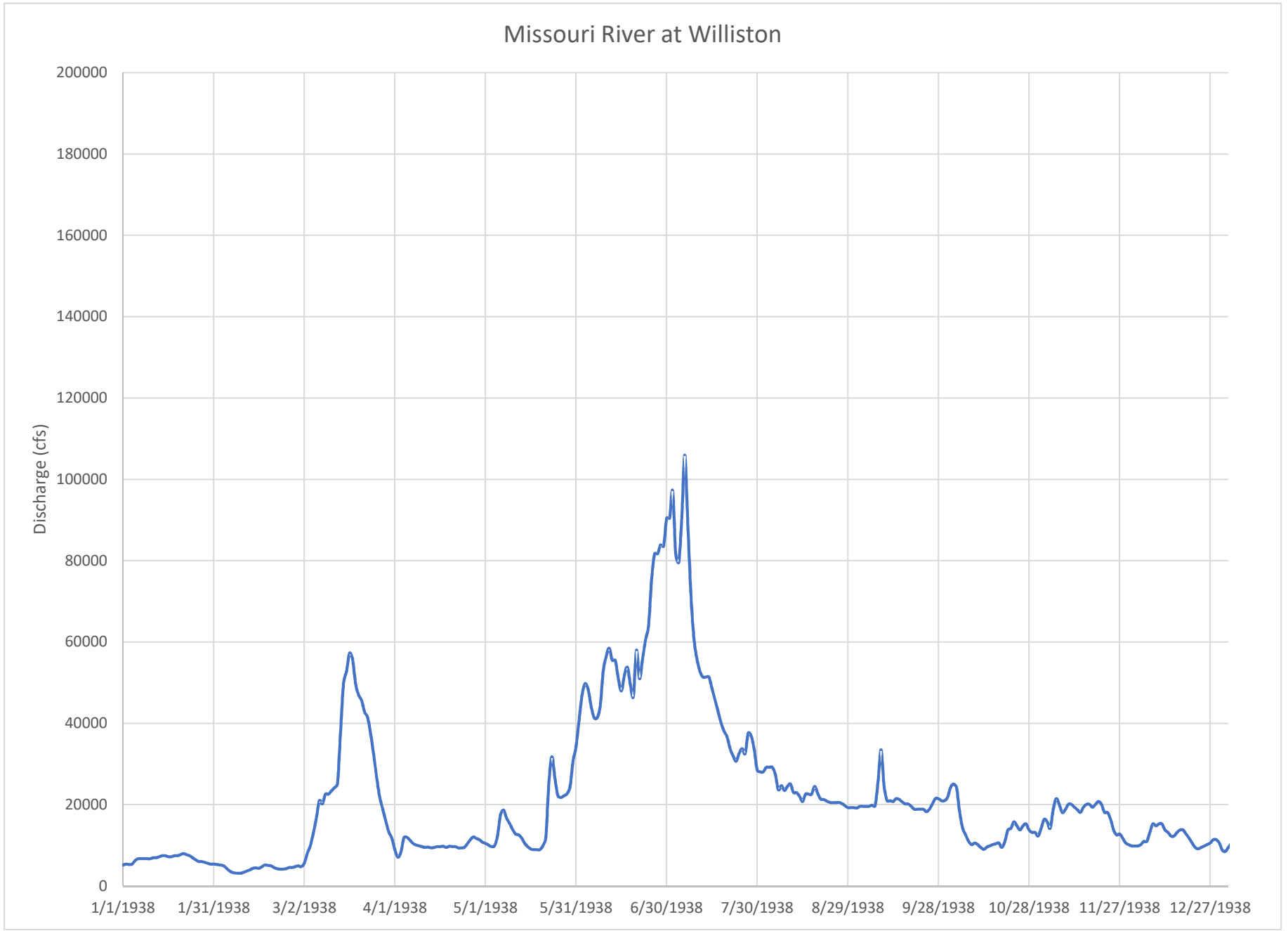
11/27/1937
12/27/1937


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1938
1/31/1938
3/2/1938
4/1/1938
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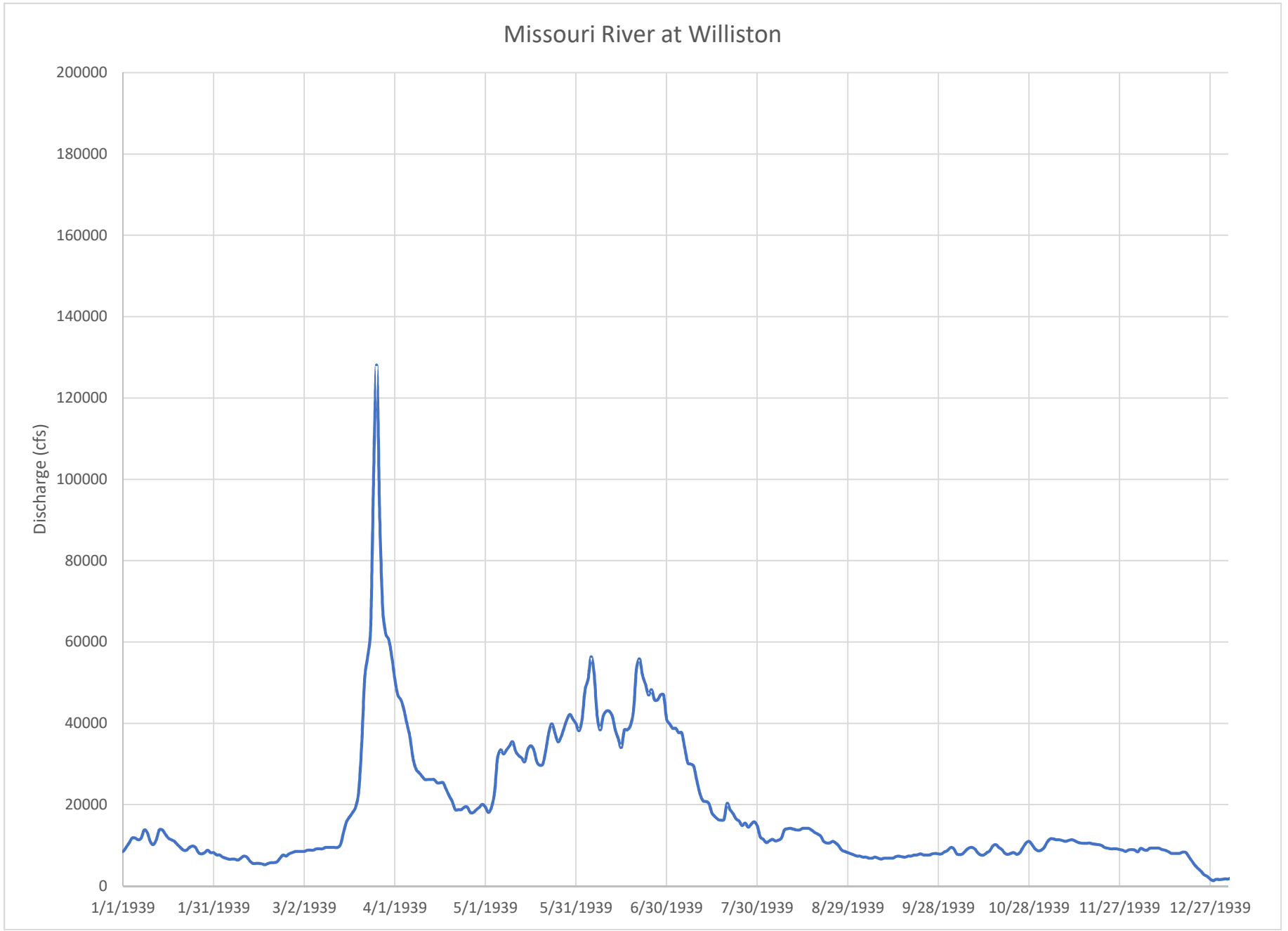
11/27/1938
12/27/1938


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1939
1/31/1939
3/2/1939
4/1/1939
5/1/1939
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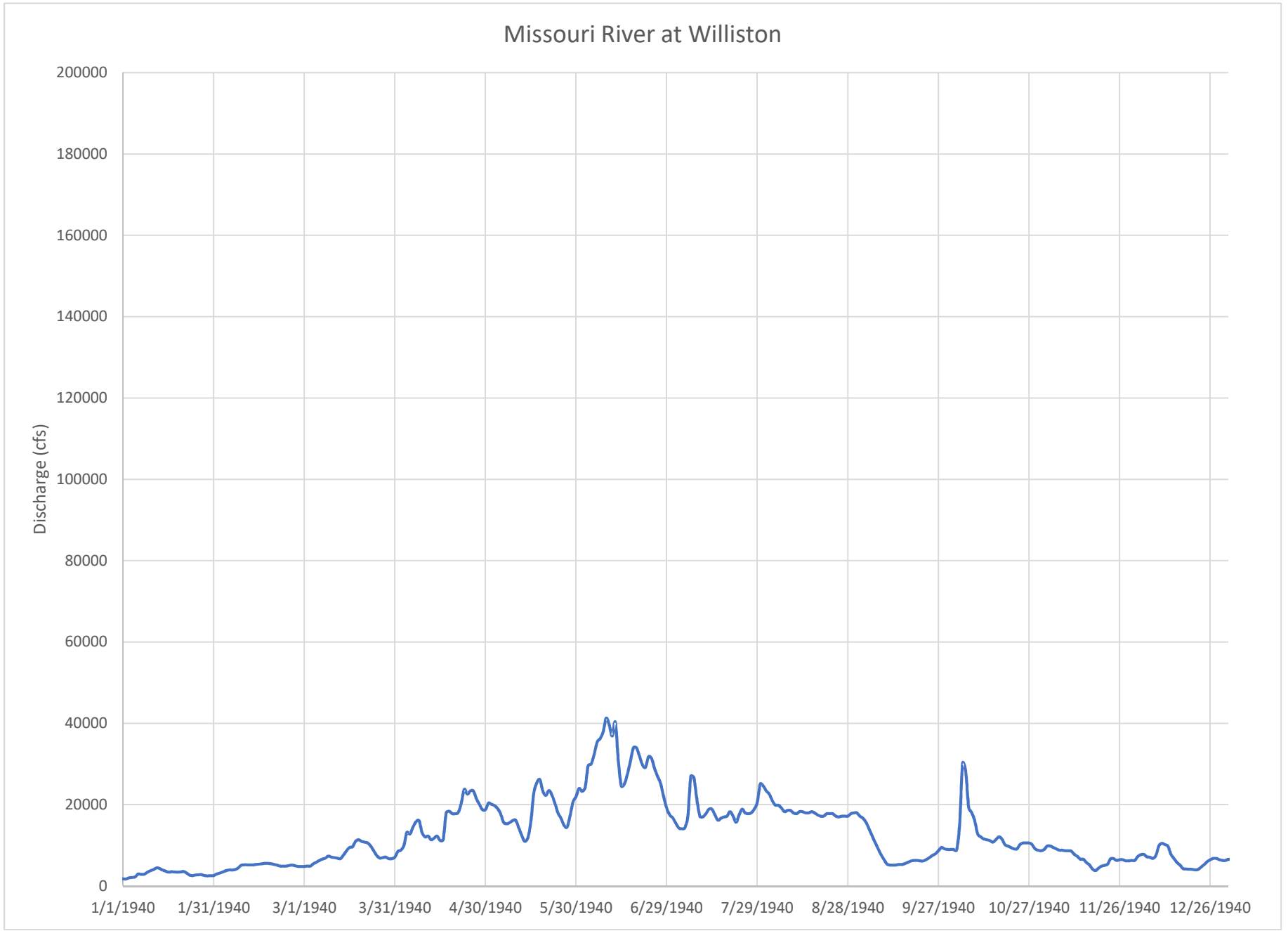
11/27/1939
12/27/1939


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1940
1/31/1940
3/1/1940
3/31/1940
4/30/1940
5/30/1940
6/29/1940
7/29/1940
8/28/1940
9/27/1940
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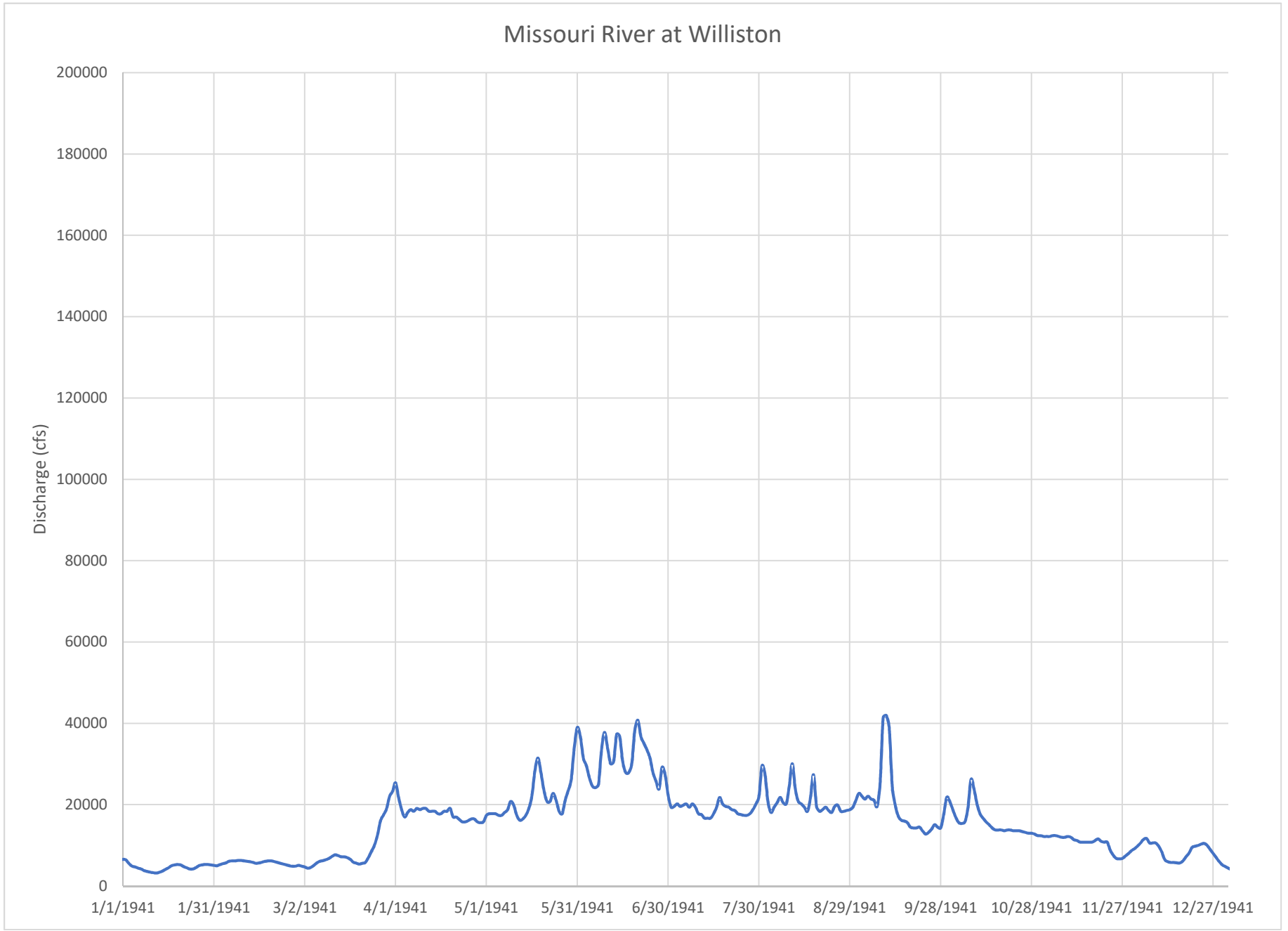
11/26/1940
12/26/1940


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
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1/31/1941
3/2/1941
4/1/1941
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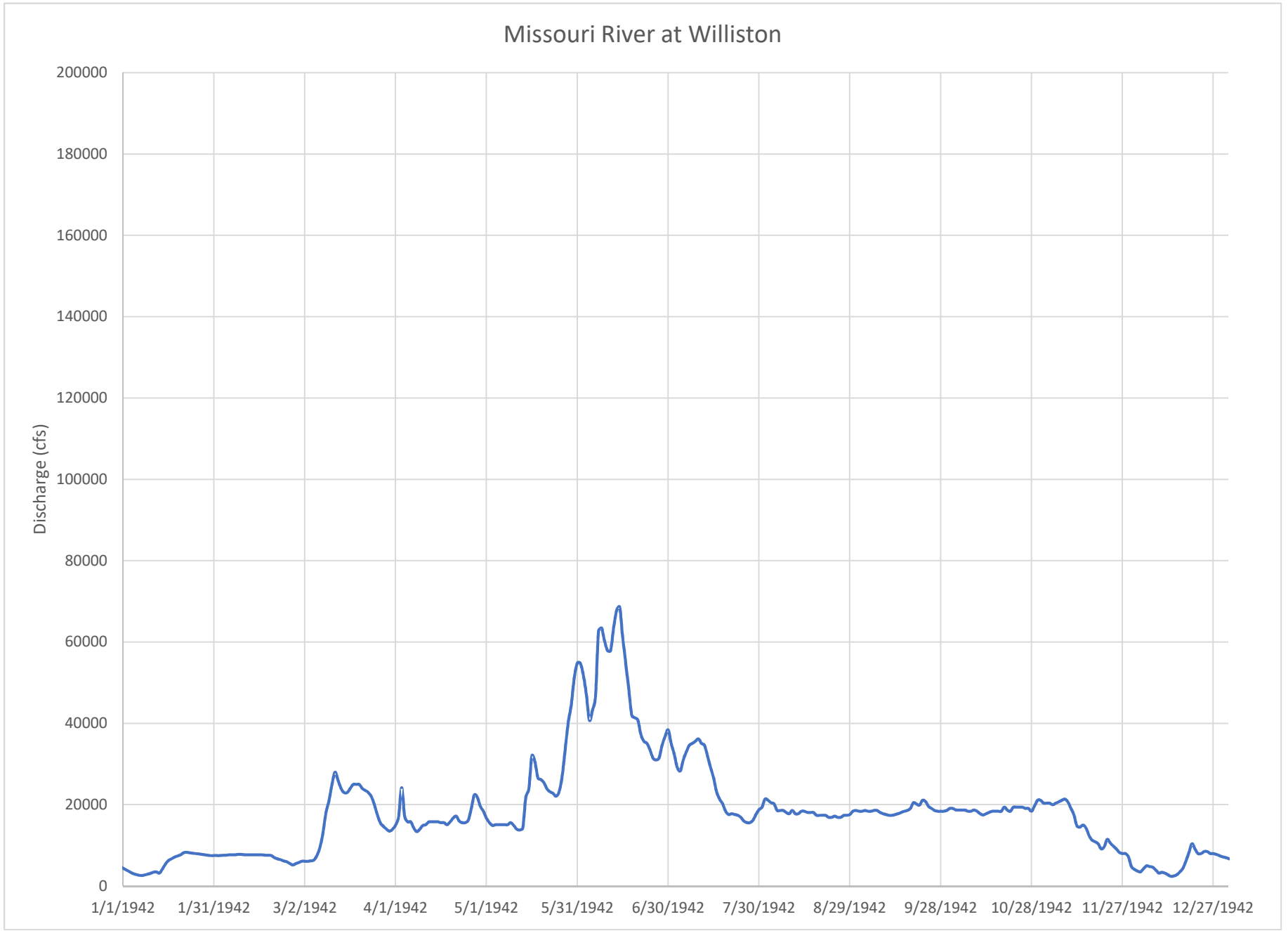
11/27/1941
12/27/1941


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1942
1/31/1942
3/2/1942
4/1/1942
5/1/1942
5/31/1942
6/30/1942
7/30/1942
8/29/1942
9/28/1942
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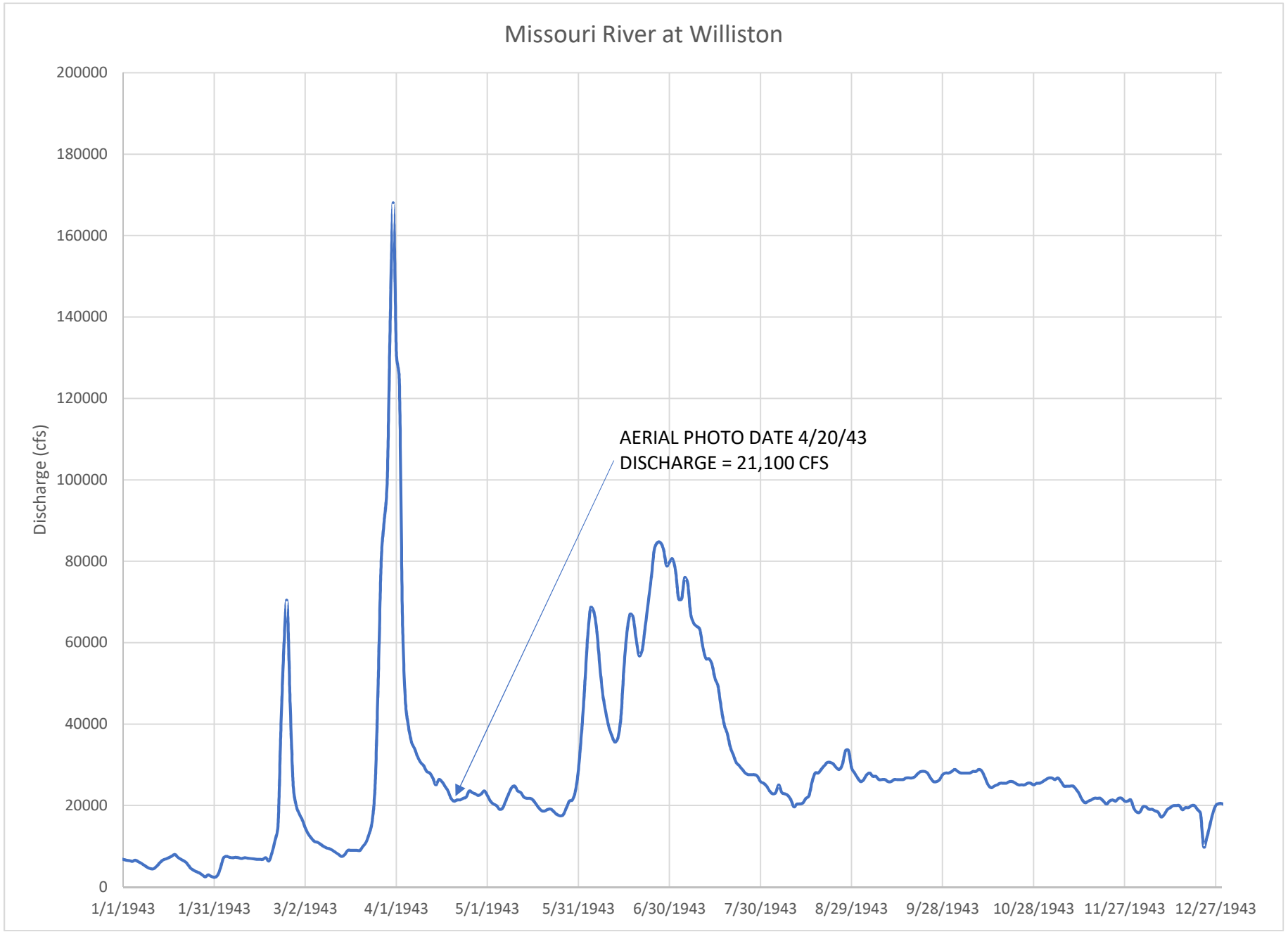
11/27/1942
12/27/1942


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
AERIAL PHOTO DATE 4/20/43
DISCHARGE = 21,100 CFS
1/1/1943
1/31/1943
3/2/1943
4/1/1943
5/1/1943
5/31/1943
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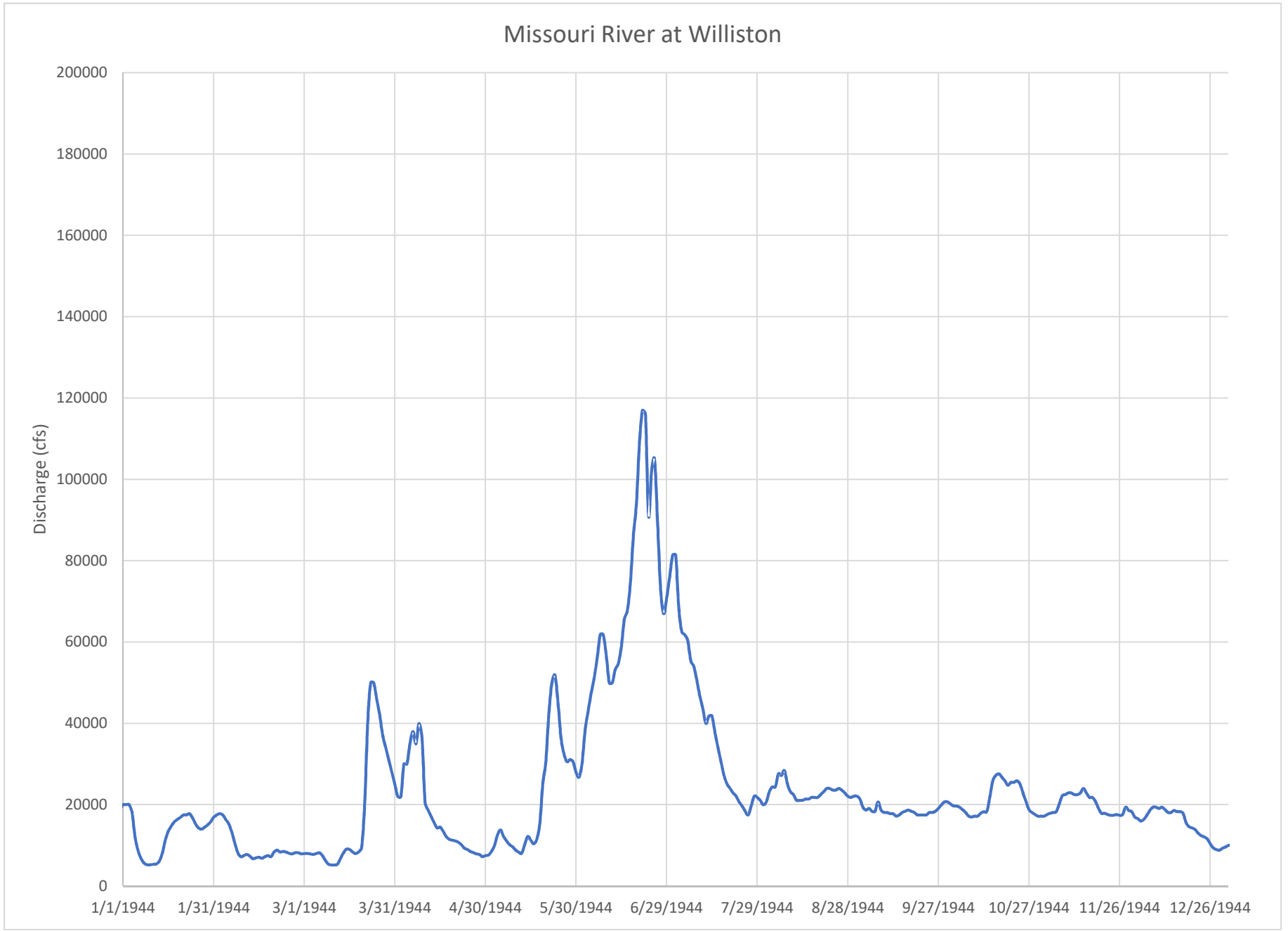
11/27/1943
12/27/1943


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1944
1/31/1944
3/1/1944
3/31/1944
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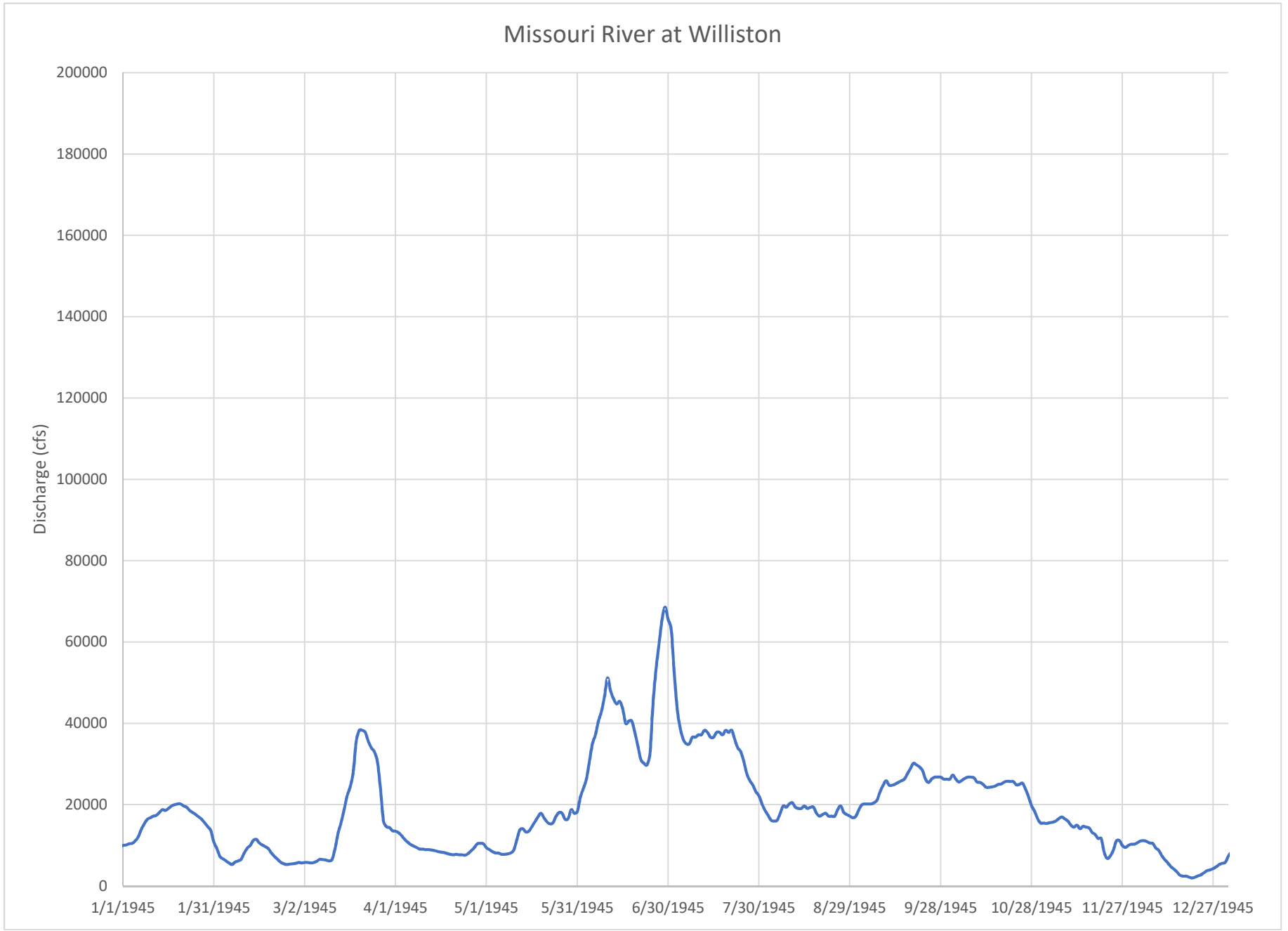
11/26/1944
12/26/1944


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1945
1/31/1945
3/2/1945
4/1/1945
5/1/1945
5/31/1945
6/30/1945
7/30/1945
8/29/1945
9/28/1945
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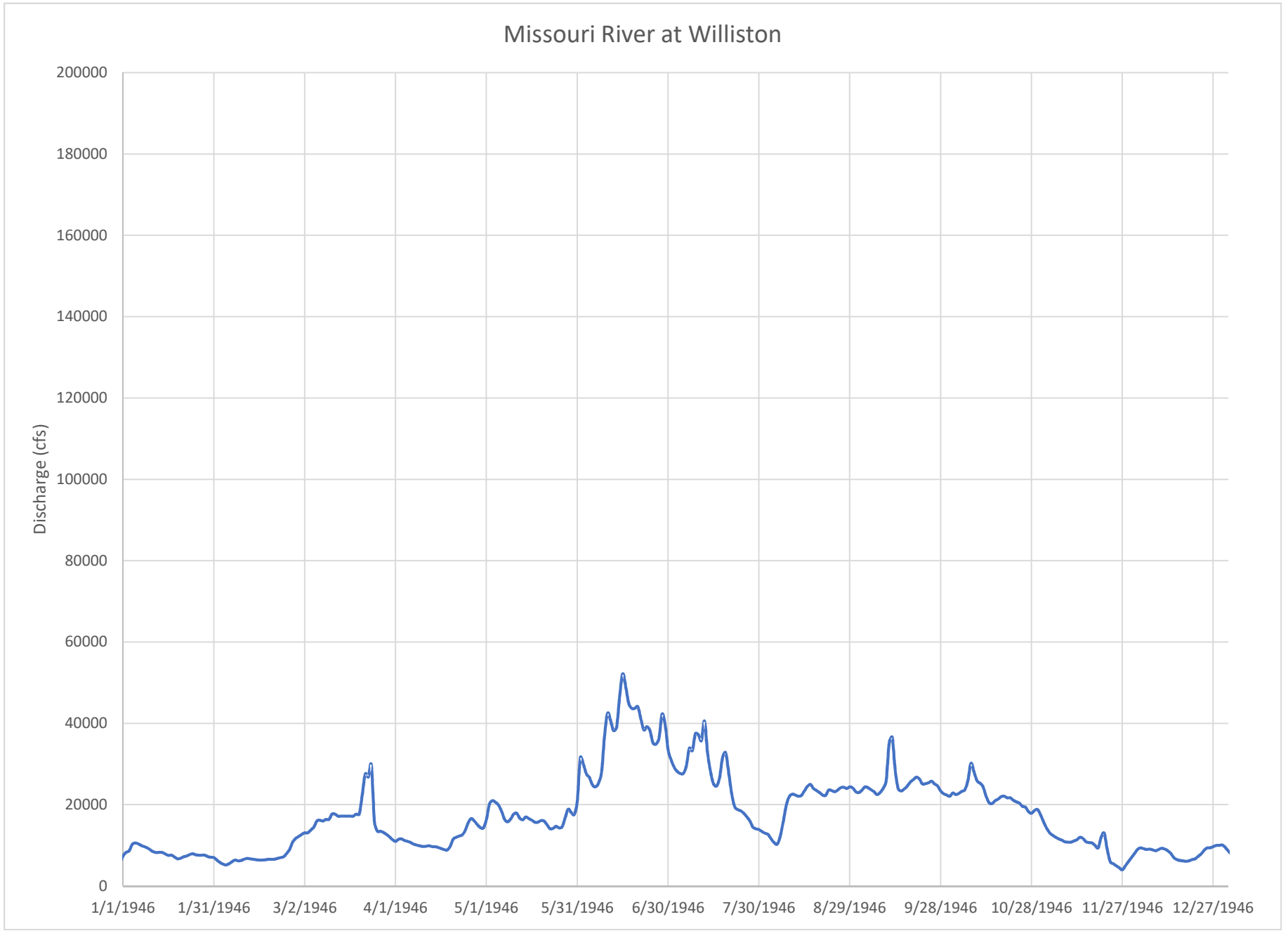
11/27/1945
12/27/1945


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1946
1/31/1946
3/2/1946
4/1/1946
5/1/1946
5/31/1946
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7/30/1946
8/29/1946
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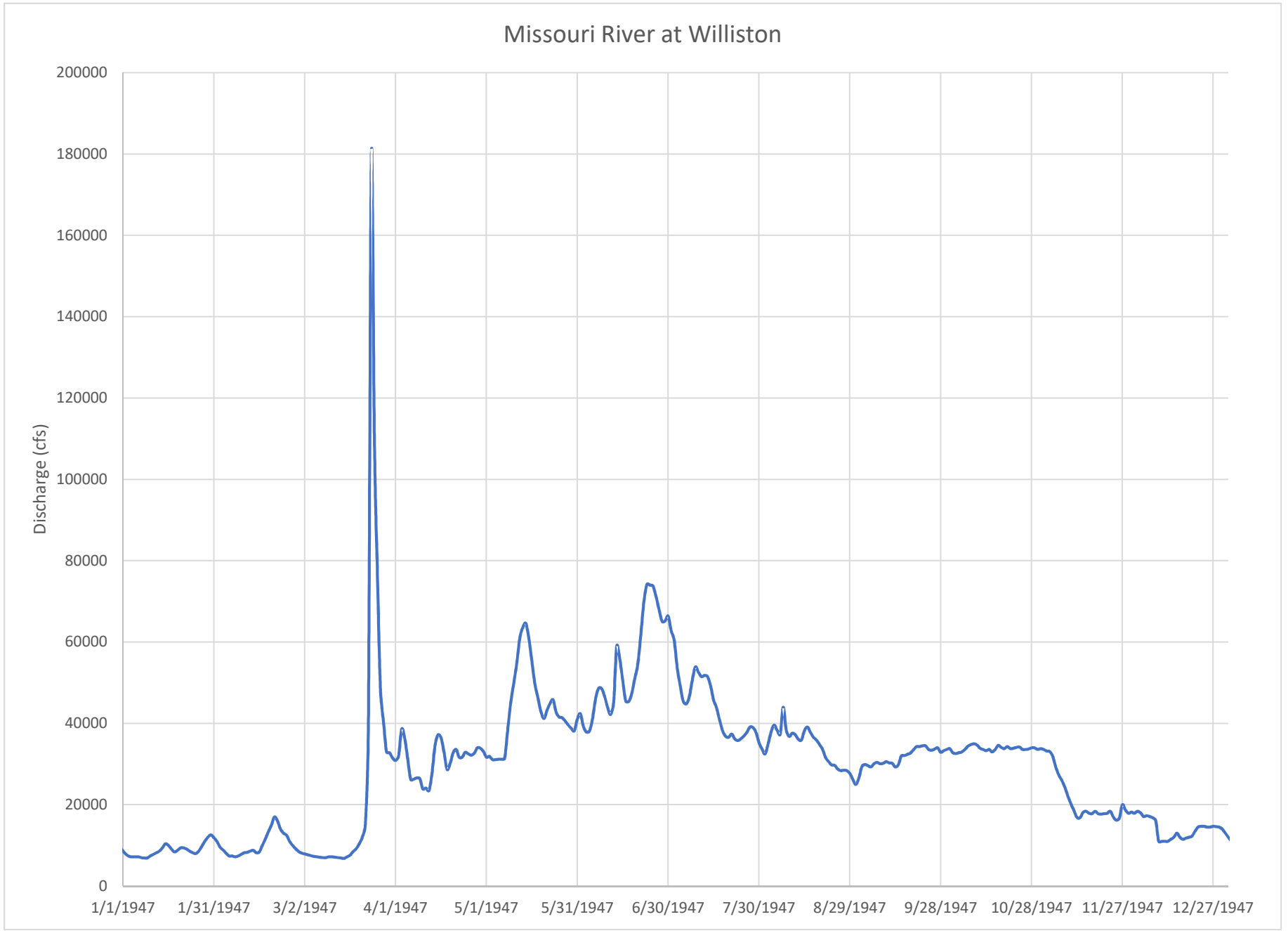
11/27/1946
12/27/1946


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1947
1/31/1947
3/2/1947
4/1/1947
5/1/1947
5/31/1947
6/30/1947
7/30/1947
8/29/1947
9/28/1947
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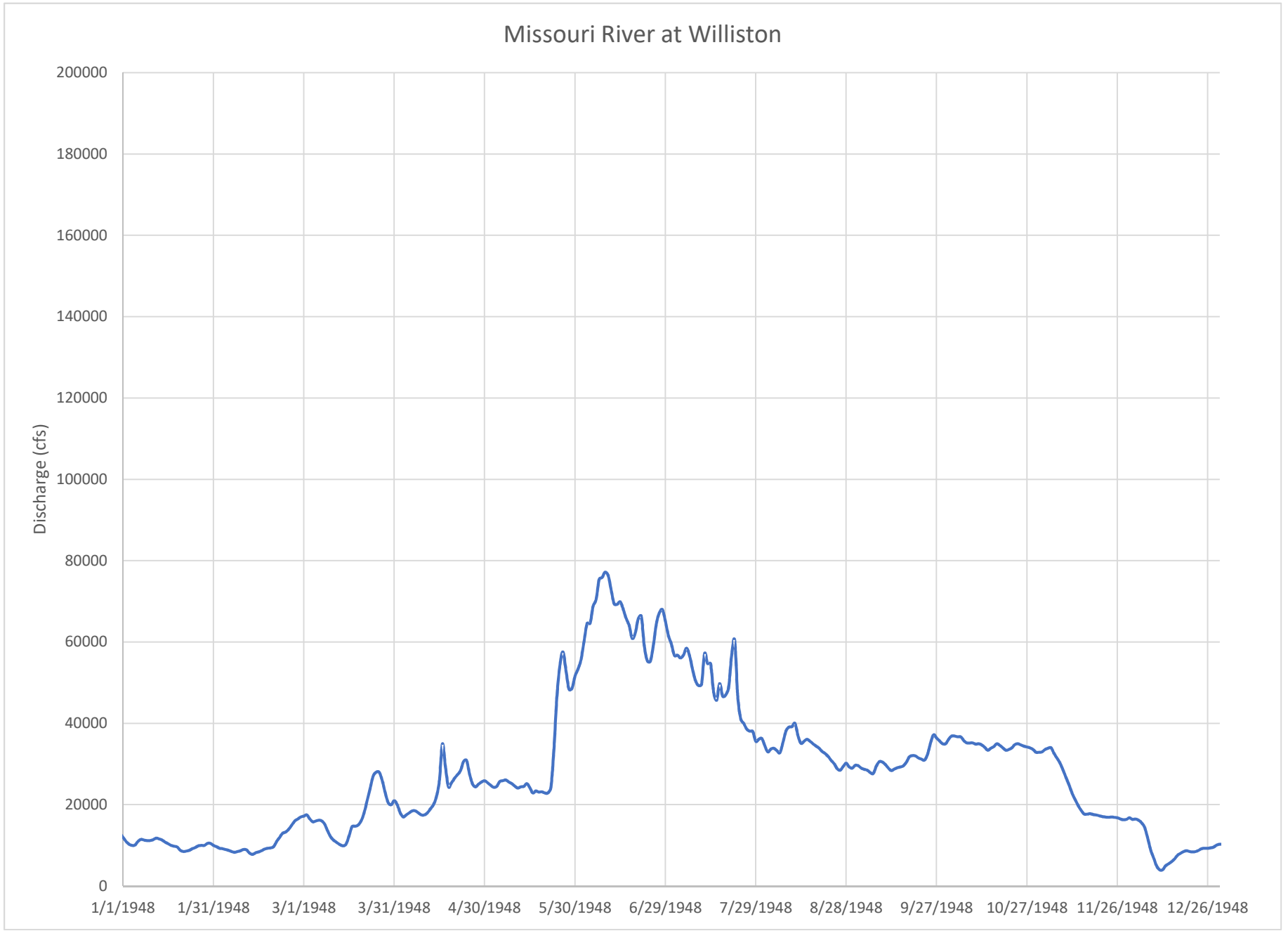
11/27/1947
12/27/1947


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1948
1/31/1948
3/1/1948
3/31/1948
4/30/1948
5/30/1948
6/29/1948
7/29/1948
8/28/1948
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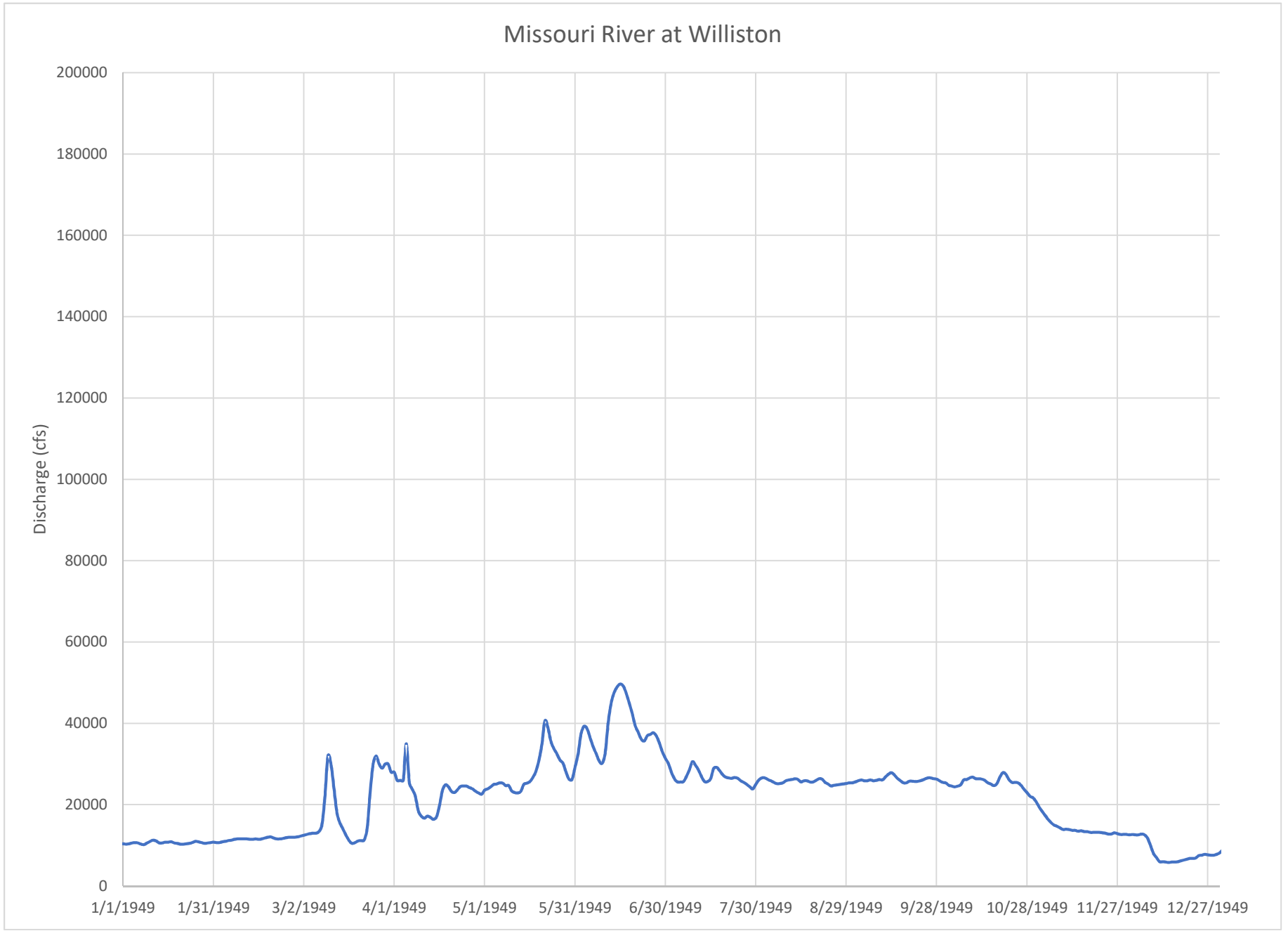
11/26/1948
12/26/1948


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1949
1/31/1949
3/2/1949
4/1/1949
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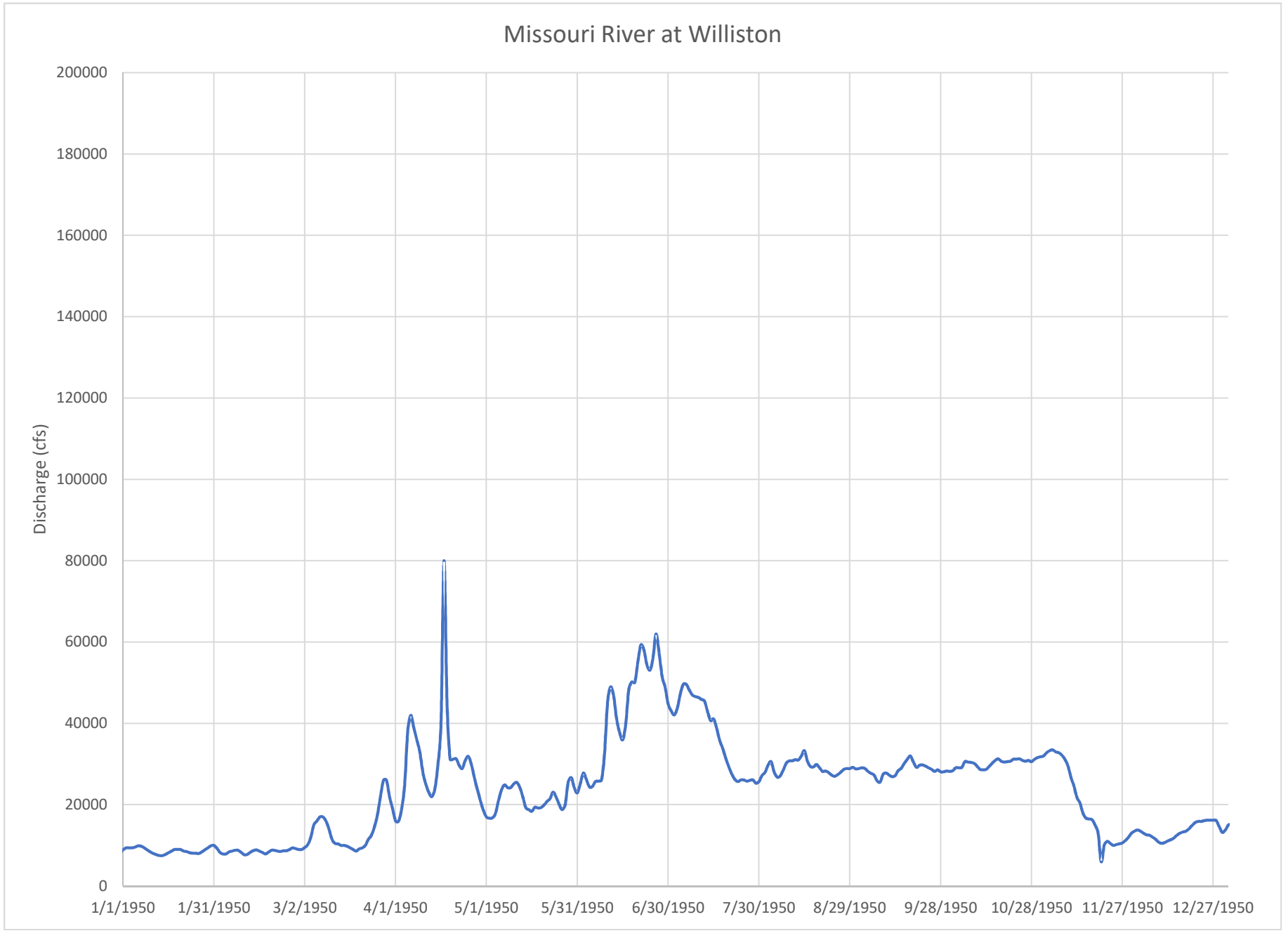
11/27/1949
12/27/1949


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1950
1/31/1950
3/2/1950
4/1/1950
5/1/1950
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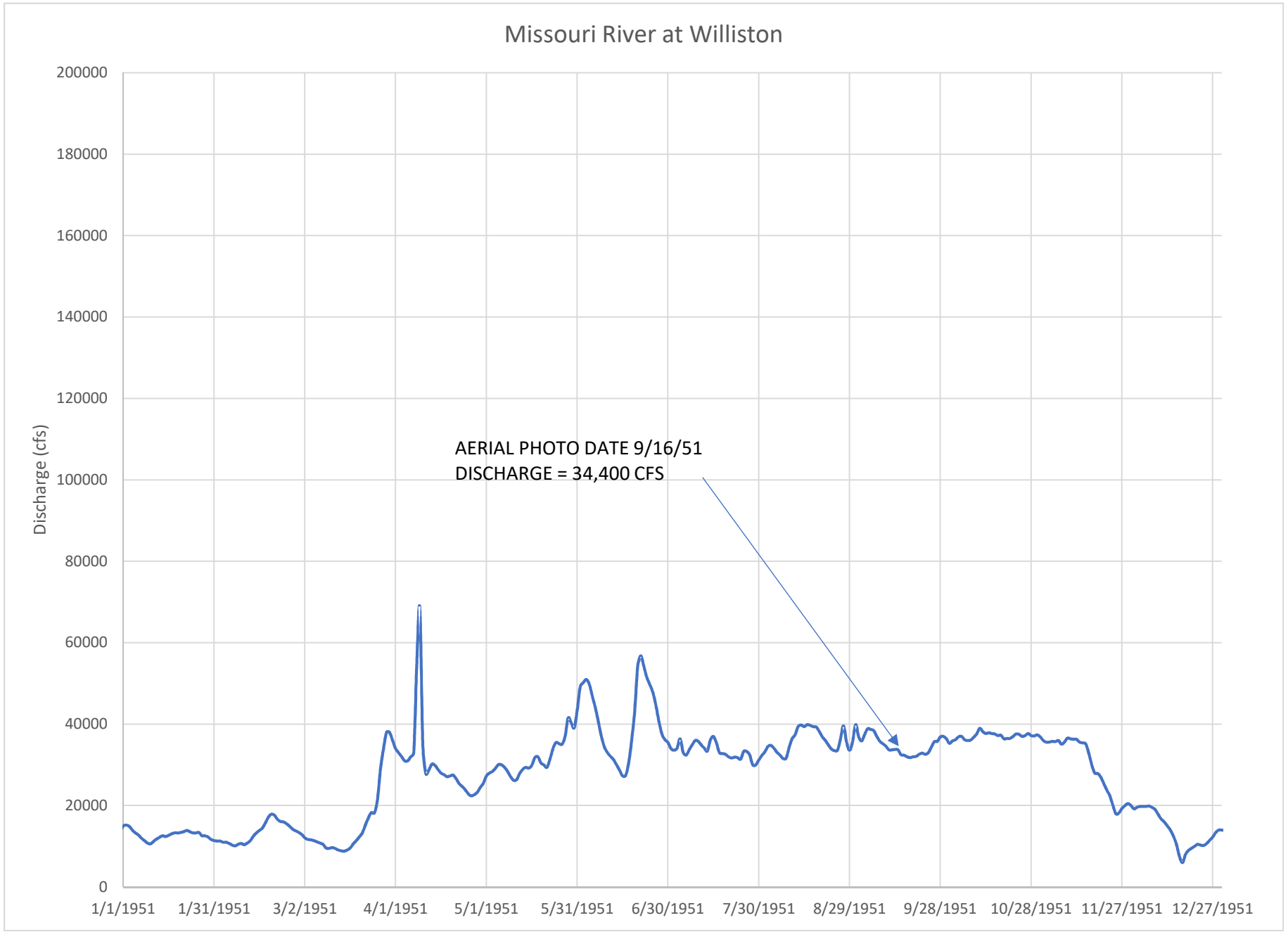
11/27/1950
12/27/1950


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
AERIAL PHOTO DATE 9/16/51
DISCHARGE = 34,400 CFS
1/1/1951
1/31/1951
3/2/1951
4/1/1951
5/1/1951
5/31/1951
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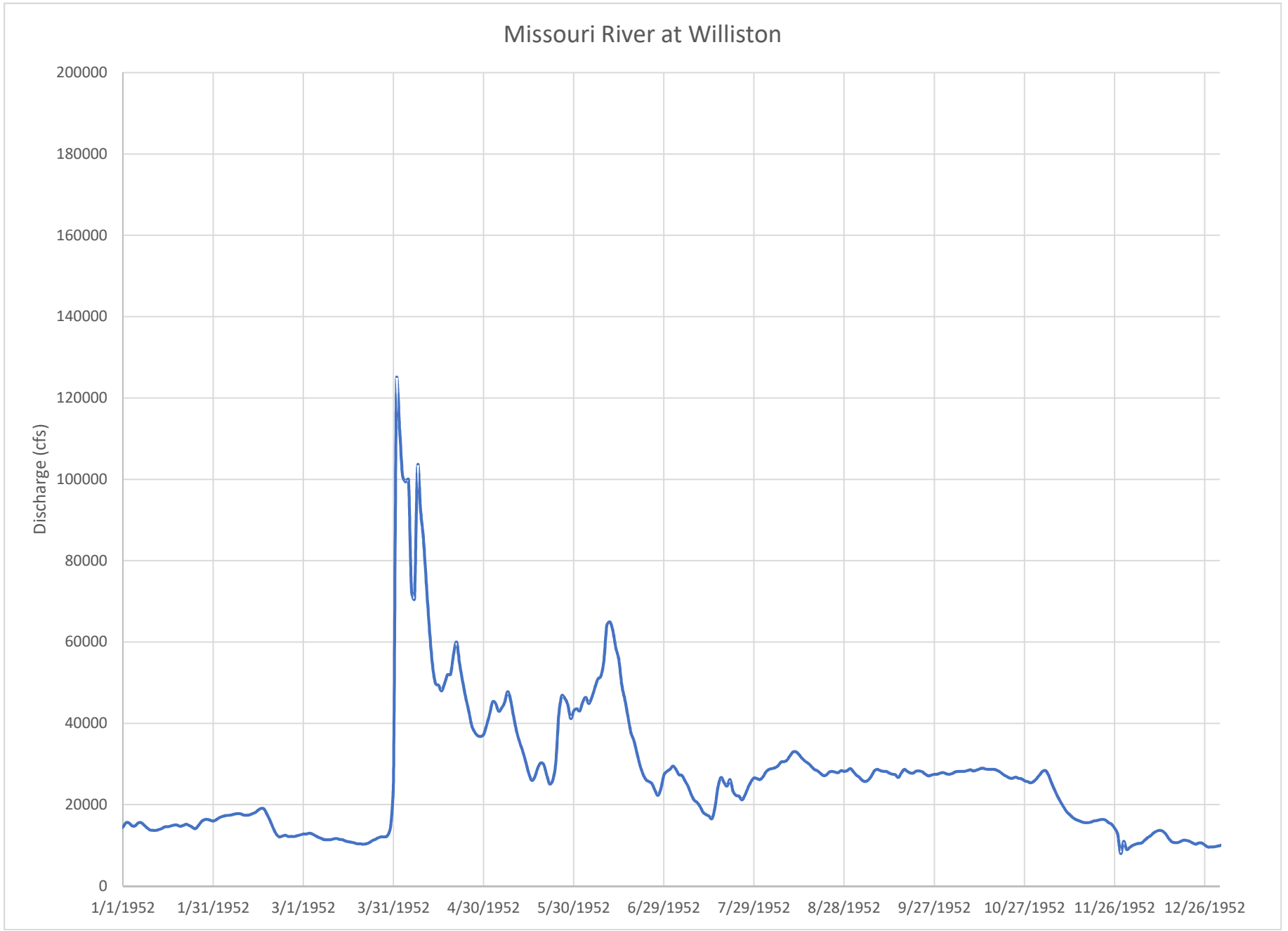
11/27/1951
12/27/1951


Missouri River at Williston
Discharge (cfs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1/1/1952
1/31/1952
3/1/1952
3/31/1952
4/30/1952
5/30/1952
6/29/1952
7/29/1952
8/28/1952
9/27/1952
10/27/1952
11/26/1952
12/26/1952

Appendix D

Information from the USACE

Joel W. Toso

From: Pridal, Daniel B CIV USARMY CENWO (US) <daniel.b.pridal@usace.army.mil>
Sent: Wednesday, October 11, 2017 4:44 PM
To: Joel W. Toso
Cc: Kevin G. Nelson; Noel, Rick L CIV USARMY CENWO (US); Kolke, Timothy D CIV USARMY CENWO (US); Morong, Lawrence J CIV USARMY CENWO (US)
Subject: RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam
Attachments: PreDam_Sakakawea_NGVD29.DSS; GA_River_Mile_Conversion_Tables.xlsx; GA_Sak_Range_Loc_Map.pdf; GA_Sak_Survey_Control_Data.xlsx

Joel,
Attached is the survey data that we have from that era. Data was collected over a period of multiple years, some extreme flow events occurred during that time frame. Please be aware Omaha District does not express or imply any warranty concerning the accuracy, completeness, or applicability of the contained data and associated products for use. Conscientious and accountable use of the attached file(s) is the responsibility of the data requestor.

The historical survey data was collected in station - elevation format and is stored in dss. If you are not familiar with the DSSVUE program, it is available for download from HEC at:
http://www.hec.usace.army.mil/software/hec-dssvue/

The attached file, GA_Sak_Survey_Control_data.xls, contains the best estimate of the cross section coordinate Northing and Easting. A quick comparison of cross section length to coordinate length will reveal discrepancies.

The location map is the best available map from that era showing cross section location.

Sediment ranges from that era were labeled according to the old 1941 river mile. The excel file river mile conversion provides the approximate location in both 1941 and 1960 river miles.

Dan

-----Original Message-----
From: Joel W. Toso [mailto:jtoso@wenck.com]
Sent: Friday, October 06, 2017 2:28 PM
To: Pridal, Daniel B CIV USARMY CENWO (US) <daniel.b.pridal@usace.army.mil>
Cc: Kevin G. Nelson <knelson@wenck.com>
Subject: [EXTERNAL] Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Dan,

Thanks for your help with our efforts toward establishing the pre-dam OHWM upstream of the Garrison Dam. As is evident in the email string below we've been corresponding with the Real Estate Division to get a better understanding of the tract boundaries adjacent to the river. It is apparent that these boundaries are based on the river's edge as depicted from the pre-dam topo (1943), not the OHWM. You mentioned that the COE has pre-dam surveyed cross sections of the river. If we had access to these data we could model the river reach in question and have an indication of how the OHWM elevation changes along the river. The reach in question is shown in the attached pdf.

Is the cross data in a form that can be stored on the same site as is being created by the Real Estate Division (see email below)?

Thanks again,

Joel
612-296-7732 cell

-----Original Message-----
From: Otterson, Jesse E CIV USARMY CENWO (US) [mailto:Jesse.E.Otterson@usace.army.mil]
Sent: Friday, October 6, 2017 11:33 AM
To: Joel W. Toso <jtoso@wenck.com>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>; Jayme M. Engen <jengen@wenck.com>; Jordan C. Shuck <jshuck@wenck.com>; Noel, Rick L CIV USARMY CENWO (US) <Rick.L.Noel@usace.army.mil>
Subject: RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Jordan,

I'm planning to upload to a site called AMRDEC; you'll get a notification to download it within 14 days once it's uploaded. I should have it assembled and uploaded at the latest by Wednesday (11-Oct). The data is already georeferenced as well so it should hopefully help with incorporation in GIS products and analysis.

Thanks,

Jesse Otterson
Senior Realty Specialist
USACE Omaha District
Real Estate Division
402-995-2875
-----Original Message-----
From: Joel W. Toso
Sent: Friday, October 6, 2017 11:00 AM
To: 'Otterson, Jesse E CIV USARMY CENWO (US)' <Jesse.E.Otterson@usace.army.mil>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>; Jayme M. Engen <jengen@wenck.com>; Jordan C. Shuck <jshuck@wenck.com>; Noel, Rick L CIV USARMY CENWO (US) <Rick.L.Noel@usace.army.mil>
Subject: RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Thanks Jesse.

We've attached a working map the shows the river reach we are studying. Our work starts at River Mile 1484 and goes upstream to RM 1565 (see yellow labels on the attached pdf).

Let me know if there is anything we can do to help with this. If you are planning to mail this information please send it to

Jordan Shuck, Principal
GIS Department
Wenck Associates, Inc.
1800 Pioneer Creek Center, P.O. Box 249
Maple Plain, MN 55359-0249

If you can give me an approximate time we can expect it that would help with planning.

Thanks again!

Joel
612-296-7732 cell (I'm working from home today).

-----Original Message-----
From: Otterson, Jesse E CIV USARMY CENWO (US) [mailto:Jesse.E.Otterson@usace.army.mil]
Sent: Friday, October 6, 2017 9:58 AM
To: Joel W. Toso <jtoso@wenck.com>; Noel, Rick L CIV USARMY CENWO (US) <Rick.L.Noel@usace.army.mil>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>; Jayme M. Engen <jengen@wenck.com>; Jordan C. Shuck <jshuck@wenck.com>
Subject: RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Joel,

We can package them up and send them but do not have a public portal/method to pull the data.

Did you just need the area in the attachment you sent, or is the area of interest different? If you could advise on the area of interest I'd be happy to assist with sending the DRG's to you.

Thanks,

Jesse Otterson
Senior Realty Specialist
USACE Omaha District
Real Estate Division
402-995-2875

-----Original Message-----
From: Joel W. Toso [mailto:jtoso@wenck.com]
Sent: Friday, October 06, 2017 8:35 AM
To: Noel, Rick L CIV USARMY CENWO (US) <Rick.L.Noel@usace.army.mil>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>; Otterson, Jesse E CIV USARMY CENWO (US) <Jesse.E.Otterson@usace.army.mil>; Jayme M. Engen <jengen@wenck.com>; Jordan C. Shuck <jshuck@wenck.com>
Subject: [EXTERNAL] RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Thanks for your email, Mr. Noel.

The information provided is helpful. We have been doing some preliminary comparisons with 1943 and 1951-53 aerials (see attached screen captures from GIS work) and found fairly good comparison with the 1951-53 set. Could we get access to the digital versions 1943 topos? I believe there's a flat file drawer in Riverdale with 1943 topos we could scan if digital versions are not available.

Thanks,
Joel
612-296-7732 cell

-----Original Message-----
From: Noel, Rick L CIV USARMY CENWO (US) [mailto:Rick.L.Noel@usace.army.mil]
Sent: Friday, October 6, 2017 7:32 AM

To: Joel W. Toso <jtoso@wenck.com>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>; Otterson, Jesse E CIV USARMY CENWO (US) <Jesse.E.Otterson@usace.army.mil>
Subject: RE: Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Mr. Toso

I asked our lead Geographer to look at the map and respond to the question your annotation on the Garrison segment map. His response is as follows:

"This is actually not taken from GLO; it is the depiction of the river bank on 1943 USGS Topo Maps. I have DRG's (digitial versions) but cannot verify the scale it was drawn at (it looks like 1:24000 though).

I don't have any other information on those topo maps without doing additional research, but that is the source we used to compile the bankline on the Garrison Segment maps. The line from the GLO's typically is depicted, but it is the broken/dashed line that is not as thick as the bank line in question."
Rick L. Noel
Chief, Civil Branch, Real Estate Division Real Estate Contracting Officer USAED, Omaha
402-995-2832 (phone)
402-995-2826 (fax)
rick.l.noel@usace.army.mil

-----Original Message-----
From: Joel W. Toso [mailto:jtoso@wenck.com]
Sent: Wednesday, October 04, 2017 2:07 PM
To: Noel, Rick L CIV USARMY CENWO (US) <Rick.L.Noel@usace.army.mil>
Cc: Kolke, Timothy D CIV USARMY CENWO (US) <Timothy.D.Kolke@usace.army.mil>; Kevin G. Nelson <knelson@wenck.com>
Subject: [EXTERNAL] Pre-Dam Ordinary High Water Line upstream of Garrison Dam

Good afternoon Mr. Noel,

This email is a follow up to my voicemail this morning. Wenck Associates is working for the State of North Dakota. We are tasked with determining if clear and convincing evidence is present that the Corps survey for tracts under the current pool level of Lake Sakakawea does not accurately represent the Ordinary High Water Mark of the historic Missouri riverbed per state law.

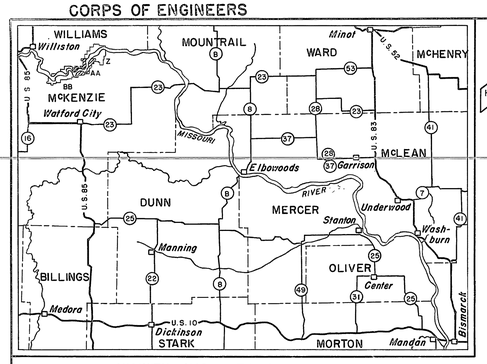
We've started going through the records available at Riverdale. Tim Kolke mentioned that there may be more information available in Omaha. The attachment is an tract map for Segment AA we obtained from Tim. We are looking at the tracts from Segment V to HH. I've annotated a line on the attached map that appears to be a delineation of the edge of the river from an aerial photo. Is there information available to substantiate this or define how it was established? We would appreciate any assistance you can provide.

Thanks,
Joel Toso, PhD, PH, PE (MN)
Senior Water Resources Engineer

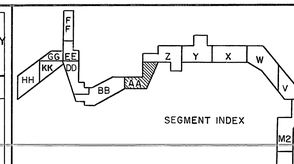
jtoso@wenck.com | D 701.751.3370 | C 612.296.7732 301-1st Street, Mandan, ND 58554

CORPS OF ENGINEERS

U.S. ARMY

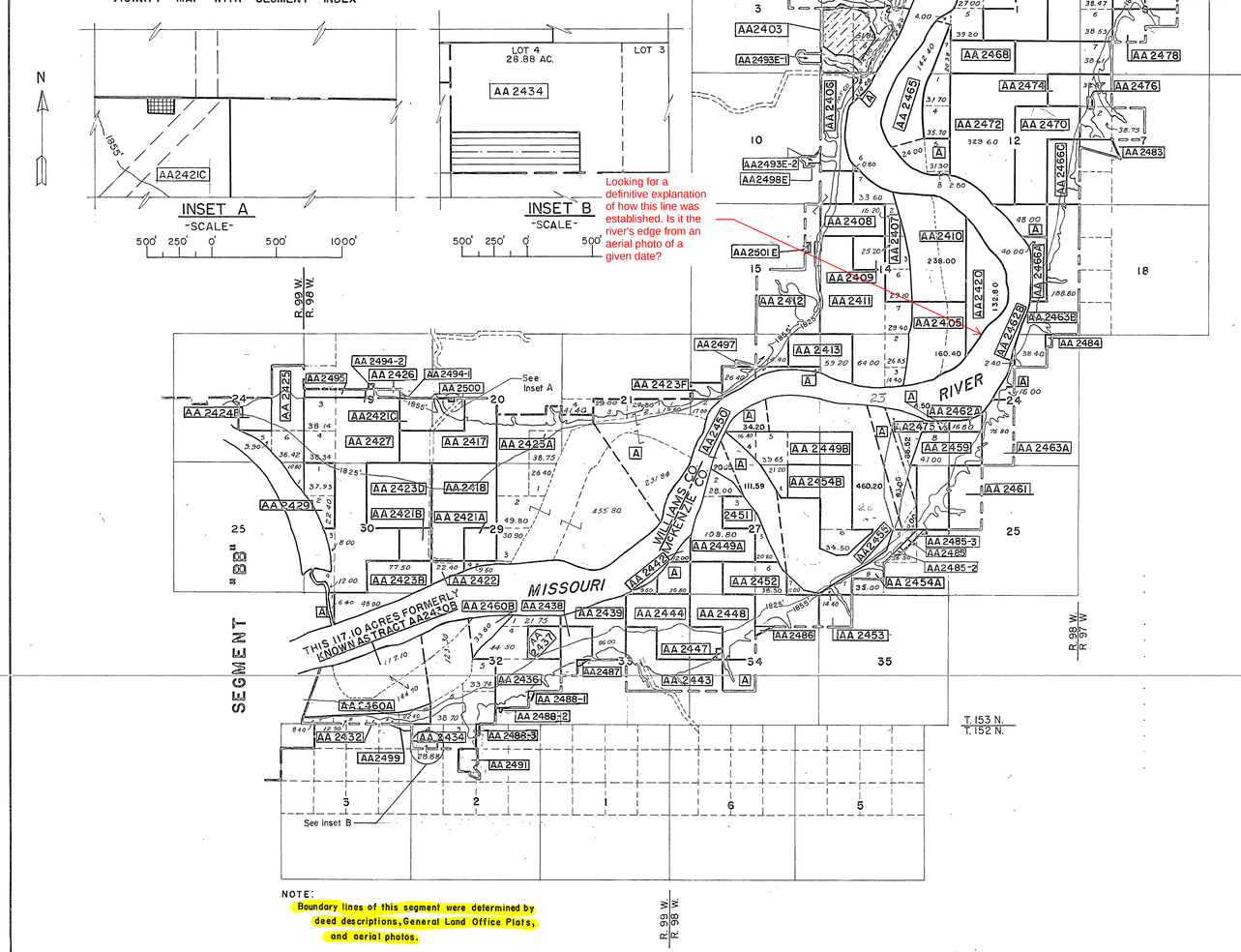


VICINITY MAP WITH SEGMENT INDEX





TRACT NO.	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
AA2460A	12 July 1956, combined to include tract formerly known as AA2430B.
AA2450	Formerly part of tract No. AA2455
AA2455	Includes parts of tracts formerly known as AA2414B & AA2456
AA2475	Formerly part of tract No. AA2455 & of tract formerly known as AA2414B
~~AA2405~~	~~Formerly part of tract No. AA2410 & of former tract No. AA2467B~~
AA2410	Includes part of former tract No. AA2467B
AA2420	Part of former tract No. AA2467B
AA2501E	Perm road ease reserved over 0.53 of an acre portion of fee disposal of Tract AA-2412, 7 Jun 79
AA2492E	Perpet'l flowage Easement from 6-26-78
AA2493E-1	" " " " 7-17-78
AA2493E-2	" " " " 7-17-78
AA2498E	" " " " 8-23-78



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

1.21 Acres, Fee conveyed to Patrick P. O'Neill, et al by QCD dated 6-7-79, reserving 0.53 of an acre road easement to the United States.

62.76 Acres, fee, Long Creek Cottage Site Area, conveyed as individual Lots. For details, see Long Creek Cottage Site Area.

0.57 of an acre, fee, conveyed to George Stoner, et al by QCD dated 23 Feb. 81, in exchange for 0.17 of an acre, fee, TR. AA-2500.

7.12 Acres, fee, conveyed to Carroll Johnston, et ux by QCD dated 19 Feb. 81, in exchange for 5.13 Acres, fee, in Trs. AA-2488-1, AA-2488-2, AA-2488-3 and AA-2499.

ATTACHMENT TO OCT 4TH 2017 EMAIL FROM TOSO TO NOEL.

MICROFILMED	DATE AUDIT APPROVED	DATE	REVISIONS	BY
		4-13-88	AUDIT REVISIONS	D.A.
		9-4-86	ADDED DISPOSAL ON TR. AA2434	D.A.
		12-10-85	ADDED DISPOSAL ON TR. AA2421C	D.A.
		3-14-85	REVISED TR. AA2487	D.A.
		3-5-80	REVISED OWNERS NAME FOR TRS. AA-2488-1, -2 & -3	PLP
		8-15-79	ADDED TR. AA2500	T.E.E.
		7-25-79	ADDED TR. AA2499	T.E.E.
		12-13-78	ADDED TRS. AA2485-2, AA2485-3.	F.A.L.

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-1895

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE EASEMENT
	WILLIAMS CO.		
AA 2401	CHARLES E. FRENCH ET AL	205.30	
AA 2402	DELETED		
AA 2403	CLINTON FRENCH ET UX	176.60	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
AA 2405	ELSIE D. BJELLA	160.40	
AA 2406	GEORGE HERBERGER	108.40	
AA 2407	LAURA M. KING	104.10	
AA 2408	GEORGE E. BINGEMAN	80.00	
AA 2409	ELLA RYAN	40.00	
AA 2410	LAURA M. KING	238.00	
AA 2411	ELSIE D. BJELLA	338.65	
AA 2412	JOSEPH F. O'NEILL ET UX	302.40	
AA 2413	GEORGE E. FRENCH	99.20	
AA 2483	HENRY WOLD, ET AL	16.29	
AA 2415	DELETED		
AA 2416	DELETED		
AA 2417	E. C. LUNDSTROM ET AL	160.00	
AA 2418	ASA R. BABCOCK	200.00	
AA 2419	DELETED		
AA 2420	GINA KNUTSON ET AL	132.80	
AA 2421	FRANK R. BABCOCK ET UX PARCEL 'A' 40.00 'B' 40.00 'C' 80.00	160.00	
AA 2422	ROY A. WISEMAN	22.40	
AA 2423	JOSEPH M. DONAHUE PARCEL 'A' 757.65 'B' 125.50 'D' 160.00 'F' 20.00	1,063.15	
AA 2424	BOY SCOUTS OF AMERICA PARCEL 'B' 40.00	40.00	
AA 2425	JAMES SLEMIN	137.12	
AA 2426	GEORGE BINGEMAN ET UX	10.00	
AA 2427	INGAR BRAATEN	458.03	
AA 2428	DELETED		
AA 2429	HELMER BRAATEN	60.33	
AA 2484	JEROME D. GARMANN, ET UX	2.43	
AA 2500	GEORGE STONER, ET AL	0.17	
AA 2431	DELETED		
AA 2485	THORAL C. SAX, ET AL	5.05	
AA 2486	JEAN M. GUNDERSON WADE ROBB, ET AL	3.21	
AA 2487	SYDNEY O. MASTON, ET UX	1.24	
AA 2488-1	CARROLL JOHNSTON, ET UX	1.19	
AA 2489	DELETED		
AA2493-1	DELETED		
AA2493-2	DELETED		
AA 2432	JOSEPH VAN DYKE ET UX	60.40	
AA 2433	DELETED		
AA 2434	DOLLY COYNE ET AL	293.82	
AA 2490	DELETED		
AA 2436	JOSEPH VAN DYKE ET UX	166.25	
AA 2437	JOSEPH VAN DYKE ET UX	40.00	
AA 2438	MRS. MARIE MASTON	50.00	
AA 2439	CHRISTIAN T. MEGRUND	105.60	
AA 2491	BEN JOHNSTON, ET UX	18.01	
AA 2492	CHARLES E. FRENCH	0.92	
A	U.S.A. DEPT OF INTERIOR	see remarks	
AA2493E-1	JAY V. THOMAS, ET UX		6.14
AA 2442	THOMAS W. LEACH ET AL	12.00	
AA2493E-2	JAY V. THOMAS, ET UX		3.76
AA 2443	MONROE KRONICK	160.00	
AA 2444	NORA JOHNSTON	158.59	
AA 2494-1	GEORGE BINGEMAN, ET UX	0.63	
AA 2494-2	GEORGE BINGEMAN, ET UX	0.52	
AA 2447	HERBERT MASTON	1.41	
AA 2448	SYLVIA GUNDERSON	160.00	
AA 2449	WALLACE BOND PARCEL 'A' 136.80 'B' 157.25	294.05	
AA 2450	WALLACE BOND	20.86	
AA 2451	ESTATE OF HJALMER NELSON	57.70	
AA 2452	SYLVIA GUNDERSON ET AL	158.30	
AA 2453	JAY JUDKINS	40.00	
AA 2454	ARLETON C. SAX A 56.90 B 154.50	211.40	
AA 2455	ARLETON C. SAX	460.20	
AA2488-2	CARROLL JOHNSTON, ET UX	0.17	
AA 2457	DELETED		
AA 2458	DELETED		
AA 2459	WALLACE BOND	161.00	
AA 2460	JOSEPH VAN DYKE ET UX A 261.80 B 33.80	295.40	
AA 2461	STATE OF NORTH DAKOTA	80.00	
AA 2462	ESTATE OF CARL M. ENGEMOEN PARCEL 'A' 16.80 'B' 2.40	19.20	
AA 2463	HENRY A. GARMANN PARCEL 'A' 76.80 'B' 227.20	304.00	
AA 2495	NORTHERN LIGHTS COUNCIL OF BOY SCOUTS OF AMERICA, INC.	19.48	
AA 2465	HENRY T. HAGEN	142.40	
AA 2466	GINA KNUTSON ET AL PARCEL 'A' 40.00 'C' 80.00	120.00	
AA 2497	Patrick P. O'NEILL, ET AL	0.86	
AA 2488-3	CARROLL JOHNSTON, ET UX	0.93	
AA 2468	HENRY T. HAGEN	167.78	
AA 2469	NORA AGNES HAYES ET AL	152.50	
AA 2470	ESTATE OF CARL M. ENGEMOEN	160.00	
AA 2471	DELETED		
AA 2472	ALBERT W. TILL	448.21	
AA 2473	STATE OF NORTH DAKOTA	318.31	
AA 2474	MRS. AGNES FRENCH	155.42	
AA 2475	WALLACE BOND	66.52	
AA 2476	TWIN VALLEY SCH. DIST. NO. 5	2.00	
AA 2477	JOHN W. LANDERS ET UX	157.00	
AA 2478	HENRY WOLD ET AL	60.00	
AA 2479	DELETED		
AA 2492E	CHARLES E. FRENCH		6.63
AA 2481	ALBERT W. TILL	79.90	
AA 2482	INGRID HELLIE	39.86	
AA2498E	ARLEY CHRISTOPHERSON, ET UX		0.07
AA 2485-2	ALICE SAX, ET AL	1.26	
AA 2485-3	ALICE SAX, ET AL	0.60	
AA 2499	CARROLL JOHNSTON, ET UX	2.84	
(4) AA2501E	Patrick P. O'Neill, et al		0.53

NOTE:
Oil and Gas reserved in all tracts

ACQUISITION AUTHORIZATION

① Public Law No. 534, 22 Dec 1944
② 2nd Ind. O.C.E. to M.R.D., dated 4 May 1951
③ 10TH Ind OCE to MRD dated 4 Nov 1971
④ Quitclaim Deed dated 7 Jun 1979

DATE	BY	REVISIONS	APPROVED
5-29-69	M.W.P.	Name of Project' added transfer	
9-29-70	R.E.P.	Revised Project Name	
7-2-76	R.E.P.	Added Trs. AA 2483 thru AA 2497.	
1-6-78	P.L.P.	REVISED TR; AA2492 ADDED TR. AA2492E.	
2-23-78	R.C.L.	REVISED OWNERS NAME FOR TR. AA2498	
4-12-78	R.C.L.	Deleted Trs. AA2493-1&2, Added Trs. AA2493E-1&2	
2-27-78	M.C.D.	Deleted Trs AA2498 Added Trs AA2498E	
11-8-78	L.K.N.	Revised Acreage Tract AA2484	

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY WILLIAMS & MCKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT 1 APRIL 1960

LOCATION OF DAM SEC. 5 T. 146N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT AA
LAND AREA

TOTAL ACRES IN SEGMENT 9,767.89

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

* Total includes 0.53 of an acre reserved in fee Disposal.

DISPOSALS

TOTAL ACRES DISPOSED OF 71.66

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

LEGEND

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

SCALE
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM-LAKE SAKAKAWEA, NO. DAK.

SEGMENT AA

RECOMMENDED: DATE: 3 Aug. 1953

APPROVED: DATE: 6 Aug. 1953
COL. CORPS OF ENGINEERS

COMPILED: TRACED: CHECKED:

DATE	BY	REVISIONS	APPROVED
7-2-52	M.C.J.	Taking line change, AA 2424-78.97 ac. to 117.94 ac.	
2-6-53	M.C.J.	Taking line change, AA 2426-40.00 ac. to 10.00 ac.	
5-6-53	M.C.J.	Taking line change, AA 2454-371.40 ac. to 211.40 ac.	
7-19-54	M.C.J.	Taking line changes, AA 2424A (77.94 ac.) eliminated; AA 2423-1298.15 ac. to 1,063.15 ac.	
3-15-63	H.A.Z.	Due to Final Audit	

SHEET: 28 OF 36 DRAWING NO.

J. S. BLUE CO., CHICAGO 75 3-20-47
FORM 177A

ATTACHMENT TO OCT 11TH 2017 EMAIL FROM PRIDAL TO TOSO
GA_River_Mile_Conversion_Tables.xlsx.

Garrison Dam - Lake Sakakawea			
Mainstem Sediment Range Name & Mileage			
Original	1941 River Mile - Range No.	1960 River Mile	Δ R.M.
	FP Dam	1771.50	
1B	1690.7	1590.20	181.30
1A	1685.8	1584.85	5.35
1C	1684.4	1583.56	1.29
1D	1683.2	1582.39	1.17
1	1682.1	1581.26	1.13
1E	1681.1	1580.19	1.07
1F	1680.0	1578.94	1.25
2A	1678.5	1577.27	1.67
2	1678.0	1576.77	0.50
2B	1676.6	1575.38	1.39
2C	1675.3	1574.03	1.35
3	1674.1	1573.18	0.85
3A	1673.4	1572.49	0.69
3B	1672.6	1571.75	0.74
4	1671.6	1570.73	1.02
4A	1671.2	1570.30	0.43
4D	1670.2	1569.20	1.10
5	1668.8	1568.79	0.41
5B	1665.5	1568.25	0.54
5C	1664.8	1567.54	0.71
6	1663.9	1566.57	0.97
6A	1662.9	1565.49	1.08
7A	1661.9	1564.58	0.91
7	1661.3	1563.64	0.94
7B	1660.7	1563.25	0.39
8	1659.0	1561.71	1.54
----	1657.3	1559.79	1.92
9	1655.8	1558.34	1.45
9A	1653.2	1555.54	2.80
9B	1651.3	1553.84	1.70
10	1650.3	1552.85	0.99
10A	1648.1	1550.83	2.02
11	1646.0	1548.89	1.94
11A	1644.5	1547.82	1.07
11B	1639.7	1544.45	3.37
12	1639.5	1544.29	0.16
12A	1636.2	1540.00	4.29
13	1632.8	1537.90	2.10
13A	1629.4	1535.54	2.36
13B	1627.5	1533.67	1.87
14	1627.5	1533.67	0.00
14A	1626.0	1532.25	1.42
14B	1624.3	1530.42	1.83

Garrison Dam - Lake Sakakawea		
Tributary Sediment Range Name &		
Stream	Original	1941 River Mile
Yellowstone River	5Y	Y19.6
	4Y	Y12.9
	3Y	Y9.6
	2Y	Y6.8
	1YE	Y5.9
	1YD	Y4.7
	1Y	Y3.6
	1YC	Y2.7
	1YB	Y1.8
	1YA	Y0.6
Little Muddy River	2M	MUD 8.4
	1M	MUD 3.2
	3M	MUD 0.4
Tobacco Garden Cr	T3	TG 4.9
	T2	TG 2.9
	T1	TG 1.0
White Earth Creek	W4	WE 11.4
	W3	WE 9.8
	W2	WE 8.2
	W1	WE 6.9
Bear Den Creek	B3	BD 4.0
	B2	BD 2.3
	B1	BD 0.2
Shell Creek	S2	SH 31.7
	S1	SH 29.6
	23B	SH 25.7
	23C	SH 13.2
Little Missouri Rive	11L	LM 63.6
	10L	LM 60.1
	9L	LM 56.8
	8LA	LM 53.8
	8L	LM 51.0
	7LA	LM 45.7
	7L	LM 43.1
	6LA	LM 40.4
	6L	LM 36.6
	5L	LM 30.2
	4L	LM 23.9
	3L	LM 18.3
	2L	LM 12.5
	1L	LM 7.0
Hans Creek	H3	H 3.7
	H2	H 2.9
	H1	H 1.5

15	1622.1	1528.68	1.74
15A	1619.8	1526.94	1.74
15B	1616.5	1523.90	3.04
16	1613.6	1521.59	2.31
16A	1610.8	1519.67	1.92
16B	1607.5	1517.87	1.80
17	1605.8	1516.17	1.70
17C	1602.8	1514.09	2.08
17A	1600.7	1512.18	1.91
17D	1598.8	1510.59	1.59
17B	1595.2	1508.66	1.93
18	1592.8	1506.45	2.21
18B	1590.5	1504.39	2.06
18C	1587.4	1501.85	2.54
18A	1584.8	1499.62	2.23
18D	1581.8	1497.11	2.51
19	1578.2	1494.57	2.54
19A	1573.5	1492.25	2.32
----	1570.6	1489.84	2.41
20	1567.2	1487.50	2.34
20B	1563.8	1485.72	1.78
20A	1561.6	1483.92	1.80
20C	1557.2	1480.60	3.32
21	1554.2	1477.74	2.86
21A	1548.5	1472.07	5.67
22	1545.1	1468.84	3.23
23	1538.0	1462.28	6.56
23A	1531.6	1456.48	5.80
23F	1528.0	1453.37	3.11
23D	1524.9	1450.13	3.24
23E	1517.0	1445.04	5.09
24	1511.2	1439.27	5.77
25	1506.6	1434.68	4.59
----	1499.3	1428.28	6.40
27	1490.3	1421.71	6.57
28	1485.4	1417.16	4.55
28A	1482.3	1414.42	2.74
29	1476.8	1409.47	4.95
30	1469.9	1402.81	6.66
31	1465.8	1398.46	4.35
32	1461.6	1394.65	3.81
33	1459.6	1392.60	2.05
34	1456.6	1391.12	1.48
----	**GA Dam**	1389.86	1.26
	Average Distance between Sediment Ranges		**2.33**

Douglas Creek	D4	D 20.2
	D3	D 17.6
	D2	D 16.4
	D1	D 10.8
Snake Creek	32A	SN 20.2
	32B	SN 14.9
	32F	SN 8.2
	32C	SN 5.3
Wolf Creek	32E	W 4.1
	32D	W 1.0

Garrison Degradation Reach			
Mainstem Sediment Range Name & Mileage			
Original	1941 River Mile Range No.	1960 River Mile	Δ R.M.
	GA Dam	1389.86	
101	1453.4	1388.19	1.67
101A	1452.3	1387.09	1.10
102	1451.1	1385.88	1.21
103	1450.1	1384.86	1.02
103A	1448.4	1383.33	1.53
104	1447.3	1382.25	1.08
104B	1446.4	1381.34	0.91
104A	1445.5	1380.43	0.91
104C	1444.7	1379.68	0.75
105	1443.8	1379.00	0.68
105B	1443.3	1378.42	0.58
105C	1442.4	1377.53	0.89
105A	1441.7	1376.71	0.82
105D	1440.8	1375.89	0.82
106	1440.0	1374.91	0.98
106A	1439.5	1374.58	0.33
106B	1438.8	1373.80	0.78
107	1437.4	1372.50	1.30
107A	1436.2	1371.37	1.13
108	1435.0	1370.29	1.08
108A	1433.4	1368.89	1.40
109	1431.8	1367.40	1.49
110	1430.7	1366.24	1.16
110A	1429.0	1364.87	1.37
110B	1427.8	1363.86	1.01
111	1426.5	1362.55	1.31
112	1424.5	1360.40	2.15
113	1422.5	1358.50	1.90
114	1420.3	1356.50	2.00
115	1417.7	1353.85	2.65
116	1415.6	1351.83	2.02
116A	1413.3	1349.46	2.37
117	1410.2	1346.46	3.00
117A	1408.5	1344.72	1.74
117B	1407.0	1343.30	1.42
118	1405.0	1341.40	1.90
118A	1403.2	1339.67	1.73
118B	1401.6	1338.05	1.62
119	1400.4	1336.82	1.23
120	1399.5	1335.91	0.91
	1397.7	1334.37	1.54
	1395.9	1332.73	1.64
	1394.3	1330.99	1.74
	1393.2	1330.18	0.81
	1391.8	1328.58	1.60
	1390.0	1326.69	1.89
	Average Distance between Sediment		1.37

Garrison Degradation Reach		
Tributary Sediment Range Name &		
Stream	Original	1941 River Mile
Knife River	K 1	K-0.5
	K 2	K 1.3
	K 3	K 2.5
	K 4	K 3.8
	K 5	K 6.1

Garrison Degradation Reach		
Other Important Locations	1941 River Mile	1960 River Mile
Stanton Gage		1380.7
Hensler Gage		1362.8
Price Gage		1333.8

ATTACHMENT TO OCT 11TH 2017 EMAIL FROM PRIDAL TO TOSO
GA_Sak_Survey_Control_Data.xlsx.

Garrison Project - Lake Sakakawea - Hydrographic Surveys Update (2010-2012)

Range Number	Bank	Provided Station	Station	Elevation NAVD 88	Elevation NGVD 29	Elevation Provided	Discrepancy Found	SPC (NAD83) North Dakota North 3301 Northing	SPC (NAD83) North Dakota North 3301 Easting	Description	Remarks
1690.7	Left	100+00	100+00.0	2,013.01	2,011.24	2,011.61	0.37	402,325.739	1,086,095.981	COE Monument & Carsonite	**Found 2011**, Found 2001
1690.7	Left	134+00	133+98.7	1,880.62	1,878.86	1,879.42	0.56	399,867.563	1,083,748.987	2" Pipe & Carsonite	**Found 2011**, Found 2001
1690.7	Left	139+03.2	139+01.6	1,879.37	1,877.60	1,878.12	0.52	399,503.674	1,083,401.882	3/4" Pipe & Carsonite	**Found 2011 (10' from HB)**, Found 2001
1690.7	Right		159+31.7	1,876.27	1,874.50			398,035.230	1,082,000.092	COE Brass Cap & Carsonite	**Found 2011**
1690.7	Right	169+07	169+01.0	1,873.78	1,872.01	1,872.15	0.14	397,334.328	1,081,330.455	3/4" Pipe & Carsonite	**Found 2011**, did not get to 2001
1690.7	Right	216+71.27	216+63.0	1,993.22	1,991.43	1,991.78	0.35	393,890.544	1,078,041.636	COE Monument & Carsonite	**Found 2011**, did not get to 2001, Found 1987
1685.8	Left	100+00				1,887.99				COE Monument	**Not Found 2011 (did not reset- in field),** Did not try to find in 2001
1685.8	Left		162+49.5	1,875.48	1,873.71			386,406.904	1,090,668.878	COE Brass Cap & Carsonite	**Found 2011 (at toe of old HB),** Set 2001
1685.8	Left	169+44				1,869.98				COE Brass Cap	**Not Found 2011 (did not reset),** Not Found 2001
1685.8	Left	171+44	171+47.2	1,873.59	1,871.82	1,872.28	0.46	385,588.035	1,090,301.051	COE Brass Cap & Carsonite	**Found 2011 (TBM 15' from HB)**
1685.8	Left	172+60				1,870.64				3/4" Pipe	**Not Found 2011 (did not reset- in water),** Found 2001 COE brass cap- Probably found the above Brass Cap
1685.8	Right	183+00	183+02.7	1,890.65	1,888.87	1,889.28	0.41	384,534.031	1,089,827.619	1" Pipe & Post & Plate	**Found 2011 (300' from HB),** Found 2001, RWE in 1987
1685.8	Right	184+89.4	184+92.2	1,891.83	1,890.05	1,890.49	0.44	384,361.196	1,089,749.944	COE Brass Cap & Carsonite	**Found 2011**, Set 1989
1685.8	Right	201+00.8	201+00.8	1,959.78	1,958.00	1,958.35	0.35	382,893.825	1,089,090.751	COE Monument & Carsonite	**Found 2011**, Found 2001
1684.4	Left	20+00	20+00.0	1,879.57	1,877.80	1,878.20	0.40	386,914.122	1,096,482.634	2" Pipe, Wooden Plate, & Sign Post	**Found 2011 (along side of irrigation road),** Found 2001
1684.4	Left	22+83.3	22+86.2	1,872.58	1,870.82	1,871.21	0.39	386,627.984	1,096,477.628	COE Brass Cap & Carsonite	**Found 2011 (10' from HB),** Found 2001, Set in 1989
1684.4	Right	38+57	38+53.5	1,869.09	1,867.33	1,867.06	-0.27	385,060.939	1,096,446.663	1-1/2" Pipe & Carsonite & Post & Plate	**Found 2011 (40' from HB),** Not Found 2001
1684.4	Right	40+53	40+55.5	1,868.46	1,866.70	1,866.42	-0.28	384,858.999	1,096,442.790	COE Brass Cap & Carsonite	**Found 2011,** Set in 1989
1683.2	Left	21+73	21+73.0	1,868.45	1,866.70	1,867.35	0.65	383,462.868	1,102,483.757	Brass Cap & Carsonite	**Found 2011**, Found 2002
1683.2	Left	22+45	22+43.9	1,869.22	1,867.47			383,397.622	1,102,455.887	Carsonite	**Found 2011**, Set 2002 across from open field on R/B, D/S of Fort Buford
1683.2	Left	22+83	22+82.8	1,869.68	1,867.93	1,868.59	0.66	383,362.025	1,102,440.253	1-1/2" Pipe, Carsonite, & Sign Post	**Found 2011 (6' from HB),** Found 2002
1683.2	Right	35+16				1,875.57				Brass Cap & Carsonite	**Not Found 2011**, Not Found 2001
1683.2	Right		37+22.8	1,879.96	1,878.22			382,039.805	1,101,869.832	COE Brass Cap	**Set 2011 - 60' from HB**
1682.1	Right	20+00	20+00.0	1,891.49	1,889.72	1,890.20	0.48	375,326.081	1,099,217.126	4"x4" Conc. COE Monument w/Chiesled "X"& Carsonite	**Found 2011**
1682.1	Right	93+34.6				1,877.99				?? Pipe	**Not Found 2011 (did not reset- in field)**
1682.1	Right		95+83.2	1,873.24	1,871.50			379,376.844	1,105,627.726	Aluminum Cap & Carsonite	**Set 2011**
1682.1	Right	95+84.0				1,872.30				?? Pipe	**Not Found 2011**
1682.1	Right	101+79.5	101+78.7	1,871.94	1,870.20	1,870.42	0.22	379,695.025	1,106,131.105	3/4" Pipe, Carsonite, & Post & Plate x2	**Found 2011**, Found 2001
1682.1	Left	113+65.6	113+64.9	1,881.70	1,879.96	1,880.03	0.07	380,328.856	1,107,133.840	3/4" Pipe, Sign Post, Wooden Plate, & Carsonite	**Found 2011**, Not Found 2005- ground frozen, Found 2001
1682.1	Left	130+56.6	130+55.3	1,893.61	1,891.87	1,892.38	0.51	381,231.918	1,108,562.802	4"x4" Conc. Monument & Carsonite	**Found 2011(50' north of Cottonwood Line)** Not Found 2002
1681.1	Left		10+00.0	1,876.51	1,874.77			376,022.675	1,108,810.318	Hub	**Set 2011 - Hub - 20' from HB**
1681.1	Left	15+34.3				1,872.31				COE Brass Cap	**Not Found 2011,** Set 1989
1681.1	Left	20+00				1,875.36				2" Pipe	**Not Found 2011 (set hub on line 100' from HB),** Not Found 2001, Found 1989
1681.1	Right	33+00				1,867.05				1-1/4" Pipe	**Not Found 2011 (set hub on line 100' from HB**, Not Found 2001, Found 1989
1681.1	Right	34+79.2				1,866.34				COE Brass Cap	**Not Found 2011**, Set in 1989
1681.1	Right		28+46.9	1,871.42	1,869.67			376,303.197	1,106,984.834	Hub	**Set 2011 - Hub - 20' from HB**
1680.0	Left	22+15.08	22+15.1	1,865.38	1,863.65	1,864.07	0.42	373,419.314	1,111,978.290	COE Brass Cap & Carsonite	**Found 2011**, Not Found 2002, Set in 1989
1680.0	Left	23+81				1,861.97				2x2 Wood Hub, near River	**Not Found 2011 (did not reset),** Not Found 2001-believed destroyed
1680.0	Left	26+22	26+21.2	1,865.08	1,863.35	1,863.00	-0.35	373,072.802	1,112,190.125	Aluminum Cap & Carsonite	**Set 2011**
1680.0	Right	34+82				1,873.97				COE Brass cap	**Not Found 2011 (did not reset-in water),** Not Found 2002 believed destroyed, Set 1989
1680.0	Right	35+92	35+91.2	1,875.37	1,873.63	1,874.10	0.47	372,245.219	1,112,696.133	1-1/4" Pipe & Post & Plate	**Found 2011 (80' from HB),** Found 2002
1680.0	Right		36+91.8	1,875.33	1,873.80			372,161.282	1,112,751.586	COE Brass Cap & Carsonite	**Found 2011,** Set 2010
1678.5	Left	20+31	20+31.0	1,884.62	1,882.89	1,890.58	7.69	379,128.149	1,116,169.181	COE Brass Cap & Carsonite	**Found 2011**, Found 2002, Found 2001
1678.5	Left	21+76	21+76.0	1,877.76	1,876.03	1,883.80	7.77	378,985.289	1,116,194.141	COE Brass Cap & Carsonite	**Found 2011 (also found sign post and carsonite 25' offline)**,Found 2001
1678.5	Right	33+05	33+05.1	1,867.13	1,865.40	1,866.34	0.94	377,873.063	1,116,388.632	2" Pipe & Carsonite	**Found 2011**, Found 2002
1678.0	Right	171+98	171+98.0	1,865.53	1,863.81	1,664.45	-199.36	377,746.930	1,119,647.100	3/4" Pipe & Carsonite	**Found 2011**, Not Found 2002, Found 1988
1678.0	Left	187+11	187+09.9	1,871.31	1,869.58	1,870.24	0.66	379,162.375	1,119,115.811	1-1/4" Pipe & Carsonite	**Found 2011 (25' from HB),** Found 2002, Found 1988
1678.0	Left	188+61.08	186+60.2	1,886.88	1,885.15			379,303.042	1,119,062.663	COE Monument & Carsonite	**Found 2011 (on edge of road),** Found 2002, Found 1988
1676.6	Left	18+24.3	18+24.3	1,870.20	1,868.48	1,868.82	0.34	376,163.478	1,125,950.743	COE Brass Cap & Carsonite	**Found 2011**, Not Found 1987
1676.6	Right	41+60				1,866.94				COE Brass Cap	**Not Found 2011 (did not reset-in water),** Not Found 2002, Set 1989
1676.6	Right	42+77	42+76.6	1,865.29	1,863.56	1,864.31	0.75	374,156.329	1,124,541.802	1-1/2" Pipe, Carsonite, & Post & Plate	**Found 2011,** Not Found 2002, Found 1988
1676.6	Right		42+81.0	1,869.34	1,867.61			374,152.276	1,124,539.880	COE Brass Cap	**Found 2011**
1675.3	Left	20+00				1,876.66				3/4" Pipe	**Did not survey in 2011,** Not FD in 2002, Fd 78; Fd 87 Between abandoned farm
1675.3	Left	21+08.5				1,871.98				COE Brass Cap	**Did not survey in 2011,** Set in 1989. Not FD in 2002
1675.3	Right	41+19				1,863.46				1" Pipe	**Did not survey in 2011,** Set in 1978; Not fd in 2002, 87.
1674.1	Right	20+00	20+00.0	2,058.14	2,056.39	2,056.86	0.47	366,976.994	1,132,968.497	Conc. COE Monument & Carsonite	**Found 2011**, Found 2002
1674.1	Right	22+41				1,869.44				1" Pipe	**Not Found 2011,** Set in 1978: RWE in 1987 @ 22+52: Found 1/2 carsonite on
1674.1	Left	33+80				1,862.35				1" Pipe	**Not Found 2011 (did not reset - point falls in low area),** Fd 78; LWE in 198
1674.1	Left	35+27				1,866.70				?? Pipe	**Not Found 2011,** Set 1972 Not Fd 02
1674.1	Left	36+49	36+54.9	1,868.90	1,867.16	1,867.72	0.56	368,535.950	1,132,413.093	1-1/4" Pipe & Post & Plate	**Found 2011,** Not Found 2002

1674.1	Left	37+13.6				1,874.52				?? Pipe	**Not Found 2011**, Not Fd 02
1674.1	Left	38+34.9				1,872.72				?? Pipe	**Not Found 2011**, Not Fd 02
1674.1	Left	43+19.8	43+19.6	1,876.74	1,875.00	1,875.95	0.95	369,161.461	1,132,188.272	1" Pipe & Carsonite	**Found 2011 (Top of old RR ditch)**, Not Found 2002
1673.4	Left		10+00.0	1,872.26	1,870.53			369,962.205	1,135,396.428	Hub	**Set 2011 - Hub - 20' from HB**
1673.4	Left	20+00				1,870.08				3/4" Pipe	**Not Found 2011** Believed destroyed. Not fd in 2002
1673.4	Left	21+43 (21+55.3)				1869.24 (1870.2)				3/4" Pipe	**Not Found 2011**, Fd 87, 78; LT HB in 1975 21+86. Not FD in 2002
1673.4	Right	42+72				1,867.82				1-1/4" Pipe	**Not Found 2011,** Fd 87, 78; RT HB in 1975 42+55. Not FD in 2002 believed to
1673.4	Right		33+79.2	1,864.87	1,863.13			368,034.819	1,136,791.398	Hub	**Set 2011 - Hub - 20' from HB**
1672.6	Left	20+78	20+78.0	1,871.30	1,869.58	1,870.17	0.59	372,607.793	1,138,809.831	1-1/4" Pipe & Post & Plate	**Found 2011,** Found 2002
1672.6	Left	30+30				1,863.80				2x2 Wood Hub w/Post and Plate	**Not Found 2011 (did not reset)**
1672.6	Island	42+36				1,862.50				2x2 Wood Hub w/Post and Plate	**Not Found 2011 (did not reset at HB - point already there**;, Not Found 2002, Found 1987
1672.6	Right	59+26	59+15.7	1,871.86	1,870.13	1,870.82	0.69	368,999.367	1,140,116.407	1-1/2" Pipe, Carsonite, & Post & Plate	**Found 2011,** Found 2002, Found 1987
1672.6	Right	60+56	59+95.5	1,870.86	1,869.13	1,869.62	0.49	368,924.529	1,140,144.039	COE Brass Cap & Carsonite	**Found 2011 (100' from HB)**, Set 2002
1672.6	Right	61+62.2	61+50.1	1,873.02	1,871.28	1,871.80	0.52	368,779.076	1,140,196.395	1-1/4" Pipe & Post & Plate	**Found 2011**, Found 2002, Found 1987
1671.6	Right		09+88.5	2,106.69	2,104.97			369,917.729	1,145,486.098	Rebar & Brass Cap & Carsonite	**Set 2011**
1671.6	Right	10+00				1,923.14				COE Monument	**Found destroyed 2011**, Not looked for in 2002
1671.6	Right	13+06				1,911.48				?? Pipe	**Not Found 2011 (did not reset),** Not looked for in 2002
1071.6	Right		37+43.6	1,868.32	1,866.60			372,360.093	1,144,211.203	Rebar & Brass Cap & Carsonite	**Set 2011 - 50' from HB**
1671.6	Right	38+48				1,871.36				Rebar & Cap & Carsonite	**Not Found 2011**, Not Found 2002, Found 1987
1671.6	Left	65+56.7	65+56.9	1,871.39	1,869.68	1,870.27	0.59	374,850.365	1,142,902.284	1" Pipe & Post & Plate	**Found 2011,** Not Found 2002, Found 1987
1671.6	Left	66+20.9	66+20.9	1,873.02	1,871.31	1,872.07	0.76	374,907.022	1,142,872.504	COE Monument & Post & Plate & Carsonite	**Found 2011**, Not Found 2002, LWE in 1987
1671.6	Left	180+69.9				1,888.21					**Not Found 2011,** Added 3/8/02 from old survey notes. LJM
1671.6	Left		180+81.7	1,885.96	1,884.28			385,059.346	1,137,554.495	Rebar & Brass Cap & Carsonite	**Set 2011 - 20' North of Ditch**
1671.2	Left	15+61.7				1,866.11				3/4" Pipe	**Not Found 2011 (did not reset- in field)**, Believed destroyed in 1989
1671.2	Left	20+00	20+00.0	1,868.35	1,866.65	1,867.66	1.01	376,383.887	1,144,331.104	1-1/4" Pipe & Post & Plate	**Found 2011 (on old LB)**, Not Found 2002, Found 1987
1671.2	Right	43+74				1,868.26				1" Pipe	**Not Found 2011,** Found 2002, Found 1987
1671.2	Right		44+31.4	1,868.90	1,867.20			375,324.515	1,146,519.576	Rebar & Brass Cap & Carsonite	**Set 2011 - 50' from HB**
1671.2	Right	46+27	46+25.4	1,868.76	1,867.06	1,867.66	0.60	375,240.025	1,146,694.191	COE Brass Cap & Carsonite	**Found 2011**, Set 2002
1671.2	Right	55+85.1	55+83.9	1,869.09	1,867.39	1,867.83	0.44	374,822.122	1,147,556.840	COE Brass Cap & Carsonite	**Found 2011,** Found 2002, Set 1989
1670.2	Left		16+62.7	1,862.90	1,861.22			377,435.415	1,149,409.419	COE Brass Cap	**Found 2011 (10' from HB)**
1670.2	Left	18+39				1,861.51				1-1/4" Pipe	**Not Found 2011 (did not reset)** Fd 02, 87, 78; 1.5' below ground in 78;
1670.2	Left	18+44				1,865.45				1/2" Cap Screw in 18" Boxelder 6' D/S of line	**Not Found 2011** Fd 02, 78; Stake nailed in tree in 78; LT HB in 1975 19+94
1670.2	Right	33+00	33+01.8	1,861.20	1,859.51	1,859.85	0.34	375,798.369	1,149,326.017	1-1/4" Pipe & Carsonite	**Found 2011**, Found 2002, Found 1987
1670.2	Right	34+85.2	34+85.2	1,860.82	1,859.13	1,859.60	0.47	375,615.241	1,149,316.697	COE Brass Cap & Carsonite	**Found 2011,** Set 1989
1668.8	Right	10+00	10+00.0	1,924.52	1,922.81	1,923.14	0.33	372,667.558	1,153,453.642	Monument & Sign Post	**Found 2011**, Found 2002, Found 1987
1668.8	Right	23+25								R.R. Spike in 12" tree with Marker	**Not Found 2011** Fd 02, 78; - 13.4' U/S of line
1668.8	Right	23+03.9	23+00.7	1,867.99	1,866.23	1,866.50	0.27	373,825.179	1,152,854.513	3/4" Pipe, Carsonite, & Post & Plate	**Found 2011**, Found 2002, Found 1987
1668.8	Left	39+42	39+37.8	1,860.25	1,858.55	1,858.41	-0.14	375,280.379	1,152,105.778	Post & Carsonite	**Found 2011 (on RB of main channel)**, Found 1987
1668.8	Left	39+65	39+62.3	1,860.70	1,859.00	1,858.87	-0.13	375,300.750	1,152,090.792	COE Brass Cap & Carsonite	**Found 2011(on RB of main channel)**, Set 1987
1668.8	Left	51+51				1,862.56				R.R. Spike - Post & Plate	**Not Found 2011** FD '87 - In 14" Boxelder - 10' D/S of P&P - 3' Stump FD '78
1668.8	Left	52+83	52+71.8	1,865.13	1,863.44	1,864.00	0.56	376,463.916	1,151,491.017	Post and Marker & Carsonite	**Found 2011 (6' from old LB),** Found 1987
1668.8	Left	87+54								Steel Fence Post	**Not Found 2011** FD '87 - For line only
1668.8	Left	150+83				1,861.60				Post & Plate	**Not Found 2011** FD '88 - Elev to top of post - R/B Old River Channel
1668.8	Left	185+09	185+05.9	1,869.36	1,867.70	1,886.37	18.67	388,211.072	1,145,397.658	5/8" Rebar & Carsonite	**Found 2011 (in old river channel)**, Found 1987
1668.8	Left	240+15	240+10.3	1,887.79	1,886.12	1,867.12	-19.00	393,109.141	1,142,885.135	4"x4" Conc. Monument w/Chieseled "X" & Post & Plate	**Found 2011 (on old LB),** Set 1987
1665.5	Left	18+57.4	18+57.4	1,862.96	1,861.27	1,861.89	-0.62	375,770.10	1,154,355.24	Brass Cap; carsonite	**Found 2011**, Set 1989. Fd 2002
1665.5	Left		19+98.9	1,861.60	1,859.91			375,634.14	1,154,315.92	Carsonite; P&P	**Found 2011 (measured top of post for location)**
1665.5	Left	19+88								Marker on Tree	**Not Found 2011**,Fd 02;
1665.5	Left	20+00				1,862.35				R.R. Spike in tree, 8.5 ft U/S of line	**Not Found 2011**, Fd 02, 87, 78
1665.5	Right	39+44.96				1,860.44				Brass cap	**Not Found 2011 (did not reset under water)**, Set 1989
1665.5	Right	39+47								Carsonite for line	**Not Found 2011**, FD 2002
1665.5	Right	40+56	40+53.8	1,864.89	1,863.18	1,863.75	-0.57	373,660.91	1,153,742.35	1 1/2" Pipe	**Found 2011 (under water)**, Fd 02, 87, 78
1665.5	Right		40+83.7	1,869.74	1,868.04			373,632.22	1,153,733.99	Aluminum Cap; carsonite	**Set 2011**
1666.5	Right		50+88.3	1,924.52	1,922.81			372,667.56	1,153,453.64	Concrete Monument	**Found 2011**
1664.8	Left									Red property boundary cap	**Not Found 2011**
1664.8	Left	17+65	17+65.0	1,867.66	1,865.97	1,866.51	-0.54	377,076.48	1,156,159.94	Brass Cap; carsonite	**Found 2011**, Set in 1987, NOT FD 10
1664.8	Left	20+00				1,857.53				1" Pipe	**Not Found 2011 (under water)**, Fd 78; Not Fd 87, 02
1664.8	Left	22+30				1,855.98				Hub and Post	**Not Found 2011**, Fd 78; Not Fd 87, 02
1664.8	Right	33+58	33+57.9	1,870.64	1,868.94	1,869.22	-0.28	375,765.74	1,157,065.12	1 1/2" Pipe; P/P	**Found 2011**, Fd 10
1664.8	Right	33+88	33+88.3	1,884.30	1,882.60			375,740.59	1,157,082.24	Carsonite for line	**Found 2011**, FD 2010
1663.9	Right	16+00	15+86.7	2,016.72	2,015.03	2,015.32	-0.29	378,717.21	1,160,946.83	Brass Cap; P/P	**Found 2011**, Fd 02

1663.9	Right	20+00	20+00.0	1,876.59	1,874.90	1,875.35	-0.45	379,044.73	1,160,694.80	Concrete Monument; P/P	**Found 2011**, Fd 10
1663.9	Right	20+99								Post and Plate for line	**Not Found 2011 (destroyed falls in water)**
1663.9	Left	33+59				1,858.59				Brass Cap	**Not Found in 2011**, Set in 1987; Not FD 2002 or 2010
1633.9	Left		34+83.0	1,867.79	1,866.11			380,232.59	1,159,806.93	Aluminum Cap; carsonite	**Set in 2011**
1663.9	Left	34+83				1,867.97				1" Pipe	**Not Found 2011**, Fd 78; Not FD 2002 or 2010
1663.9	Left	40+00	40+03.5	1,869.58	1,867.90	1,868.64	-0.74	380,649.54	1,159,495.31	1 1/4" Pipe	**Found 2011**, NOT FD 10
1663.9	Left	190+30.7				1,860.76					**Not Found 2011 (falls in farmed field, did not reset)**
1663.9	Left		224+11.0	1,883.08	1,881.43			395,393.65	1,148,475.07	Brass Cap; carsonite	**Set 2011** (edge of farmed field)
1663.9	Left	226+14.7				1,884.46				Monument	Not Found 2011 (stationing falls in farmed field)
1662.9	Left	12+90.5	12+90.5	1,865.23	1,863.56	1,864.13	-0.57	384,881.94	1,161,267.03	Rebar; Carsonite	**Found 2011**, Set 1989. FD in 2002 a reber w/yellow cap
1662.9	Left	20+00 (19+97.5)				1867.51 (1866.8)				1 1/2" Pipe	**Not Found 2011**, Fd 87, 78 Believed destroyed by 2002
1662.9	Left		20+55.0	1,868.32	1,866.65			384,740.91	1,162,018.45	Aluminum Cap; carsonite	**Set 2011**
1662.9	Right	30+33	30+33.0	1,874.57	1,872.89	1,873.42	-0.53	384,560.58	1,162,979.66	Brass Cap; P/P	**Found 2011**, Fd 02
1662.9	Right	31+72	31+72.2	1,867.32	1,865.64	1,856.92	8.72	384,534.88	1,163,116.47	Brass Cap; carsonite	**Found 2011**, Set 2002
1662.9	Right	32+11	32+10.5	1,872.78	1,871.11	1,871.77	-0.66	384,527.86	1,163,154.06	1 1/2" Pipe; P/P	**Found 2011**, Fd 02, 87
1661.9	Left		99+99.8	1,860.35	1,858.69			389,179.49	1,162,306.20	Brass Cap; carsonite	**Set in 2011**
1661.9	Left	100+00				1,861.54				Monument	**Not found 2011**, Bent in 1975, Fd 87. Did not Find 2002
1661.9	Left	103+48								Post and Marker	**Not Found 2011**, Line post Fd 87. Did not Find 2002
1661.9	Right	124+81.2	124+81.4	1,866.07	1,864.41	1,864.85	-0.44	389,380.86	1,164,779.69	Brass Cap; carsonite	**Found 2011**, Fd 10
1661.9	Right	133+39.7	133+39.7	1,866.78	1,865.12	1,865.41	-0.29	389,450.51	1,165,635.13	Brass Cap; P/P	**Found 2011**, Fd 02, 87, 78; Common w/ 1661.3 RT Monument
1661.3	Right	19+96.4	19+96.4	1,949.16	1,947.49	1,947.89	-0.40	387,728.20	1,167,014.66	Concrete Monument; P/P	**Found 2011**, Fd '10; common with Rg 1659.0 Missouri River Part
1661.3	Right	42+03.7	42+03.1	1,866.78	1,865.12	1,865.41	-0.29	389,450.51	1,165,635.16	Brass Cap; P/P	**Found 2011**, Fd 02, 87, 78; Common with Rg 1661.9 133+39.7
1661.3	Right	155+61	155+51.7	1,863.94	1,862.30	1,863.25	-0.95	398,208.78	1,158,417.92	Rebar; Carsonite	**Found 2011,** Set in 1987 Trenton Lake
1661.3	Right	193+18	193+09.5	1,867.58	1,865.94	1,866.37	-0.43	401,115.07	1,156,035.85	3/4" Pipe; carsonite	**Found 2011**, Fd 87; Trenton Lake
1661.3	Right	253+52	253+44.2	1,863.28	1,861.63	1,861.98	-0.35	405,781.92	1,152,209.78	1 1/4" Pipe; P/P	**Found 2011**, Fd 78; Trenton Lake
1661.3	Left	264+93				1,858.68				Pipe	**Not found 2011**, Fd 87, 78
1661.3	Left	267+14.7	267+05.3	1,901.27	1,899.62	1,899.77	-0.15	406,834.35	1,151,346.72	Concrete Monument; P/P	**Found 2011**, Fd 02, 87
1660.7	Left		200+00.0	1,862.29	1,860.65			395,387.77	1,161,618.08	Hub	**Set in 2011 - Hub - 25' from HB**
1660.7	Left									Brass Cap	**Not found 2011**
1660.7	Left	15+92 (17+87.2)				1858.59 (1857.93)				2" Pipe	**Not found 2011**, Fd 87, 78; Not Fd 2002
1660.7	Right	40+63				1,859.48				Pipe	**Not found 2011**, Fd 02, 87, 78
1660.7	Right		208+80.4	1,860.61	1,858.96			395,590.44	1,162,474.82	Hub	**Set in 2011 - Hub - 25' from HB**
1659.0	Right	19+99.1	19+88.6	1,949.16	1,947.49	1,947.89	-0.40	387,728.20	1,167,014.66	Concrete Monument, P&P	**Found 2011**, Fd 10; Also common with 1661.3R
1659.0	Right	64+44.6	64+44.6	1,864.00	1,862.35	1,862.62	-0.27	392,095.39	1,166,129.40	3/4" Pipe, P&P	**Found 2011**
1659.0	Right	91+29.9	91+29.5	1,858.70	1,857.05	1,857.08	-0.03	394,726.94	1,165,596.69	3/4" Pipe, P&P	**Found 2011**, Fd 78
1659.0	Right	149+50.8				1,856.53				pipe	**Not found 2011**
1659.0	Right	158+68				1,859.22				Brass Cap	**Not Found 2011**
1659.0	Right		158+66.6	1,858.50	1,856.86			401,329.92	1,164,259.03	Aluminum Cap & Carsonite	**Set 2011**
1659.0	Left	~193+30				1,861.44				pipe	**Not Found 2011**
1659.0	Left	193+38	193+36.7	1,861.78	1,860.14	1,860.83	-0.69	404,730.87	1,163,570.00	3/4" Pipe; carsonite	**Found 2011**, Fd 87, 78 Not FD 2010
1659.0	Left	197+06				1,859.98				3/4" Pipe	**Not Found 2011**, Ditch of Road. NOT FD 10
1659.0	Left		197+95.5	1,860.78	1,859.14			405,180.45	1,163,478.33	1 1/4" Pipe; carsonite	**Found 2011**
1659.0	Left	214+30.5				1,858.98				Pipe	**Not Found 2011**
1659.0	Left	245+31				1,859.02					**Not Found 2011**
1659.0	Left	260+73.3	260+71.8	1,874.27	1,872.63	1,872.85	-0.22	411,331.98	1,162,233.31	Concrete Monument; P/P	**FD '11**, Fd 87, NOT FD 10
1655.8	Right	19+66.24	19+66.2	1,895.41	1,893.76	1,893.94	-0.18	397,788.49	1,178,822.40	Monument	**Found 2011**, Fd 10
1655.8	Right	20+00	20+00.2	1,894.50	1,892.86	1,893.02	-0.16	397,821.43	1,178,814.30	Monument, P&P	**Found 2011**, Fd 10
1655.8	Right	20+69				1,856.03				3/4" Pipe, P&P	**Found 2011**, Fd 10
1655.8	Left	45+24				1,852.96				1 1/2" Pipe; carsonite; P/P	**Found 2011**, Fd 87, 78
1655.8	Left	71+28				1,861.23				Pipe	**Not found 2011**
1655.8	Left	105+70.8	105+69.4	1,857.49	1,855.86	1,856.82	-0.96	406,140.01	1,176,756.95	Pipe; carsonite	**Found 2011**
1655.8	Left		201+65.2	1,876.94	1,875.30			415,455.17	1,174,453.15	Brass Cap; carsonite	**Set 2011**
1655.8	Left	201+64.6				1,874.57				Pipe	**Not found 2011**, NOT FD 10
1651.3	Left	100+00				2,011.15				Monument	**Not Found 2011**
1651.3	Left	100+11.9				2,008.86				Pipe	**Not Found 2011**
1651.3	Left	105+06.4	105+06.4	1,886.95	1,885.31	1,885.53	-0.22	417,560.55	1,178,135.41	1" Pipe; P/P	**Found 2011**
1651.3	Left	107+46.10	107+45.1	1,863.16	1,861.52	1,861.98	-0.46	417,374.25	1,178,284.69	1" Pipe; P/P	**Found 2011**, Fd 78
1651.3	Right	126+38	126+37.5	1,852.05	1,850.41	1,850.99	-0.58	415,897.63	1,179,468.27	Brass Cap; carsonite	**Found 2011**
1651.3	Right	152+33.9				1,854.61				1" Pipe	**Not Found 2011**
1651.3	Right	289+15.1	289+09.3	1,920.13	1,918.46	1,918.60	-0.14	403,203.11	1,189,647.62	1" Pipe; P/P	**Found 2011**, Fd 78; Fd 02
1651.3	Right	289+30.5	289+24.9	1,921.08	1,919.42	1,919.59	-0.17	403,190.95	1,189,657.31	Monument; P/P	**Found 2011**, Fd 02

1650.3	Right	18+11.1	18+19.0	1,933.55	1,931.88	1,931.99	-0.11	405,865.32	1,192,168.01	Monument; carsonite	**Found 2011**, Fd 02; Same as R/B 1648.1
1650.3	Right	186+38	186+38.7	1,854.03	1,852.39	1,853.15	-0.77	419,914.52	1,182,920.23	1/2" Pipe; carsonite	**Found 2011**, Fd 02, 87, 78
1650.3	Left	201+31	201+31.4	1,858.23	1,856.59	1,857.13	-0.54	421,161.57	1,182,099.82	3/4" Pipe; P/P	**Found 2011**, Fd 10
1650.3	Left	202+60.9	202+61.0	1,913.91	1,912.27	1,912.31	-0.04	421,269.99	1,182,028.79	Concrete Monument; P/P	**Found 2011**, Fd 10
1650.3	Left	209+98	209+98.0	1,960.70	1,959.06	1,959.04	0.02	421,885.83	1,181,624.01	Monument; P/P	**Found 2011**, Not Fd 87, falls in plowed field
1648.1	Left	100+00	100+00.0	1,896.14	1,894.50	1,894.86	-0.36	430,552.41	1,191,517.38	MRC Monument; P&P	**Found 2011**, FD 02, 89
1648.1	Left	109+83.3	109+81.1	1,864.11	1,862.47	1,862.67	-0.20	429,571.68	1,191,543.23	Monument; carsonite	**Found 2011**, Fd 02
1648.1	Right	178+24				1,848.17				Brass Cap	**Not Found 2011**, Set in 1989
1648.1	Right	203+76				1,850.23				Brass Cap	**Not Found 2011**, Set in 1989
1648.1	Right	339+78				1,863.70				5/8" Rebar	**Not Found 2011**, Set in 1989
1648.1	Right		346+03.0	1,905.69	1,904.03			405,957.79	1,192,159.00	5/8" Rebar	**Found 2011**
1648.1	Right	346+97.9	346+95.7	1,933.55	1,931.88	1,931.99	-0.11	405,865.32	1,192,168.01	Monument; carsonite	**Found 2011**, Fd 02, 89
1646.0	Right	16+11	16+11.0	1,924.03	1,922.38	1,922.44	-0.06	414,102.65	1,202,638.19	Concrete Monument; P/P	**Found 2011**, Fd 02;
1646.0	Right	16+16.6	16+16.6	1,924.13	1,922.49	1,922.50	-0.02	414,108.08	1,202,636.75	1" Pipe; carsonite	**Found 2011**, Fd 02, 87
1646.0	Right	17+67.4	17+67.4	1,860.52	1,858.88	1,859.04	-0.16	414,253.49	1,202,596.85	Brass Cap; P/P	**Found 2011**, Fd 02, 87
1646.0	Right	19+44	19+44.5	1,855.59	1,853.95	1,854.08	-0.13	414,424.25	1,202,549.80	Brass Cap; carsonite	**Found 2011**, Set in 2002
1646.0	Right	89+02				1,849.70				Brass Cap	**Not Found 2011**, Set in 1987
1646.0	Left	106+93				1,848.59				Brass Cap; carsonite	**Found 2011**, Set in 1987
1646.0	Left	161+12	161+17.1	1,862.84	1,861.20	1,861.88	-0.68	428,093.98	1,198,807.91	Monument; P/P ; carsonite	**Found 2011**, Fd '10
1646.0	Left	169+29				1,845.95				Brass Cap	**Did not search for 2011**, Reset in 1987
1646.0	Left	228+15.4				1,895.69				Monument	**Did not search for 2011**
1644.5	Left	99+15.6	99+15.6	1,862.30	1,860.69	1,860.91	-0.23	427,491.68	1,206,131.71	Monument; carsonite	**Found 2011**, Fd 10;
1644.5	Right	197+56.7				1,853.31				Pipe	**Found 2011 (destroyed did not reset),** Fd 87, 78
1644.5	Right	198+85	198+79.8	1,937.42	1,935.79	1,936.35	-0.56	417,934.30	1,208,949.72	Pipe; P/P	**Found 2011**, Fd 87
1644.5	Right	201+51	201+46.4	2,040.91	2,039.28	2,036.55	2.73	417,678.42	1,209,024.62	Brass Cap; P/P	**Found 2011**
1639.7	Left	100+00	100+00.0	1,915.21	1,913.60	1,913.71	-0.11	429,632.80	1,221,222.25	Monument; P/P	**Found 2011**, Fd 03, 87, 78; Same as MUD 0.4 L
1639.7	Left	131+93				1,854.03				Pipe	**Not Found 2011**, Fd 78;
1639.7	Right	262+67.6	262+59.8	1,900.80	1,899.18	1,899.52	-0.34	417,188.75	1,210,756.73	3/4" Pipe; P/P	**Found 2011**, Fd 03, 87, 78;
1639.7	Right	267+62.7	267+54.0	1,998.28	1,996.66	1,997.60	-0.94	416,810.35	1,210,438.84	Brass Cap; P/P	**Found 2011**, Fd 03; Same as 1639.5 R
1639.5	Right	24+88.87	24+88.9	1,998.28	1,996.66	1,997.60	-0.94	416,810.35	1,210,438.84	Brass Cap; P/P, 1" Pipe	**Found 2011**, Fd 03, 87, 78; same as 1639.7 R
1639.5	Right	30+48	30+49.9	1,898.66	1,897.04	1,896.80	0.24	416,958.07	1,210,980.11	Brass Cap; P/P	**Found 2011**, Fd 78; Fd 87
1639.5	Right	32+12.9				1,864.65				Monument; P/P	**Not Found 2011 (point falls in water)**, Fd 03
1639.5	Left	52+44				1,841.28				Brass Cap	**Not Found 2011**, Set in 1987;
1639.5	Left	155+20.8	155+14.5	1,881.52	1,879.90	1,880.28	-0.38	420,244.31	1,223,003.68	Concrete Monument; P/P	**Found 2011**, Fd 03, 87, 78;
1639.5	Left	163+16.54	163+09.8	1,914.95	1,913.33	1,913.50	-0.17	420,454.06	1,223,770.79	Monument; carsonite	**Found 2011**, Fd 03
1636.2	Left	100+00	**100+00.0**	1,925.88	1,924.25	1,924.40	0.15	409096.32	1224259.95	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '87, FD '78
1636.2	Right	121+15				1,845.29				Brass Cap	**NF '12**, SET '87
1636.2	Right	215+29.5	215+26.7	1,910.44	1,908.81	1,908.36	-0.45	408580.42	1212744.79	COE Brass Cap/Carsonite	**FD '12**
1632.8	Right	16+32.8	**16+32.8**	1,921.23	1,919.58	1,919.64	0.06	395878.91	1213444.76	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '87
1632.8	Right	16+84.4	16+84.3	1,912.82	1,911.17	1,911.22	0.05	395892.07	1213494.55	Concrete Monument/Post & Plate	**FD '12**, FD '03, FD '87, FD '78
1632.8	Island	48+87				1,844.20				3/4" Pipe	**NF '12**, FD '87
1632.8	Left	133+31.8	133+23.2	1,858.57	1,856.95	1,857.18	0.23	398867.09	1224746.81	1" Pipe/Post & Plate	**FD '12**, FD '87, FD '78
1632.8	Left	136+89.2	136+80.8	1,952.68	1,951.06	1,951.00	-0.06	398958.62	1225092.48	Concrete Monument/Post & Plate	**FD '12**
1629.4	Left	100+00	**100+00.0**	1,962.85	1,961.22	1,961.23	0.01	391790.40	1230210.09	COE Brass Cap/Carsonite	**FD '12**, FD '03
1629.4	Left	114+22	114+22.0	1,873.43	1,871.80	1,871.61	-0.19	391049.03	1228996.67	COE Brass Cap/Carsonite	**FD '12**, SET '03
1629.4	Left	114+68.39	114+68.0	1,871.56	1,869.93	1,869.92	-0.01	391025.89	1228956.85	COE Brass Cap/Carsonite	**FD '12**, FD '03, FD '87, FD '78
1629.4	Right	223+70.47	223+67.2	1,858.90	1,857.27	1,857.52	0.25	385349.96	1219652.19	3/4" Pipe/Post & Plate	**FD '12**, FD '87, FD '78
1629.4	Right	226+65.95	226+62.7	1,913.73	1,912.10	1,912.14	0.04	385196.09	1219399.96	4" Pipe/Carsonite	**FD '12**
1629.4	Right	229+49.27	229+45.5	1,904.64	1,903.00	1,903.03	0.03	385048.87	1219158.48	6" COE Brass Cap/Carsonite	**FD '12**
1627.5	Left	100+00	**100+00.0**	2,000.85	1,999.22	1,999.33	0.11	390461.17	1236839.71	COE Brass Cap/Carsonite	**FD '12**, FD '03 - **Common with 1626.0**
1627.5	Left	141+95.2	141+93.9	1,868.62	1,867.00	1,866.90	-0.10	386836.40	1234730.22	1 1/4" Pipe/Post & Plate	**FD '12**, FD '03, FD '87, FD '78
1627.5	Right	269+00				1,857.17				3/4" Pipe	**NF '12**, FD '87, FD '78
1627.5	Right		269+31.1	1,863.77	1,862.14			375827.95	1228323.24	COE Aluminum Cap/Carsonite	**SET '12**
1627.5	Right	275+16.24	274+81.0	1,983.93	1,982.29	1,982.37	0.08	375352.73	1228046.55	COE Brass Cap/Carsonite	**FD '12**
1627.5	Right	278+89.14	278+53.0	1,985.15	1,983.51	1,983.65	0.14	375031.13	1227859.53	COE Brass Cap/Post & Plate	**FD '12**
1626.0	Left	100+00	**100+00.0**	2,000.85	1,999.22	1,999.33	0.11	390461.17	1236839.71	COE Brass Cap/Carsonite	**FD '12**, FD '03 - **Common with 1627.5**
1626.0	Left	150+60.25	150+51.5	1,853.58	1,851.96	1,851.91	-0.05	385537.43	1237968.45	1 1/4" Pipe/Post & Plate	**FD '12**, FD '03, FD '87, FD '78
1626.0	Right	288+84				1,858.05				3/4" Pipe	**FD '12**, FD '87, FD '78
1626.0	Right		290+40.7	1,962.00	1,960.34			371902.40	1241096.53	COE Aluminum Cap/Carsonite	**SET '12**
1626.0	Right	290+58.26	290+51.6	1,963.34	1,961.68	1,961.76	0.08	371891.76	1241099.01	COE Brass Cap/Post & Plate	**FD '12**
1626.0	Right	296+49.21	296+42.1	2,037.10	2,035.44	2,035.47	0.03	371316.21	1241231.02	COE Brass Cap/Post & Plate	**FD '12**

1624.3	Left	100+00	**100+00.0**	1,957.96	1,956.33	1,956.26	-0.07	391340.42	1241483.03	COE Brass Cap/Carsonite	**FD '12**
1624.3	Left	111+83.23	111+83.1	1,908.05	1,906.42	1,906.56	0.14	390453.57	1242266.05	3/4" Pipe/Carsonite	**FD '12**
1624.3	Left	111+92.6	111+91.3	1,907.69	1,906.06	1,906.41	0.35	390447.58	1242271.71	1" Pipe/Post & Plate	**FD '12**, FD '87, FD '78
1624.3	Right	250+12				1,857.50				Pipe	**NF '12**, SET '78
1624.3	Right	255+37.35	255+31.4	2,008.15	2,006.52	2,006.56	0.04	379697.45	1251762.41	COE Brass Cap/Post & Plate	**FD '12**, FD '78
1624.3	Right	261+05.56	260+98.0	2,037.20	2,035.56	2,035.76	0.20	379272.77	1252137.43	COE Brass Cap/Post & Plate	**FD '12**
1622.1	Left	100+00	**100+00.0**	1,920.75	1,919.13	1,919.19	0.06	394601.58	1253356.40	COE Brass Cap/Carsonite	**FD '12**, FD '87
1622.1	Left	103+00				1,853.98				Pipe	**NF '12**, FD '87, FD '78
1622.1	Right	208+55	208+44.7	1,907.57	1,905.94	1,905.99	0.05	384352.46	1256900.82	COE Brass Cap/Carsonite	**FD '12**, FD '03, FD '87, FD '78
1622.1	Right	216+44.95	216+38.9	1,916.05	1,914.41	1,914.52	0.11	383601.88	1257160.37	COE Brass Cap/Carsonite	**FD '12**, NF '03
1619.8	Left	94+39.78	94+40.9	1,917.18	1,915.57	1,915.88	0.31	399080.74	1262355.43	COE Brass Cap/Post & Plate	**FD '12**, FD '87
1619.8	Left	100+00	**100+00.0**	1,885.77	1,884.17	1,884.24	0.07	398532.54	1262465.52	COE Brass Cap/Post & Plate	**FD '12**, FD '87, FD '78
1619.8	Right	225+43.35	225+30.4	1,965.53	1,963.90	1,964.17	0.27	386247.52	1264933.27	1" Pipe/Carsonite	**FD '12**, FD '03, FD '87, FD '78
1619.8	Right	229+14.20	229+00.6	1,980.79	1,979.16	1,979.43	0.27	385884.58	1265006.14	COE Brass Cap/Carsonite	**FD '12**, FD '03, FD '87
1616.5	Left	100+00	**100+00.0**	1,978.48	1,976.88	1,977.05	0.17	399236.59	1279606.51	COE Brass Cap/Carsonite	**FD '12**, FD '03
1616.5	Left	106+20	106+18.3	1,905.06	1,903.47	1,903.66	0.19	398618.34	1279615.46	3/4" Pipe/Post & Plate	**FD '12**, FD '03, FD '87, FD '78
1616.5	Right	230+67.62	230+61.1	1,921.09	1,919.46	1,919.62	0.16	386176.90	1279798.95	4" COE Brass Cap/Post & Plate	**FD '12**, FD '88, FD '87, FD '78
1616.5	Right	233+74.51	233+67.4	1,926.38	1,924.75	1,924.92	0.17	385870.67	1279803.53	4" Pipe/Post & Plate	**FD '12**
1613.6	Left	95+88.88	**95+88.9**	1,908.53	1,906.93	1,906.98	0.05	399468.08	1289105.82	COE Brass Cap/Post & Plate	**FD '12**, FD '87, FD '78
1613.6	Right	192+94.54				1,868.06				3/4" Pipe	**NF '12**, FD '87, FD '78
1613.6	Right		193+53.3	1,871.72	1,870.09			390883.98	1293759.57	COE Aluminum Cap/Carsonite	**SET '12**
1613.6	Right	205+41.19	205+37.8	1,931.62	1,929.99	1,930.20	0.21	389842.68	1294324.19	COE Brass Cap/Carsonite	**FD '12**
1610.8	Left	100+00	**100+00.0**	1,896.33	1,894.74	1,895.23	0.49	404389.43	1292078.41	4" Pipe	**FD '12**, NF '02, FD '78
1610.8	Left		100+02.3	1,894.12	1,892.53			404388.43	1292080.51	COE Aluminum Cap/Carsonite	**SET '12**
1610.8	Left		116+98.4	1,862.69	1,861.10			403887.55	1293700.93	COE Aluminum Cap/Carsonite	**SET '12**
1610.8	Left	117+90				1,859.26				Brass Cap	**NF '12**, NF '02, SET '87
1610.8	Right	211+30.71	211+31.0	1,925.58	1,923.96	1,924.10	0.14	401100.02	1302712.25	4" COE Brass Cap/Carsonite	**FD '12**, FD '87, FD '78
1610.8	Right	221+78	221+78.0	1,915.09	1,913.47	1,913.58	0.11	400790.60	1303712.48	4" COE Brass Cap/Carsonite	**FD '12**
1607.5	Left	120+45.87	**120+45.9**	1,869.68	1,868.11	1,868.16	0.05	413133.99	1296235.90	6" COE Brass Cap/Post & Plate	**FD '12**, NF '02, FD '87, FD '78
1607.5			123+55.4	1,870.84	1,869.27			413016.97	1296522.49	COE Aluminum Cap/Carsonite	**SET '12**
1607.5	Left	124+40				1,868.42				Brass Cap	**NF '12**, NF '02, SET '87
1607.5	Right	218+14	217+94.6	1,870.82	1,869.21	1,869.33	0.12	409450.55	1305261.97	3/4" Pipe/Post & Plate	**FD '12**, FD '78
1607.5	Right	225+92.94	225+85.8	1,976.74	1,975.13	1,975.35	0.22	409152.02	1305994.72	3/4" Pipe/Carsonite	**FD '12**
1607.5	Right	231+50.37	231+42.6	2,061.06	2,059.45	2,059.60	0.15	408941.52	1306510.15	COE Brass Cap/Post & Plate	**FD '12**, FD '87
1605.6	Left	100+00	**100+00.0**	1,950.72	1,949.13	1,949.35	0.22	422673.45	1300319.92	COE Brass Cap/Carsonite	**FD '12**, FD '02
1605.6	Left	117+00	116+99.0	1,857.88	1,856.29	1,856.50	0.21	421673.10	1301693.15	3/4" Pipe/Carsonite	**FD '12**, FD '02, FD '87
1605.6	Right	206+20.03	206+16.6	1,907.08	1,905.47	1,905.51	0.04	416422.12	1308900.93	4" COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '87
1605.6	Right	212+13.84	212+09.8	1,932.97	1,931.36	1,931.51	0.15	416072.79	1309380.33	COE Brass Cap/Post & Plate	**FD '12**, FD '03,
1602.8	Left	100+00	**100+00.0**	1,900.71	1,899.12	1,899.39	0.27	429842.15	1313617.86	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '87
1602.8	Right	226+17.74	226+12.8	1,886.64	1,885.04	1,885.32	0.28	417468.88	1316064.50	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '87
1602.8	Right	231+85.89	231+80.7	1,895.24	1,893.64	1,876.58	-17.06	416911.79	1316174.61	COE Brass Cap/Carsonite	**FD '12**, FD '03
1600.7	Left	87+69.14				1,894.95				6" Monument	**NF '12**
1600.7	Left	98+43.79	**98+43.8**	1,872.75	1,871.16	1,871.39	0.23	432740.35	1323988.84	2" Pipe/Post & Plate	**FD '12**, FD '02, FD '87
1600.7			98+44.1	1,872.70	1,871.11			432740.11	1323988.62	COE Aluminum Cap/Carsonite	**SET '12**
1600.7	Right	234+78.37	234+77.4	1,877.88	1,876.28	1,876.49	0.21	419229.63	1325815.11	1" Pipe/Post & Plate	**FD '12**, FD '02, FD '87
1600.7	Right	239+19.52	239+16.4	1,886.77	1,885.17	1,885.35	0.18	418794.09	1325870.61	Brass Cap/Carsonite	**FD '12**
1598.8	Left	100+00	**100+00.0**	1,883.92	1,882.33	1,882.70	0.37	431711.80	1333089.35	COE Brass Cap/Carsonite	**FD '12**, FD '02, FD '78
1598.8	Left		103+00.5	1,881.92	1,880.33			431411.29	1333088.86	COE Brass Cap/Post & Plate	**FD '12**
1598.8	Right	230+10.89	230+06.3	1,903.65	1,902.05	1,902.16	0.11	418705.53	1333070.72	4" COE Brass Cap/Post & Plate	**FD '12**, FD' 02, FD '78
1598.8	Right	233+23.89	233+19.3	1,898.18	1,896.58	1,896.74	0.16	418392.50	1333070.35	6" COE Brass Cap/Carsonite	**FD '12**
1595.2	Left	94+71	**94+71.0**	1,989.72	1,988.14	1,988.23	0.09	430429.07	1343148.88	6" COE Brass Cap/Carsonite	**FD '12**, FD '02
1595.2	Left	98+49.44	98+49.1	1,874.50	1,872.92	1,872.53	-0.39	430051.19	1343137.12	1 1/2" Pipe/Carsonite	**FD '12**, FD' 02, FD '78
1595.2	Right	178+19	178+12.9	1,864.63	1,863.04	1,862.90	-0.14	422091.07	1342892.61	3/4" Pipe/Carsonite	**FD '12**, NF '02, FD '78
1595.2	Right	193+01.96	192+95.6	2,032.07	2,030.48	2,030.67	0.19	420609.12	1342846.77	6" COE Brass Cap/Carsonite	**FD '12**, FD '02
1592.8	Left	100+00	**100+00.0**	1,902.90	1,901.33	1,901.44	0.11	434514.76	1354393.54	COE Brass Cap/Carsonite	**FD '12**
1592.8	Left		104+56.2	1,889.12	1,887.55			434058.62	1354399.40	COE Aluminum Cap/Carsonite	**SET '12**
1592.8	Left	106+50				1,863.14				4" Monument	**NF '12,** Washed out in 88
1592.8	Left	106+65				1,878.50				3/8" Rebar	**NF '12**, Washed out in 88
1592.8	Right	264+06.72	263+99.4	1,899.03	1,897.44	1,897.98	0.54	418116.73	1354602.42	4" COE Brass Cap/Carsonite	**FD '12**, FD' 03, FD '78
1592.8	Right	270+64.95	270+56.1	2,026.76	2,025.17	2,025.29	0.12	417460.02	1354610.72	6" COE Brass Cap/Post & Plate	**FD '12** FD '03
1590.5	Left	100+00				1,915.00				Monument	**NF '12 - Covered By Gravel Pile**, FD '03

1590.5	Left		126+65.4	1,869.20	1,867.63			433162.27	1366462.24	COE Brass Cap/Carsonite	**FD '12** FD '03
1590.5	Left	133+98.28	133+99.9	1,855.88	1,854.31	1,854.95	0.64	432432.00	1366383.67	1 1/4" Pipe/Post & Plate	**FD '12**, FD' 03, FD '78
1590.5	Right	294+28	**294+28.0**	1,869.70	1,868.11	1,868.27	0.16	416496.24	1364665.46	1" Pipe/Post & Plate	**FD '12**, FD' 03, FD '78
1590.5	Right	296+98.39	296+96.4	1,918.60	1,917.00	1,917.94	0.94	416229.46	1364636.29	4" Pipe/Post & Plate	**FD '12** FD '03
1590.5	Right	309+92.16	309+89.6	1,948.14	1,946.54	1,946.81	0.27	414943.68	1364497.74	6" COE Brass Cap/Post & Plate	**FD '12** FD '03
1587.4	Left	97+10.51	97+11.8	1,990.89	1,989.33	1,989.42	0.10	430673.67	1379591.32	COE Brass Cap/Carsonite	**FD '12** FD '03
1587.4	Left	100+00	**100+00.0**	1,962.90	1,961.34	1,961.50	0.16	430387.16	1379559.79	COE Brass Cap/Post & Plate	**FD '12** FD '03
1587.4	Left	103+53.4	103+53.0	1,905.39	1,903.83	1,903.80	-0.03	430036.29	1379520.73	1 1/4" Pipe/Casrsonite	**FD '12**, FD' 03, FD '78
1587.4	Right	241+00	240+92.8	1,859.19	1,857.59	1,857.74	0.15	416380.15	1378007.41	4" COE Brass Cap/Carsonite	**FD '12**, FD' 03, FD '78
1587.4	Right	255+98.96				1,938.03				Monument carsonite	**NF '12 - Oil Rig Has Been Setup Here**, FD '03
1584.8	Left	85+26.6				1,916.41				Monument	**NF '12**
1584.8	Left	100+00	100+05.5	1,895.35	1,893.81	1,896.58	2.77	428966.29	1390157.03	COE Brass Cap/Carsonite	**FD '12**, FD '78
1584.8	Right	232+86	232+86.0	1,879.00	1,877.41	1,877.72	0.31	415706.74	1390903.72	3/4" Pipe/Post & Plate/Carsonite	**FD '12**, FD' 03, FD '78
1584.8	Right	244+23.05	**244+23.1**	2,121.01	2,119.42	2,119.83	0.41	414571.52	1390967.72	COE Brass Cap/Post	**FD '12** FD '03
1581.8	Left		93+93.5	1,928.32	1,926.78			427184.29	1405852.76	COE Brass Cap/Carsonite	**FD '12**, FD '03
1581.8	Left	100+00	**100+00.0**	1,941.27	1,939.73	1,939.65	-0.08	426619.74	1405631.24	4" COE Brass Cap/Post & Plate	**FD '12**, FD' 03, FD '78
1581.8	Right	211+45.15	211+41.4	1,908.22	1,906.66	1,906.68	0.02	416248.30	1401561.31	4" COE Brass Cap/Post & Plate	**FD '12**, FD' 03, FD '78
1581.8	Right	213+17.70	213+13.8	1,907.68	1,906.12	1,906.16	0.04	416087.86	1401498.21	6" COE Brass Cap/Post	**FD '12** FD '03
1578.2	Left	100+00	**100+00.0**	2,008.21	2,006.66	2,006.70	0.05	420948.00	1419323.57	COE Brass Cap/Post & Plate	**FD '12** FD '03
1578.2	Left	A-390				1,882.13				C&G BM off line	**NF '12**
1578.2	Left	107+43	107+42.1	1,864.08	1,862.53	1,863.17	0.64	420351.86	1418881.56	COE Brass Cap/Carsonite	**FD '12**, Set '03
1578.2	Left	109+00	108+97.5	1,857.19	1,855.64	1,857.07	1.43	420228.20	1418787.46	4" COE Brass Cap/Carsonite	**FD '12- BENT**, FD' 03, FD '78
1578.2	Right	251+12.61	250+93.2	1,968.94	1,967.39	1,967.48	0.09	408827.89	1410328.72	4" COE Brass Cap/Carsonite	**FD '12**, FD' 03, FD '78
1578.2	Right	260+55.4	260+33.1	1,987.75	1,986.19	1,986.29	0.10	408073.07	1409768.70	6" COE Brass Cap/Carsonite	**FD '12**
1573.5	Left	100+00	**100+00.0**	2,001.73	2,000.17	2,000.44	0.28	414748.38	1429907.49	COE Brass Cap/Post	**FD '12**, FD '03
1573.5	Left	111+40.97	111+44.1	1,871.27	1,869.71	1,869.74	0.03	413824.69	1429232.44	3/4" Pipe/Carsonite	**FD '12**, FD '03
1573.5	Left	115+71.22	115+74.4	1,856.17	1,854.61	1,855.42	0.81	413477.23	1428978.64	1" Pipe/Carsonite	**FD '12**, NF '03, FD '78
1573.5	Right	238+51.34	238+47.8	1,859.85	1,858.29	1,858.28	-0.01	403568.43	1421736.13	3/4" Pipe & Carsonite	**NF '12**, FD '03, FD '78
1573.5	Right	250+91.18	250+86.0	1,936.21	1,934.64	1,934.79	0.15	402568.76	1421005.52	COE Brass Cap/Carsonite	**FD '12**, FD '03
1573.5	Right	256+20.83	256+14.7	2,044.96	2,043.39	2,043.71	0.32	402141.98	1420693.54	COE Brass Cap/Carsonite	**FD '12**, FD '03
1570.6	Left	94+65.68	**94+65.7**	2,201.23	2,199.66	2,199.98	0.32	406681.82	1441487.03	COE Brass Cap/Carsonite	**FD '12**
1570.6	Left	100+00	100+00.6	2,010.49	2,008.92	2,009.22	0.30	406309.30	1441103.13	COE Brass Cap/Carsonite	**FD '12**
1570.6	Left	113+49.6	113+49.9	1,900.60	1,899.03	1,900.08	1.05	405369.85	1440134.63	3/4" Pipe P&P	FD **'12**, FD '03
1570.6	Left		122+39.4	1,860.57	1,859.01			404750.51	1439496.14	COE Aluminum Cap/Carsonite	**SET 12'**
1570.6	Left	123+92.16				1855.15 (1854.65)				3/4" Pipe P&P	**NF '12**, FD '03, FD '78
1570.6	Right	256+52	255+72.0	1,852.83	1,851.26	1,855.40	4.14	395467.41	1429926.26	3/4" Pipe/Carsonite	**FD '12**, FD '03, FD '88, FD '78
1570.6	Right	275+00.54	274+97.8	2,009.27	2,007.69	2,007.93	0.24	394126.60	1428543.91	COE Brass Cap/Carsonite	**FD '12**, FD '03
1567.2	Left	100+00	**100+00.0**	1,987.14	1,985.60	1,987.00	1.40	396467.99	1448019.69	COE Brass Cap/Carsonite	**FD '12**, FD '03
1567.2	Left	107+00	107+00.3	1,877.65	1,876.11	1,876.51	0.40	395969.24	1447528.12	COE Brass Cap/Post	**FD '12**, FD '03, FD '78
1567.2	Right		241+11.4	1,856.36	1,854.81			386417.40	1438114.22	COE Brass Cap	**FD '12**
1567.2	Right		248+39.1	1,880.08	1,878.53			385899.17	1437603.38	COE Brass Cap	**FD '12**
1567.2	Right	254+63	254+34.6	1,949.44	1,947.89	1,948.04	0.15	385475.15	1437185.31	COE Brass Cap/Post	**FD '12**, FD '78
1563.8	Left	98+47.88	**98+47.9**	2,112.89	2,111.36	2,111.66	0.30	388660.77	1455189.53	COE Brass Cap	**FD '12**
1563.8	Left	100+00	99+99.9	2,115.38	2,113.85	2,114.13	0.29	388569.57	1455067.97	COE Brass Cap/Post & Plate	**FD '12**, FD 78
1563.8	Left		105+47.3	1,918.47	1,916.94			388240.85	1454630.17	COE Aluminum Cap/Carsonite	**SET '12**
1563.8	Left	106+26				1,913.90				Pipe	**NF '12**
1563.8	Right	248+00	247+96.4	1,858.45	1,856.91	1,857.20	0.29	379685.15	1443235.64	COE Brass Cap/Carsonite	**FD '12**, FD '78
1563.8	Right	265+31.96	265+25.6	2,086.36	2,084.82	2,085.08	0.26	378647.51	1441852.26	COE Brass Cap/Carsonite	**FD '12**, FD '03
1561.5	Left	100+00	**100+00.0**	1,934.84	1,933.32	1,933.54	0.22	381156.03	1459385.49	COE Brass Cap/Carsonite	**FD '12**, FD '03
1561.5	Left	104+87	104+87.6	1,889.49	1,887.97	1,888.01	0.04	380811.84	1459040.13	2" Pipe/Post & Plate	**FD '12**, FD '03, FD '78
1561.5	Right	220+35.17	220+31.5	1,895.25	1,893.72	1,893.80	0.08	372663.68	1450862.70	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '78
1561.5	Right	223+19.98	223+16.1	1,906.26	1,904.73	1,904.92	0.19	372462.78	1450661.10	COE Brass Cap/Carsonite	**FD '12**, FD '03
1557.2	Left	100+08	**100+08.0**	1,907.36	1,905.83	1,905.70	-0.13	363314.80	1465846.27	COE Brass Cap/Post & Plate	FD '12, FD '03, FD '78
1557.2	Left	TBM				1,858.83					**NF '12**
1557.2	Right		147+07.9	1,882.83	1,881.31			364111.74	1461214.40	COE Brass Cap/Carsonite	**FD '12**
1557.2	Right	152+46.09				1,903.05				Monument	**NF '12**, FD '88, FD '78
1557.2	Right	158+21.31				1,907.93				Monument	**NF '12**, FD '03, FD '88
1554.2	Left	100+00	**100+00.0**	2,130.41	2,128.88	2,129.42	0.54	350329.40	1455371.21	COE Brass Cap/Carsonite	**FD '12**
1554.2	Left	106+86.66	106+87.4	1,882.48	1,880.96	1,880.18	-0.78	350868.84	1454945.12	1 1/2" Pipe/Post & Plate	**FD '12**, FD '78
1554.2	Right	183+90.8	183+90.6	1,856.43	1,854.90	1,855.51	0.61	356922.89	1450181.98	3/4" Pipe/Post & Plate	**FD '12**, FD '78
1554.2	Right	194+85.02	194+82.8	2,026.70	2,025.17	2,025.47	0.30	357781.21	1449506.55	COE Brass Cap/Post & Plate	**FD '12**

1554.2	Right	204+06.22	204+03.5	2,023.07	2,021.54	2,021.87	0.33	358504.82	1448937.26	COE Brass Cap/Carsonite	**FD '12**
1548.5	Left	100+00	**100+00.0**	2,104.67	2,103.13	2,103.44	0.31	326594.59	1447181.24	COE Brass Cap/Carsonite	**FD '12**
1548.5	Left	111+20				1,856.45				COE Monument	**NF '12**, FD '78
1548.5	Right	177+55	177+51.8	1,876.75	1,875.22	1,875.41	0.19	328072.99	1439571.74	3/4" Pipe/Post & Plate	**FD '12**, FD '78
1548.5	Right	181+48.57	181+53.8	2,007.75	2,006.22	2,006.35	0.13	328149.65	1439177.10	COE Brass Cap/Carsonite	**FD '12**
1545.1	Left	100+00	**100+00.0**	2,208.17	2,206.63	2,206.89	0.26	313064.43	1445322.57	COE Brass Cap/Post & Plate	**FD '12**
1545.1	Left	114+18.18	114+21.6	1,856.40	1,854.86	1,856.09	1.23	312357.58	1444089.11	2" Pipe/Carsonite	**FD '12**, FD '78
1545.1	Right	171+00				1,871.30				Pipe	**NF '12,** SET '78
1545.1	Right		171+65.2	2,037.92	2,036.37			309503.24	1439104.98	COE Brass Cap/Carsonite	**FD '12**
1538.0	Left	89+91.22	**89+91.2**	2,005.69	2,004.19	2,004.18	-0.01	295639.66	1468765.10	COE Brass Cap/Carsonite	**FD '12**
1538.0	Left	100+00	99+99.4	1,974.98	1,973.48	1,973.40	-0.08	294634.97	1468848.53	COE Brass Cap/Post & Plate	**FD '12**
1538.0	Left	102+43	102+49.1	1,868.38	1,866.88	1,873.62	6.74	294386.25	1468870.87	3/4" Pipe/Post & Plate	**FD '12**, FD '78
1538.0	Right	175+85.2	175+90.7	1,930.06	1,928.55	1,928.33	-0.22	287069.72	1469477.00	1 1/2" Pipe/ Post & Plate	**FD '12**, FD '78
1538.0	Right	182+01.60	182+04.5	2,012.96	2,011.45	2,011.38	-0.07	286458.05	1469528.15	COE Brass Cap/Carsonite	**FD '12**
1531.6	Left	100+00				1,868.43				Monument	**NF '12**
1531.6	Left		104+89.3	1,872.44	1,870.98			285349.14	1496890.54	3/8" Rebar	**SET '12**
1531.6	Left	107+25				1,857.56				3/4" Pin	**NF '12**, FD '78
1531.6	Right	172+61.5				1,865.42				3/4" Pipe	**NF ' 12**, FD '78
1531.6	Right	179+13.07	**179+13.1**	2,027.81	2,026.34	2,026.53	0.19	278045.76	1498221.86	COE Brass Cap/Post & Plate	**FD '12**
1528.0	Left	100+00	**100+00.0**	1,983.16	1,981.73	1,982.06	0.33	300430.87	1504025.11	COE Brass Cap/Post & Plate/Carsonite	**FD '12**
1528.0	Left		100+33.3	1,979.34	1,977.91			300403.40	1504043.87	COE Brass Cap	**FD '12**
1528.0	Left	108+00	107+99.7	1,857.05	1,855.62	1,855.55	-0.07	299778.33	1504487.38	3/4" Pipe/Carsonite	**FD '12**, FD '78
1528.0	Right		248+27.2	1,885.79	1,884.37			288337.52	1512603.90	3/4" Pipe/Post & Plate	**FD '12**
1528.0	Right	250+52.40	250+31.4	1,885.46	1,884.04	1,883.91	-0.13	288171.06	1512722.22	COE Brass Cap/Post & Plate	**FD '12**, FD '78
1528.0	Right	278+58.70	278+35.1	1,892.18	1,890.76	1,890.79	0.03	285884.20	1514344.20	COE Brass Cap/Post & Plate	**FD '12**
1524.9	Left	100+00	**100+00.0**	1,962.54	1,961.14	1,961.30	0.16	310206.72	1534656.44	COE Brass Cap/Carsonite	**FD '12**, FD '78
1524.9	Left		105+87.1	1,899.27	1,897.87			309756.14	1534280.13	COE Brass Cap/Carsonite	**FD '12**
1524.9	Right	408+72.28	408+72.5	1,892.30	1,890.88	1,890.97	0.09	286510.62	1514867.35	COE Brass Cap/Post & Plate	**FD '12**, FD '78
1524.9	Right	416+88.63	416+88.7	1,892.18	1,890.76	1,890.97	0.21	285884.20	1514344.20	COE Brass Cap/Post & Plate	**FD '12, Common with 1528.0R**
1517.0	Left		**10+00.0**	1,836.45	1,835.07			273661.39	1536769.31		**WATER'S EDGE '12**
1517.0	Left	100+00				1,936.24				Monument	**NF '12**
	Left	113+26.15				1,895.53				Brass Cap	**Set in 1978 by Sorenson & Co.**
1517.0	Left	120+13.6				1,867.51				3/4" Pipe	**NF '12** ,FD '78
1517.0	Right	249+68.75				1,914.65				Monument	**NF '12** ,FD '78
1517.0	Right	256+01.53				2,017.82				Monument	**NF '12**
1517.0	Right		132+60.7	1,836.51	1,835.12			269030.08	1525416.91		**WATER'S EDGE '12**
1511.2	Left	100+00	**100+00.0**	1,961.40	1,960.04	1,959.91	-0.13	243119.23	1543048.68	COE Brass Cap/Carsonite	**FD '12**, FD '78
1511.2	Right	260+59.88				1,877.03				COE Monument	**NF '12**, FD '78
1511.2	Right		261+35.3	1,872.28	1,870.92			245233.87	1527052.56	COE Aluminum Cap/Carsonite	**SET '12**
1511.2	Right		264+39.2	1,887.07	1,885.71			245273.73	1526751.26	COE Brass Cap/Post & Plate	**FD '12**
1511.2	Right	274+82.12				1,881.13				4" Pipe	**NF '12**
1506.6	Left	76+09.69	76+65.0	2,001.44	2,000.09	1,999.98	-0.11	232594.02	1545050.65	COE Brass Cap/Post	**FD '12**, FD '88
1506.6	Left	87+54.1	87+54.6	1,864.02	1,862.68	1,862.46	-0.21	231625.01	1544552.41	3/4" Pipe/Carsonite	**FD '12**, FD '88
1506.6	Left	100+00	**100+00.0**	1,883.55	1,882.21	1,881.91	-0.30	230517.44	1543982.90	COE Brass Cap/Carsonite	**FD '12**, FD '88, FD '78
1506.6	Right	247+56.66	247+50.9	2,032.29	2,030.93	2,031.10	0.17	217399.43	1537236.93	COE Brass Cap/Post	**FD '12**, FD '78
1499.3	Left	100+00	**100+00.0**	1,989.28	1,987.93	1,988.08	0.15	222712.16	1574556.84	COE Brass Cap/Carsonite	**FD '12,** FD '03, FD '78
1499.3	Left		101+94.6	1,978.62	1,977.27			222521.06	1574520.00	Carsonite	**FD '12**
1499.3	Left		109+04.6	1,877.99	1,876.64			221824.03	1574384.81	COE Brass Cap/Carsonite	**FD '12**
1499.3	Right	260+03.6	259+94.0	1,911.76	1,910.42	1,910.31	-0.11	207010.51	1571512.59	1" Pipe/P&P	**FD '12**, FD '78
1499.3	Right	261.81.07	261+71.6	1,974.27	1,972.93	1,973.15	0.22	206836.22	1571478.62	4" Pipe/ Carsonite	**FD '12**
1499.3	Right	265+86.87	265+77.4	1,976.73	1,975.39	1,975.50	0.11	206437.83	1571401.42	COE Brass Cap/Carsonite	**FD '12**
1490.3	Left	95+34.64	**95+34.6**	1,896.74	1,895.40	1,895.27	-0.13	203178.55	1606112.42	COE Brass Cap/Carsonite	**FD '12**, FD '03
1490.3	Left	99+16				1,891.40				3/4" Pin	**NF '12**
1490.3	Right	216+47.52				1,902.45				COE Monument	**NF '12,** FD '78
1490.3	Right		217+33.8	1,904.19	1,902.86			191781.25	1601762.58	COE Aluminum Cap/ Carsonite	**SET '12**
1490.3	Right	223+00.17	222+90.1	1,916.26	1,914.93	1,914.91	-0.01	191261.48	1601564.22	COE Brass Cap/Post & Plate	**FD '12**
1485.4	Left	100+00	**100+00.0**	1,898.94	1,897.61	1,897.38	-0.23	202976.00	1626359.42	COE Brass Cap/Carsonite/P&P	**FD '12**, FD '03
1485.4	Left	107+50	107+49.5	1,853.42	1,852.09	1,851.62	-0.47	202226.78	1626338.11	1" Pipe/Carsonite/P&P	**FD '12**, FD '03, FD '78
1485.4	Right	321+97.10				1,868.47				COE Monument	**NF '12**, FD '78
1485.4	Right		328+69.3	1,880.49	1,879.19			180115.98	1625707.29	COE Aluminum Cap/ Carsonite	**SET '12**
1485.4	Right	332+96.50	332+82.3	1,903.32	1,902.02	1,902.07	0.05	179703.20	1625695.55	3/4" Pipe	**FD '12**

1485.4	Right	333+01.11	332+87.2	1,905.32	1,904.02	1,903.89	-0.13	179698.32	1625695.15	COE Brass Cap/Post & Plate	**FD '12**
1482.3	Left	100+00	**100+00.0**	1,927.90	1,926.58	1,926.49	-0.09	205651.78	1640449.20	COE Brass Cap/Carsonite	**FD '12**, FD'03
1482.3	Left		102+75.0	1,871.15	1,869.83			205376.86	1640454.42	COE Aluminum Cap/ Carsonite	**SET ' 12**
1482.3	Left	104+24.10				1,855.40				COE Monument/Carsonite	**NF '12**, FD '03, FD '78
1482.3	Right		394+42.0	1,875.97	1,874.68			176215.10	1641006.81	COE Brass Cap/Carsonite	**FD '12**
1482.3	Right	400+21.41	400+18.3	1,885.84	1,884.55	1,884.54	-0.01	175638.46	1640994.43	COE Brass Cap/Post & Plate	**FD '12**, FD '78
1476.8	Left		92+30.6	1,865.61	1,864.32			202208.14	1665398.31	COE Brass Cap/Carsonite	**FD '12**
1476.8	Left	100+00				1,915.42				COE Monument Post & Plate	**NF '12**, FD '03, FD '78
1476.8	Right	246+22.78	246+23.1	1,924.82	1,923.55	1,923.64	0.09	186833.52	1664656.81	COE Brass Cap/Carsonite	**FD '12**, FD '03, FD '78
1476.8	Right	251+82.68	251+82.8	1,936.42	1,935.15	1,935.19	0.04	186274.51	1664629.68	3/4" Pipe	**FD '12**
1476.8	Right	251+88.02	**251+88.0**	1,937.39	1,936.12	1,936.10	-0.02	186269.26	1664629.44	COE Brass Cap/Carsonite/P&P	**FD '12**, FD '03
1469.9	Left		97+99.8	1,931.83	1,930.56			207701.31	1697778.26	COE Brass Cap/Carsonite	**FD '12**
1469.9	Left	100+00	**100+00.0**	1,931.25	1,929.98	1,929.84	-0.14	207504.02	1697812.02	COE Brass Cap/Carsonite/P&P	**FD '12,** FD '03, FD '78
1469.9	Left									Unknown dia Pipe	**NF '12**, FD '03
1469.9	Left									COE Brass Cap	**NF '12**, FD '03, Set '88
1469.9	Right	242+27.76	242+20.4	1,949.30	1,948.02	1,947.91	-0.11	193485.70	1700200.58	COE Brass Cap/Carsonite/P&P	**FD '12,** FD '03, FD '78
1469.9	Right	248+37.53	248+33.5	1,961.86	1,960.58	1,959.08	-1.50	192881.30	1700303.49	COE Brass Cap/Carsonite	**FD '12**, FD '03
1465.8	Left	100+00				1,909.19				COE Brass Cap	**NF '12**, FD' 03, FD '78
1465.8	Left		106+21.1	1,892.66	1,891.36			215719.87	1720874.38	COE Brass Cap/Post & Plate	**FD '12**
1465.8	Right	146+58								COE Monument/Carsonite	**NF '12**, FD '03, SET '88
1465.8	Right	265+76.5				1,906.70				Unknown dia Pipe	**NF '12**, FD '88, FD '78
1465.8	Right		266+26.5	1,919.94	1,918.65			199751.92	1719780.50	COE Brass Cap/Carsonite	**FD '12**
1465.8	Right	271+07.10				1,921.79				COE Monument/Carsonite	**NF '12,** FD '03, FD '78
1465.8	Right	273+90.66	**273+90.7**	1,920.83	1,919.54	1,919.38	-0.16	198989.54	1719728.45	COE Brass Cap/Post & Plate	**FD '12**, FD '03
1461.6	Left	100+00	**100+00.0**	1,905.54	1,904.24	1,904.00	-0.24	214596.56	1742646.39	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '78
1461.6	Right	309+30.5	309+19.6	1,873.67	1,872.36	1,871.78	-0.58	194686.96	1736224.61	1-1/2" Pipe/Carsonite	**FD '12**, FD '03, FD '78
1461.6	Right	318+11.15	318+00.7	1,882.38	1,881.07	1,880.87	-0.20	193848.44	1735954.06	COE Brass Cap/Post & Plate	**FD '12,** FD '03**, Common with 1459.5L &1456.6R**
1461.6	Right	323+98.62	323+87.9	1,877.29	1,875.98	1,875.61	-0.37	193289.61	1735773.94	COE Brass Cap/Post & Plate	**FD '12**, FD '03
1459.5	Left		90+88.3	1,880.36	1,879.04			200014.10	1754638.25	COE Brass Cap/Post & Plate	**FD '12**, FD '03,FD '78
1459.5	Left	100+00				1,872.90				Unknown/Carsonite/Post& Plate	**NF' 12**
1459.5			284+03.4	1,856.65	1,855.34			193961.35	1736295.95	Post & Plate	**FD '12**
1459.5	Right	287+63.37	287+63.5	1,882.38	1,881.07	1,880.87	-0.20	193848.44	1735954.06	COE Brass Cap/Post & Plate	**FD '12**, FD '03,FD '78
1459.5	Right	290+35.15	**290+35.2**	1,877.59	1,876.28	1,876.19	-0.09	193763.23	1735696.12	COE Monument/Post & Plate	**FD '12**, FD '03
1456.6	Left	100+00	**100+00.0**	1,982.00	1,980.67	1,980.79	0.13	185693.67	1753347.57	COE Brass Cap/Post & Plate	**FD '12**, FD '03, FD '78
1456.6	Left		105+99.9	1,952.67	1,951.34			185948.49	1752804.43	COE Brass Cap/Carsonite	**FD '12**
1456.6	Right	288+39.07	288+37.5	1,857.04	1,855.73	1,855.59	-0.14	193690.05	1736291.49	1/2" Pipe/Post & Plate	**FD '12**, FD '03, FD '78
1456.6	Right	292+22.87	292+10.3	1,882.38	1,881.07	1,880.87	-0.20	193848.44	1735954.06	COE Monument/Post & Plate	**FD '12**, FD '03, **Common with 1459.5L**
1456.6	Right	293+78.20	293+65.5	1,880.11	1,878.80	1,878.76	-0.04	193914.38	1735813.52	COE Monument/Post & Plate	**FD '12**, FD '03

CORPS OF ENGINEERS

U.S. ARMY

START OF PROJECT

END OF PROJECT

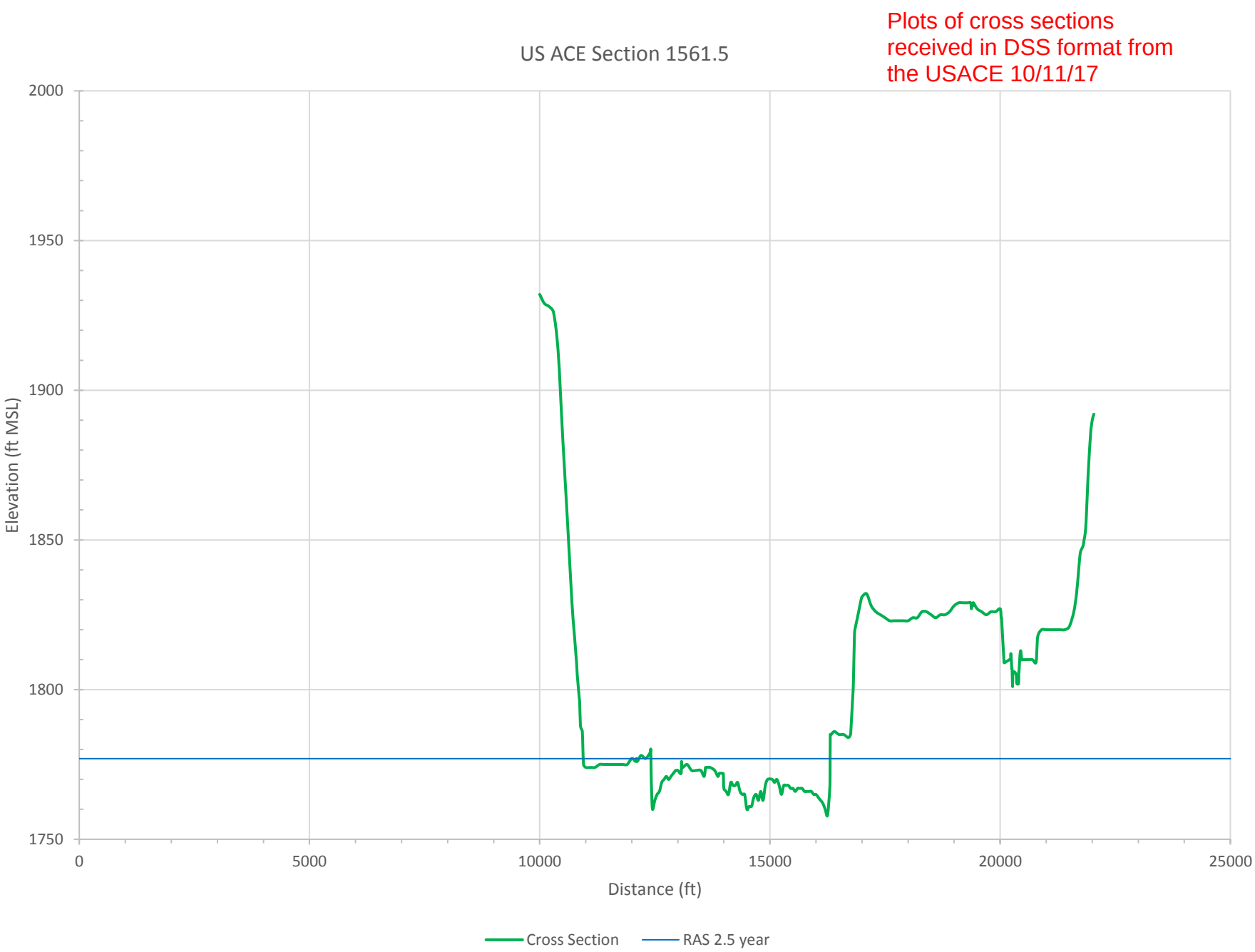
MISSOURI RIVER BASIN
GARRISON DAM AND RESERVOIR
LOCATION OF AGGRADATION RANGES

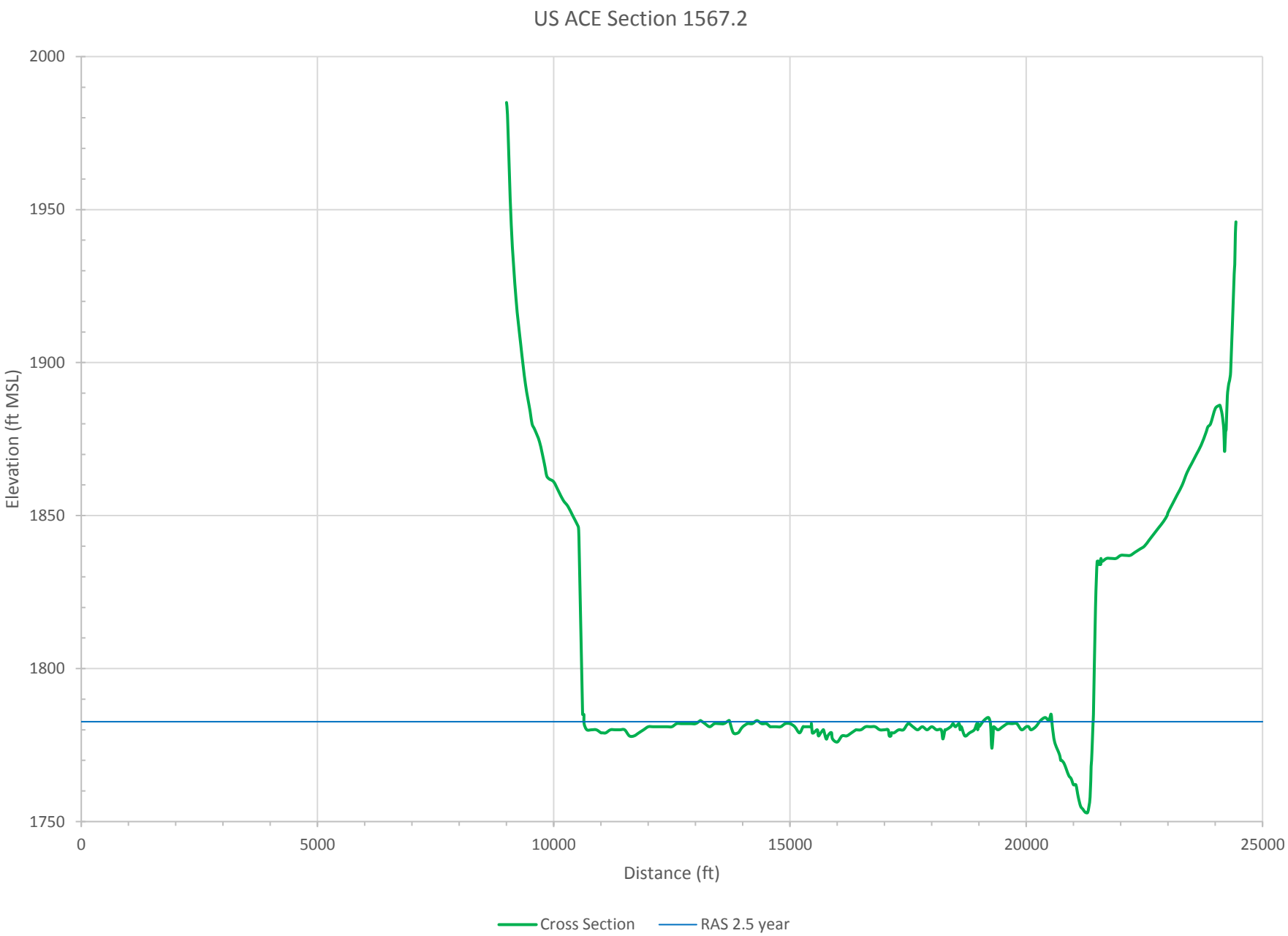
U.S. ARMY ENGINEER DISTRICT, OMAHA
CORPS OF ENGINEERS OMAHA, NEBRASKA

RES. REG. MANUAL PLATE

ATTACHMENT TO OCT 11TH 2017 EMAIL FROM PRIDAL TO TOSO
GA_Sak_Range_Loc_Map - BC.pdf. Highlighting and annotations added by Toso. Not all sections shown were available.

Plots of cross sections received in DSS format from the USACE 10/11/17

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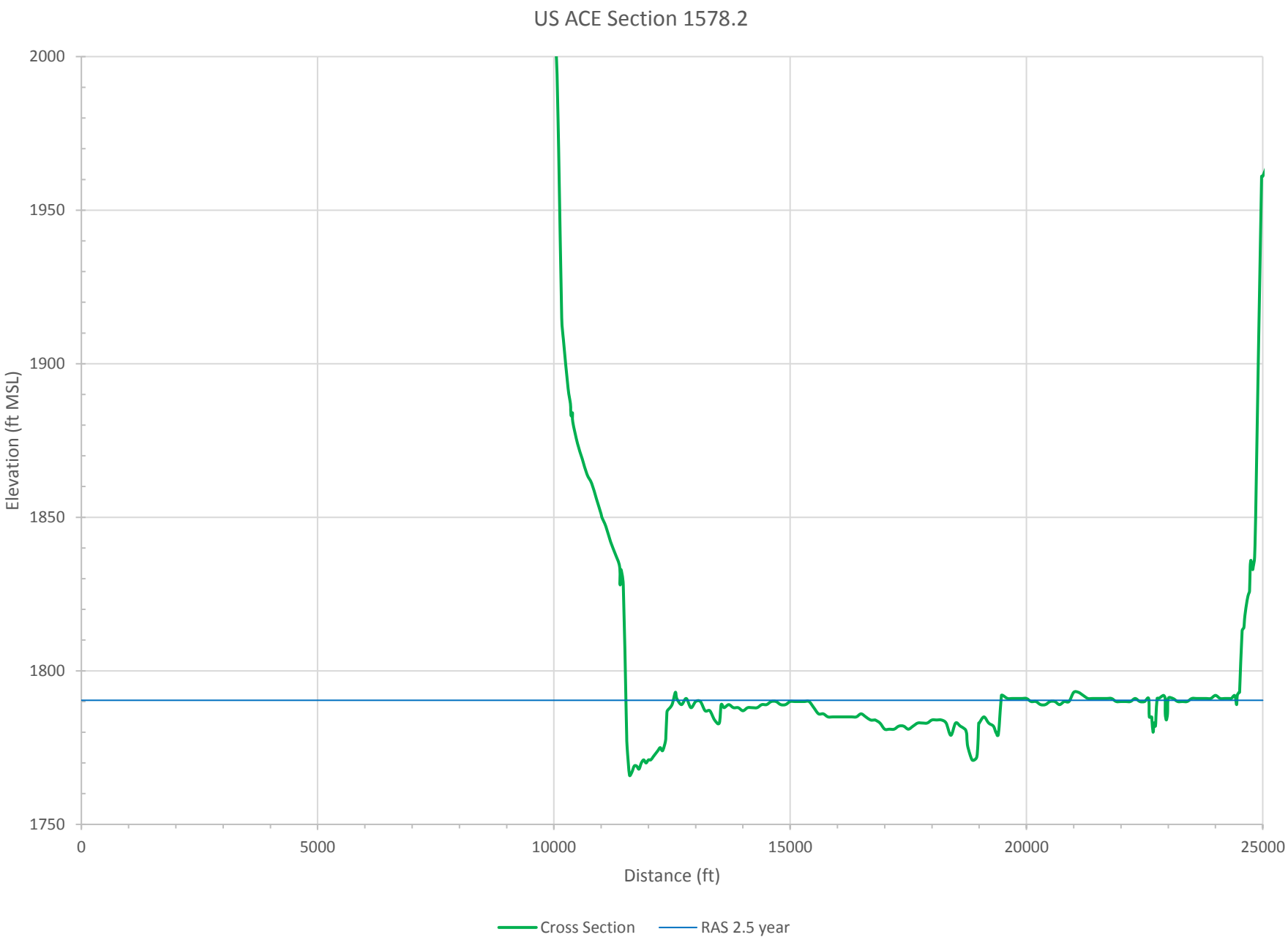
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year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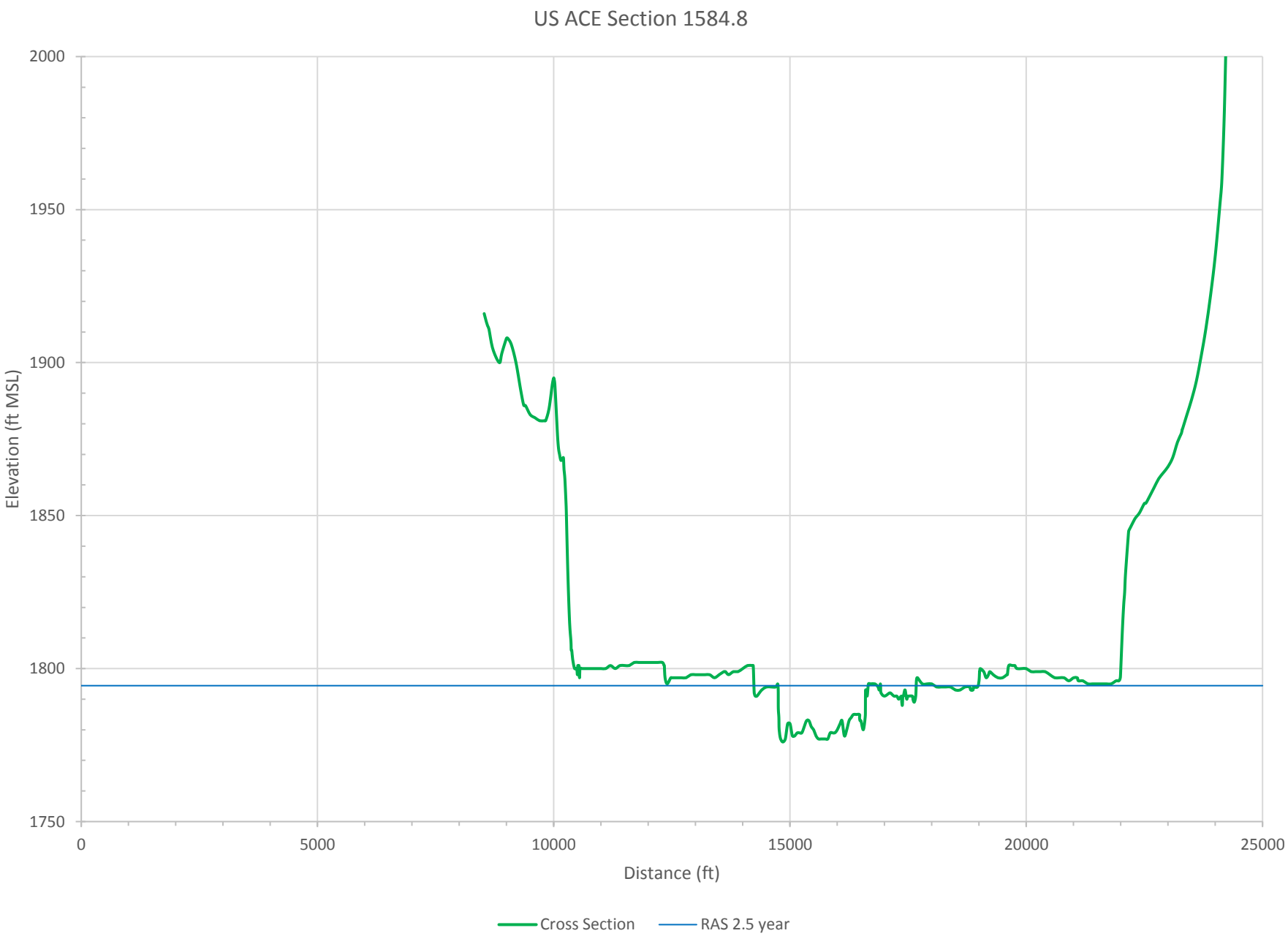
RAS 2.5 year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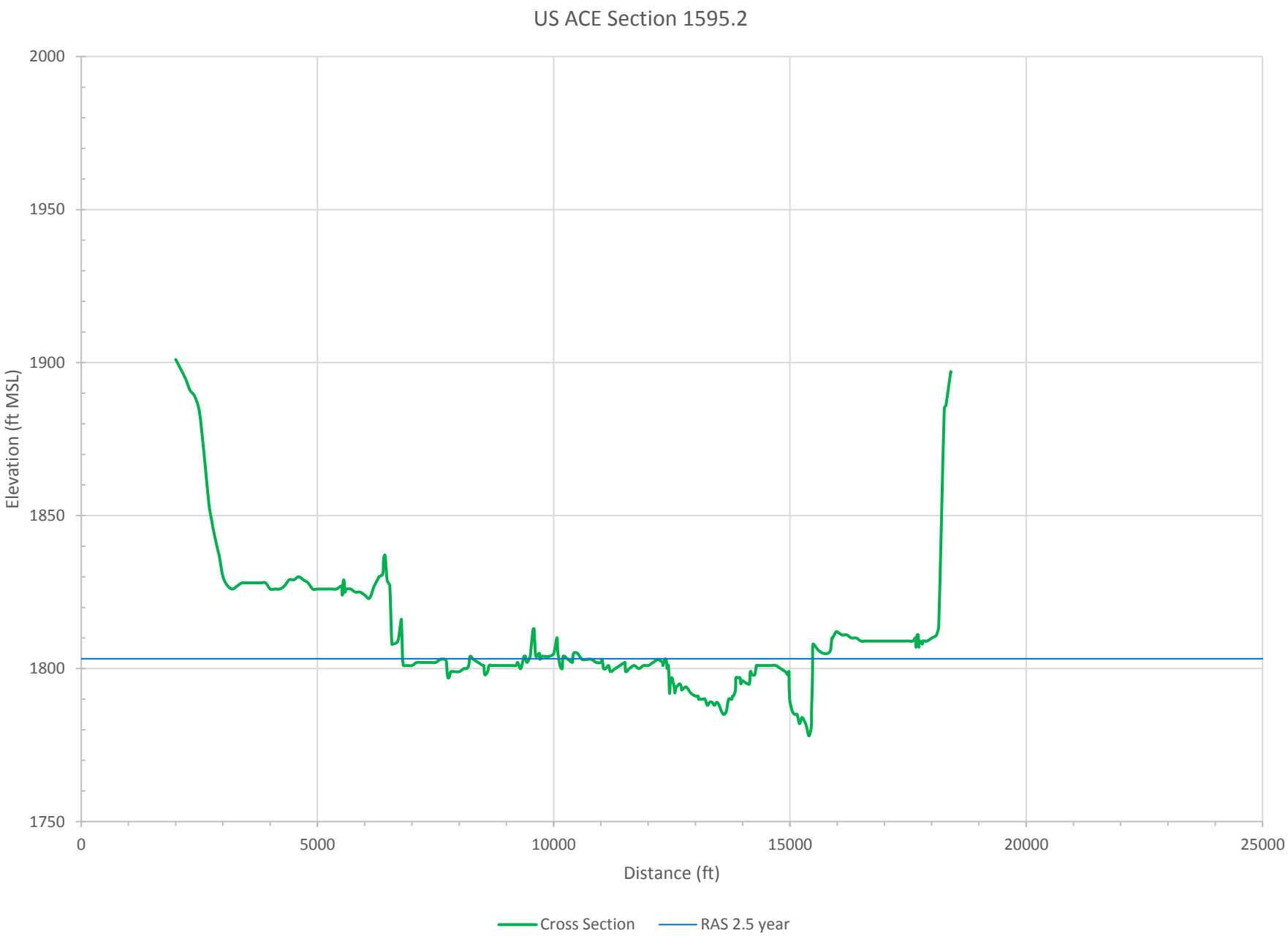
Cross Section
RAS 2.5 year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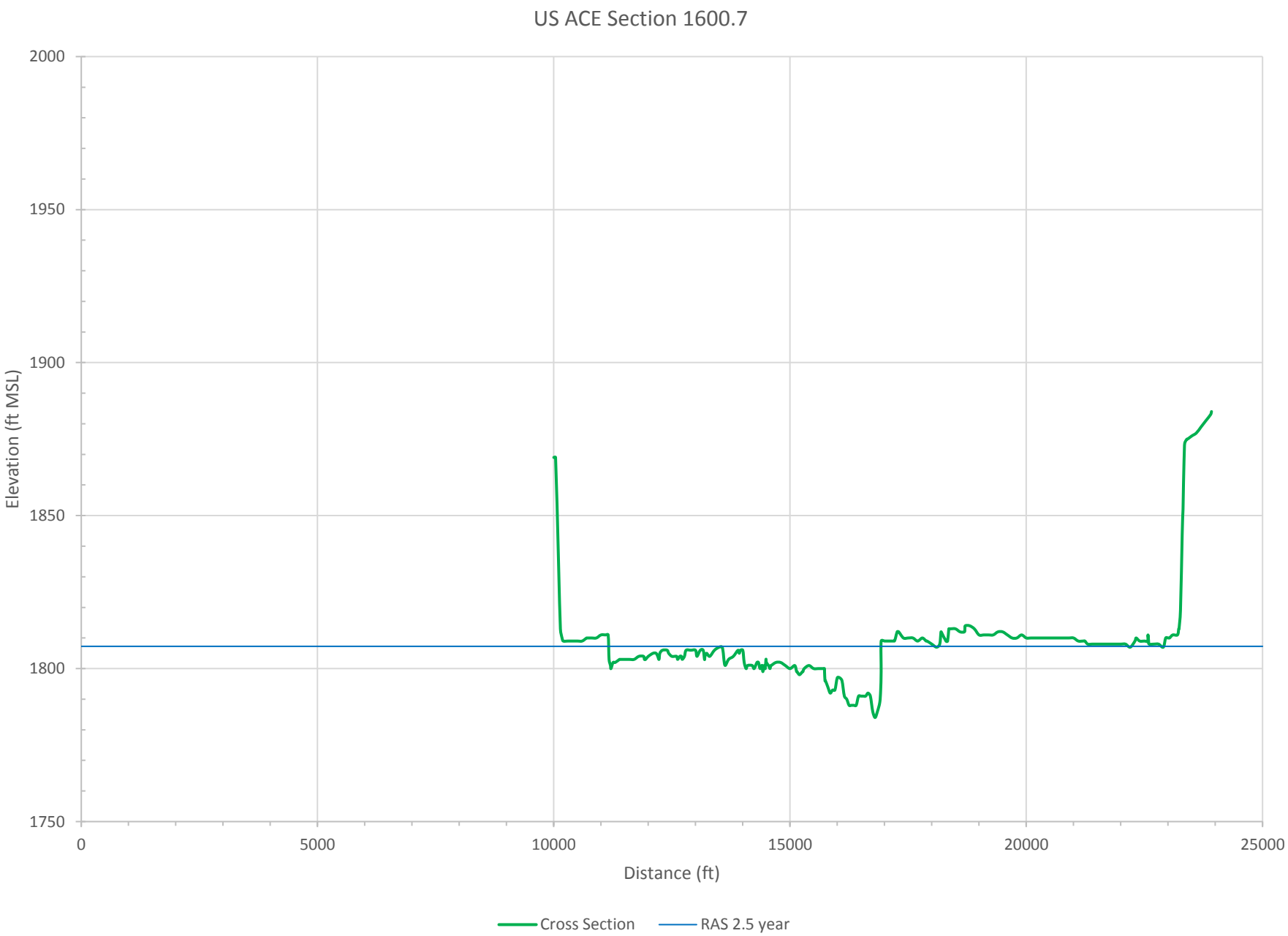
Distance (ft)
Cross Section
RAS 2.5 year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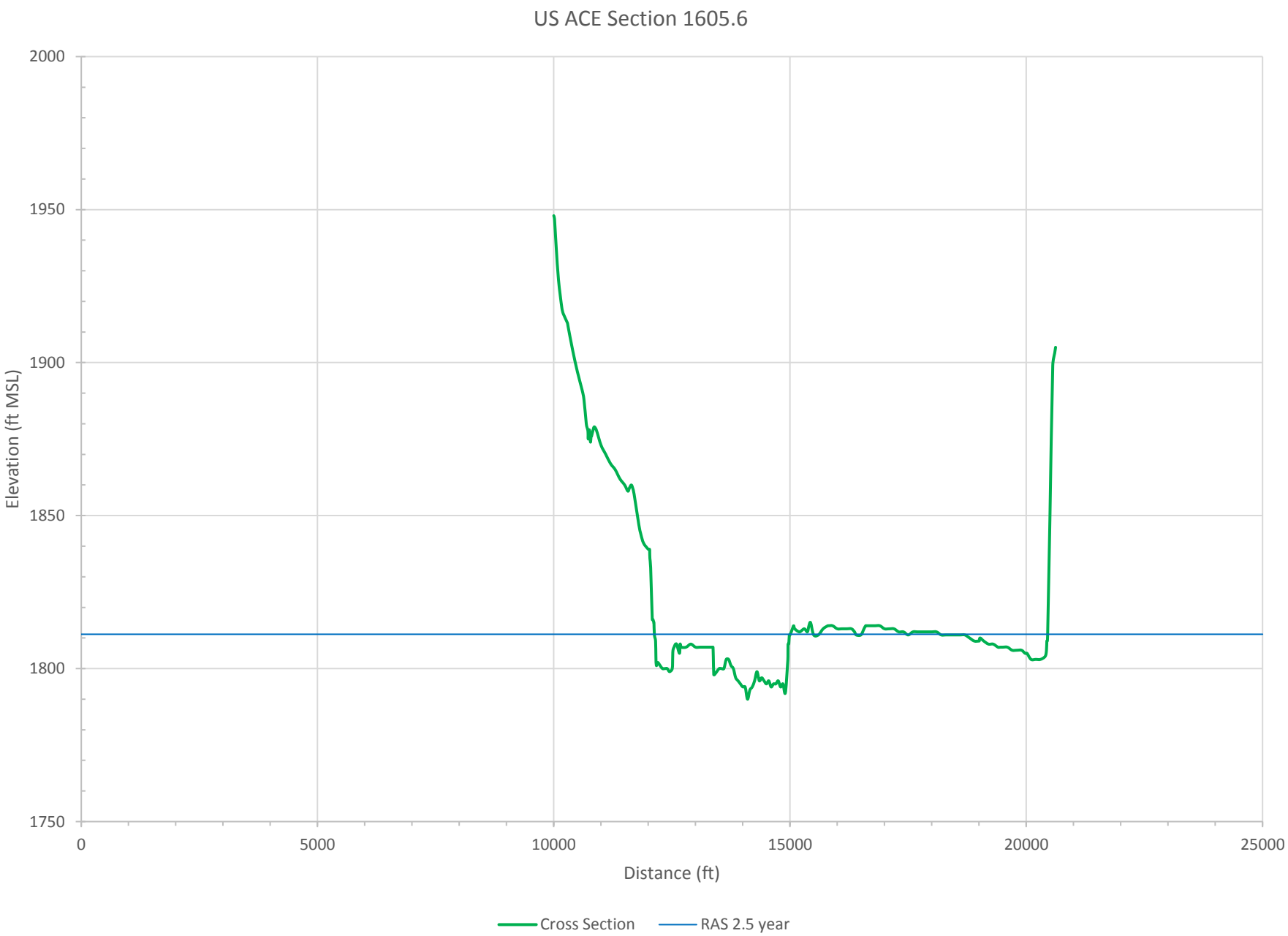
Distance (ft)
Cross Section
RAS 2.5 year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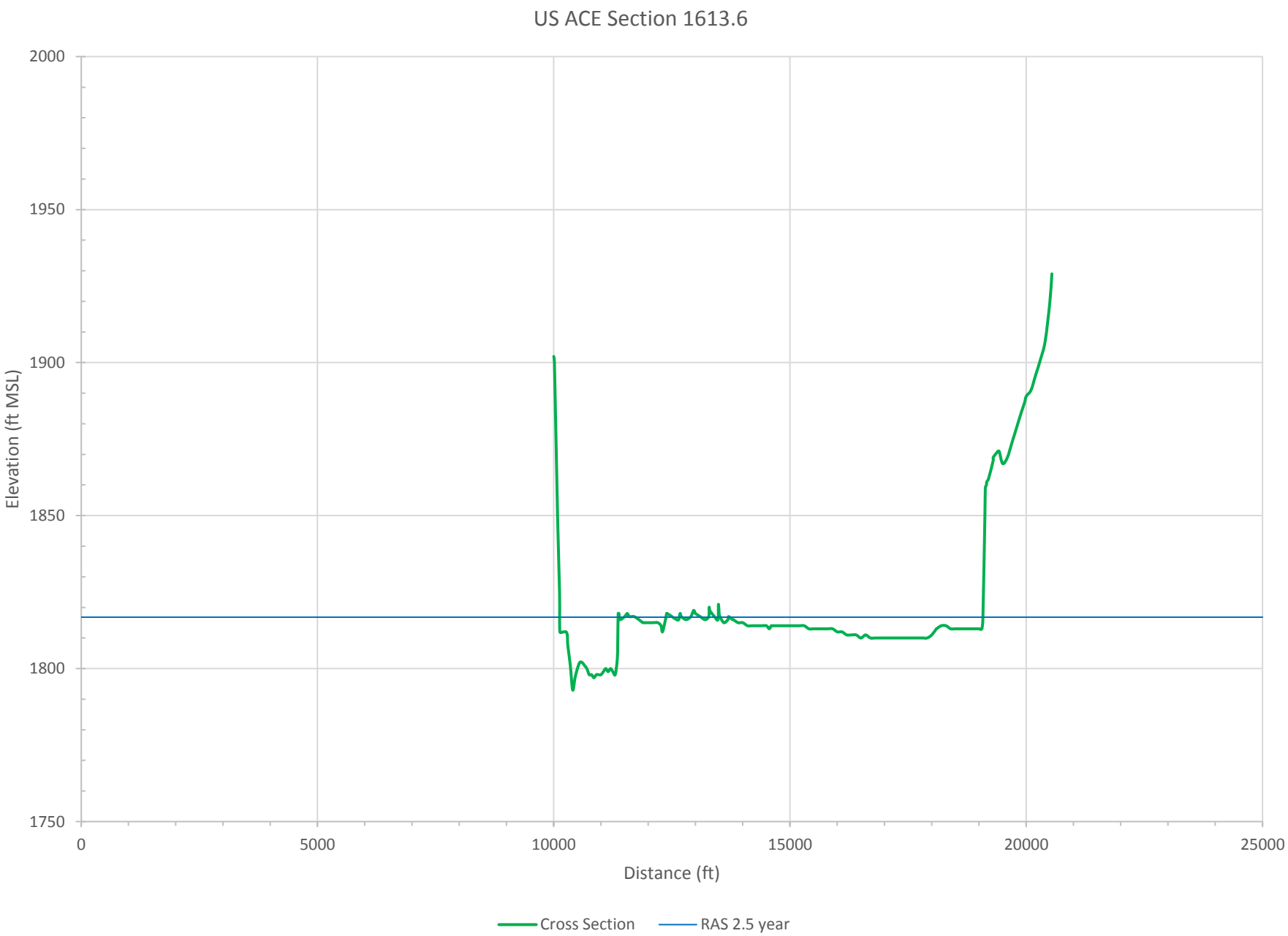
Distance (ft)
Cross Section
RAS 2.5 year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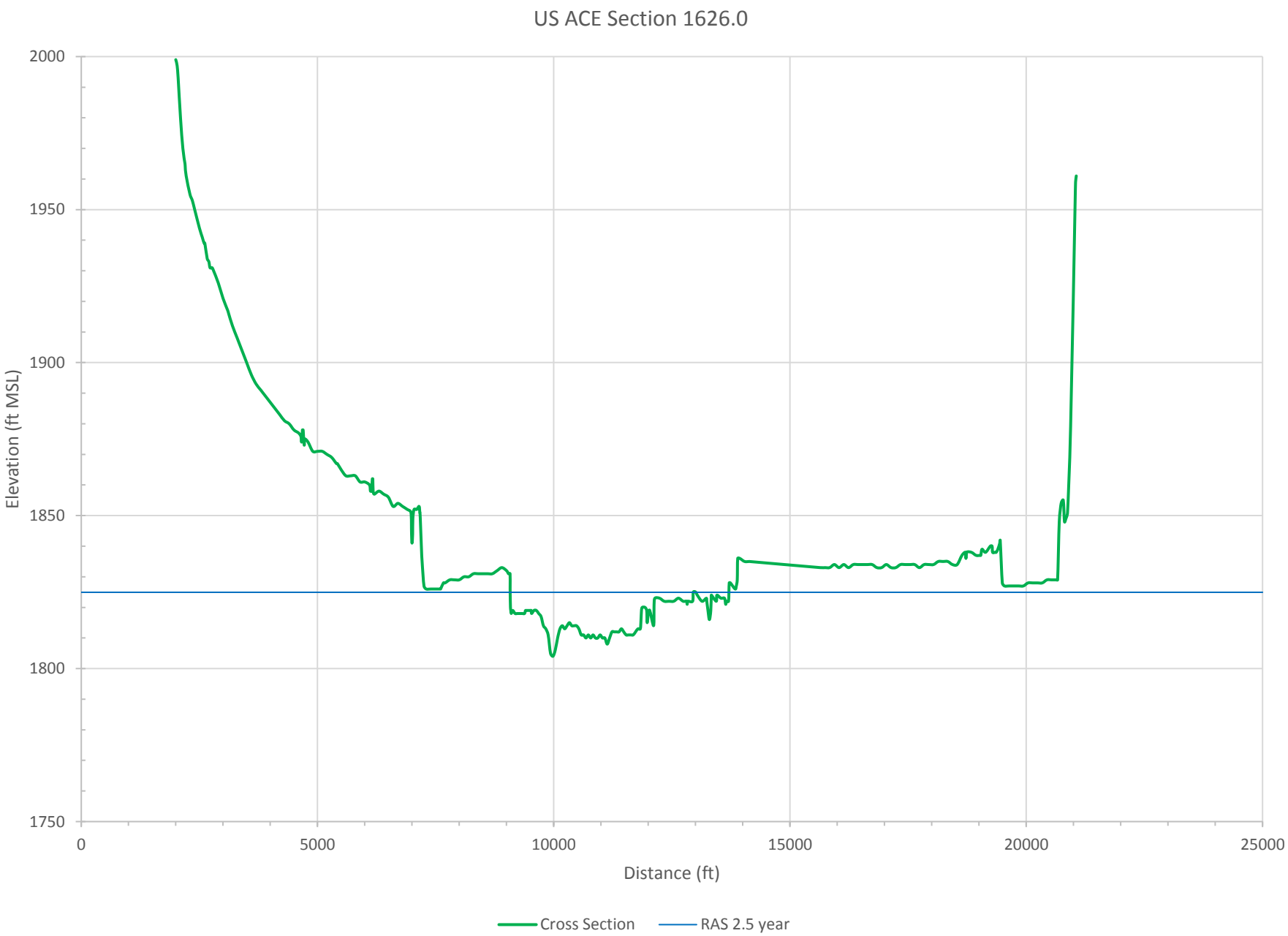
Distance (ft)
Cross Section
RAS 2.5 year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1900
1850
1800
1750
Elevation (ft MSL)
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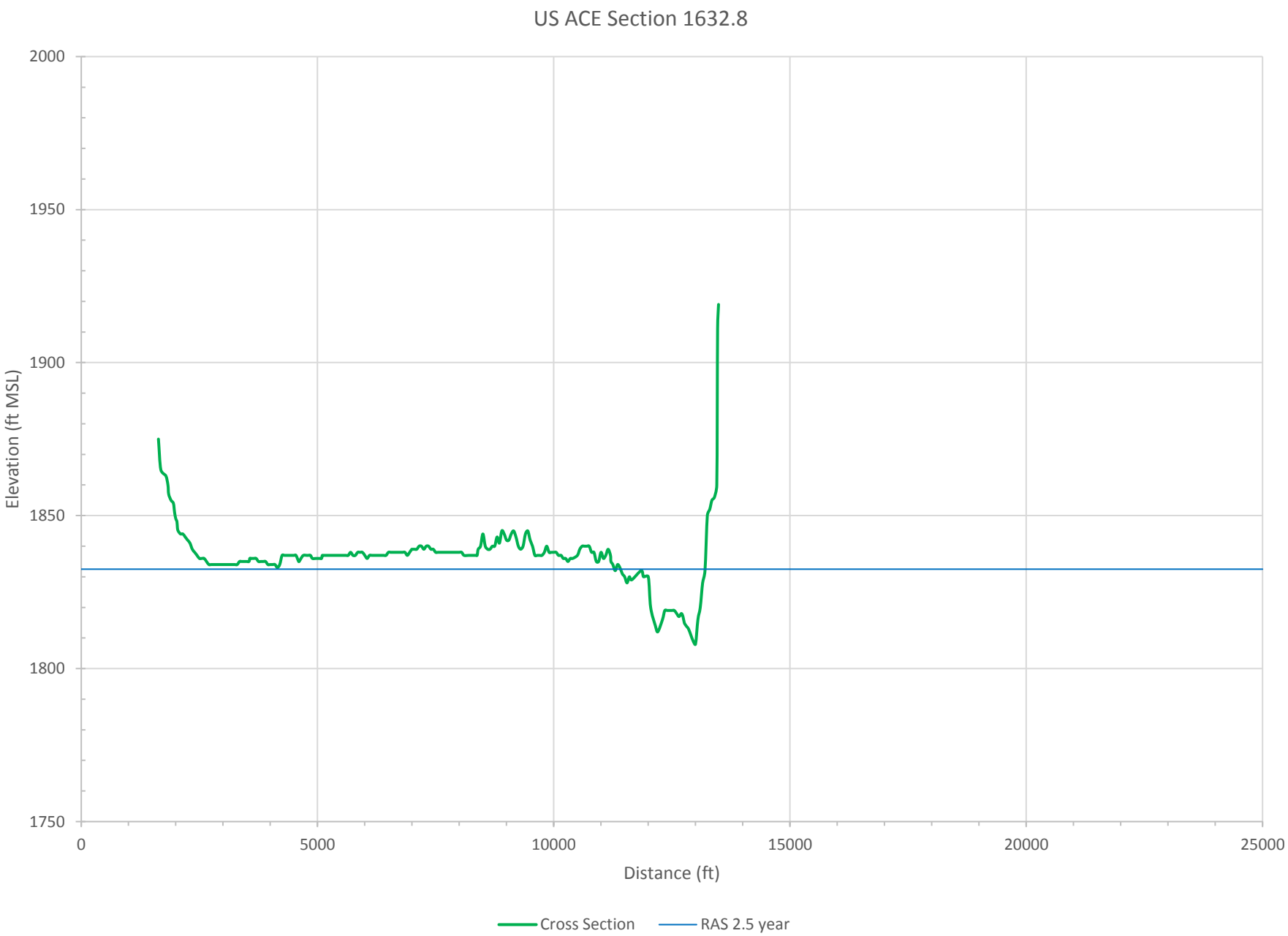
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1632.8
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1800
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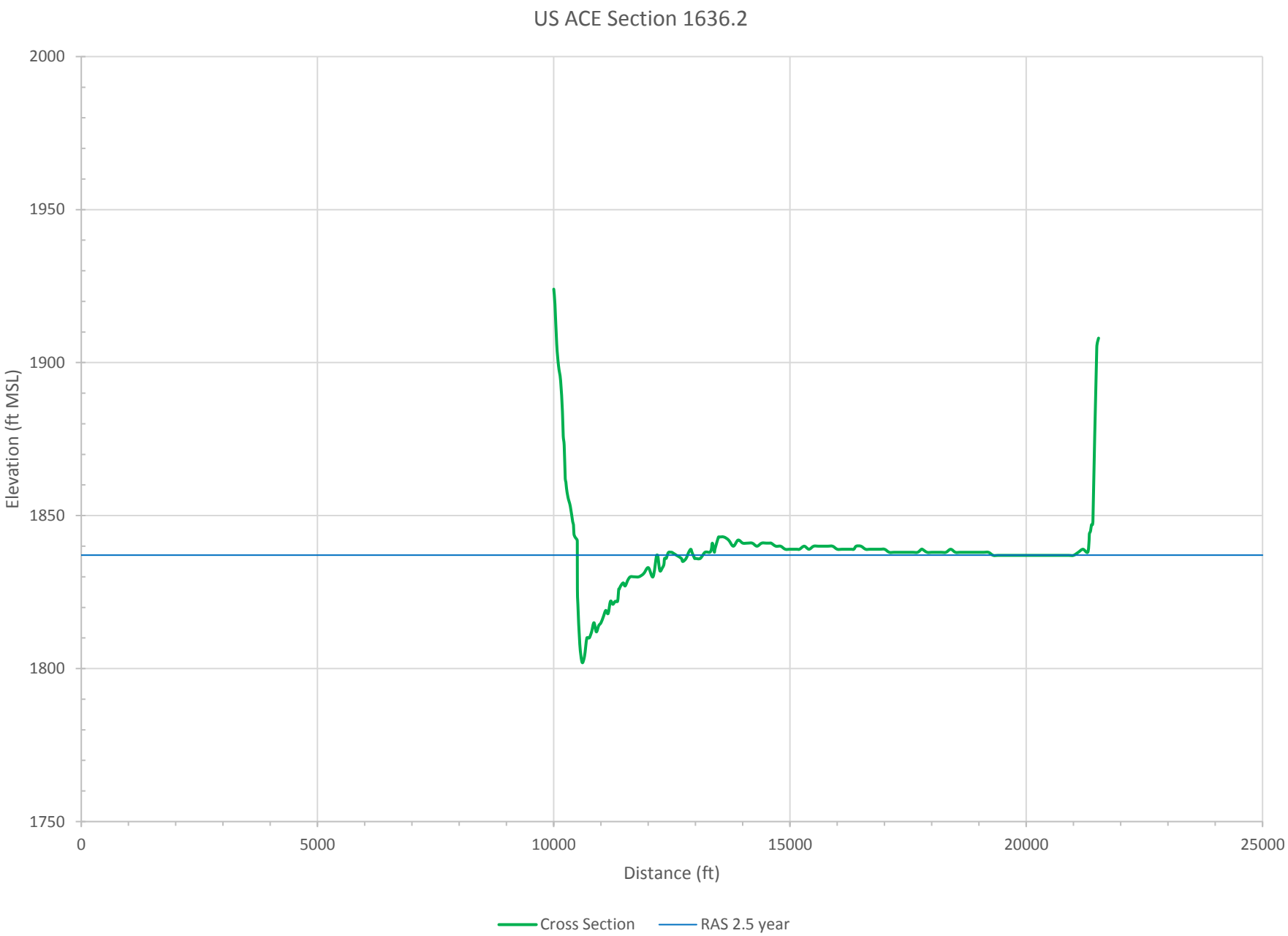
25000
Distance (ft)
Cross Section
RAS 2.5 year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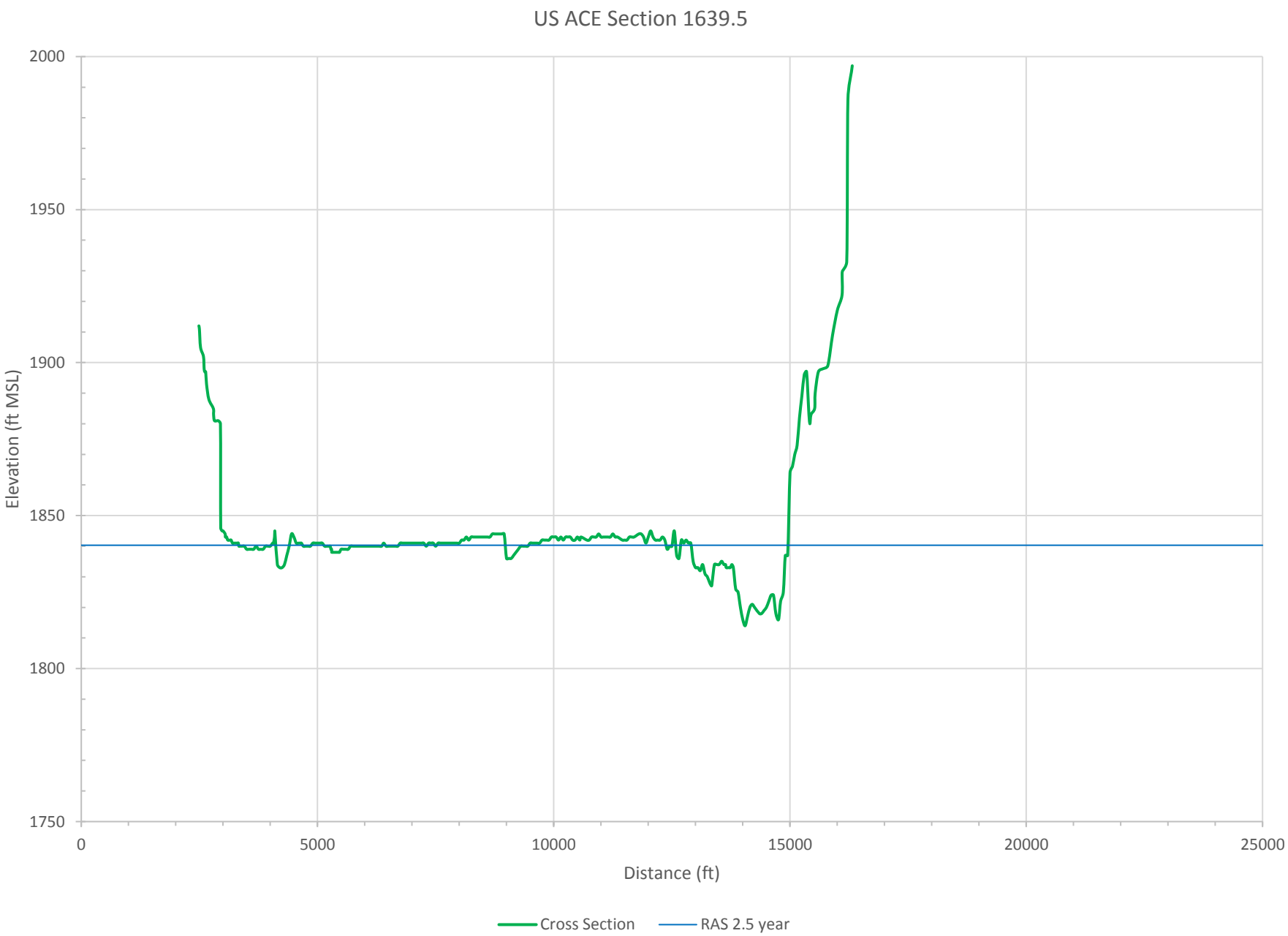
25000
Distance (ft)
Cross Section
RAS 2.5 year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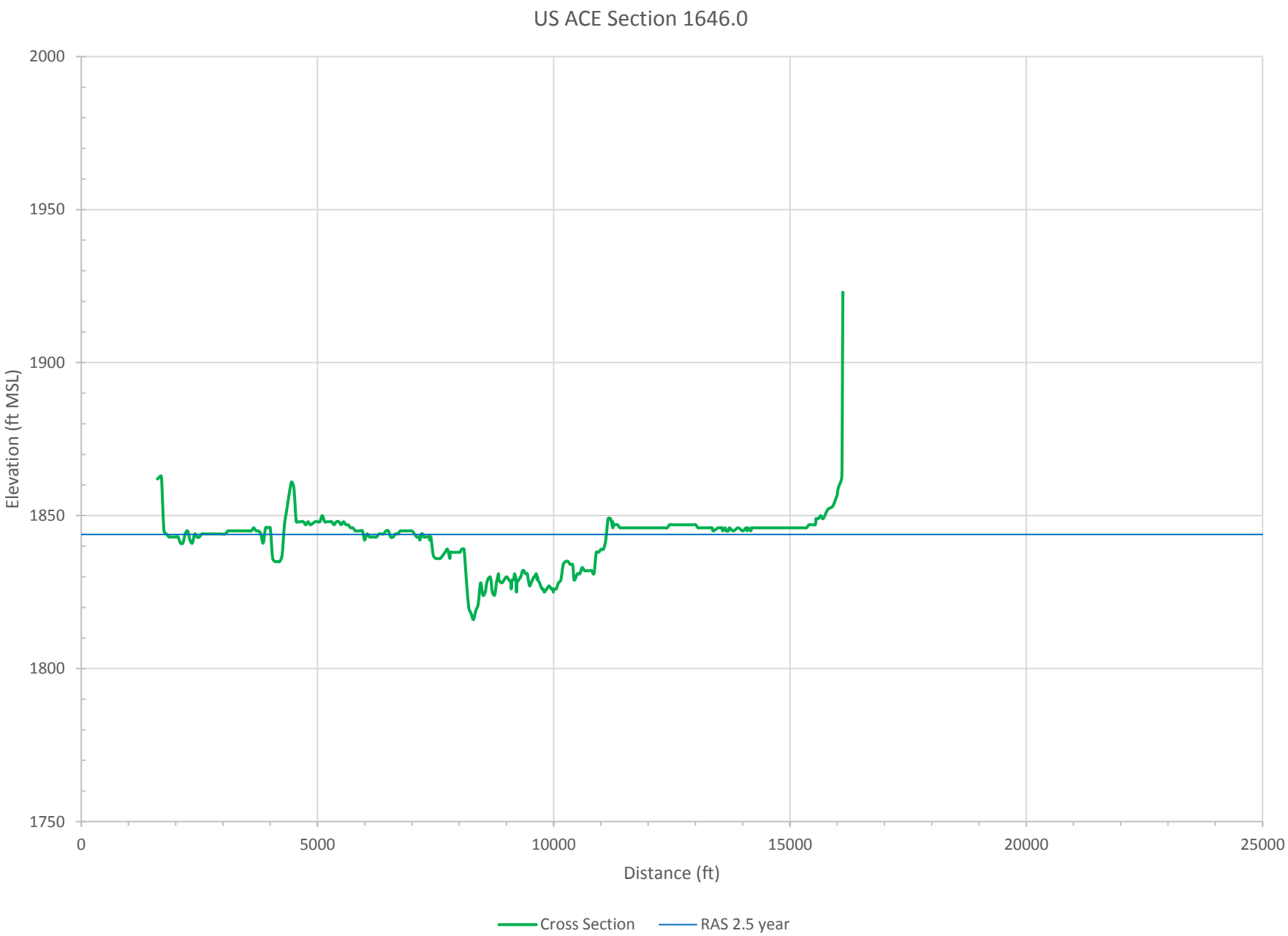
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1646.0
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1900
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1800
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Elevation (ft MSL)
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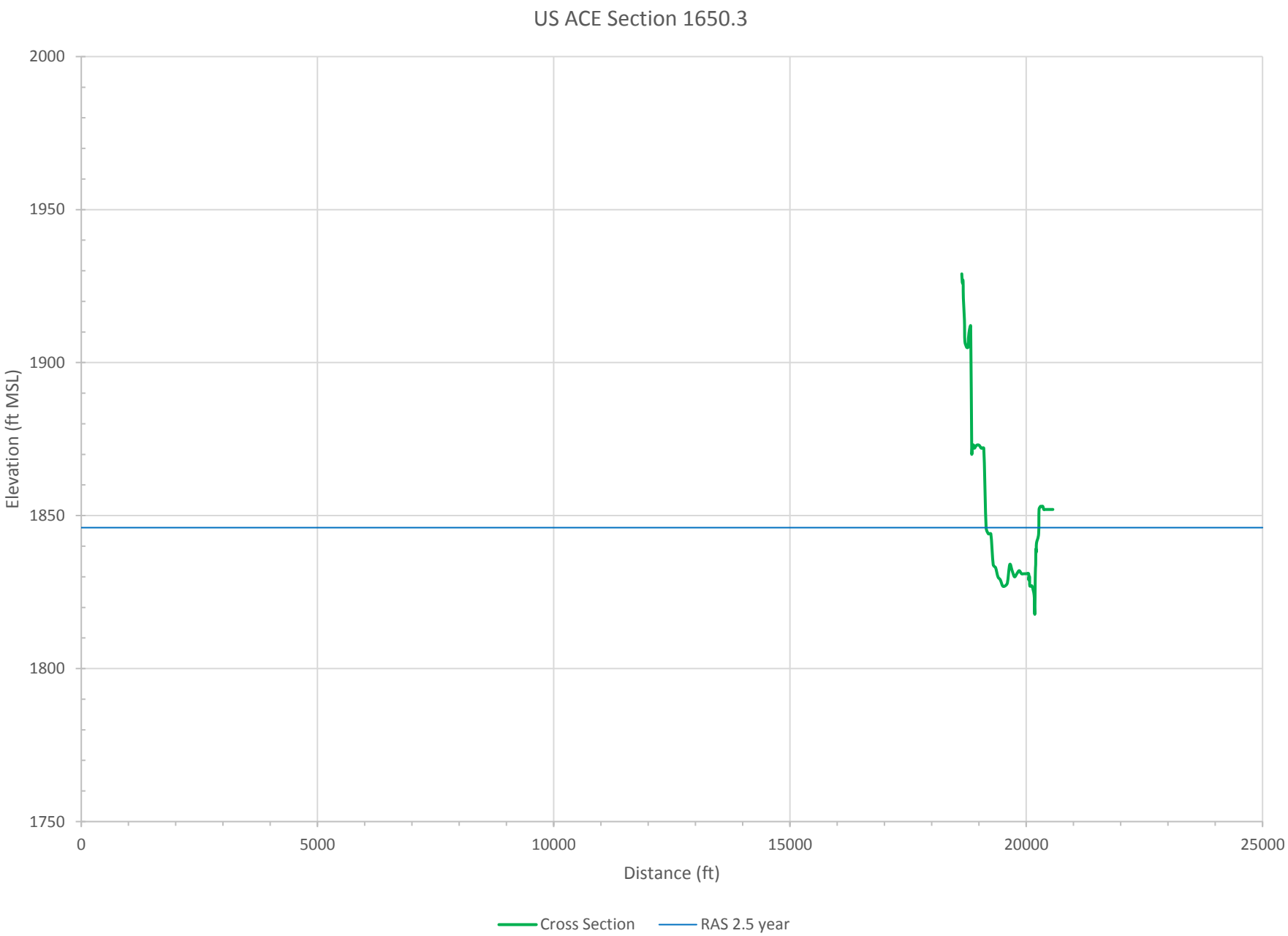
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1650.3
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1900
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1800
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Elevation (ft MSL)
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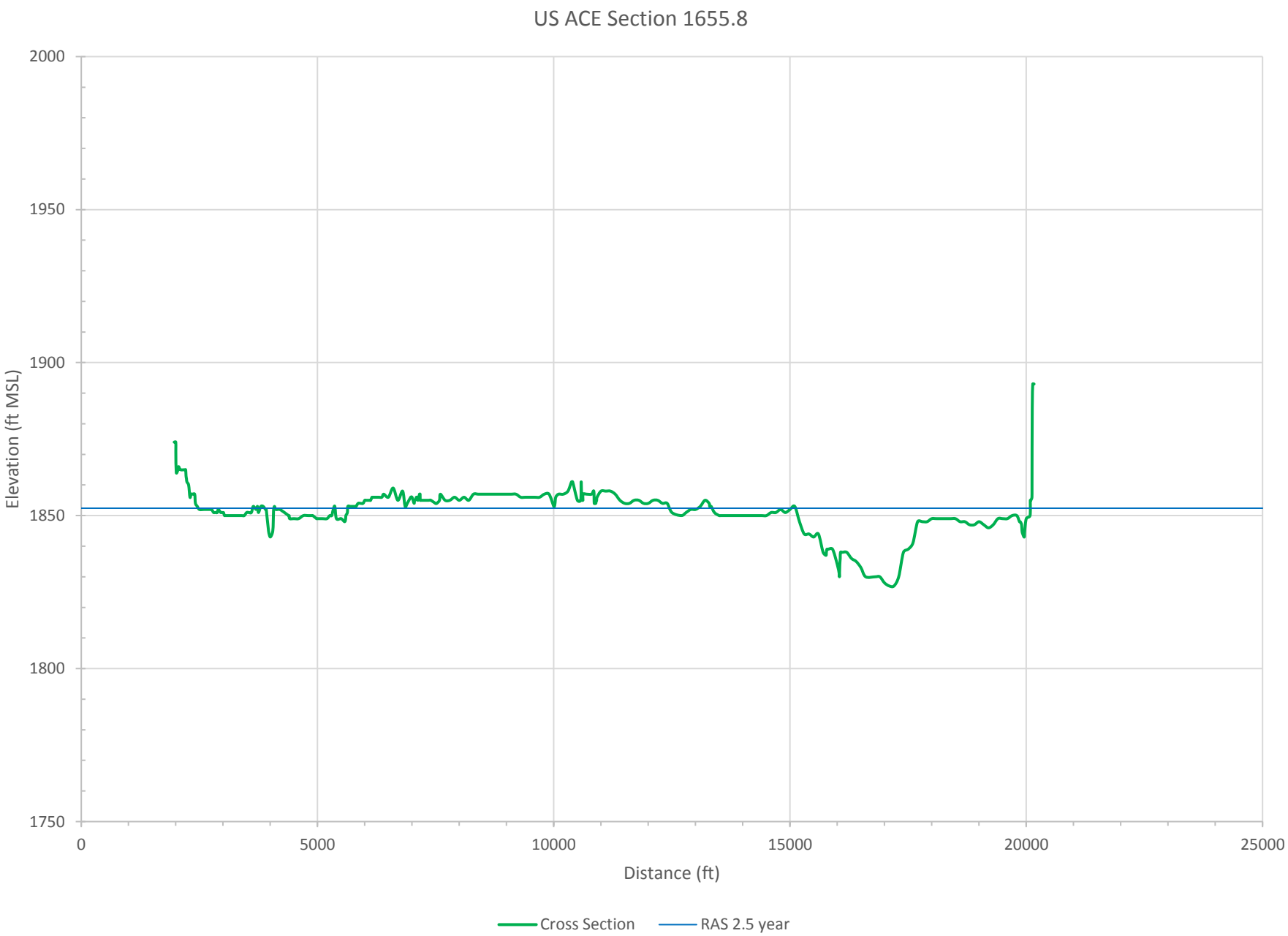
15000
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1655.8
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Elevation (ft MSL)
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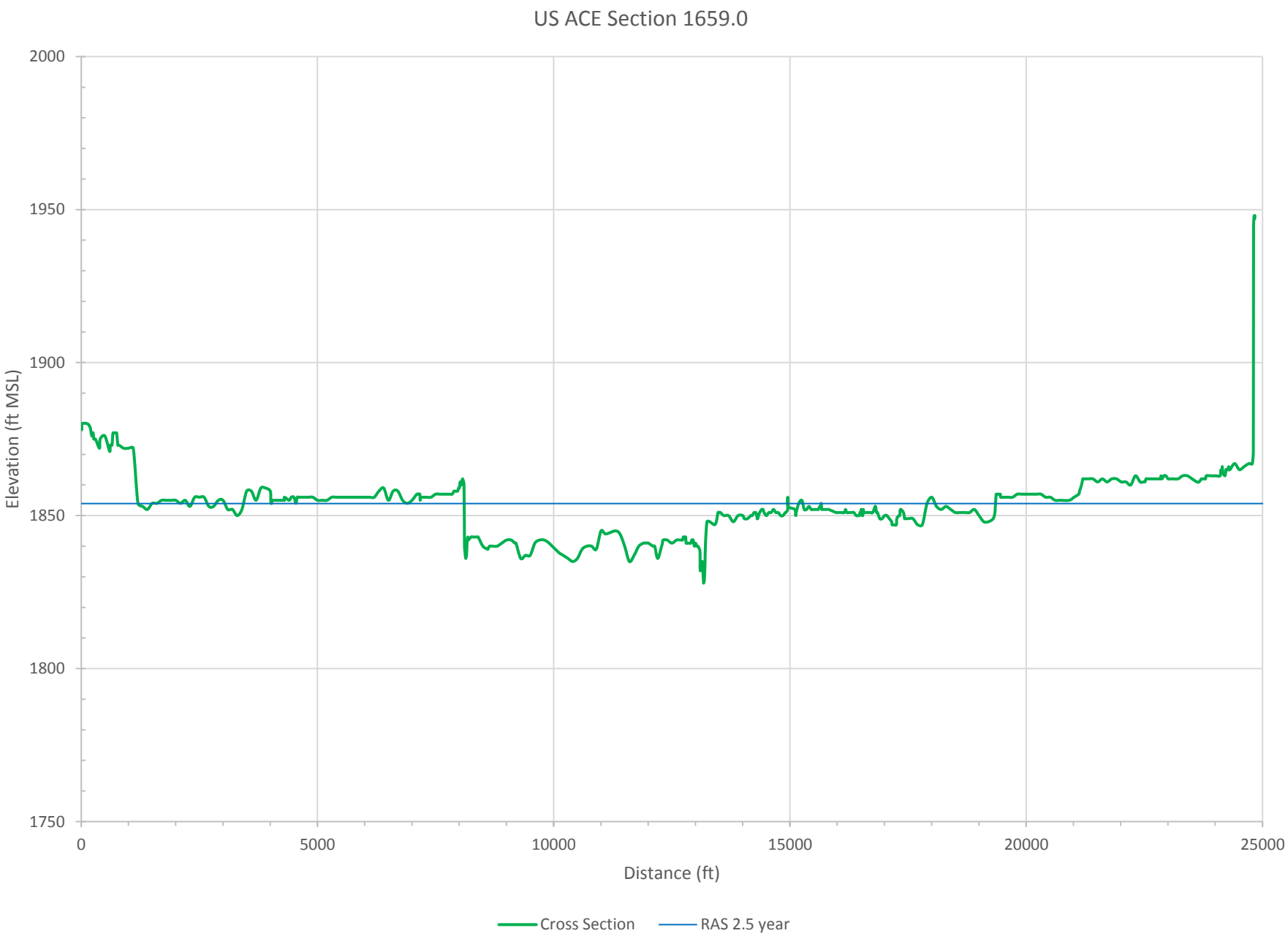
15000
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year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Elevation (ft MSL)
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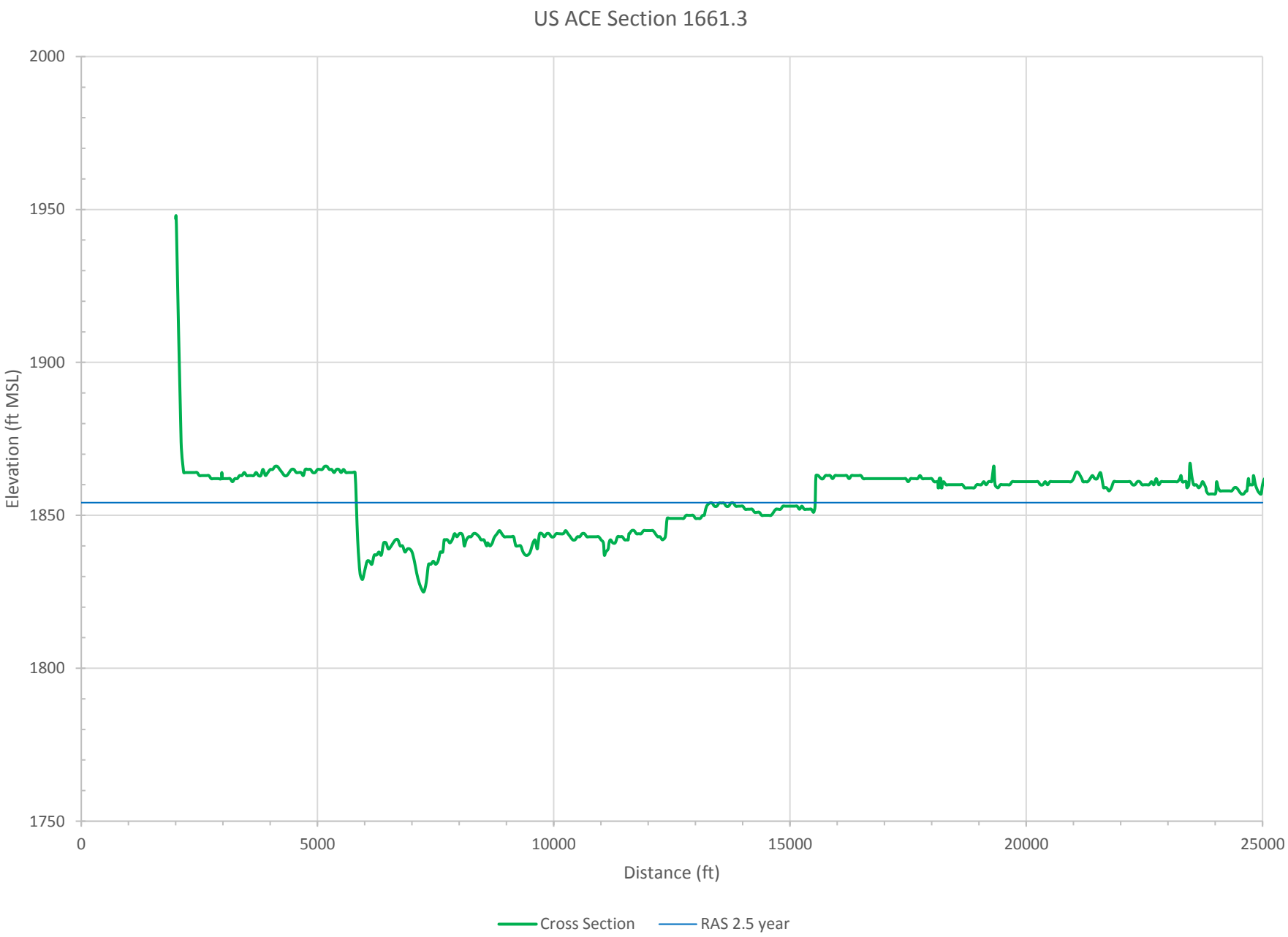
15000
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year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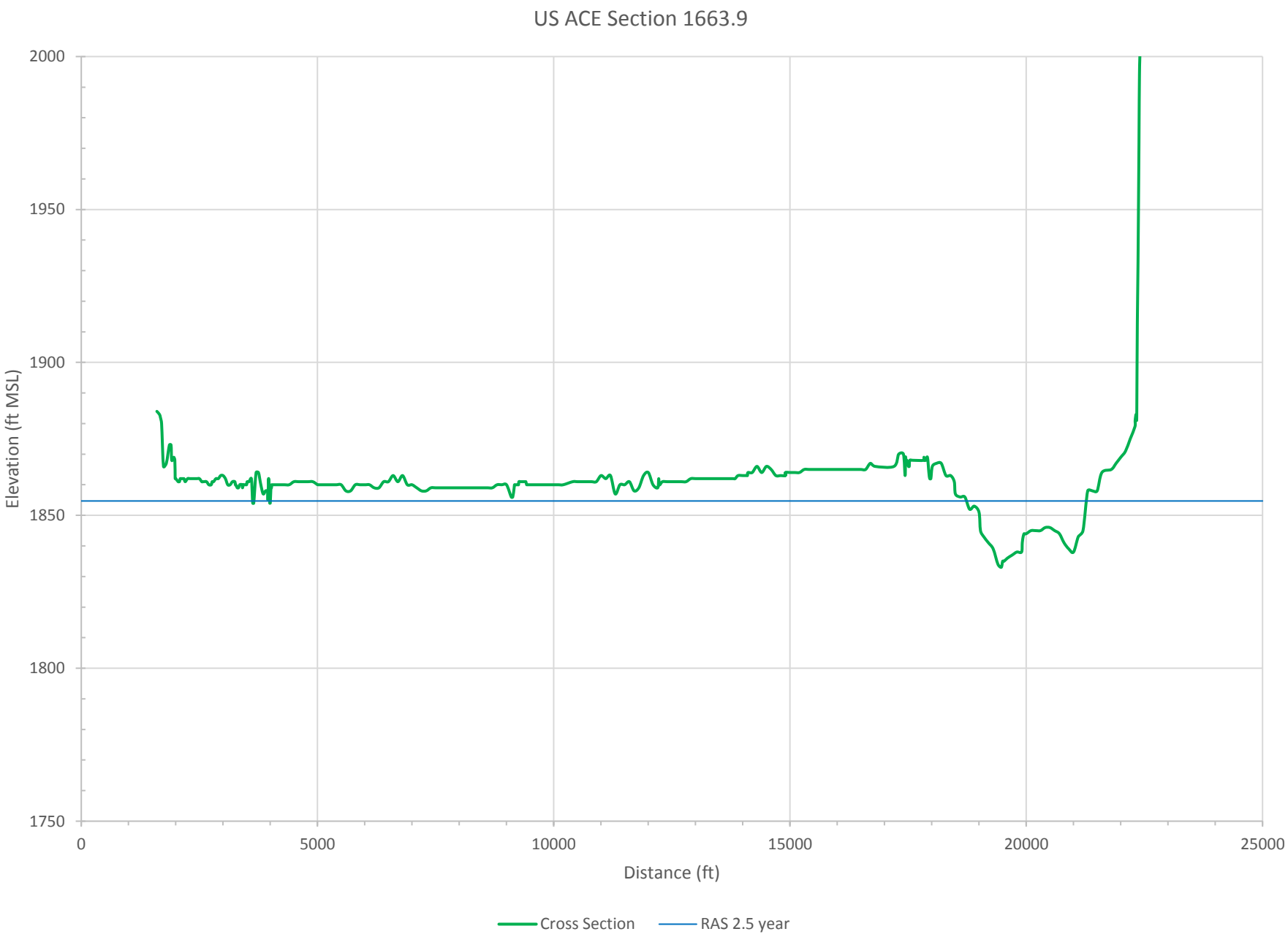
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1663.9
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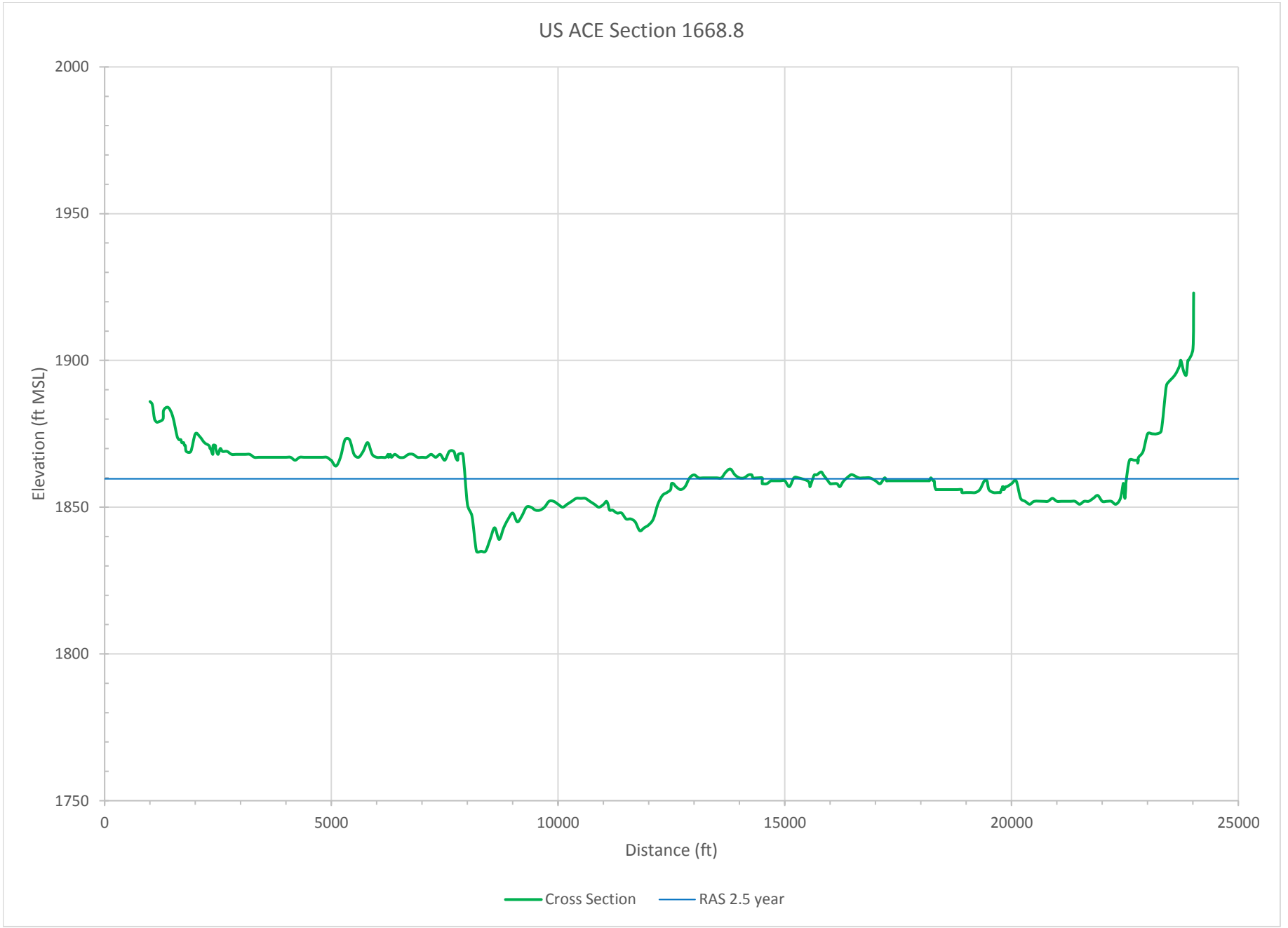
25000
Distance (ft)
Cross Section
RAS 2.5 year


US ACE Section 1668.8
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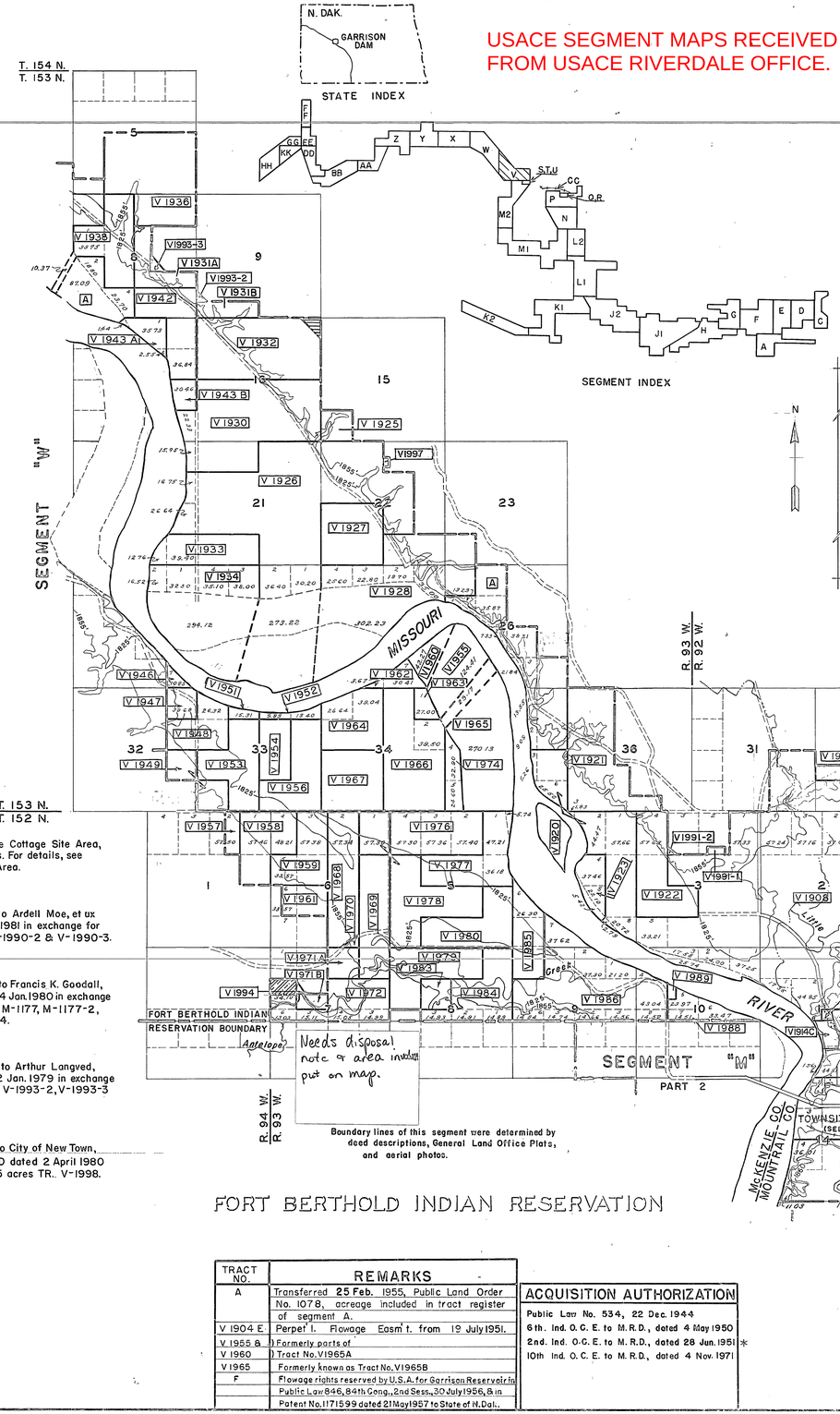
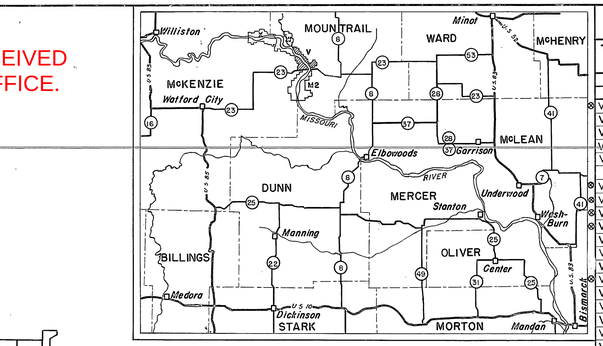
1900
1850
1800
1750
Elevation (ft MSL)
0
5000
10000
15000
20000
25000
Distance (ft)
Cross Section
RAS 2.5 year

CORPS OF ENGINEERS

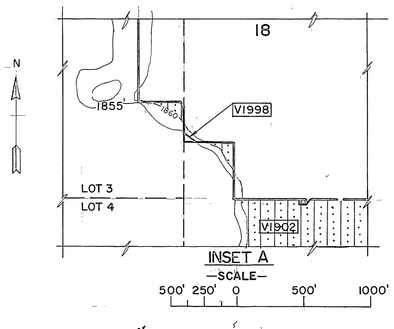
U.S. ARMY

USACE SEGMENT MAPS RECEIVED FROM USACE RIVERDALE OFFICE.





VICINITY MAP WITH SEGMENT INDEX



31.70 Acres, fee, Little Knife Cottage Site Area, conveyed as individual Lots. For details, see Little Knife Cottage Site Area.

12.34 Acres, fee conveyed to Ardell Moe, et ux by QCD dated 9 Jan. 1981 in exchange for 10.92 acres TRS. V-1990-2 & V-1990-3.

17.21 Acres, fee conveyed to Francis K. Goodall, et ux by QCD dated 14 Jan. 1980 in exchange for 16.61 acres TRS. M-1177, M-1177-2, M-1177-3 & V-1994.

10.00 Acres, fee conveyed to Arthur Langved, et ux by QCD dated 2 Jan. 1979 in exchange for 7.60 acres TRS. V-1993-2, V-1993-3 & V-1997.

0.05 Acres, fee conveyed to City of New Town, North Dakota by QCD dated 2 April 1980 in exchange for 0.05 acres TR. V-1998.

FORT BERTHOLD INDIAN RESERVATION

TRACT NO.	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
V 1904 E	Perpet'l. Flowage Easm't. from 19 July 1951.
V 1955 & V 1960	Formerly parts of Tract No. V1965A
V 1965	Formerly known as Tract No. V1965B
F	Flowage rights reserved by U.S.A. for Garrison Reservoir in Public Law 846, 84th Cong., 2nd Sess., 30 July 1956, & in Patent No. 1171599 dated 21 May 1957 to State of N. Dak.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
6th Ind. O.C.E. to M.R.D., dated 4 May 1950
2nd Ind. O.C.E. to M.R.D., dated 28 Jun. 1951 *
10th Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE TRANS.	FEE SIMPLE	EASEMENT
⊗ V 1901	ADOLPH LARSON et ux		34.38	
V 1902	ARVID OLSON et ux		158.58	
V 1903	JOHN R. HANSEN et ux		145.56	
V 1990-1	ARDELL MOE, ET UX		2.25	
V 1904E	HARDIN F. REYNOLDS et ux PARCEL 'A' 54.00 PARCEL 'B' 17.88			71.88
⊗ V 1905	EDWARD HANSEN		97.21	
⊗ V 1906	EDWARD HANSEN		20.00	
⊗ V 1907	ELGIN H. PETERSON		100.00	
⊗ V 1908	MRS. ANNA BARTLESON et al		3037.50	
V 1909	EDWIN C. STOLSON		74.28	
V 1910	FULL GOSPEL MISSION		1.00	
V 1990-2	ARDELL MOE, ET UX		5.42	
⊗ V 1911	HENRY O. NARUM et ux		40.00	
⊗ V 1912	WALTER BREHM et ux		70.00	
⊗ V 1913	MAGGIE BERNTSON		120.00	
⊗ V 1914C	RIVERVIEW CEMETERY OF SANISH		19.62	
⊗ V 1915	ADELAIDE ANDERSON et al		40.00	
⊗ V 1916	MAGGIE BERNTSON		110.34	
⊗ V 1917	STATE OF NORTH DAKOTA		40.00	
V 1991-1	ELMER BARTLESON, ET UX		3.44	
F	STATE OF NORTH DAKOTA	244.87		
⊗ V 1920	STATE OF NORTH DAKOTA		53.88	
V 1921	STATE OF NORTH DAKOTA		290.00	
⊗ V 1922	EDWARD HANSEN		177.63	
⊗ V 1923	EDWARD HANSEN		64.98	
A	U.S.A. DEP'T. OF INTERIOR		see remarks	
⊗ V 1925	GEORGE O'MALLEY		40.00	
⊗ V 1926	GEORGE O'MALLEY		1103.21	
⊗ V 1927	TORGNY F. S. LOE		160.00	
⊗ V 1928	W.M. HARRINGTON		565.33	
V 1929	DELETED			
V 1991-2	ELMER BARTLESON, ET UX		0.72	
⊗ V 1930	EARL L. NICE		438.28	
⊗ V 1931	ARTHUR AUVERSON PARCEL 'A' 70.00 'B' 40.00		110.00	
V 1932	STATE OF NORTH DAKOTA		320.00	
⊗ V 1933	JOHN KULCZYK		132.16	
⊗ V 1934	EARL L. NICE		416.24	
V 1935	DELETED			
V 1936	CHARLEY DAVIS et ux		320.00	
V 1937	DELETED			
⊗ V 1938	KENNETH AUVERSON		170.12	
V 1992	DELETED			
V 1993-1	DELETED			
V 1993-2	ARTHUR LANGVED, ET UX		1.57	
⊗ V 1942	KENNETH AUVERSON		156.84	
V 1943	MRS. CHARLOTTE STENSHOEL 'A' 38.72 'B' 30.46		70.18	
V 1944	DELETED			
⊗ V 1945	MPLS. ST. PAUL & SAULT STE. MARIE R.R. CO.		37.44	
V 1990-3	ARDELL MOE, ET UX		3.25	
⊗ V 1946	FRANK P. BUZICK et ux		10.85	
⊗ V 1947	FRANK P. BUZICK et ux		39.68	
V 1948	ANTON PETERSON et ux		106.32	
⊗ V 1949	FRANK P. BUZICK et ux		80.00	
# V 1993-3	ARTHUR LANGVED, ET UX		4.48	
⊗ V 1951	MARTIN LUND et ux		15.31	
⊗ V 1952	FRANCIS K. GOODALL et ux		23.29	
⊗ V 1953	MRS. CARL ELLINGSON et al		160.00	
⊗ V 1954	MARTIN LUND et ux		80.00	
⊗ V 1955	ERRETT A. JOHNSON		124.41	
⊗ V 1956	JOHN F. GREEN et ux		160.00	
V 1957	CHARLES W. AUSTIN et ux		28.75	
⊗ V 1958	BLANCHE E. GULLICKSON		145.67	
V 1959	GEORGE E. MILLIGAN		130.95	
⊗ V 1960	JOHN F. GREEN		42.27	
⊗ V 1961	FRANCIS K. GOODALL et ux		60.00	
⊗ V 1962	JOHN F. GREEN		34.08	
⊗ V 1963	ERRETT A. JOHNSON		27.00	
⊗ V 1964	GUNTHER HARMS		145.68	
⊗ V 1965	CLARENCE VANGEN et ux		270.13	
⊗ V 1966	FRANCIS K. GOODALL et ux		308.67	
⊗ V 1967	TRUMAN T. HALLOWELL et ux		160.00	
⊗ V 1968	HELEN LAYMAN		170.12	
⊗ V 1969	FRANCIS K. GOODALL et ux		160.00	
⊗ V 1970	FRANCIS K. GOODALL et ux		7.22	
⊗ V 1971	FRANCIS K. GOODALL et ux PARCEL 'A' 40.00 PARCEL 'B' 20.00		60.00	
⊗ V 1972	FRANCIS K. GOODALL et ux		172.28	
V 1994	FRANCIS K. GOODALL, ET UX		2.18	
⊗ V 1974	CLARENCE VANGEN et ux		57.50	
V 1995	DELETED			
⊗ V 1976	HELEN LAYMAN		172.06	
⊗ V 1977	CARL FROHOLM		169.13	
⊗ V 1978	A. F. MEYERS		257.30	
⊗ V 1979	JOHN GOODALL et ux		160.00	
⊗ V 1980	JOHN GOODALL		160.00	
V 1981	DELETED			
V 1982	DELETED			
⊗ V 1983	FRANCIS K. GOODALL et ux		40.00	
⊗ V 1984	FRANCIS K. GOODALL et ux		164.73	
⊗ V 1985	ARNE HARMS et ux		106.30	
⊗ V 1986	A. F. MEYERS et ux		412.48	
V 1987	DELETED			
⊗ V 1988	WILLIAM C. GOLLY		67.16	
⊗ V 1989	W. E. BLATHERWICK		4.79	
V 1996	RIVERVIEW CEMETERY OF SANISH		1.34	
V 1997	ARTHUR LANGVED, ET UX		1.55	
V 1998	CITY OF NEW TOWN, NORTH DAKOTA		0.05	

⊗ Oil and gas reserved

NOTE: V1945 oil and gas reserved to owners thereof except Mpls. St. Paul & Sault Ste. Marie R.R. Co.

MICROFILMED	DATE	BY	REVISIONS	DATE AUDIT APPROVED
	11-17-88	D.A.	Audit Revisions	
	10-16-79	C.A.C.	Revised Tract 1990-2	
	8-6-79	T.E.E.	Added Tract 1998	
	6-17-77	P.L.P.	Revised Tracts 1990-1, 1990-2, 1993-2, 1993-3, 1994, 1996, 1997	
	9-29-70	R.E.P.	Revised Project Name	

FINAL
PROJECT MAP
TYPE OF MAP

STATE NORTH DAKOTA
COUNTY MOUNTRAIL & McKENZIE
DIVISION MISSOURI RIVER
DISTRICT GARRISON
TO OMAHA DISTRICT 1 APRIL 1960
LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.
10 MILES S OF GARRISON
15 MILES N OF STANTON

SEGMENT V
— LAND AREA —

TOTAL ACRES IN SEGMENT 13,571.89
ACRES FEE
ACRES EASEMENT
ACRES TRANSFERRED TO W.D.
ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF 71.30
ACRES TRANSFERRED
ACRES LEASED FROM W.D.
ACRES OTHERWISE

— LEGEND —

BOUNDARY MARKER (BRASS CAP)
TAKING LINE FOR RESERVOIR
PERTINENT CONTOUR LINES
CEMETERY
STATE OR PROVINCE LINES
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
PROPERTY LINE
STREAMS
RAILROADS
POWER LINES
TELEPHONE LINES
IMPROVED ROADS
UNIMPROVED ROADS

— SCALE —
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM-LAKE SAKAKAWEA, NO. DAK.

SEGMENT V

RECOMMENDED: DATE: 14 Mar 1950
APPROVED: LT. COL. CORPS OF ENGINEERS DATE: 20 Mar 1950

COMPILED: TRACED: CHECKED: W.L.

DATE	BY	REVISIONS	APPROVED
10-10-51	W.B.	Correct to date	
3-13-52	W.B.	Correct to date	
3-14-52	M.C.J.	Taking line change, V-1931-440.00 AC. to 110.00 AC.	
1-18-60	H.A.Z	Taking line change, V-1914C - 19.62 AC. Added	
5-25-62	H.A.Z.	Due to Final Audit	
5-29-69	M.P.	NAME of Project: added transfer	

SHEET: 23 OF 36 DRAWING NO. G-23-ND-C

U.S. BUTT CO., CHICAGO 75 3-51-47 Form 177A

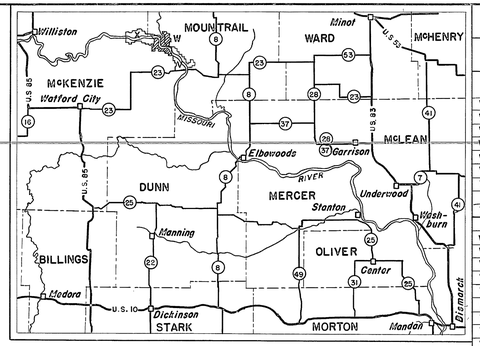
CORPS OF ENGINEERS

U.S.ARMY

TRACT NO.	REMARKS
W2081E	Perpet'l flowage easement from 7-18-78

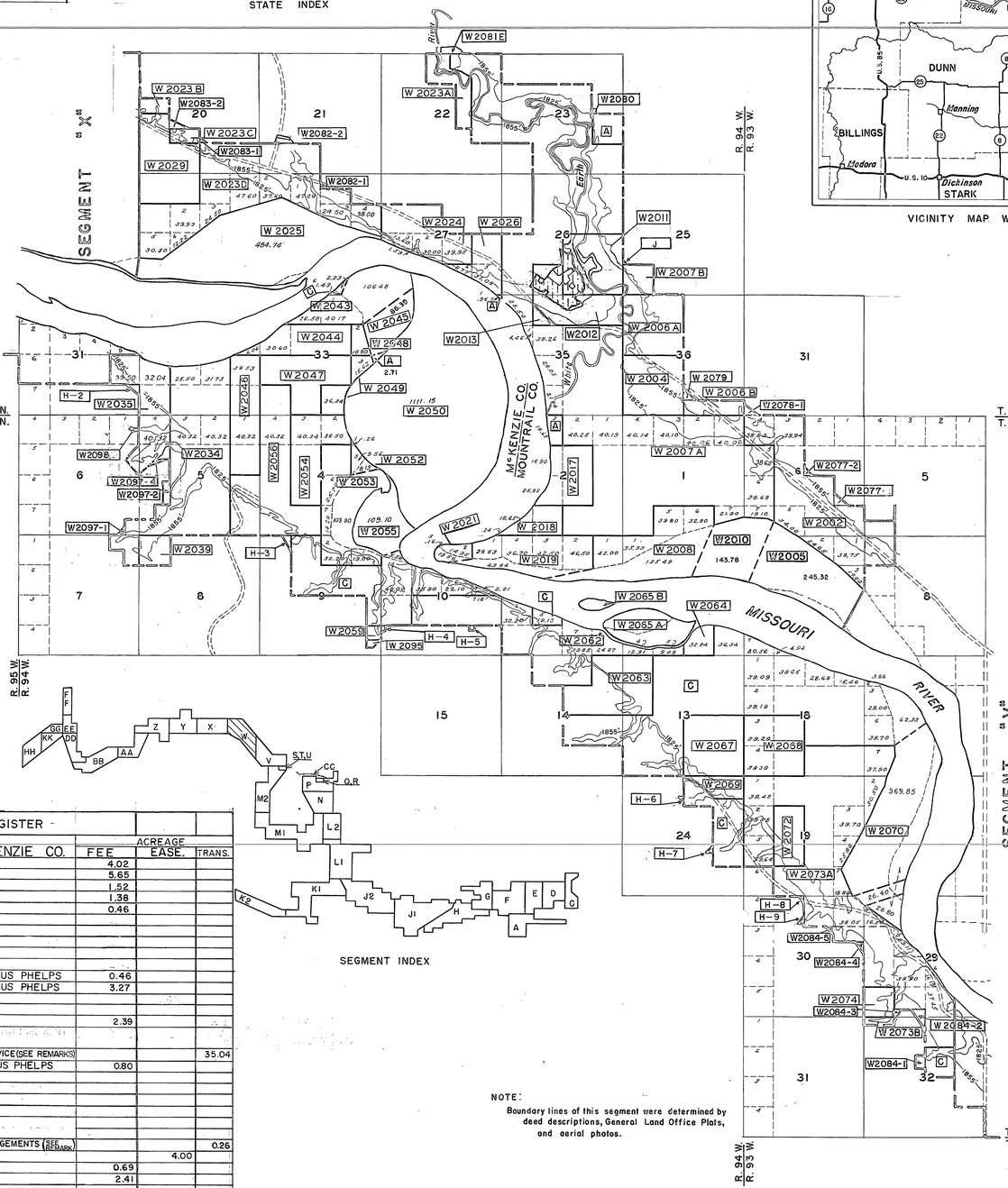


STATE INDEX



VICINITY MAP WITH SEGMENT INDEX

48.30 Acres, fee, White Earth Cottage Site Area, conveyed as individual Lots. For details, see White Earth Cottage Site Area map.



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

ACQUISITION TRACT REGISTER

TRACT NO.	LANDOWNER	ACREAGE FEE	ACREAGE EASE.	TRANS.
	McKENZIE CO.			
W2084-1	ARNE G. HARMS, ET UX	4.02		
W2084-2	ARNE G. HARMS, ET UX	5.65		
W2084-3	ARNE G. HARMS, ET UX	1.52		
W2084-4	ARNE G. HARMS, ET UX	1.38		
W2084-5	ARNE G. HARMS, ET UX	0.46		
W2086-1	DELETED			
W2086-2	DELETED			
W2091	DELETED			
W2092	DELETED			
W2095	DELETED			
W2097-1	JOHN A. PHELPS A/K/A JOHN ANGUS PHELPS	0.46		
W2097-2	JOHN A. PHELPS A/K/A JOHN ANGUS PHELPS	3.27		
W2097-3	DELETED			
W2098	JOHN A. PHELPS	2.39		
H	DEPT. OF AGRICULTURE, FOREST SERVICE (SEE REMARKS)			35.04
W2097-4	JOHN A. PHELPS A/K/A JOHN ANGUS PHELPS	0.80		
	MOUNTRAIL CO.			
J	DEPT. OF INTERIOR, BUREAU OF LAND MANAGEMENTS (SEE REMARK)			0.26
W2081E	AVERY L. HELLING		4.00	
W2083-1	ORVILLE T. THRONSON, ET AL	0.69		
W2083-2	ORVILLE T. THRONSON, ET AL	2.41		

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE TRANSFER
	MOUNTRAIL CO.		
W 2001	DELETED		
W 2002	ANDREW GUNDERSON	454.67	
W 2003	DELETED		
W 2004	JOHN N. GUNDERSON	160.00	
W 2005	ANDREW GUNDERSON	245.32	
W 2006	STATE OF N. DAK. 'A' 160.00 'B' 40.00	200.00	
W 2007	CHARLES E. STEWART		
	PARCEL 'A' 2104.37 'B' 40.00	2144.37	
W 2008	MARIE CRANMER	286.42	
A	U.S.A. DEP'T. OF INTERIOR	see remarks	
W 2010	CHARLES E. STEWART	143.78	
W 2011	JOHN LARMER	160.00	
W 2012	KENNETH AUVERSON	149.85	
W 2013	ALFRED COLTON	10.15	
W 2077-1	NEIL BARTELSON, ET UX	3.44	
W 2077-2	NEIL BARTELSON, ET UX	0.46	
W 2078-1	V. P. & R. COOPERATIVE GRAZING ASSOCIATION	0.80	
W 2017	SINA B. ROGERS	122.73	
W 2018	ANDREW GUNDERSON	58.89	
W 2019	ARTHUR AUVERSON	198.07	
W 2078-2	DELETED		
W 2021	ANDREW GUNDERSON	34.07	
W 2022	DELETED		
W 2023	E. H. O'CAIN ET UX		
	PARCEL 'A' 62.80 'B' 20.00 'C' 20.00 'D' 562.05	664.85	
W 2024	ALFRED THOMPSON	165.14	
W 2025	E. H. O'CAIN ET UX	484.74	
W 2026	ANNE M. THOMPSON	79.85	
W 2078-3	DELETED		
W 2079	STATE OF NORTH DAKOTA	1.84	
W 2029	FRANK LABAR ET UX	200.00	
W 2080	ARVIN E. OLSON, ET UX	0.52	
W 2081	DELETED		
W2082-1	GEORGE VACHAL, ESTATE	0.46	
W2082-2	GEORGE VACHAL, ESTATE	4.82	
	McKENZIE CO.		
W 2033	DELETED		
W 2034	SARAH B. PHELPS ET AL	527.87	
W 2035	SARAH B. PHELPS ET AL	186.86	
W 2036	DELETED		
W 2037	DELETED		
W 2039	AL N. NELSON	40.00	
W 2041	DELETED		
W 2042	DELETED		
W 2043	MRS. MARY ORTLOFF ET AL	163.23	
W 2044	RUBY L. QUALE	116.66	
W 2045	RALPH O. VANGEN ET UX	86.39	
W 2046	ROBERT AMOS BOWYER JR. ET AL	159.85	
W 2047	JOHN A. ANDERSON	160.00	
W 2048	RALPH O. VANGEN ET UX	16.80	
W 2049	CLARENCE VANGEN ET UX	51.96	
W 2050	STATE OF NORTH DAKOTA	1111.15	
W 2051	DELETED		
W 2052	FLORENCE POOLE HITLAND ET AL	17.95	
W 2053	MILDRED BANCROFT ET AL	239.90	
W 2054	HELGE SHERVEN	156.84	
W 2055	MILDRED BANCROFT ET AL	109.10	
W 2056	EDWIN HENDRICKSON	320.32	
W 2057	DELETED		
W 2058	DELETED		
W 2059	RUBY L. QUALE	10.00	
W 2061	DELETED		
W 2062	BERTHA C. BENN	398.92	
W 2063	SIDNEY BENN	200.00	
W 2064	AGNES G. SKARET	32.84	
W 2065	STATE OF N.D. PARCEL 'A' 107.30 'B' 14.00	121.30	
W 2066	DELETED		
W 2067	MYRON N. RULAND	160.00	
W 2068	DELLA M. RULAND	158.68	
W 2069	MARION S. RULAND ET AL	43.00	
W 2070	BLAINE OSBURN ET UX	396.65	
W 2071	DELETED		
W 2072	HENRY AASTERUD ET AL	80.00	
W 2073	BLAINE OSBURN ET AL PARCEL 'A' 1036.59 'B' 10.51	1047.10	
W 2074	OLE BREVIG ET UX	40.00	
W 2076	DELETED		
A	U.S.A. DEP'T. OF INTERIOR	SEE REMARKS	
C	U.S.A. (DEP'T. OF AGR.) (see remarks)		3204.59

TRACT	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
C	Transferred 10 March 1954, Executive Order No. 10520, acreage includes the parcels in Segments W, X, Y and Z.
H	Memo of understanding dtd 6-29-79. Acreage includes Parcels in Segments X & Y. Segment W contains the following Parcel H-2, 2.75 Ac., Par. H-3, 2.41 Ac., Par. H-4, 1.15 Ac., Par. H-5, 1.15 Ac., Par. H-6, 0.46 Ac., Par. H-7, 0.86 Ac. Parcel H-8, 0.34 Ac., Par. H-9, 0.72 Ac.
W2010	Formerly part of Tract No. W 2005
J	R-O-W Reservation dtd. 11-23-79.

NOTE:
Oil and gas reserved in all tracts except W 2006

MICROFILMED	DATE	BY	REVISIONS	DATE AUDIT APPROVED
	11-7-88	D.A.	AUDIT REVISIONS	
	5-11-84	R.C.I.	ADDED TR. W2097-4, REVISED TR W2034	
	5-29-69	M.W.R.	Name of Project: added transfer	
	9-29-70	R.E.P.	Revised Project Name	
	6-17-77	P.L.P.	Revised Tracts 2080, 2081, 2082-1, 2082-2, 2083-1.	
	10-11-77	R.E.P.	Revised Owner's name for Trs. W2082-1 & 2	
	1-25-78	P.L.P.	REVISED TR. 2081 TO EASEMENT (2081E)	
	5-3-78	F.A.L.	DELETED TR. 2097-3, ADDED TR. 2098	
	12-7-78	R.C.I.	ADDED TRACT H	
	7-2-79	F.A.L.	DELETED TR. H, REDESIGNATED AS TR. J	

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
6th Ind. O.C.E. to M.R.D., dated 4 May 1950
10th Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY MOUNTRAIL & McKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON
TO OMAHA DISTRICT 1 APRIL 1960

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT W — LAND AREA —

TOTAL ACRES IN SEGMENT 15,395.55

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF 48.30

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

— LEGEND —

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

— SCALE — 2" = 1 MILE

5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT W

RECOMMENDED: DATE: 14 Mar. 1950

APPROVED: DATE: 20 Mar. 1952
LT. COL. CORPS OF ENGINEERS

COMPILED: TRACED: CHECKED:

DATE	BY	REVISIONS	APPROVED
10-10-51	W.B.	Correct to date	
3-13-52	W.B.	Correct to date	
5-8-53	M.C.J.	Taking line change: W2073, 1507.10 ac. to 1047.10 ac.	
10-1-56	W.B.	Taking line changes: W2034, 557.87 ac. to 527.87 ac. & W2035, 272.14 ac. to 186.86 ac.	
5-25-62	H.A.Z.	Due to Final Audit	

SHEET: 24 OF 36 DRAWING NO.

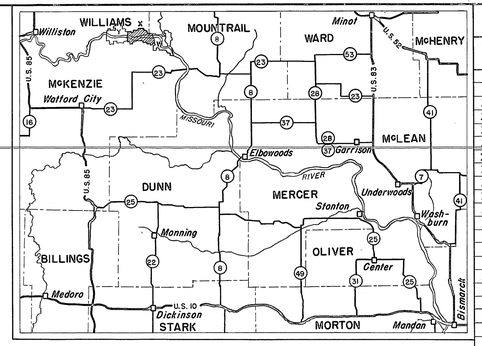
U. S. BLUE CO., CHICAGO 79 0-28-47
FORM 1177A

CORPS OF ENGINEERS

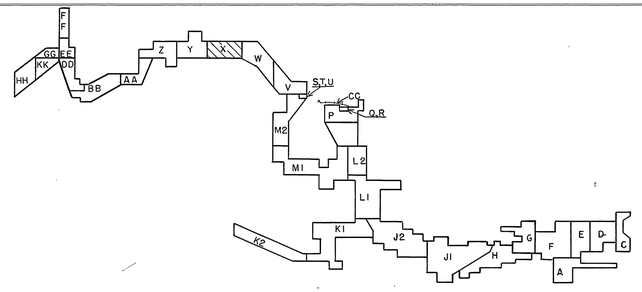
U.S. ARMY



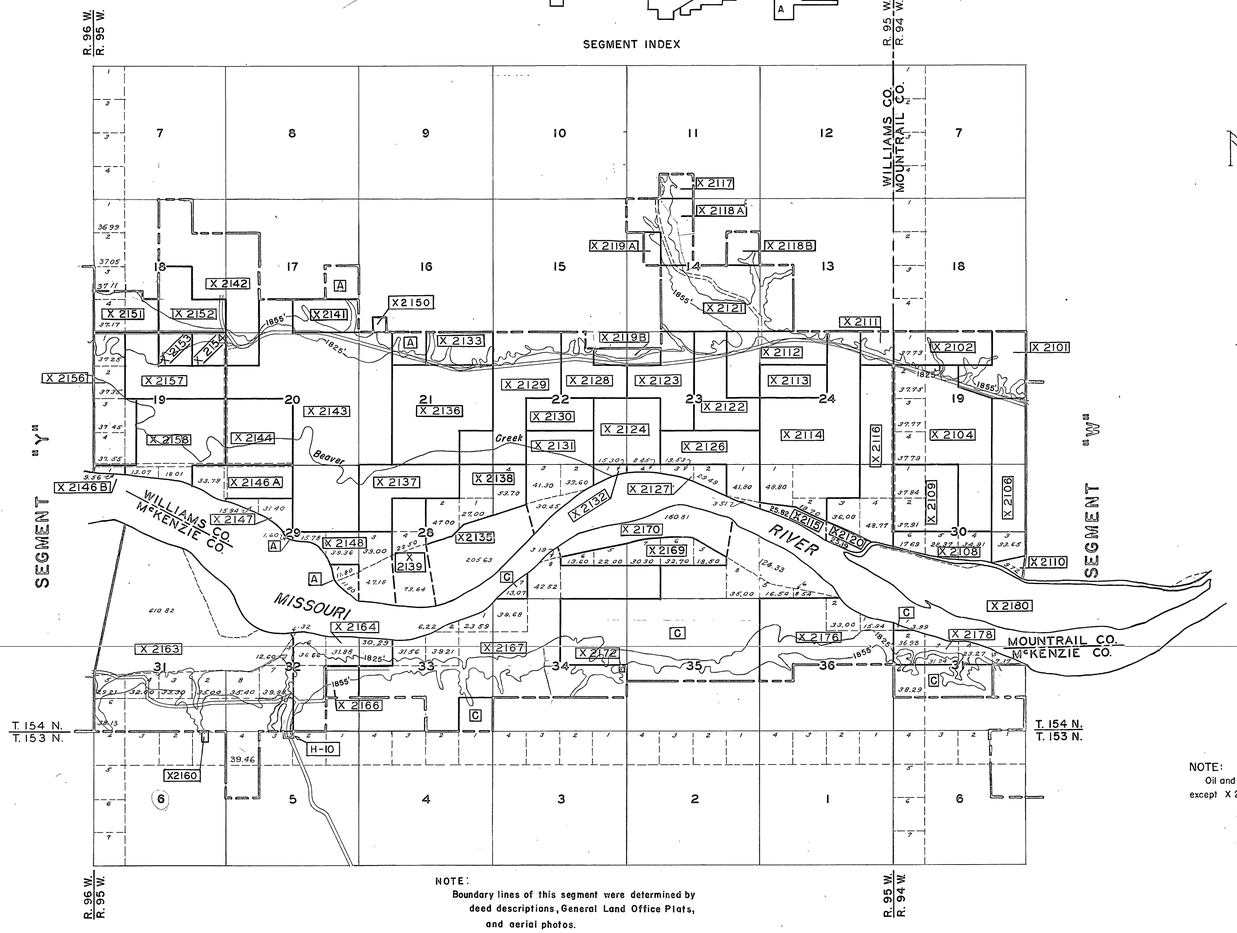
STATE INDEX



VICINITY MAP WITH SEGMENT INDEX



SEGMENT INDEX



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

APPROX. TRUE NORTH

NOTE:
Oil and gas reserved in all tracts except X 2176

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	EASE.	TRANS.
	MOUNTRAIL CO.			
X 2101	O.H. WALES	113.60		
X 2102	PAUL HEDGER	117.73		
X 2103	DELETED			
X 2104	ALFRED H. THOMPSON ET AL	399.71		
X 2106	ORVILLE W. GRIFFIN ET UX	193.65		
X 2107	DELETED			
X 2108	WILLIAM LARMER	80.97		
X 2109	ALFRED THOMPSON	155.75		
X 2110	ORVILLE W. GRIFFIN ET UX	9.72		
X 2180	STATE OF N. DAK.	521.60		
	WILLIAMS CO.			
X 2111	CLIFFORD G. MARMON	40.00		
X 2112	VERONICA ALVENIA MARMON ET AL	160.00		
X 2113	JOHN DREIMAN	80.00		
X 2114	B. E. HOVE ET UX	468.50		
X 2115	B. E. HOVE ET UX	25.82		
X 2116	GEORGE B. BRUNT	244.77		
X 2117	CLIFFORD G. MARMON	30.00		
X 2118	LEMUEL MARVIN MARMON, JR. PARCEL 'A' 120.00 'B' 40.00	160.00		
X 2119	ELBERT H. MENDENHALL ET UX PARCEL 'A' 20.00 'B' 40.00	60.00		
X 2120	GEORGE B. BRUNT	25.19		
X 2121	LEMUEL MARVIN MARMON, JR.	320.00		
X 2122	EDEN RANDALL MARMON	160.00		
X 2123	MARVIN MULLER MARMON	160.00		
X 2124	JOSEPH G. VIALL ET UX	160.00		
X 2140	DELETED			
X 2126	GEORGE A. HOVE	165.31		
X 2127	CLIFFORD H. HOVE	51.47		
X 2128	CALISTA MARMON	115.00		
X 2129	MRS. MARGARET ZOK ET AL	280.00		
X 2130	GEORGE B. BRNT ET AL	80.00		
X 2131	CLIFFORD MARMON	185.35		
X 2132	MELTON DANIELSON	15.30		
X 2133	JOSEPH G. VIALL ET UX	80.00		
A	U.S.A. DEP'T OF INTERIOR	see remarks		
X 2135	MELTON DANIELSON	205.63		
X 2136	JOSEPH G. VIALL ET UX	320.00		
X 2137	MURIEL POIRRIER	160.00		
X 2138	MELTON DANIELSON	167.70		
X 2139	JAMES HENDRICKSON	136.14		
X 2150	STATE OF NORTH DAKOTA	4.58		
X 2141	EDDIE SANDERSON	80.00		
X 2142	HENRY SANDERSON ET AL	320.00		
X 2143	MRS. MARGARET ZOK ET AL	800.00		
X 2144	WOODROW SVEEN	160.00		
X 2146	ELMER HENDRICKSON PARCEL 'A' 113.79 'B' 9.56	123.35		
X 2147	GEORGE A. HOVE	47.34		
X 2148	MINNIE I. SANDERSON	141.32		
X 2151	GEORGE A. HOVE	91.45		
X 2152	MRS. MARGARET ZOK ET AL	120.00		
X 2153	HENRY SANDERSON	40.00		
X 2154	WILLIE SANDERSON	40.00		
X 2156	JAMES HENDRICKSON	178.60		
X 2157	CLIFFORD H. HOVE	160.00		
X 2158	ELMER HENDRICKSON ET AL	242.08		
	McKENZIE CO.			
X 2160	HARLEY THOMPSON, ET AL	2.73		
X 2163	ERNEST D. PETERSON	1145.95		
X 2164	BERT BOOTS ET UX	179.15		
H	DEPT. OF AGRICULTURE, FOREST SERVICE			see remarks
X 2166	SELMER DANIELSON ET UX	40.00		
X 2167	STEVE YTTREDAHL	823.97		
X 2168	DELETED			
X 2169	LAWRENCE GRIMESTAD	117.10		
X 2170	LAWRENCE GRIMESTAD	160.81		
X 2171	DELETED			
X 2172	ELM TREE SCHOOL DIST. NO. 3	2.00		
X 2173	DELETED			
X 2174	DELETED			
X 2176	STATE OF N. DAK.	308.94		
X 2177	DELETED			
X 2178	LAWRENCE BOOTS	98.66		
X 2179	DELETED			
C	U.S.A. (DEP'T. OF AGR.)	see remarks		

TRACT	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
C	Transferred 10 March 1954, Executive Order No. 10520, acreage included in the tract register of Segment W
X 2115	Formerly part of Tract known as X2115A
X 2120	Formerly part of Tract known as X2115A
X 2135	Formerly known as Tract No. X2115B
H	Memo of understanding dtd. 6-29-79 Acreage included in Tract Register of Seg. W. Seg. X contains Parcel H-10, 1.72 Ac.

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY MOUNTRAIL, WILLIAMS & McKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT IAPRIL 1960

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT X — LAND AREA

TOTAL ACRES IN SEGMENT 11,076.94

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

DISPOSALS

TOTAL ACRES DISPOSED OF

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

LEGEND

BOUNDARY MAKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

— SCALE — 2" = 1 MILE

5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT X

RECOMMENDED: DATE: 14 Mar. 1950

APPROVED: LT. COL., CORPS OF ENGINEERS DATE: 20 Mar. 1952

COMPILED: TRACED: CHECKED: W.L.

DATE	BY	REVISIONS	APPROVED
7-3-69	M.W.P.	Name of Project ... added transfer	
10-10-61	W.B.	Correct to date	
3-13-52	W.B.	Correct to date	
6-5-52	M.C.J.	Taking line change, X 2141-320.00 ac. to 80.00 ac.	
3-14-52	M.C.J.	Taking line change, X 2151-308.32 ac. to 115.72 ac.	
3-2-55	M.C.J.	Taking line change, X 2151-115.72 ac. to 91.45 ac.	

SHEET: 25 OF 38 DRAWING NO. G-25-ND-C

MICROFILMED

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.

AUDITED

INSTALLATION OR PROJECT NO. C2-2-1895

DATE	BY	REVISIONS
11-21-86	D.A.	AUDIT REVISIONS
7-2-79	T.E.E.	REVISED OWNERS NAME FOR TRACT H-10
3-9-79	R.C.I.	ADDED TRACT H
11-8-78	L.K.N.	Revised Acreage Tract X2160
9-29-70	R.E.P.	Revised Project Name.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
6th. Ind. O.C.E. to M.R.D., dated 4 May 1950
10th. Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

DATE AUDIT APPROVED	DATE	BY	REVISIONS	APPROVED
	2-8-65	H.A.Z.	Revised Final Audit	
	5-25-62	H.A.Z.	Due to Final Audit	
	2-25-57	W.W.B.	Taking line change, X2128-120.00 ac. to 115.00 ac.	
	7-28-55	M.C.J.	Taking line change, X 2166-160.00 ac. to 40.00 ac.	

U. S. BLUE CO., CHICAGO 75 3-18-47
Form 177A

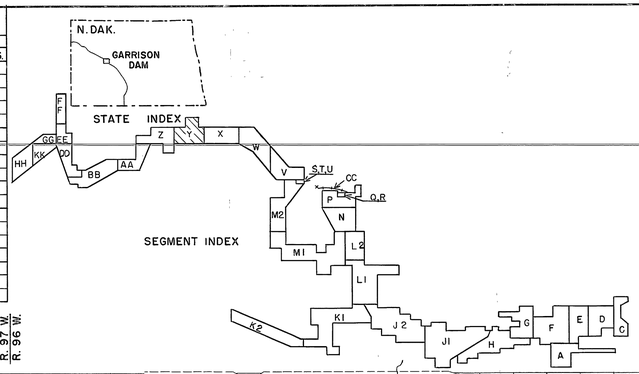
G-25-ND-C

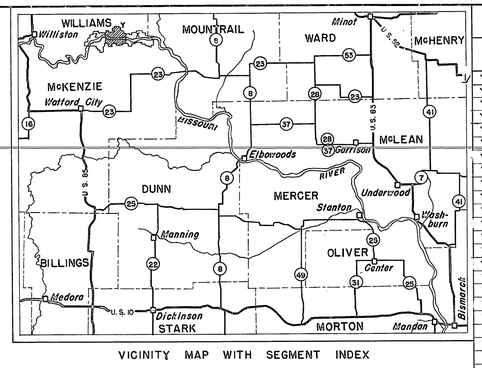
CORPS OF ENGINEERS

U.S. ARMY

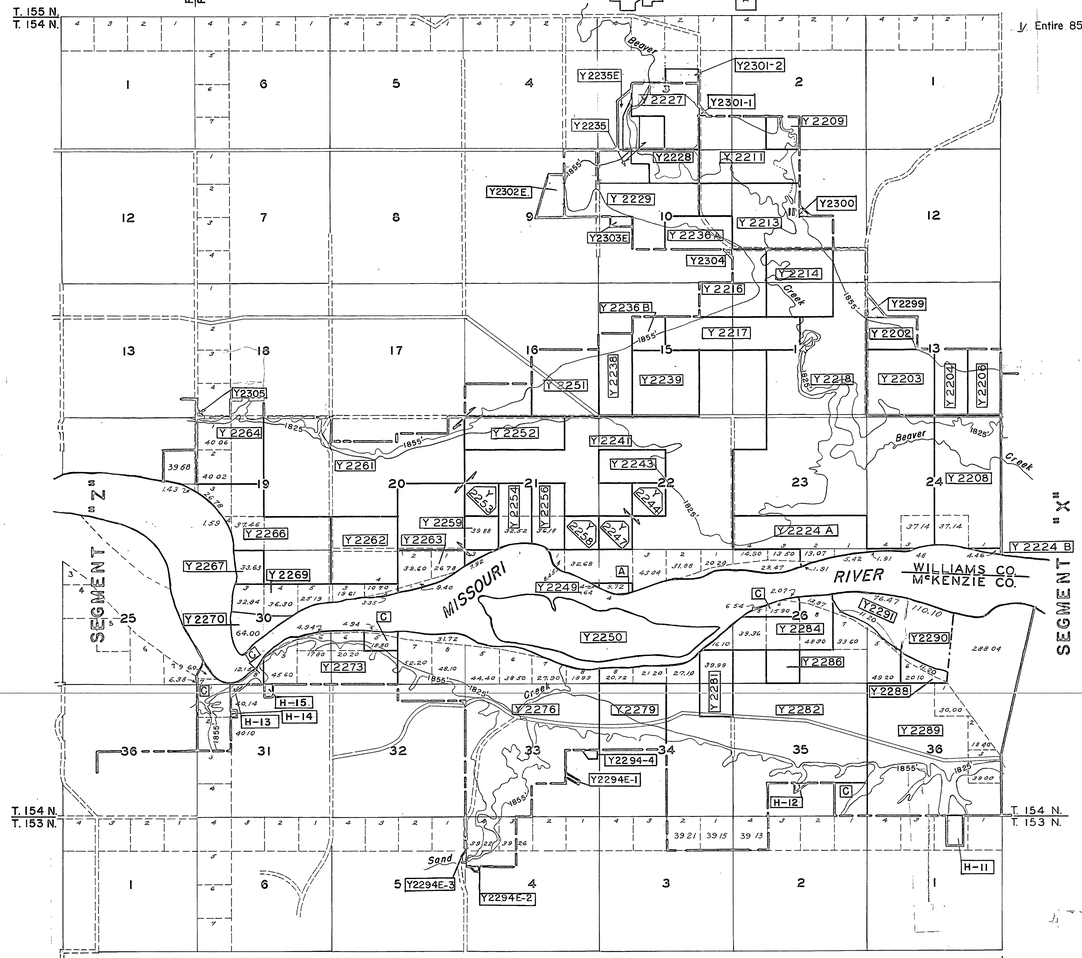
TRACT REGISTER

TRACT NO.	LANDOWNER	ACREAGE FEE	EASE.	TRANS.
Y 2294E-1	HOMER A. SORENSON, ET UX		2.14	
Y 2294E-2	HOMER A. SORENSON, ET UX		1.27	
Y 2294E-3	HOMER A. SORENSON, ET UX		1.42	
Y2294-4	HOMER A. SORENSON, ET UX	3.13		
H	DEPT. OF AGRICULTURE, FOREST SERVICE			see remarks





VICINITY MAP WITH SEGMENT INDEX



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.
Contours of 1850 m.s.l. and 1855 m.s.l. extend into tract Y-2294-4.

N

APPROX. TRUE NORTH

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	EASEMENT
Y 2235	VIRGIL HARTSOCH, ET UX (FORMERLY Y2228E)	85.00	
Y 2237	DELETED		
Y 2201	DELETED		
Y 2202	DANIEL T. McCARTHY	60.00	
Y 2203	HAAKON M. HOVE, ET UX	160.00	
Y 2204	EDDIE SANDERSON, ET UX	80.00	
Y 2293	DELETED		
Y 2206	MYRTLE SANDERSON	80.00	
Y 2207	DELETED		
Y 2208	RUDY BARSTAD, ET UX	317.14	
Y 2209	WOODROW SVEEN	40.00	
Y 2294-1	DELETED		
Y 2211	ALBERT A. JOHNSON	200.00	
Y 2212	DELETED		
Y 2294-2	DELETED		
Y 2213	AUGUST MATTSON	240.00	
Y 2214	HERMAN MILES ZAHL	160.00	
Y 2294-3	DELETED		
Y 2216	EUGENE F. PARKER	120.00	
Y 2217	JOHN AUGUST PETERSON	160.00	
Y 2218	CLARA CARTER	1157.14	
Y 2219	DELETED		
Y2295	DELETED		
Y 2221	DELETED		
Y 2222	DELETED		
Y 2223	DELETED		
Y 2224	ELMER HENDRICKSON PARCEL 'A' 182.79 PARCEL 'B' 4.46	187.25	
Y 2226	DELETED		
Y 2227	ROSA KAMP	120.00	
Y 2228	ELLEN HARTSOCH	87.50	
Y 2228E	DELETED (NOW KNOWN AS Y2235)	—	
Y 2229	WALTER S. FERGUSON	240.00	
Y 2231	DELETED		
Y 2232	DELETED		
Y 2233	DELETED		
Y 2234	DELETED		
Y 2297	DELETED		
Y 2236	HAROLD S. NELSON PARCEL 'A' 80.00 'B' 40.00	120.00	
Y2298	DELETED		
Y 2238	B. P. MURPHY	100.00	
Y 2239	E. L. GUNDERSON	160.00	
Y 2299	ARVEY J. HARTSOCH, ET UX	6.82	
Y 2241	BRUNO H. WEYRAUCH, ET UX	1322.04	
Y 2242	DELETED		
Y 2243	MARGARET M. FLICK	80.00	
Y 2244	CLARA CARTER	40.00	
Y 2300	CRAIG A. HARTSOCH, ET UX	1.03	
Y 2246	DELETED		
Y 2247	G. E. PETTERS	40.00	
A	U.S.A. DEPT OF INTERIOR	see remarks	
Y 2249	WILLIAMS COUNTY, NORTH DAKOTA	.64	
Y 2301-1	WALTER C. KAMP, ET UX	1.40	
Y 2251	STATE OF N. DAK.	160.00	
Y 2252	EVA BROWNELL ESTATE	120.00	
Y 2253	LILLIAN E. HAGEN	40.00	
Y 2254	HAL S. DAVIES	72.52	
Y 2301-2	WALTER C. KAMP, ET UX	13.64	
Y 2256	MILDRED H. REED, ET AL	76.18	
Y 2257	DELETED		
Y 2258	WALTER C. KAMP	40.00	
Y 2259	A. R. HEALEY	39.88	
Y 2302	DELETED		
Y 2261	J. G. HOVE ET UX	630.00	
Y 2262	MRS. DOROTHY WHEELER	160.00	
Y 2263	J. C. BOLINGER, TRUSTEE	75.78	
Y 2264	ELLEN HARTSOCH	180.08	
Y 2303	DELETED		
Y 2266	VERNON KNOX	306.94	
Y 2267	MRS. WINIFRED I. WEISS	33.63	
Y 2304	ROGER BAKER, ET UX	0.72	
Y 2269	BRUNO H. WEYRAUCH, ET UX	127.99	
Y 2270	BRUNO H. WEYRAUCH, ET UX	64.00	
Y 2235 E	VIRGIL A. HARTSOCH, ET UX		10.82
Y 2303E	BEAVER CREEK FREE LUTHERAN CONGREGATION		6.43
Y 2250	STATE OF N. DAK.	188.66	
Y 2271	DELETED		
Y 2272	DELETED		
Y 2273	SHANNON WALTER, ET AL	208.54	
Y 2274	DELETED		
Y 2276	R. J. COUGHLIN	911.60	
Y 2277	DELETED		
Y 2278	DELETED		
Y 2279	JOSIE PETERSON COX, ET AL	160.00	
Y 2305	VIRGIL HARTSOCH, ET UX	0.46	
Y 2281	ELVA ANNA GABBERT, ET AL	79.99	
Y 2282	CARRIE MENDENHALL	1200.51	
Y 2283	DELETED		
Y 2284	CARRIE MENDENHALL	157.63	
Y 2302E	FRED FERGUSON		32.60
Y 2286	JULIA M. BJORKLUND	40.00	
Y 2287	DELETED		
Y 2288	ANNA THOMPSON MEHLUM	21.30	
Y 2289	STATE OF N. DAK.	855.44	
Y2290	ANNA THOMPSON MEHLUM	110.10	
Y2291	CARRIE MENDENHALL	76.47	
C	U.S.A. (DEP'T. OF AGR.)	see remarks	

1/ Entire 85.00 Acres Easement merged into fee. Tract Y-2235.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
6th. Ind. O.C.E. to M.R.D., dated 4 May 1950
Letter O.C.E. to Dept. of Justice, dated 22 Dec. 1955
10th Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

NOTE:
Oil and gas reserved in all fee tracts except Y 2251.

TRACT	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
C	Transferred 10 March 1954, Executive Order No. 10520, acreage included in tract register of Segment W
Y2228E	Perpet'l. Flowage Easm't. from 27 Feb. 1956. (Entire acreage merged into fee Tract Y-2235)
Y2291	Formerly part of Tract No. Y2290

DATE	BY	REVISIONS	APPROVED
5-25-52	H.A.Z.	Due to Final Audit	H.A.Z.
9-12-55	M.C.J.	Taking line change: Y 2209, 60.00 ac. to 40.00	R.P.
1-9-53	M.C.J.	Taking line change: Y 2264, 240.08 ac. to 180.08	D.E.

TRACT NO.	REMARKS
Y2235E	Permanent flowage Easement from 8-10-77
Y2302E	" " " " 12-12-78
Y2303E	" " " " 7-20-78
Y2294E-1	" " " " 12-20-80
Y2294E-2	" " " " "
Y2294E-3	" " " " "
H	Memo. of understanding dtd. 6-29-79. Entire acreage in Tract Register of Segment W. Segment Y contains Par. H-11, 16.53 Ac.; Par. H-12, 1.38 Ac., Par. H-13, 1.72 Ac., Par. H-14, 0.92 Ac., Par. H-15, 2.93 Ac.

MICROFILMED	DATE	BY	REVISIONS	APPROVED
	6-30-86	D.A.	Revised up to date	
	4-15-88	WKD	Audit Revisions	

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

DATE	BY	REVISIONS	APPROVED
7-3-69	M.P.	Name of Project: added transfer	
9-29-70	R.E.P.	Revised Project Name.	
12-9-77	P.L.P.	REVISED Y2303 TO EASEMENT	
1-26-78	P.L.P.	REVISED TRS. 2302, 2294-1, 2294-2, 2294-3 TO EASEMENT	
1-25-78	L.R.Y.	DELETED TRACT Y2302 AND ADDED TRACT Y2302E	
11-8-78	L.K.N.	Revised Acreage Trs. Y2294E-1, E-2, E-3	
3-9-79	R.C.I.	ADDED TRACT H	
7-2-79	T.E.E.	REVISED OWNER'S NAME FOR TRACTS H-11, 12, 13, 14, 15	

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY McKENZIE & WILLIAMS

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT I APRIL 1960

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT Y

LAND AREA

TOTAL ACRES IN SEGMENT 11,585.83 2/

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

2/ Total does not include 85.00 acres Easement merged into fee.

DISPOSALS

TOTAL ACRES DISPOSED OF

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

LEGEND

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

— SCALE — 2" = 1 MILE

5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT Y

RECOMMENDED: DATE: 14 Mar 1950

APPROVED: DATE: 20 March 1952
LT. COL., CORPS OF ENGINEERS

COMPILED: TRACED: CHECKED: W.L.

DATE	BY	REVISIONS	APPROVED
10-10-51	W.B.	Correct to date	
3-13-52	W.B.	Correct to date	
5-1-52	M.C.J.	Taking line change Y2201 (20.00 ac.) eliminated	
6-16-52	M.C.J.	Taking line change Y2202, 160.00 ac. to 60.00 ac.	
3-14-52	M.C.J.	Taking line change Y2261, 720.00 ac. to 630.00 ac.	
1-8-53	M.C.J.	Taking line change: Y2253B, Y2241B ELIMINATED Y2253 240.08 AC. TO 180.08 AC.	

SHEET: 26 OF 6 DRAWING NO. G-26-ND-C

U. S. BLUE CO., CHICAGO 75 3-20-47 FORM 177A

G-26-ND-C

CORPS OF ENGINEERS

U.S. ARMY

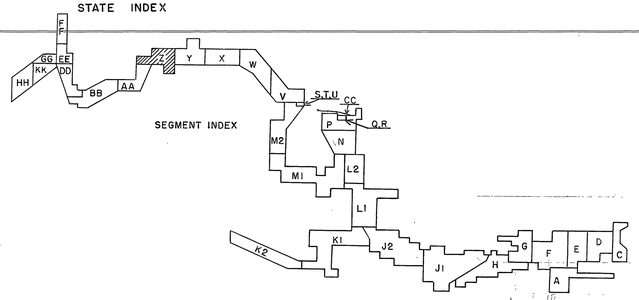
ACQUISITION TRACT REGISTER

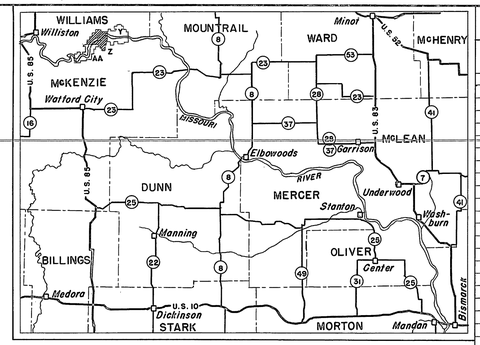
TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE EASEMENT
Z 2395	CECIL WILSON, ET AL	14.17	
Z 2395E-2	CECIL WILSON, ET AL		12.26
Z 2387	DELETED		
Z2401E	KERMIT J. TOEPKE, ET UX		0.03
Z2402E	GEORGE E. TANK, ET UX		0.12
Z2403E	MARTIN WAHUS, ET UX		0.24
Z2405E	GARY R. THORSON		0.13

TRACT	REMARKS
Z2387E	PERMANENT FLOWAGE EASEMENT FROM 3-10-80
Z2395E	" " " " " 9-22-78
Z2397E	" " " " " 7-11-78
Z2398E	" " " " " 4-28-78
Z2399E	" " " " " 2-5-79
Z2401E	" " " " " 10-19-78
Z2402E	" " " " " 11-6-78
Z2403E	" " " " " 10-3-78
Z2404E	" " " " " 10-16-78
Z2405E	" " " " " 10-2-78
Z2400E	" " " " " 3-25-80
Z2395E-2	" " " " " 12-29-80

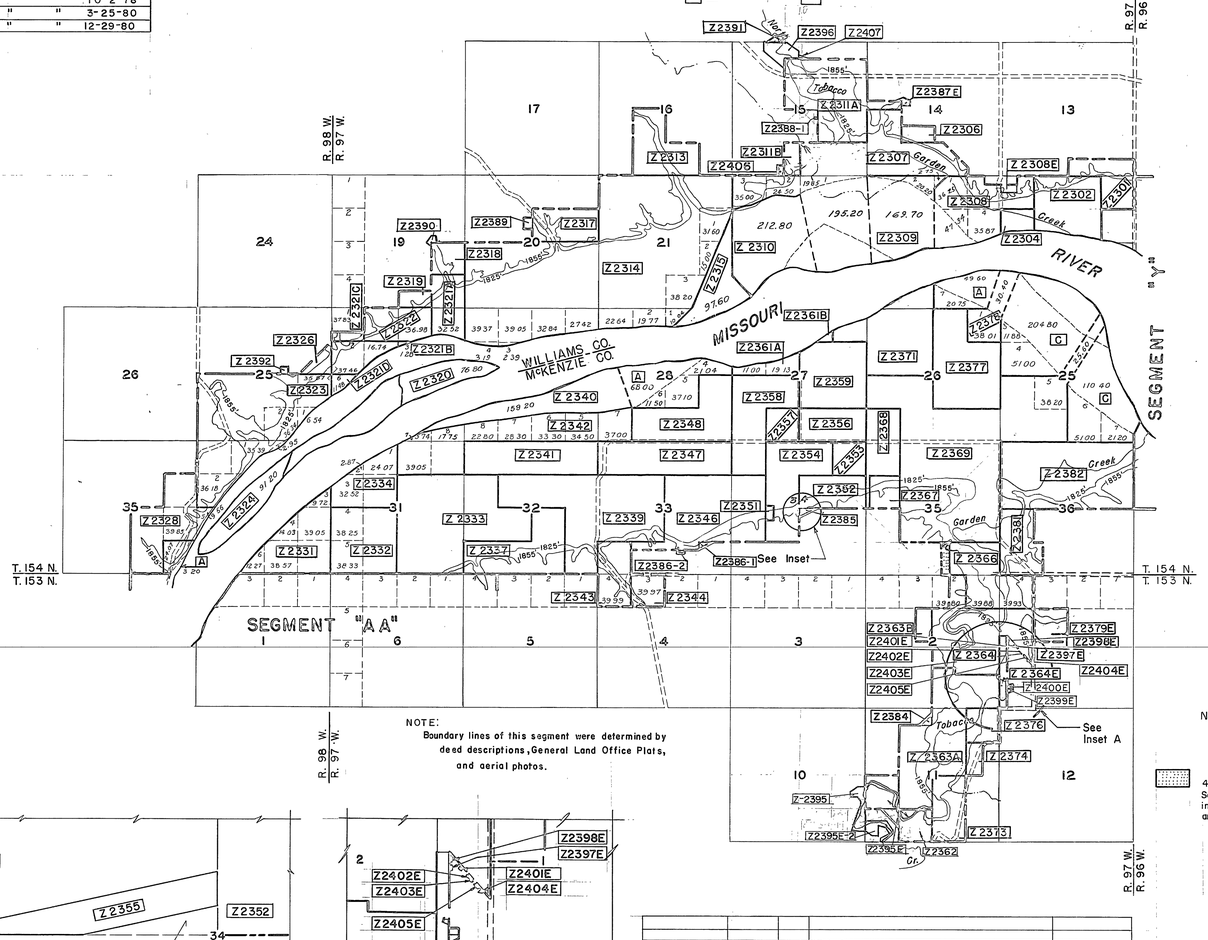


STATE INDEX





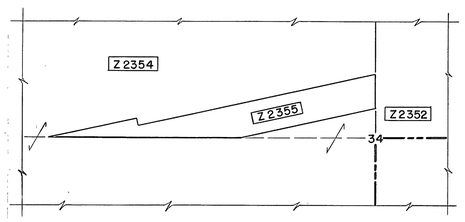
VICINITY MAP WITH SEGMENT INDEX



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

NOTE:
Oil and gas reserved in all fee tracts.

4.0 Acres, Fee, conveyed to Homer A. Sorenson, et ux by QCD dated 2 July 1981, in exchange for 3.13 acres, fee, Tr. Y2294-4 and 1.43 acres, fee, Tr. Z 2385.



INSET
SCALE 1" = 200'
200' 100' 0 200' 400'
SECTION 34, T.154N, R.97W.

INSET A
SCALE 1" = 1667'
200' 100' 0 200' 400'
SECTION 1, T. 153 N., R. 97 W.

MICROFILMED DATE	BY	REVISIONS	DATE	AUDIT APPROVED
11-21-88	D.A.	Audit Revisions		
6-30-86	D.A.	Revised up to date		
3-1-85	D.A.	Revised up to date		
10-18-79	W.L.M	Revised Tr. Z-2400 E		
10-5-79	F.A.L.	Deleted Tr. Z-2387		
8-2-79	P.L.P.	Revised tr. Z-2387 to Z-2387E		
11-17-78	F.A.L.	Added trs. Z2395, & Z2395E-2		
11-13-78	T.E.E.	Revised tr. Z2396, Added tr. Z2407		
9-26-78	F.A.L.	Revised tr. Z 2387E to Z2387		
5-2-78	F.A.L.	Deleted tr. Z 2388-2, Added tr. Z2406		
3-24-78	F.A.L.	Deleted tr Z2394E-1, Added trs Z2399E, Z2400E		
3-2-78	F.A.L.	Revised Owners Name.		
9-29-70	R.E.P.	Revised Project Name.		

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1995

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE EASEMENT
Z 2398E	RASMUS ROLFSON, ET UX	0.08	
Z 2388-2	DELETED		
Z 2301	DELBERT AMES ET AL	80.00	
Z 2302	GRACE M. VIALL	140.26	
Z 2303	DELETED		
Z 2304	WILLIAMS COUNTY, NORTH DAKOTA	26.30	
Z 2384	MARGARET S. WOLD	1.24	
Z 2306	GEORGE W. JUDD ET AL	20.00	
Z 2307	MILTON K. HIGGINS ET UX	503.30	
Z 2308	CHARLES E. WESTCOTT ET UX	164.46	
Z 2308E	CHARLES E. WESTCOTT ET UX		5.00
Z 2309	MILTON K. HIGGINS ET UX	192.65	
Z 2310	MILTON K. HIGGINS ET UX	212.80	
Z 2311	IDA BECK WILLIAMS ET AL		
	PARCEL 'A' 220.00 'B' 20.00	240.00	
Z 2312	DELETED		
Z 2313	STATE OF N. DAK.	120.00	
Z 2314	RUTH PARKER WOOD	1081.51	
Z 2315	RUTH PARKER WOOD	97.60	
Z 2316	DELETED		
Z 2385	HOMER A. SORENSON, ET UX	1.43	
Z 2317	LULA JANE KINAMON	80.00	
Z 2318	LULA KINAMON ET VIR	40.00	
Z 2319	HARLEM M. SAWYER ET UX	20.00	
Z 2320	STATE OF N. DAK.	76.80	
Z 2321	MRS. HILDA SAWYER		
	PARCEL 'A' 72.52 'B' 1.28 'C' 9.46 'D' 11.48	94.74	
Z 2322	J. H. BATTY	76.98	
Z 2323	ALBERT GAMACHE ET UX	447.47	
Z 2386-1	VERNON R. RENBARGER, ET UX	2.27	
Z 2324	STATE OF N. DAK.	91.20	
Z 2586-2	VERNON R. RENBARGER, ET UX	0.75	
Z 2326	OTTO GLOMSTAD	20.00	
Z 2327	DELETED		
Z 2328	RUTH C. JACOBSON	169.41	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
Z 2387 E	DANIEL R. DELANEY, ET UX		1.30
Z 2388-1	J. A. ROSS, ET AL	0.27	
Z 2399E	FRANCIS W. KRUEGER, ET UX		0.06
Z2400E	N. DAVID SANDFORD, ET UX		0.09
Z 2331	STATE OF N. DAK.	153.64	
Z 2332	INGRID HELLIE	156.58	
Z 2333	NORA AGNES HAYES ET AL	360.00	
Z 2334	BERTHA RYAN ET AL	99.46	
Z 2406	CARL R LARSON, ET AL	1.14	
Z 2336	DELETED		
Z 2337	JOSEPH NICHOLAS STEPHENS ET AL	160.00	
Z 2338	DELETED		
Z 2339	RUTH IVERSON	360.00	
Z 2340	JOHN W. LANDERS ET UX	159.20	
Z 2341	STEPHEN L. KULCZYK	160.00	
Z 2342	JOHN W. LANDERS ET UX	258.44	
Z 2343	NORA B. STRINMOEN	79.99	
Z 2344	THOR OLSON	39.97	
Z 2396	JAMES G. KEY,	18.75	
Z 2346	OLIVER JACOBSON	260.00	
Z 2347	NORMAN WOLD	160.00	
Z 2348	JAMES W. RENBARGER ET AL	160.00	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
Z 2389	ANNA KINAMON, ESTATE	2.50	
Z 2351	GUY R. RENBARGER ET UX	2.81	
Z 2352	CANNA H. STEELMAN	80.00	
Z 2353	ETHEL RENBARGER CAPPS	40.00	
Z 2354	JAMES W. RENBARGER ET AL	155.59	
Z 2355	NORTHERN PACIFIC RAILWAY COMPANY	1.60	
Z 2356	JOHN F. STEELMAN	80.00	
Z 2357	PEARL GEERTS	40.00	
Z 2358	ETHEL RENBARGER CAPPS	160.00	
Z 2359	KERMIT SANNES ET AL	156.00	
Z 2390	JOSIE SAWYER, ET AL	1.73	
Z 2361	O. F. WARREN ET AL PARCEL 'A' 30.13 'B' 3.26	33.39	
Z 2404E	DELORES THORSON		0.04
Z 2362E	CECIL WILSON ET UX		80.00
Z 2363	EDGAR IVERSON		
	PARCEL 'A' 265.00 'B' 20.00	285.00	
Z 2364	GUY R. RENBARGER ET UX	223.65	
Z 2364E	GUY R. RENBARGER ET UX		21.25
Z 2366	KERMIT SANNES	149.81	
Z 2367	JAMES W. RENBARGER ET UX	36.00	
Z 2368	JAMES W. RENBARGER ET UX	84.00	
Z 2369	ROBERT C. SANNES	743.80	
Z 2391	MAUDE E. LUND, ET AL	2.28	
Z 2371	CANNA H. STEELMAN	207.52	
Z 2392	RUTH WOOD	0.92	
Z 2394E-1	DELETED & Z2394E-2		
Z 2373	HOWARD H. BONNER	80.00	
Z 2374	GEORGE S. NATWICK	20.00	
Z 2407	CARL R LARSON, ET AL	028	
Z 2376	STATE OF N.DAK. AND/OR INGE SANFORD	40.00	
Z 2377	JAMES W. RENBARGER ET UX	200.00	
Z 2378	GUY R. RENBARGER ET UX	68.41	
Z 2379E	CECIL WILSON ET UX		40.00
Z 2395E	CECIL WILSON, ET UX		4.85
Z 2381	GEORGE E. TOLLEFSON, JR.	90.00	
Z 2382	STATE OF N. DAK.	320.00	
Z 2383	DELETED		
Z 2397 E	JOHN STEINBEISSER, ET UX		0.04
C	U.S.A. (DEP'T. OF AGR.)	see remarks	

TRACT	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
C	Transferred 10 March 1954, Executive Order No. 10520, acreage included in tract register of Segment W.
Z 2308 E	Perpet'l flowage easm't from 7-12-55.
Z 2362 E	Perpet'l flowage easm't from 9-23-53.
Z 2364 E	Perpet'l flowage easm't from 11-23-55.
Z 2379 E	Perpet'l flowage easm't from 9-23-53.
Z 2310	Formerly part of Tract No. Z 2315

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 4 May 1951
2nd. Ind. O.C.E. to M.R.D., dated 8 April 1952
2nd. Ind. O.C.E to M.R.D., dated 25 Feb. 1955
10th. Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

DATE	BY	REVISIONS	APPROVED
7-3-69	M.W.P.	Name of Project: added transfer	
3-15-63	H.A.Z.	Due to Final Audit	
12-1-55	M.C.J.	Taking line change Z 2364, 294.90 ac. to 244.90 ac.	

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY WILLIAMS & McKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT 1 APRIL 1960

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT Z
LAND AREA

TOTAL ACRES IN SEGMENT 10,093.56

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

DISPOSALS

TOTAL ACRES DISPOSED OF 4.00

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

LEGEND

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

SCALE
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT Z

RECOMMENDED: DATE: 20 Mar 1952

APPROVED: DATE: 20 Mar 1952
LT. COL., CORPS OF ENGINEERS

COMPILED: 3/31/83 TRACED: M.C.J. CHECKED: V.E.

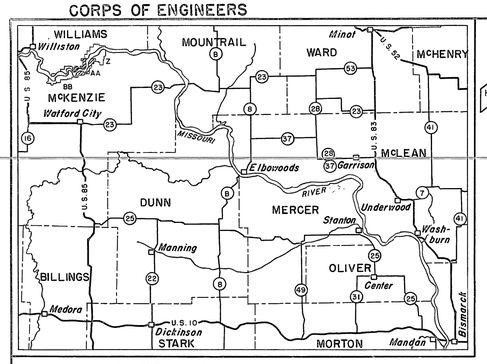
DATE	BY	REVISIONS	APPROVED
10-10-51	W.B.	Correct to date	
3-13-52	W.B.	Correct to date	
5-1-52	M.C.J.	Taking line change Z 2311, 250.00 ac. to 240.00 ac.	
5-16-52	M.C.J.	Taking line change Z 2321C, 18.92 ac. to 9.46 ac.	
7-19-54	M.C.J.	Taking line change Z 2308, 207.11 ac to 197.11 ac.	
11-4-54	M.C.J.	Taking line change Z 2366, 199.81 ac. to 149.81 ac.	

SHEET: 27 OF 6 DRAWING NO.

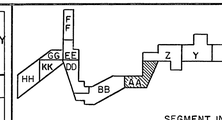
U. S. Blue Co., Chicago 78 3-28-67
Form 177A

CORPS OF ENGINEERS

U.S. ARMY

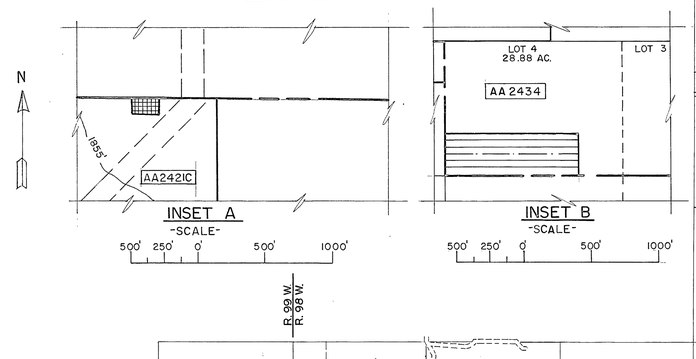


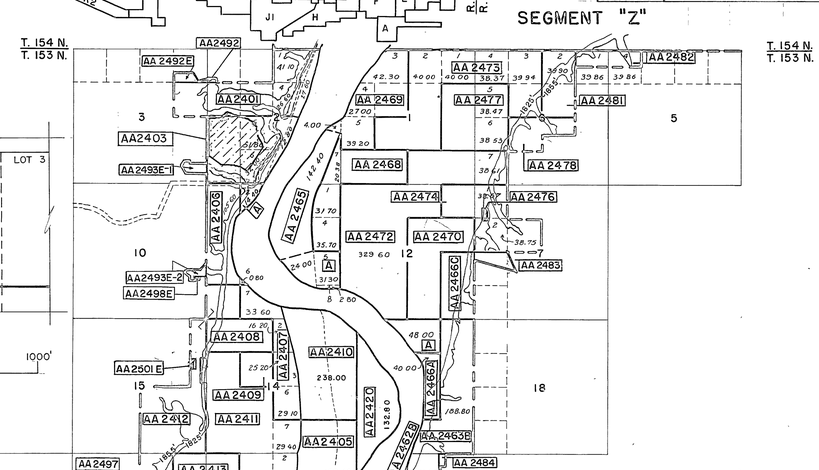
VICINITY MAP WITH SEGMENT INDEX





TRACT NO.	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
AA2460A	12 July 1956, combined to include tract formerly known as AA2430B.
AA2450	Formerly part of tract No. AA2455
AA2455	Includes parts of tracts formerly known as AA2414B & AA2456
AA2475	Formerly part of tract No. AA2455 & of tract formerly known as AA2414B
~~AA2405~~	~~Formerly part of tract No. AA2410 & of former tract No. AA2467B~~
AA2410	Includes part of former tract No. AA2467B
AA2420	Part of former tract No. AA2467B
AA2501E	Perm road ease reserved over 0.53 of an acre portion of fee disposal of Tract AA-2412, 7 Jun 79
AA2492E	Perpet'l flowage Easement from 6-26-78
AA2493E-1	" " " " 7-17-78
AA2493E-2	" " " " 7-17-78
AA2498E	" " " " 8-23-78





NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

NOTE:
Oil and Gas reserved in all tracts

APPROX. TRUE NORTH

ACQUISITION AUTHORIZATION

① Public Law No. 534, 22 Dec 1944
② 2nd Ind. O.C.E. to M.R.D., dated 4 May 1951
③ 10TH Ind OCE to MRD dated 4 Nov 1971
④ Quitclaim Deed dated 7 Jun 1979

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE EASEMENT
	WILLIAMS CO.		
AA 2401	CHARLES E. FRENCH ET AL	205.30	
AA 2402	DELETED		
AA 2403	CLINTON FRENCH ET UX	176.60	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
AA 2405	ELSIE D. BJELLA	160.40	
AA 2406	GEORGE HERBERGER	108.40	
AA 2407	LAURA M. KING	104.10	
AA 2408	GEORGE E. BINGEMAN	80.00	
AA 2409	ELLA RYAN	40.00	
AA 2410	LAURA M. KING	238.00	
AA 2411	ELSIE D. BJELLA	338.65	
AA 2412	JOSEPH F. O'NEILL ET UX	302.40	
AA 2413	GEORGE E. FRENCH	99.20	
AA 2483	HENRY WOLD, ET AL	16.29	
AA 2415	DELETED		
AA 2416	DELETED		
AA 2417	E. C. LUNDSTROM ET AL	160.00	
AA 2418	ASA R. BABCOCK	200.00	
AA 2419	DELETED		
AA 2420	GINA KNUTSON ET AL	132.80	
AA 2421	FRANK R. BABCOCK ET UX PARCEL 'A' 40.00 'B' 40.00 'C' 80.00	160.00	
AA 2422	ROY A. WISEMAN	22.40	
AA 2423	JOSEPH M. DONAHUE PARCEL 'A' 757.65 'B' 125.50 'D' 160.00 'F' 20.00	1,063.15	
AA 2424	BOY SCOUTS OF AMERICA PARCEL 'B' 40.00	40.00	
AA 2425	JAMES SLEMIN	137.12	
AA 2426	GEORGE BINGEMAN ET UX	10.00	
AA 2427	INGAR BRAATEN	458.03	
AA 2428	DELETED		
AA 2429	HELMER BRAATEN	60.33	
AA 2484	JEROME D. GARMANN, ET UX	2.43	
AA 2500	GEORGE STONER, ET AL	0.17	
AA 2431	DELETED		
AA 2485	THORAL C. SAX, ET AL	5.05	
AA 2486	JEAN M. GUNDERSON WADE ROBB, ET AL	3.21	
AA 2487	SYDNEY O. MASTON, ET UX	1.24	
AA 2488-1	GARROLL JOHNSTON, ET UX	1.19	
AA 2489	**DELETED**		
AA2493-1	DELETED		
AA2493-2	DELETED		
AA 2432	JOSEPH VAN DYKE ET UX	60.40	
AA 2433	DELETED		
AA 2434	DOLLY COYNE ET AL	293.82	
AA 2490	**DELETED**		
AA 2436	JOSEPH VAN DYKE ET UX	166.25	
AA 2437	JOSEPH VAN DYKE ET UX	40.00	
AA 2438	MRS. MARIE MASTON	50.00	
AA 2439	CHRISTIAN T. MEGRUND	105.60	
AA 2491	BEN JOHNSTON, ET UX	18.01	
AA 2492	CHARLES E. FRENCH	0.92	
A	U.S.A. DEPT OF INTERIOR	see remarks	
AA2493E-1	JAY V. THOMAS, ET UX		6.14
AA 2442	THOMAS W. LEACH ET AL	12.00	
AA2493E-2	JAY V. THOMAS, ET UX		3.76
AA 2443	MONROE KRONICK	160.00	
AA 2444	NORA JOHNSTON	158.59	
AA2494-1	GEORGE BINGEMAN, ET UX	0.63	
AA2494-2	GEORGE BINGEMAN, ET UX	0.52	
AA 2447	HERBERT MASTON	1.41	
AA 2448	SYLVIA GUNDERSON	160.00	
AA 2449	WALLACE BOND PARCEL 'A' 136.80 'B' 157.25	294.05	
AA 2450	WALLACE BOND	20.86	
AA 2451	ESTATE OF HJALMER NELSON	57.70	
AA 2452	SYLVIA GUNDERSON ET AL	158.30	
AA 2453	JAY JUDKINS	40.00	
AA 2454	ARLETON C. SAX A 56.90 B 154.50	211.40	
AA 2455	ARLETON C. SAX	460.20	
AA2488-2	CARROLL JOHNSTON, ET UX	0.17	
AA 2457	DELETED		
AA 2458	DELETED		
AA 2459	WALLACE BOND	161.00	
AA 2460	JOSEPH VAN DYKE ET UX A 261.80 B 33.80	295.40	
AA 2461	STATE OF NORTH DAKOTA	80.00	
AA 2462	ESTATE OF CARL M. ENGEMOEN PARCEL 'A' 16.80 'B' 2.40	19.20	
AA 2463	HENRY A. GARMANN PARCEL 'A' 76.80 'B' 227.20	304.00	
AA 2495	NORTHERN LIGHTS COUNCIL OF BOY SCOUTS OF AMERICA, INC.	19.48	
AA 2465	HENRY T. HAGEN	142.40	
AA 2466	GINA KNUTSON ET AL PARCEL 'A' 40.00 'C' 80.00	120.00	
AA 2497	Patrick P. O'NEILL, ET AL	0.86	
AA 2488-3	CARROLL JOHNSTON, ET UX	0.93	
AA 2468	HENRY T. HAGEN	167.78	
AA 2469	NORA AGNES HAYES ET AL	152.50	
AA 2470	ESTATE OF CARL M. ENGEMOEN	160.00	
AA 2471	DELETED		
AA 2472	ALBERT W. TILL	448.21	
AA 2473	STATE OF NORTH DAKOTA	318.31	
AA 2474	MRS. AGNES FRENCH	155.42	
AA2475	WALLACE BOND	66.52	
AA2476	TWIN VALLEY SCH. DIST. NO. 5	2.00	
AA 2477	JOHN W. LANDERS ET UX	157.00	
AA 2478	HENRY WOLD ET AL	60.00	
AA 2479	DELETED		
AA 2492E	CHARLES E. FRENCH		6.63
AA 2481	ALBERT W. TILL	79.90	
AA 2482	INGRID HELLIE	39.86	
AA2498E	ARLEY CHRISTOPHERSON, ET UX		0.07
AA2485-2	ALICE SAX, ET AL	1.26	
AA2485-3	ALICE SAX, ET AL	0.60	
AA 2499	CARROLL JOHNSTON, ET UX	2.84	
④ AA2501E	Patrick P. O'Neill, et al		0.53

1.21 Acres, Fee conveyed to Patrick P. O'Neill, et al by QCD dated 6-7-79, reserving 0.53 of an acre road easement to the United States.

62.76 Acres, fee, Long Creek Cottage Site Area, conveyed as individual Lots. For details, see Long Creek Cottage Site Area.

0.57 of an acre, fee, conveyed to George Stoner, et al by QCD dated 23 Feb. 81, in exchange for 0.17 of an acre, fee, TR. AA-2500.

7.12 Acres, fee, conveyed to Carroll Johnston, et ux by QCD dated 19 Feb. 81, in exchange for 5.13 Acres, fee, in Trs. AA-2488-1, AA-2488-2, AA-2488-3 and AA-2499.

MICROFILMED	DATE AUDIT APPROVED	DATE	REVISIONS	BY
		4-13-88	AUDIT REVISIONS	D.A.
		9-4-86	ADDED DISPOSAL ON TR. AA2434	D.A.
		12-10-85	ADDED DISPOSAL ON TR. AA2421C	D.A.
		3-14-85	REVISED TR. AA2487	D.A.
		3-5-80	REVISED OWNERS NAME FOR TRS. AA-2488-1, -2 & -3	PLP
		8-15-79	ADDED TR. AA2500	T.E.E.
		7-25-79	ADDED TR. AA2499	T.E.E.
		12-13-78	ADDED TRS. AA2485-2, AA2485-3.	F.A.L.

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.

AUDITED

INSTALLATION OR PROJECT NO. C2-1895

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY WILLIAMS & McKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT 1 APRIL 1960

LOCATION OF DAM SEC. 5 T. 146N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT AA
— LAND AREA —

TOTAL ACRES IN SEGMENT 9,767.89

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

* Total includes 0.53 of an acre reserved in fee Disposal.

— DISPOSALS —

TOTAL ACRES DISPOSED OF 71.66

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

— LEGEND —

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

— SCALE —

5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM-LAKE SAKAKAWEA, NO. DAK.

SEGMENT AA

RECOMMENDED: DATE: 3 Aug. 1953

APPROVED: DATE: 6 Aug. 1953
for CORPS OF ENGINEERS

COMPILED: TRACED: CHECKED:

DATE	BY	REVISIONS	APPROVED
5-28-69	M.W.P.	Name of Project' added transfer	
9-29-70	R.E.P.	Revised Project Name	
7-2-76	R.E.P.	Added Trs. AA 2483 thru AA 2497.	
1-6-78	P.L.P.	REVISED TR; AA2492 ADDED TR. AA2492E.	
2-23-78	R.C.I.	REVISED OWNERS NAME FOR TR. AA2498	
4-12-78	R.C.I.	Deleted Trs. AA2493-1&2, Added Trs. AA2493E-1&2	
2-27-78	M.C.D.	Deleted Trs AA2498 Added Trs AA2498E	
11-8-78	L.K.N.	Revised Acreage Tract AA2484	

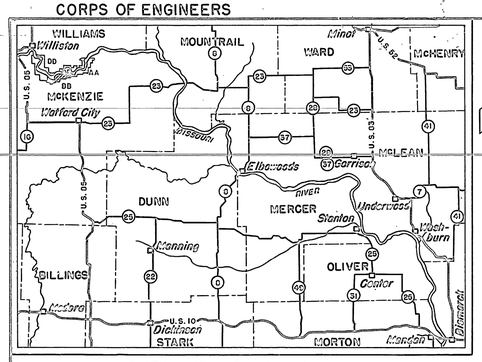
DATE	BY	REVISIONS	APPROVED
7-2-52	M.C.J.	Taking line change, AA 2424-78.97 ac. to 117.94 ac.	
2-6-53	M.C.J.	Taking line change, AA 2426-40.00 ac. to 10.00 ac.	
5-6-53	M.C.J.	Taking line change, AA 2454-371.40 ac. to 211.40 ac.	
7-19-54	M.C.J.	Taking line changes, AA 2424A (77.94 ac.) eliminated; AA 2423-1298.15 ac. to 1,063.15 ac.	
3-15-63	H.A.Z.	Due to Final Audit	

SHEET: 28 OF 36 DRAWING NO.

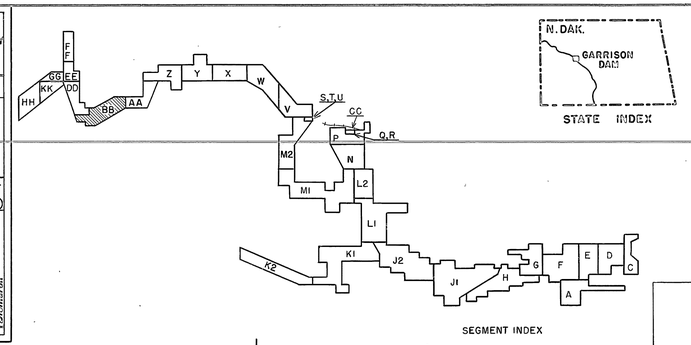
J. S. BLUE CO., CHICAGO 75 3-20-47
FORM 177A

CORPS OF ENGINEERS

U.S. ARMY



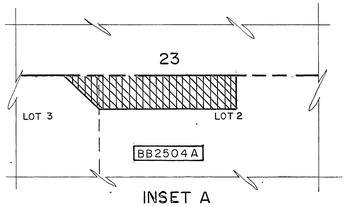
VICINITY MAP WITH SEGMENT INDEX



SEGMENT INDEX

STATE INDEX

TRACT NO.	REMARKS
A	Transferred 25 Feb. 1955, Public Land Order No. 1078, acreage included in tract register of segment A.
BB 2520D	Includes part of former Tract No. BB 2515
BB 2525 E	Perpet'l flowage easm't from 3-7-1953.
BB 2545	Formerly known as Tract No. BB 2550, parcel 'A'
BB 2550	Formerly known as Tract No. BB 2550, parcel 'B'
BB 2562	Formerly known as Tract No. BB 2562D, parcel 'A'
BB 2563	Part of former Tract No BB 2520, parcel 'B'
BB 2560	Part of former Tract No. BB 2515
BB 2561	Part of former Tract No. BB 2515
BB 2580	DELETED
BB 2565E-1	Perpet'l flowage easm't from 7-29-68.
BB 2565E-2	" " " " 7-29-68.
BB 2567E	" " " " 7-21-78.
BB 2576E	" " " " 3-4-80.
BB 2580E	" " " " 3-30-79
BB 2566 E	" " " " 12-14-84



INSET A

SCALE 1" = 200'

200' 100' 0 200' 400'

1.06 Acres, fee, conveyed to Charles Wegley, et ux by QCD dated 16 March 1983 in exchange for 1.20 acres, fee, in Tract BB-2581.

NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

NOTE:
OIL AND GAS RESERVED IN ALL FEE TRACTS.

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE SIMPLE	ACREAGE EASEMENT
BB 2576-1	LOUIS KJORSTAD, ET AL	3.66	
BB 2501	LEE M. GRUBB	41.97	
BB 2502A	R.E. DELANEY ET AL.	432.60	
BB 2503	O.M. JENSON	154.24	
BB 2504	ARTHUR MORTENSON		
	PARCEL 'A' 64.60 'B' 195.60	260.20	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
BB 2506	THOMAS STANGELAND ET AL		
	PARCEL 'A' 45.10 'B' 15.60	60.70	
E3 2507	STATE OF NORTH DAKOTA	273.10	
BB 2508	DELETED		
BB 2509	HENRY MELVIN FARRELL	243.90	
BB 2510	R. E. DELANEY ET AL	321.00	
BB 2511	ALF P. ABRAMSON, ET AL	68.70	
BB 2512	ALF P. ABRAMSON		
	PARCEL 'A' 257.40 'B' 22.40	279.80	
BB 2513	SEYMOUR FOSTER ET UX	640.00	
BB 2514	GEORGE P. COX, JR.	120.00	
BB 2515	DELETED		
BB 2516	RAGNAR ABRAMSON a.k.a JOHN R ABRAMSON		
	PARCEL 'A' 80.00 'B' 21.60	101.60	
BB 2517	OSCAR BLEKEN	40.00	
BB 2518	VERNA BLEKEN	67.60	
BB 2519	RUDOLPH HEJOM	146.90	
BB 2520	R.E. DELANEY PARCEL 'C' 89.60, 'B' 454.52	544.12	
BB 2566	EVELYN S. JERMIASON	1.38	
BB 2522	EDWARD W. JACKSON	222.30	
BB 2523	MARGARET NUTTER ET VIR	79.75	
BB 2524	LOUIS KJORSTAD ET AL		
	PARCEL 'A' 48.00 'B' 117.83	165.85	
BB 2525E	MARGARET NUTTER ET VIR		20.00
BB 2526	LOUIS KJORSTAD, ET AL	153.44	
BB 2560	ALF P. ABRAMSON ET AL	44.50	
BB 2561	ALF P. ABRAMSON	67.70	
BB 2562	JOHN KJORSTAD, JR. ET AL	60.80	
BB 2563	JOHN KJORSTAD, JR. ET AL	11.60	
BB 2564	CHARLES WEGLEY, ET UX	3.30	
BB 2569E	DELETED		
BB 2566-2	DELETED		
BB 2528	DELETED		
BB 2529	ANDERS MADSON ET UX		
	PARCEL 'A' 2,762.15 'B' 160.00	2,922.15	
BB 2531	GILBERT F. LINDVIG	85.40	
BB 2532	DELETED		
BB 2533	ESTATE OF GUSTAF S EIELSON	227.20	
BB 2534	DELETED		
BB 2535	STATE OF NORTH DAKOTA	271.60	
BB 2536	STATE OF NORTH DAKOTA	640.00	
A	U.S.A. DEP'T OF INTERIOR	see remarks	
BB 2567E	LETTIE UHLMAN KELLOGG		1.92
BB 2538	FRANCES WALLENFELT	160.00	
BB 2539	IVAR DROVDAL ET AL	160.00	
BB 2540	DELETED		
BB 2541	DELETED		
BB 2542	HOWARD GORDON SHELLEY	262.70	
BB 2543	GEORGE MOSBY ET UX	142.50	
BB 2544	HUGH A PATTERSON	157.60	
BB 2545	HOWARD GORDON SHELLEY	171.20	
BB 2546	LETTIE UHLMAN KELLOGG	2,132.43	
BB 2547	EUGENE B UHLMAN	40.00	
BB 2548	DELETED		
BB 2549	JOHN BURR	639.36	
BB 2550	ALMA O'GRADY	200.00	
BB 2551	ALMA O'GRADY	269.31	
BB 2565E-1	LETTIE UHLMAN KELLOGG		0.20
BB 2565E-2	LETTIE UHLMAN KELLOGG		3.75
BB 2553	DELETED		
BB 2567-1	LETTIE UHLMAN KELLOGG	1.89	
BB 2554	JOSEPH VAN DYKE, ET UX	103.41	
BB 2567-2	LETTIE UHLMAN KELLOGG	0.45	
BB 2502B	R E DELANEY ET AL	46.20	
BB 2567-3	LETTIE UHLMAN KELLOGG	1.29	
BB 2568	OREN J. FORTHUN, ET AL	2.30	
BB 2569	NEIL C. HYDE, ESTATE	16.64	
BB 2570	JOHN W. LINDVIG, ET UX	7.50	
BB 2571-1	CHARLES WEGLEY, ET UX	1.63	
BB 2571-2	CHARLES WEGLEY, ET UX	0.34	
BB 2571-3	DELETED		
BB 2573-1	STATE OF NORTH DAKOTA	2.50	
BB 2573-2	STATE OF NORTH DAKOTA	15.34	
BB 2574	DELETED		
BB 2575	SELMER KJORSTAD, ET UX	7.58	
BB 2576E	LOUIS KJORSTAD, ET AL		0.26
BB 2580E	OREN J. FORTHUN, ET AL		11.19
BB 2577	DARYLE HOLTE, ET AL	0.09	
BB 2578	THOMAS A. MARTIN, ET AL	0.83	
BB 2579	CHARLES WEGLEY, ET UX	0.70	
BB 2566 E	EVELYN S. JERMIASON		0.65
BB 2581	CHARLES WEGLEY, ET UX	1.20	

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 6 May 1951
2nd. Ind. O.C.E. to M.R.D., dated 2 Sept. 1952
1st Ind. MRD to Om. Dist. dtd. 2 Aug. 1967
10th Ind. O.C.E. to M.R.D. dtd. 4 Nov. 1971

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE EASEMENT	REMARKS
BB 2526E	LOUIS KJORSTAD, ET AL		21.82	Perpet'l flowage easm't from 7-25-55. 0.06 of an acre merged into fee Tract BB 2576-2
BB 2576-2	LOUIS KJORSTAD, ET AL	0.06		Entire acreage merged from Tract BB 2526E.

10-19-88	D.A.	Revised Trs. BB 2526E & BB 2576-2	
10-14-81	P.L.P.	Deleted Tr. BB-2580, Added Tr BB 2581	
5-20-80	F.A.L.	Deleted Tr. BB 2566-2, Added Tr. BB 2566E	
12-27-78	P.L.P.	Revised Tract 2569E to 2569	
7-13-78	K.R.Y.	ADDED TRACTS BB 2576-1 & BB 2576-2	
1-31-78	P.L.P.	Revised Tract 2569 TO 2569E	
7-9-76	R.E.P.	Added Tracts BB 2566 thru BB 2576.	
9-29-70	R.E.P.	Revised Project Name.	
3-10-69	M.W.P.	NAME OF THE PROJECT: added transfer	
1-20-69	M.J.D.	Revised Tract BB-2564	
2-13-68	M.R.M.	Added Tracts 2565E1 E E 2	
9-14-67	M.R.M.	Added Tract 2564	
2-8-65	H.A.Z.	Revised Final Audit	75
3-15-63	H.A.Z.	Due to Final Audit	
7-28-55	M.C.J.	Tabine line change, BB 2551-329.3 ac. to 269.3 ac.	
7-20-54	M.C.J.	Tabine line change, BB 2554-213.4 ac. to 103.4 ac.	
DATE	BY	REVISIONS	DATE APPROVED

MICROFILMED

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.

AUDITED

INSTALLATION OR PROJECT NO. 22-2-1895

TENTATIVE FINAL

PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY WILLIAMS & MCKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT 1 APRIL 1960

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT BB — LAND AREA

TOTAL ACRES IN SEGMENT 13,457.08

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

DISPOSALS

TOTAL ACRES DISPOSED OF 1.06

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

LEGEND

BOUNDARY MARKER (BRASS CAP)

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

SCALE

5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT BB

RECOMMENDED: DATE: 3 Aug. 1982

APPROVED: COL. CORPS OF ENGINEERS DATE: 6 Aug. 1982

COMPILED: MRB TRACED: MAJ. CHECKED: WK.

DATE	BY	REVISIONS	APPROVED
6-11-52	M.C.J.	Tabine line change, BB 2501 - 44.10 ac. to 41.97 ac.	
6-6-52	M.C.J.	Tabine line change, BB 2523 - 159.10 ac. to 99.75 ac.	
1-26-55	M.C.J.	Tabine line change, BB 2551 - 398.31 ac. to 329.31 ac.	
2-2-53	M.C.J.	Tabine line change, BB 2552 - 303.03 ac. to 180.32 ac.	
7-20-54	M.C.J.	Tabine line changes, BB 2503 - 140.70 ac. to 60.70 ac.	

SHEET: 29 OF 36 DRAWING NO. G-29-ND-C

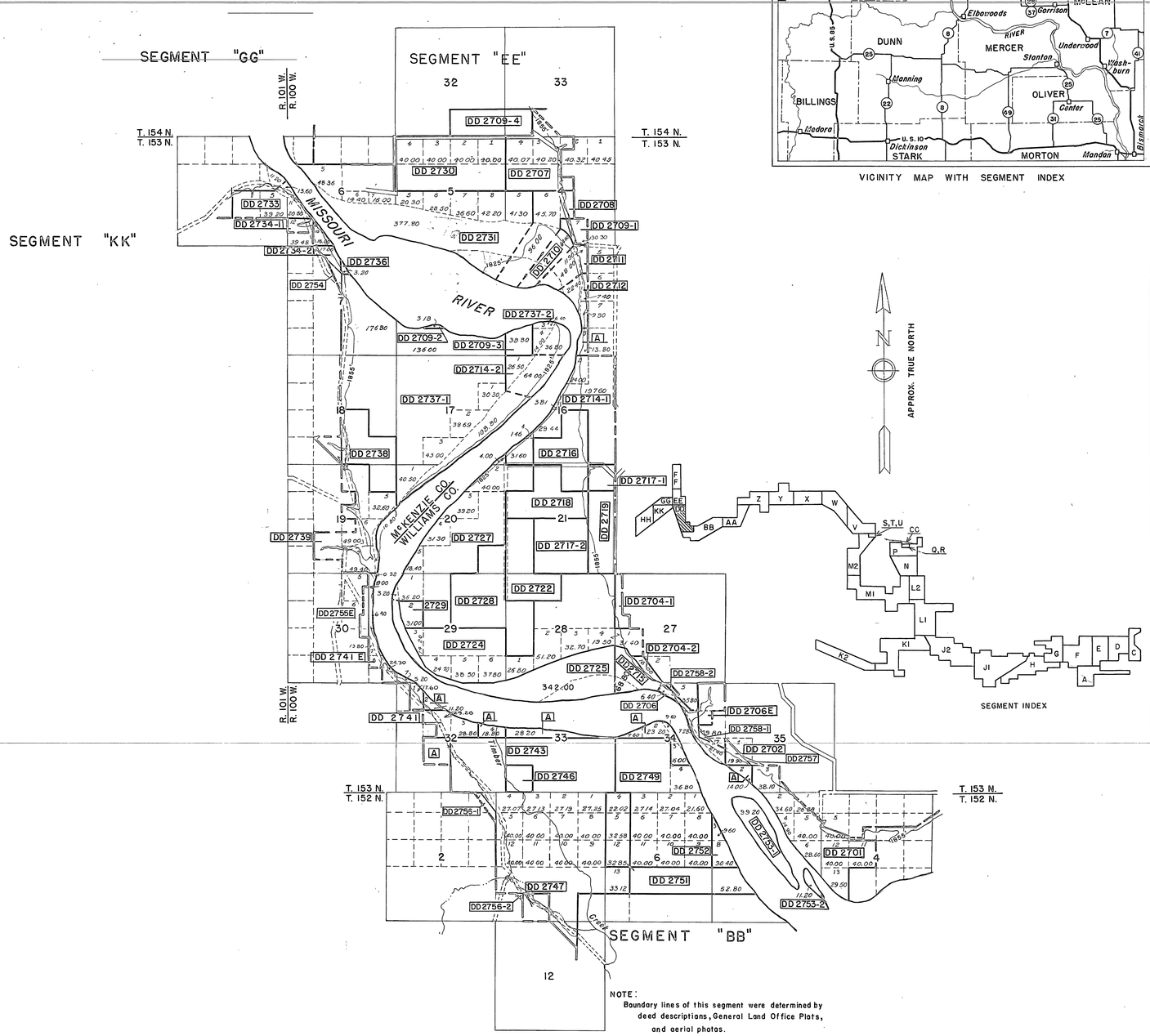
U. S. Bur. Of Reclamation, Chicago 75 3-26-47
Form 177A

CORPS OF ENGINEERS

U.S. ARMY



STATE INDEX



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

VICINITY MAP WITH SEGMENT INDEX

APPROX. TRUE NORTH

SEGMENT INDEX

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE TRANS.	ACREAGE EASM'T.	REMARKS
	WILLIAMS CO.				
DD 2701	HARALD KJORSTAD	288.68			
DD 2702	MAY LEWIS HOWE	19.90			
DD 2704-1	WILLIAM PENMAN, JR.	25.00			
DD 2704-2	WILLIAM PENMAN, JR.	16.00			
DD 2706	SELMER KJORSTAD ET AL	45.68			
DD 2706E	SELMER KJORSTAD ET AL			50.00	Perpet'l flowage easm't from 2-29-56.
DD 2707	McKINLEY A. NELSON	200.35			
DD 2708	HENRY THOMPSON ET AL	161.70			
DD 2709-1	CHARLES H. VIZINA	30.30			
DD 2709-4	CHARLES H. VIZINA	120.00			
DD 2710	CHARLES H. VIZINA ET UX	64.00			
DD 2711	HARRIET ELIZABETH HOLLAND ET VIR	59.90			
DD 2712	JOSEPH W. JACKSON	39.60			
DD 2714-1	STATE OF NORTH DAKOTA	287.91			
DD 2715	WILLIAM J. PENMAN, JR.	68.80			Formerly part of Tract No. DD2725.
DD 2716	JOHN FLATH	160.00			
DD 2717-1	JOHN S. STOKKE	40.00			
DD 2717-2	JOHN S. STOKKE	160.00			
DD 2718	JOHN SOLEM	160.00			
DD 2719	ANNA STOKKE ET AL	120.00			
DD 2721	DELETED				
DD 2722	MILDRED N. AYLSWORTH	160.00			
DD 2723	DELETED				
DD 2724	WILLARD A. WRIGHT	668.80			
DD 2725	WILLARD A. WRIGHT	342.00			
DD 2726	DELETED				
DD 2727	HENRY BOE ET UX	491.30			
DD 2728	PHILLIP BUSCH ET UX	280.00			
DD 2729	WILLARD A. WRIGHT	31.00			
DD 2730	USHER L. BURDICK	320.00			Formerly part of Tract No. DD2731
DD 2731	NORMAN W. TODD	705.46			
DD 2732	DELETED				
A	U.S.A. DEP'T OF INTERIOR		see remarks		Transferred 25 Feb. 1955, Public
DD 2757	JOSEPH WARNER HOWE, ET AL.	2.32			Land Order No. 1078, acreage in-
DD 2758-1	SELMER KJORSTAD, ET AL	2.24			cluded in tract register of segment A.
DD 2758-2	SELMER KJORSTAD, ET AL	1.84			
	McKENZIE CO.				
DD 2733	HENRY T. BACON ET AL	129.60			
DD 2734-1	MYRTLE M. FERRELL	19.74			
DD 2734-2	MYRTLE M. FERRELL	17.00			
DD 2736	HENRY T. BACON ET AL	3.20			
DD 2737-1	D. W. VADER ET UX	1,174.09			
DD 2737-2	D. W. VADER ET UX	57.20			
DD 2738	MYRTLE McLEOD	160.00			
DD 2739	DAVIDSON CATTLE CO.	251.80			
DD 2741	LAWRENCE LINDVIG	58.00			
DD 2741E	LAWRENCE LINDVIG			75.62	Perpet'l flowage easm't from 6-5-56.
A	U.S.A. DEPT OF INTERIOR		see remarks		Transferred 25 Feb. 1955, Public
DD 2756-1	JOHN W. LINDVIG, ET UX	7.13			Land Order No. 1078, acreage in-
DD 2756-2	JOHN W. LINDVIG, ET UX	0.72			cluded in tract register of segment A.
DD 2743	DAVIDSON CATTLE CO.	1,128.52			
DD 2744	McKENZIE COUNTY, NORTH DAKOTA	28.20			
DD 2746	JOHN WINFRED LINDVIG	40.00			
DD 2747	HENRY LINDVIG	40.00			
DD 2749	EST. GUSTAF S. EIELSON, DECD, ET AL	512.58			
DD 2751	EST. GUSTAF S. EIELSON, DECEASED	260.25			
DD 2752	SAKARIAS JOHNSON	40.00			
DD 2753-1	STATE OF NORTH DAKOTA	99.20			
DD 2753-2	STATE OF NORTH DAKOTA	11.20			
DD 2709-2	CHARLES H. VIZINA	3.18			
DD 2709-3	CHARLES H. VIZINA	38.80			
DD 2714-2	STATE OF NORTH DAKOTA	90.50			
DD 2754	DAVIDSON CATTLE COMPANY	7.20			
DD 2755E	LAWRENCE H. LINDVIG, ET UX			13.56	Perpet'l flowage easm't from 11-7-77

NOTE:
Oil and gas reserved in all fee tracts.
Outstanding access easement to water in tract DD 2711.
Right of access to lignite mine reserved in tract DD 2711.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 24 Sept. 1952
10th Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

DATE	BY	REVISIONS	APPROVED
11-3-88	D.A.	Audit Revision	
3-18-85	D.A.	Revised Tract Register	
7-1-76	R.E.P.	Added Trs. DD 2754 thru DD 2758-2.	
9-29-70	R.E.P.	Revised Project Name.	
7-3-69	M.W.P.	Name of Project: added transfer	
3-25-64	H.A.Z.	Due to Final Audit	
7-6-56	K.J.L.	Taking line changes: DD2741, 253.62 ac. to 58.00 ac.; 75.62 ac. changed to DD 2741E	
7-21-54	M.C.J.	Taking line changes: DD 2743, 1,268.81 ac. to 1,128.52 ac., DD 2739, 321.80 ac. to 261.80 ac.	
		DD 2737-1, 1,373.11 ac. to 1,174.09 ac.	
		DD 2706, 160.68 ac. to 95.68 ac.	

MICROFILMED

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

DATE | BY | REVISIONS | DATE APPROVED

FINAL
PROJECT MAP
TYPE OF MAP

STATE NORTH DAKOTA
COUNTY WILLIAMS & McKENZIE
DIVISION MISSOURI RIVER
DISTRICT GARRISON
TO OMAHA DISTRICT 1 APRIL 1960
LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.
10 MILES S OF GARRISON
15 MILES N OF STANTON

SEGMENT DD — LAND AREA

TOTAL ACRES IN SEGMENT 9,328.67
ACRES FEE
ACRES EASEMENT
ACRES TRANSFERRED TO W.D.
ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF
ACRES TRANSFERRED
ACRES LEASED FROM W.D.
ACRES OTHERWISE

— LEGEND —

BOUNDARY MARKER (BRASS CAP)
TAKING LINE FOR RESERVOIR
PERTINENT CONTOUR LINES
CEMETERY
STATE OR PROVINCE LINES
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
PROPERTY LINE
STREAMS
RAILROADS
POWER LINES
TELEPHONE LINES
IMPROVED ROADS
UNIMPROVED ROADS

— SCALE —
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, N.D. DAK.

SEGMENT DD

RECOMMENDED: DATE: 20 May 1952
APPROVED: LT. COL., CORPS OF ENGINEERS DATE: 20 May 1952

COMPILED: TRACED: CHECKED:

DATE	BY	REVISIONS	APPROVED
7-31-52	M.C.J.	Taking line change: DD 2707 combined with EE 2804. Changed from 321.04 ac. to 200.35 ac.	
10-3-52	M.C.J.	Taking line change: DD 2709 combined with EE 2806 to form 1 tract (DD 2709-4)	
1-6-53	M.C.J.	Taking line change: DD 2701, 345.91 ac. to 310.76 ac.	
7-21-54	M.C.J.	Taking line change: DD 2701, 310.76 ac. to 288.68 ac.	

SHEET: 31 OF 36 DRAWING NO.

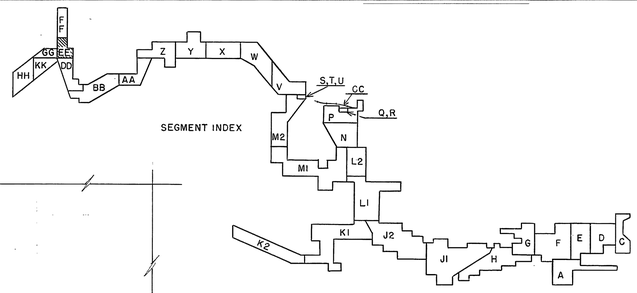
U. S. BLUE CO., CHICAGO 75 2-28-47 FORM 177A

CORPS OF ENGINEERS

U.S. ARMY

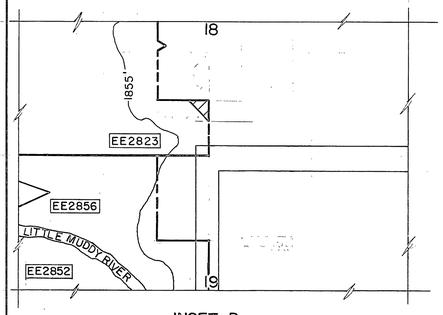


STATE INDEX



SEGMENT INDEX

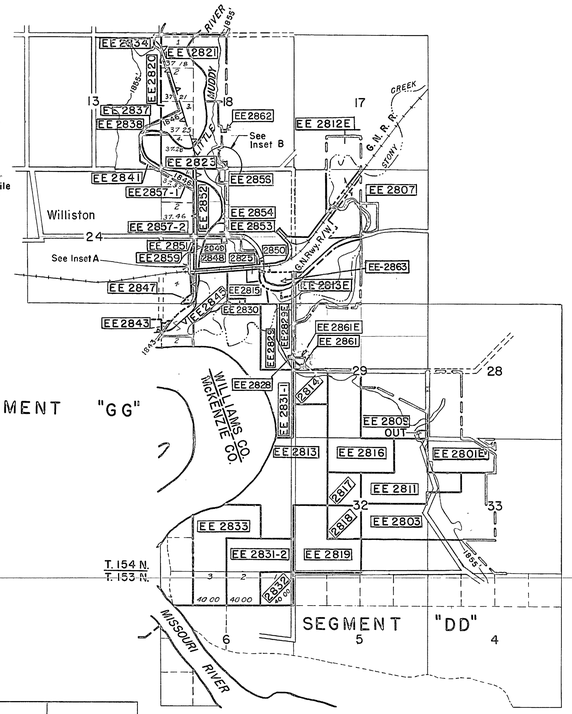
SEGMENT "FF"



INSET B

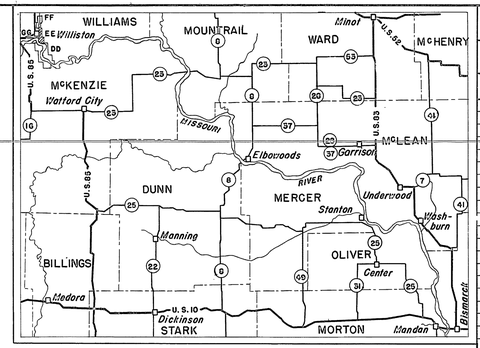
—SCALE—

660 330 0 1/16 1/18 1/4 Mile

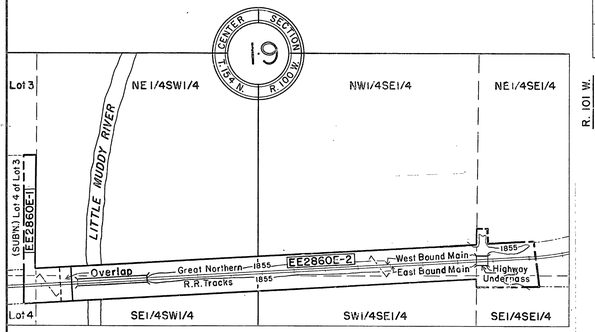


SEGMENT "GG"

SEGMENT "DD"



VICINITY MAP WITH SEGMENT INDEX



INSET A

—SCALE—

1320' 660' 330' 0 1/16 1/8 1/4 Mile

NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

APPROX. TRUE NORTH

NOTE

Oil and Gas reserved in all fee tracts with rights of ingress and egress except to strips of land in tracts EE 2821, EE 2852 and EE 2853.

Right of access to water reserved in tract EE 2821

Outstanding mineral interests in tract EE-2860E-1 (unsubordinated).

0.18 of an acre fee, conveyed to William Percy Ike by QCD dated 5 Nov. 1979 in exchange for 0.18 of an acre fee TR. EE-2862.

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE TRANS.	ACREAGE EASM'T.	REMARKS
	WILLIAMS CO.				
EE 2801E	CARL SKURDAL ET AL			159.07	Perpet'l. flowage easm't. from 7-12-55
EE 2802	DELETED				
EE 2803	ANNA SVEEN	205.50			
EE 2804	DELETED				
EE 2805	DELETED				
EE 2807	ELMER TOFTE ET UX	17.34			
EE 2808	DELETED				
EE 2809	REUBEN BRAKKEN ET AL	95.00			
EE 2810	DELETED				
EE 2811	MATILDA SVEEN BRATLIEN	144.50			
EE 2812E	WILLARD C. SVEEN ET UX			104.40	Perpet'l. flowage easm't. from 7-26-56
EE 2813 E	EMMA C. BURDICK			141.89	Perpet'l. flowage easm't. from 5-12-55
EE 2813	EMMA C. BURDICK	252.10			
EE 2814	N. W. COLEBANK ET UX	40.00			
EE 2815	FARMERS UNION OIL CO.	34.45			
EE 2816	KNUTE MONSON	160.00			
EE 2817	BEULAH B. GORDON	40.00			
EE 2818	CHARLES C. COLWELL ET UX	40.00			
EE 2819	ERNEST A. WEBB ET UX	120.00			
EE 2820	THOMAS H. DELANEY ET UX	18.88			
EE 2821	THOMAS H. DELANEY	211.77			
EE 2823	WILLIAM PERCY IKE	65.27			
EE 2824	DELETED				
EE 2825	CHARLES L. SCOFIELD ET UX	5.74			
EE 2826	DELETED				
EE 2828	NEW SCHOOL DISTRICT NO. 8	0.75			
EE 2829	REUBEN BRAKKEN ET UX	50.00			
EE 2829E	REUBEN BRAKKEN ET UX			43.18	Perpet'l. flowage easm't. from 5-28-57
EE 2830	JOE SOWITCH	3.00			
EE 2831	J. E. SANDBERG ET UX PARCEL "1" 183.50 Ac. PARCEL "2" 120.00 Ac.	303.50			
EE 2832	ESTHER MUNTZ ET AL	40.00			
EE 2833	LEONA C. KIRKPATRICK ET AL	154.60			
EE 2834	JOHN P. DOHERTY	3.41			
EE 2836	DELETED				
EE 2837	S. B. COLBY ET UX	6.97			
EE 2838	STATE OF NORTH DAKOTA	0.63			
EE 2841	JOSEPH W. JACKSON	23.70			
EE 2843	JOSEPH M. DONAHUE ET UX	2.22			
EE 2844	DELETED				
EE 2845	HARRY STRAND ET AL	67.03			
EE 2846	DELETED				
EE 2847	HARRY A. STRAND	9.16			
EE 2848	ROY A. WISEMAN ET UX	49.43			
EE 2849	JOHN FLATH	1.00			
EE 2850	AL PHONSE HOFFELT ET AL	0.55			
EE 2851	ALVIN L. BEAN ET UX	10.10			
EE 2852	ARNOLD K. STANGELAND ET AL	51.61			
EE 2853	FRANK WODNIK ET UX	5.00			
EE 2854	OSCAR ST. JOHN	1.90			
EE 2856	CARL B. NELSON ET UX	18.65			
EE 2857	OLE OLSON ET UX PARCEL "1" 13.78 Ac. PARCEL "2" 0.18 Ac.	13.96			
EE 2859	NORTH DAKOTA CONCRETE PRODUCTS COMPANY	0.04			
EE 2860E1	GREAT NORTHERN RAILWAY CO.			2.51	Perpet'l. Levee R/W easm't from 4-1-59
EE 2860E2	GREAT NORTHERN RAILWAY CO			13.59	Perpet'l. flowage easm't. from 6-15-61, add'l 0.32 acre overlapped onto Tract No. EE 2860E-1
EE 2861	EUGENE A. BURDICK, ET UX	0.99			
EE 2861E	EUGENE A. BURDICK, ET UX			2.76	Perpet'l. flowage easm't. from 9-12-79
EE 2862	WILLIAM PERCY IKE	0.18			
EE 2863	ROGER HALVERSON, ET UX	13.24			

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 5 Sept. 1952
2nd. Ind. O.C.E. to M.R.D., dated 24 April 1953
2nd. Ind. O.C.E. to M.R.D., dated 3 June 1953
2nd. Ind. O.C.E. to M.R.D., dated 21 May 1956
2nd. Ind. O.C.E. to M.R.D., dated 21 May 1957
10th. Ind. O.C.E. to M.R.D., dated 4 Nov. 1971

DATE	BY	REVISIONS	APPROVED
3-19-85	D.A.	Revised Tract Register	
12-15-80	H.W.B.	Revised Tr. EE-2863	HWB
12-20-79	R.L.P.	Added Tr. EE-2863	
5-4-79	R.L.P.	Added Tr. EE 2862	
6-13-78	F.A.L.	Revised Tr. EE 2861E	
7-1-76	R.E.P.	Added Tr. EE 2861.	
9-29-70	R.E.P.	Revised Project Name	
7-3-69	M.W.P.	NAME OF PROJECT: added transfer	
3-25-64	H.A.Z.	Due to Final Audit	HAZ
4-17-57	W.W.B.	Taking line change: Added EE 2860E-2, 13.59 ac (net)	WWB
3-4-57	W.W.B.	Taking line change: EE 2850, 1.18 ac. fee to EE 2860E-1, 2.51 ac Easm't.	WWB
9-18-56	W.W.B.	Taking line changes: EE 2844, 5.04 ac. & EE 2846, 7.33 ac. eliminated; EE 2843, 2.90 ac. to 2.22 ac., EE 2847, 35.96 ac. to 9.16 ac.	WWB
5-17-56	W.W.B.	Taking line changes: Added EE 2859, 0.04 ac. & EE 2860, 1.18 ac.	WWB
5-11-56	W.W.B.	Taking line change: EE 2809, 107.50 ac. to 95.00 ac.	WWB
5-11-56	W.W.B.	Taking line change: added EE 2820, 18.88 ac.	WWB
10-13-55	M.G.J.	Taking line change: added EE 2857-2, 0.18 ac.	MGJ
10-7-55	M.G.J.	Taking line changes: EE 2821-1, 240.65 ac. to 211.77 ac., EE 2821-2, 2.31 ac. eliminated; EE 2834, 26.25 ac. to 3.41 ac., EE 2837, 55.12 ac. to 6.97 ac., EE 2838, 80.99 ac. to 0.63 ac., EE 2841, 64.68 ac. to 23.46 ac., added EE 2842, 0.34 ac.	MGJ
9-2-55	M.G.J.	Taking line change: EE 2856, 19.49 ac. to 18.65	WWB
4-15-53	M.G.J.	Taking line changes: EE 2841, 70.24 ac to 64.68, EE 2813, 538.48 ac. to 393.99 ac.	WWB
2-4-53	M.G.J.	Taking line change: EE 2848, 54.93 ac. to 49.43	WWB
1-19-53	M.G.J.	Taking line change: EE 2823, 78.27 ac. to 63.27	WWB
		Taking line change: EE 2809, 160.00 ac. to 107.50	WWB
		Taking line change: EE 2829, 95.25 ac. to 93.18	WWB
1-12-53	M.G.J.	Taking line change: EE 2834, 40.00 ac. to 26.25	WWB
1-6-53	M.G.J.	Taking line changes: EE 2812, 177.45 ac. to 116.50 ac. EE 2857, 60.00 ac. to 55.12 ac., 2856, 21.49 ac. to 19.49 ac.	WWB
4-14-88	D.A.	AUDIT REVISIONS	

MICROFILMED | DATE AUDIT APPROVED | DATE | REVISIONS | BY

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

FINAL
PROJECT MAP
TYPE OF MAP

STATE NORTH DAKOTA
COUNTY WILLIAMS
DIVISION MISSOURI RIVER
DISTRICT GARRISON
TO OMAHA DISTRICT (APRIL 1960)
LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.
10 MILES S OF GARRISON
15 MILES N OF STANTON

SEGMENT EE
LAND AREA

TOTAL ACRES IN SEGMENT 2,747.60
ACRES FEE
ACRES EASEMENT
ACRES TRANSFERRED TO W.D.
ACRES PERMITS OR LICENSES

DISPOSALS

TOTAL ACRES DISPOSED OF 0.18
ACRES TRANSFERRED
ACRES LEASED FROM W.D.
ACRES OTHERWISE

LEGEND

BOUNDARY MARKER (BRASS CAP)
TAKING LINE FOR RESERVOIR
PERTINENT CONTOUR LINES
CEMETERY
STATE OR PROVINCE LINES
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
PROPERTY LINE
STREAMS
RAILROADS
POWER LINES
TELEPHONE LINES
IMPROVED ROADS
UNIMPROVED ROADS
LEVEE

SCALE
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT EE

RECOMMENDED: DATE: 26 May 1952
APPROVED: DATE: 28 May 1952
LT. COL. CORPS OF ENGINEERS

COMPILED: TRACED: CHECKED:

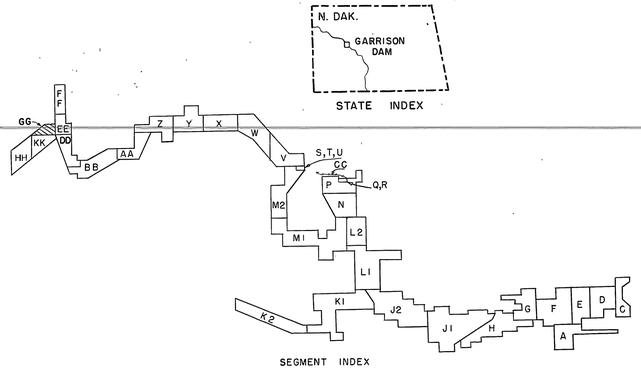
DATE	BY	REVISIONS	APPROVED
7-31-52	M.G.J.	Taking line change, EE 2804 combined with DD 2707. Changed from 40.00 ac to 20.00 ac	
8-1-52	M.G.J.	Taking line change, EE 2834, 80.00 ac. to 40.00	
10-3-52	M.G.J.	Taking line change, EE 2806, 120.00 ac., combined with DD 2709	
12-8-52	M.G.J.	Taking line change: 2808, 2824, 2826, 2827 & 2802 eliminated	

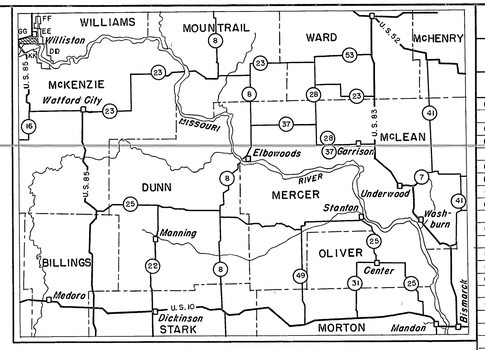
SHEET: 32 OF 36 DRAWING NO. 2836

U. S. BLUE CO., CHICAGO 75 2-58-47
FORM 177A

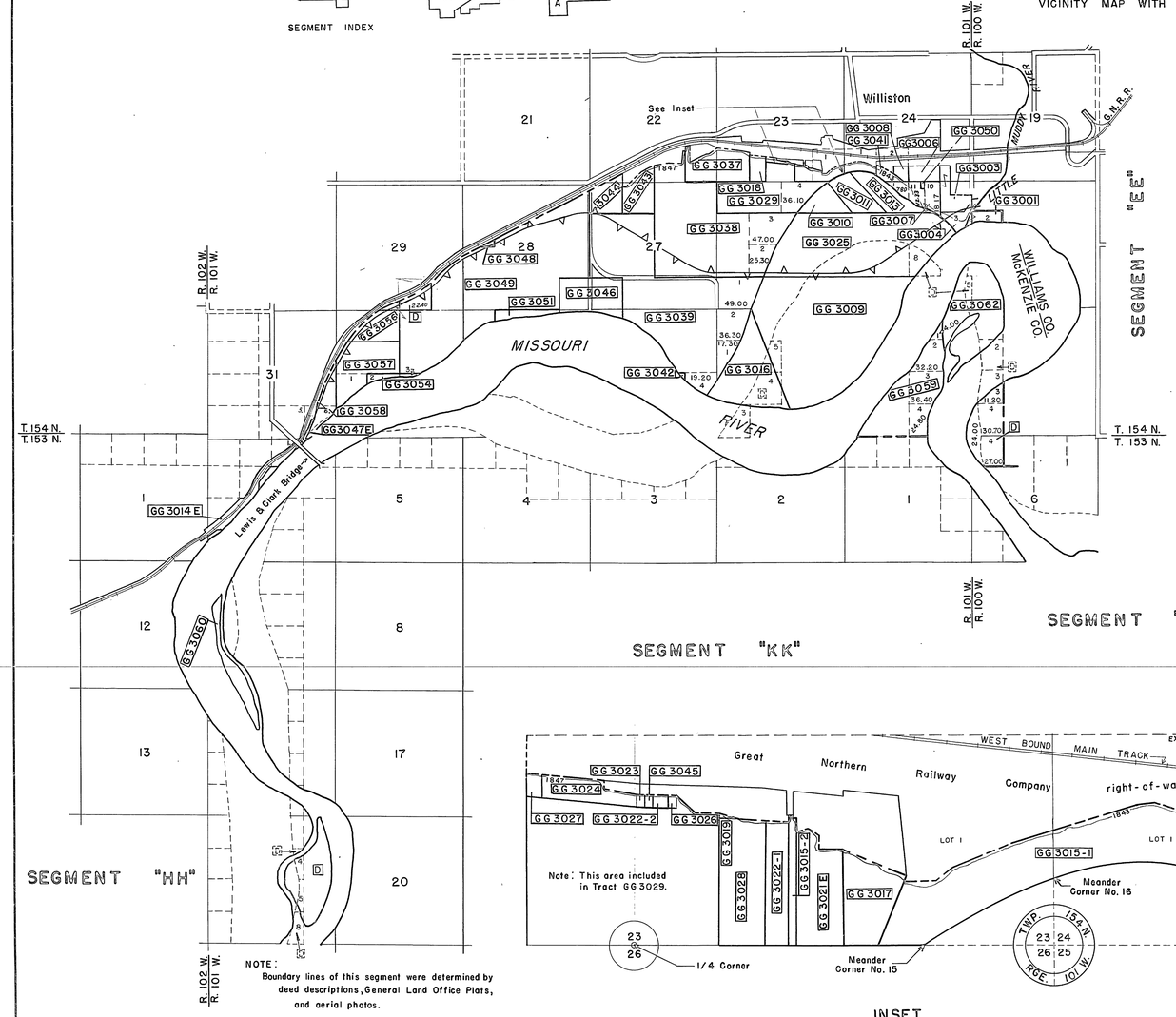
CORPS OF ENGINEERS

U.S.ARMY





APPROX. TRUE NORTH



NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

INSET

—SCALE—
1320' 660' 330' 0 1/16 1/8 1/4 MILE

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE TRANS.	ACREAGE EASM'T.	REMARKS
	WILLIAMS CO.				
GG 3001	WILLIAMS COUNTY, N. DAK.	14.92			
GG 3003	FRANK WODNIK ET UX	31.95			
GG 3004	CITY OF WILLISTON, N. DAK.	17.41			
GG 3006	GEORGE LEONHARDY ET AL	18.18			
GG 3007	THEODORE MUELLER	38.30			
GG 3008	HARRY A. STRAND	5.92			
GG 3009	LOUISE CASHMAN	584.00			
GG 3010	GEORGE BAKKE	41.00			
GG 3011	CITY OF WILLISTON	45.00			
GG 3013	GREAT NORTHERN RAILWAY CO.	57.00			
GG 3014 E	GREAT NORTHERN RAILWAY CO.			40.20	Perpet'l flowage easm't from 7-13-62
GG 3015-1	GREAT NORTHERN RAILWAY CO.	18.75			
GG 3015-2	GREAT NORTHERN RAILWAY CO.	0.93			
GG 3016	LOUISE CASHMAN ESTATE	145.61			
GG 3017	CITY OF WILLISTON	3.82			
GG 3018	GEORGE CANFIELD ET UX	16.23			
GG 3019	BARTON L. FISH	0.04			
GG 3021E	LORENZ SOWITCH			4.52	Perpet'l flowage easm't from 5-8-56
GG 3022-1	EDMUND PARISEAU	2.70			
GG 3022-2	EDMUND PARISEAU	0.18			
GG 3023	CHRIST RIPPLINGER	0.09			
GG 3024	JOHN A. LA ROCQUE	1.77			
GG 3025	ALFONZO BRATCHER ET UX	394.61			
GG 3026	LOWELL HUWE	0.09			
GG 3027	JAMES T. COX ET UX	0.34			
GG 3028	GEORGE CANFIELD ET UX	5.36			
GG 3029	GEORGE BAKKE	140.89			
GG 3030	DELETED				
GG 3031	DELETED				
GG 3032	DELETED				
GG 3033	DELETED				
GG 3034	DELETED				
GG 3035	DELETED				
GG 3036	DELETED				
GG 3037	BRUNO UPMEYER ET UX	74.15			
GG 3038	ALFONZO BRATCHER ET UX	417.28			
GG 3039	LOUISE CASHMAN	566.60			
GG 3041	WILLIAMS COUNTY	9.33			
GG 3042	WILLIAMS COUNTY	1.56			
GG 3043	GUSTAV UPMEYER	49.16			
GG 3044	BEN E. GOESON ET UX	42.68			
GG 3045	JOHN PEACHER	0.09			
GG 3046	SADIE HENSON	88.00			
GG 3047E	GREAT NORTHERN RAILWAY CO.			1.56	Perpet'l. Levee R/W easm't. from 4-1-59
GG 3048	JOSEPH F. O'NEILL ET UX	2.81			
GG 3049	DAVIDSON CATTLE CO.	621.89			
GG 3050	LEROY CLAPPER	1.00			
GG 3051	MARVIN H. GREENGARD	16.00			
D	U. S. A. DEP'T OF INTERIOR		125.49		Transferred 27 February 1959, Public Land Order No. 1809, acreage includes parcels in segment HH.
GG 3054	ALBERT C. LIVDAHL	9.60			
GG 3056	DORIS PETERSON FOSTER	48.78			
GG 3057	STEPHEN T. WESTDAL	105.75			
GG 3058	CLAYTON GREAVES	36.00			
	McKENZIE CO.				
GG 3059	DICK VANCE ET AL	172.60			
GG 3060	STATE OF NORTH DAKOTA	44.80			
GG 3062	WILLIAMS COUNTY, N. DAK.	164.90			
D	U. S. A. DEP'T OF INTERIOR		195.57		Transferred 27 February 1959, Public Land Order No. 1809, acreage includes parcels in segment HH.

NOTE

Oil and gas reserved in all fee tracts with rights of ingress and egress except to strip of land for levee in tracts GG3025, GG3038, GG3039, GG3048, GG3049 and GG3056.

NOTE:
Withdrawn from BLM inventories; areas described aggregate approx. 939.96 acres with accretions, according to GLO plats. Net acreage withdrawn 321.06. Net figure excludes acreage lost by river erosion and those lands acquired from riparian owners.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 11 Sept. 1952
2nd. Ind. O.C.E. to M.R.D., dated 21 May 1957

10-9-64	SJS	Added [D] and note	
9-29-70	R.E.P.	Revised Project Name.	
7-3-69	M.W.P.	Name of Project: added transfer	
3-25-64	H.A.Z.	Due to Final Audit	
9-30-63	H.A.Z.	Taking line changes: Added GG 3009, 584.00 ac.; GG 3010, 41.00 ac.; GG 3011, 45.00 ac.; GG 3013, 57.00 ac formerly part of GG 3025; GG 3025, 1121.61 ac. to 394.61 ac.	
2-27-62	H.A.Z.	Taking line change: Added GG 3014E, 40.20 ac.	
8-26-56	W.W.B.	Taking line change: GG 3015-1, 19.47 ac. to 18.75 ac.	
3-4-57	W.W.B.	Taking line change: Added GG 3047E, 1.56 ac.	
9-18-56	W.W.B.	Taking line changes: GG 3003, 70.46 ac. to 31.95 ac., GG 3006, 30.42 ac. to 18.18 ac., GG 3008, 27.55 ac. to 5.92 ac. & to GG 3041, 9.33 ac.	
11-4-55	M.G.J.	Taking line changes: Eliminated GG 3030, 13.70 ac., GG 3032, 30.82 ac., GG 3033, 60.00 ac., GG 3034, 1.00 ac., GG 3035, 2.33 ac., GG 3036, 2.95 ac.	
DATE	BY	REVISIONS	APPROVED

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

FINAL
PROJECT MAP
TYPE OF MAP

STATE NORTH DAKOTA
COUNTY McKENZIE AND WILLIAMS
DIVISION MISSOURI RIVER
DISTRICT GARRISON
TO OMAHA DISTRICT 1 APRIL 1960
LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.
10 MILES S OF GARRISON
15 MILES N OF STANTON

SEGMENT GG
— LAND AREA —

TOTAL ACRES IN SEGMENT 4,425.41
ACRES FEE
ACRES EASEMENT
ACRES TRANSFERRED TO W.D.
ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF
ACRES TRANSFERRED
ACRES LEASED FROM W.D.
ACRES OTHERWISE

— LEGEND —

BOUNDARY MARKER (BRASS CAP)
TAKING LINE FOR RESERVOIR
PERTINENT CONTOUR LINES
CEMETERY
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TELEPHONE LINES
IMPROVED ROADS
UNIMPROVED ROADS
LEVEE

— SCALE —
52.80' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM - LAKE SAKAKAWEA, NO. DAK.

SEGMENT GG

RECOMMENDED: DATE: 7 Nov. 1955
APPROVED: DATE: 7 Nov. 1955
MAJOR, CORPS OF ENGINEERS

COMPILED: TRACED: M.C.J. CHECKED: R.P.

DATE	BY	REVISIONS	APPROVED
4-15-53	M.C.J.	Taking line changes: GG 3030, 40.00 ac. to 13.70 ac., eliminated GG 3031, 30.00 ac., GG 3032, 80.00 ac. to 30.82 ac.	R.P.
10-7-55	M.C.J.	Taking line changes: GG 3037, 88.93 ac. to 74.15 ac., GG 3038, 431.19 ac. to 417.28 ac., GG 3043, 63.27 ac. to 49.16 ac.	R.P.

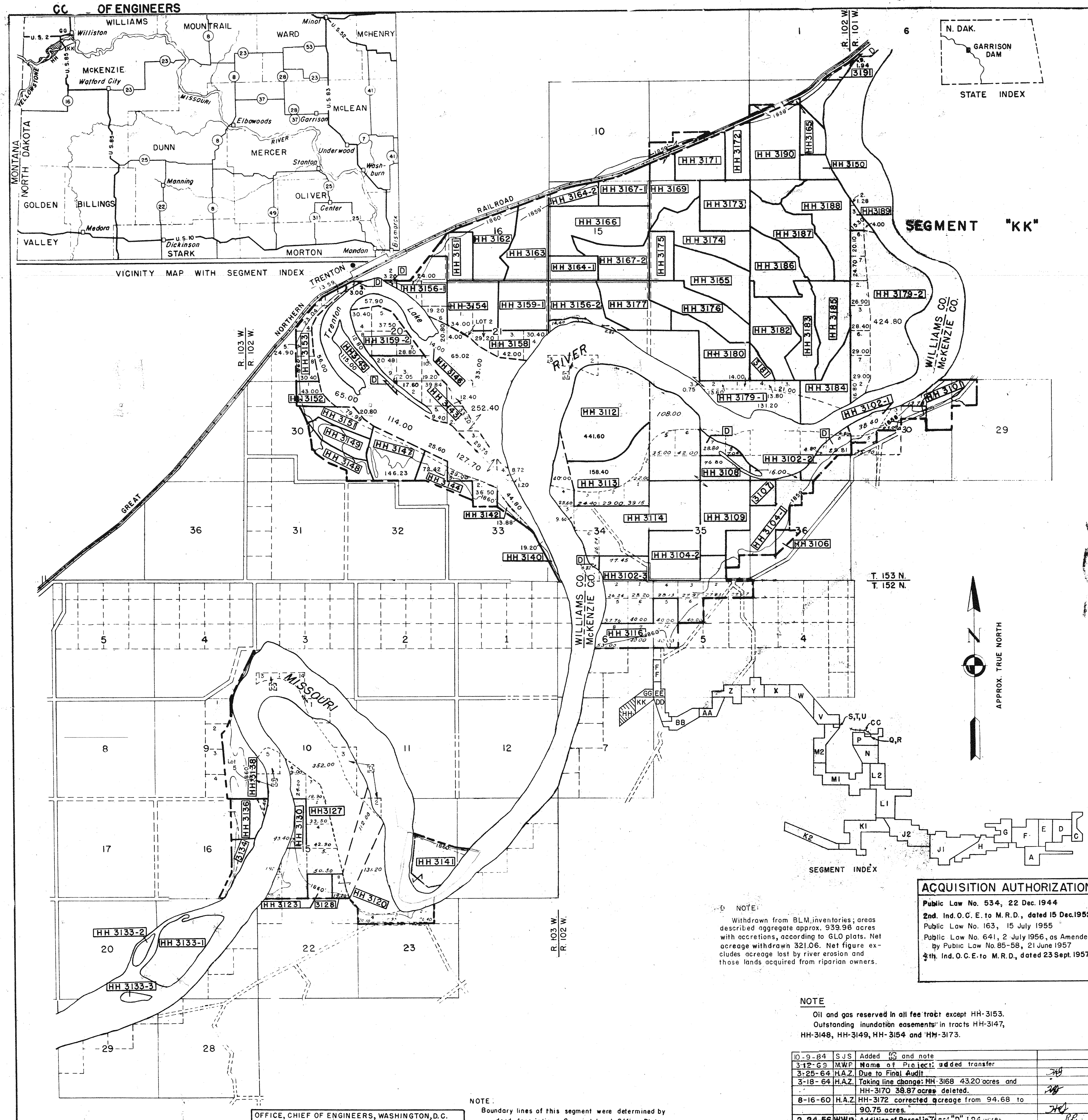
SHEET: 34 OF 36 DRAWING NO.

U. S. BLUE CO., CHICAGO 75 3-20-47
FORM 1725

G-54-ND-C

CORPS OF ENGINEERS

U.S. ARMY



ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944
2nd. Ind. O.C.E. to M.R.D., dated 15 Dec. 1952
Public Law No. 163, 15 July 1955
Public Law No. 641, 2 July 1956, as Amended by Public Law No. 85-58, 21 June 1957
4th. Ind. O.C.E. to M.R.D., dated 23 Sept. 1957

D NOTE:
Withdrawn from BLM inventories; areas described aggregate approx. 939.96 acres with accretions, according to GLO plats. Net acreage withdrawn 321.06. Net figure excludes acreage lost by river erosion and those lands acquired from riparian owners.

NOTE
Oil and gas reserved in all fee tract except HH-3153.
Outstanding inundation easements in tracts HH-3147, HH-3148, HH-3149, HH-3154 and HH-3173.

NOTE:
Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

DATE	BY	REVISIONS	APPROVED
10-9-84	SJS	Added [D] and note	
3-12-69	M.W.P.	Name of Project; added transfer	
3-25-64	H.A.Z.	Due to Final Audit	
3-18-64	H.A.Z.	Taking line change: HH-3168 43.20 acres and HH-3170 38.87 acres deleted.	
8-16-60	H.A.Z.	HH-3172 corrected acreage from 94.68 to 90.75 acres.	
2-24-56	W.W.B.	Addition of Parcel in Tract "D", 1.94 acres.	R.P.
9-15-55	M.C.J.	Taking line changes: Elimination of: HH 3129, 125.45 ac., HH 3131, 10.00 ac., HH 3132, 85.80 ac.	

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.
AUDITED
INSTALLATION OR PROJECT NO. C2-2-1895

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE TRANS.	ACREAGE EASM'T.	REMARKS
	McKENZIE COUNTY				
HH 3101	MIRIAM DEH. PAGE	130.90			
HH 3102-1	ARTHUR WOOD	97.10			
HH 3102-2	ARTHUR WOOD	30.40			
HH 3102-3	ARTHUR WOOD	401.25			
HH 3104-1	JOHN W. SLATOR ET UX	216.00			
HH 3104-2	JOHN W. SLATOR ET UX	160.00			
D	U.S.A. DEP'T OF INTERIOR		see remarks		Transferred 27 February 1959, Public Land Order No. 1809, acreage included in tract register of segment GG
HH 3106	STATE OF NORTH DAKOTA	20.00			
HH 3107	HARRY C. NELSEN ET AL	40.00			
HH 3108	FRED A. NELSEN ET UX	76.80			
HH 3109	JOSEPH HACKENBERG, SR.	465.00			
HH 3111	DELETED				
HH 3112	CLINTON A. TIBBITS	441.60			
HH 3113	CLINTON A. TIBBITS	272.95			
HH 3114	MARY A. TIBBITS ET AL	461.44			
HH 3116	HENRY H. REHBERG	173.00			
HH 3117	DELETED				
HH 3118	DELETED				
HH 3119	DELETED				
HH 3120	FRANK W. ERICKSON ET AL	195.65			Formerly Tract No. HH3123-1
HH 3121	DELETED				
HH 3122	DELETED				
HH 3123	FRANK W. ERICKSON ET AL	40.00			Formerly Tract No. HH3123-2
HH 3124-1	DELETED				Included in Tract No. HH3127
HH 3124-2	DELETED				Included in Tract No. HH3128
HH 3126	DELETED				
HH 3127	EMERY N. PAPINEAU ET UX	740.72			
HH 3128	NORMAN PAPINEAU ET UX	131.20			Formerly Tract No. HH3128-2
HH 3129	DELETED				
HH 3130	NORMAN PAPINEAU ET UX	43.40			Formerly Tract No. HH3128-1
HH 3131	DELETED				
HH 3132	DELETED				
HH 3133-1	STATE OF NORTH DAKOTA	196.80			
HH 3133-2	STATE OF NORTH DAKOTA	19.20			
HH 3133-3	STATE OF NORTH DAKOTA	16.00			
	WILLIAMS COUNTY				
HH 3134	JOHN OSTER ET UX	44.81			
HH 3136	ROBERT F. BACHTOLD	83.12			
HH 3137	DELETED				
HH 3138	MARGARET E. KERR	160.00			
HH 3139	DELETED				
HH 3140	EARL T. BAUSTE ET UX	19.20			
HH 3141	IVER BORLAUG ET UX	153.87			
HH 3142	RAYMOND F. HOFFMAN ET UX	58.68			
HH 3143	CARL GROSETH	677.39			
HH 3144	JOHN IRWIN	98.02			
D	U.S.A. DEP'T. OF INTERIOR		see remarks		Transferred 27 February 1959, Public Land Order No. 1809, acreage included in tract register of segment GG.
HH 3145	STATE OF NORTH DAKOTA	115.00			Formerly known as Tract No. HH3146-1
HH 3146	STATE OF NORTH DAKOTA	14.00			" " " " " HH3146-2
HH 3147	ORRIN J. JACOBSON ET UX	260.23			
HH 3148	JOHN TOFTE	75.44			
HH 3149	ROBERT D. BERG ET UX	77.57			
HH 3150	LEO O. PIPPENGER ESTATE ET AL	51.20			Formerly known as Tract No. HH3189-2
HH 3151	LESTER G. LARSON ET UX	100.79			
HH 3152	JOHN DEJARLAIS	108.00			
HH 3153	GERALD W. BERGSTROM ET UX	151.42			
HH 3154	HENRY A. BOWEN ET UX	223.02			
HH 3155	CHARLES W. PATCH ET UX	211.39			Formerly known as Tract No. HH3169-2
HH 3156-1	JAMES F. MARTIN ET UX	149.00			
HH 3156-2	JAMES F. MARTIN ET UX	162.43			
HH 3158	MILES C. GROSETH ET UX	134.60			
HH 3159-1	CHARLES A. BOWEN ET UX	160.00			
HH 3159-2	CHARLES A. BOWEN ET UX	207.40			
HH 3161	AGNES MORIN GARFIELD ET AL	94.98			
HH 3162	JOHN G. GOUDY ET UX	166.17			
HH 3163	M. W. ANDERSON ET UX	196.46			
HH 3164-1	MAUD MARTIN	80.00			
HH 3164-2	MAUD MARTIN	64.88			
HH 3165	CHARLES W. PATCH ET UX	63.30			Formerly known as Tract No. HH3169-3
HH 3166	H. AUSTIN MARTIN ET UX	261.50			
HH 3167-1	FRED T. MARTIN ET UX	108.47			
HH 3167-2	FRED T. MARTIN ET UX	139.98			
HH 3168	DELETED				
HH 3169	CHARLES W. PATCH ET UX	175.13			
[illegible]	[illegible]				
HH 3170	DELETED				
HH 3171	ROBERT L. KERNS ET UX	127.35			
HH 3172	FRANCES JACKSON SLINGSBY ET VIR	90.75			
HH 3173	HENRY A. BOWEN ET UX	160.00			
HH 3174	RALPH G. FASCHING ET UX	188.50			
HH 3175	MAUD MARTIN	80.00			
HH 3176	THEODORE TOFTE	177.82			
HH 3177	HAROLD E. ZIMMERMAN ET UX	176.04			
HH 3178-1	DELETED				
HH 3178-2	DELETED				
HH 3179-1	OLETA L. METZGER	346.35			
HH 3179-2	OLETA L. METZGER	599.70			
HH 3180	LESTER J. LOHSE ET UX	171.11			
HH 3181	JOHN G. GOUDY ET UX	34.89			
HH 3182	ALBERT A. PEDERSEN ET UX	177.68			
HH 3183	CARL M. SKURDAL ET UX	166.45			
HH 3184	ROBERT L. KERNS ET UX	169.59			
HH 3185	CLARENCE A. MORTENSON ET UX	169.76			
HH 3186	ARNOLD L. SOVIG	169.51			
HH 3187	MARVIN H. BRAATEN	212.32			
HH 3188	WILLIAM JOHN HABERMEYER ET UX	237.02			
HH 3189	LEO O. PIPPENGER ESTATE ET AL	20.58			Formerly known as Tract No. HH3189-1
HH 3190	J. T. WILKINSON ET UX	286.04			
HH 3191	JOSEPH C. PAULSON ET UX	13.37			

FINAL
PROJECT MAP
TYPE OF MAP

STATE NORTH DAKOTA
COUNTY McKENZIE AND WILLIAMS
DIVISION MISSOURI RIVER
DISTRICT GARRISON
TO OMAHA DISTRICT 1 APRIL 1960
LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.
10 MILES S OF GARRISON
15 MILES N OF STANTON

SEGMENT HH
— LAND AREA —

TOTAL ACRES IN SEGMENT 12,991.69
ACRES FEE
ACRES EASEMENT
ACRES TRANSFERRED TO W.D.
ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF
ACRES TRANSFERRED
ACRES LEASED FROM W.D.
ACRES OTHERWISE

— LEGEND —

TAKING LINE FOR DAM SITE
TAKING LINE FOR RESERVOIR
PERTINENT CONTOUR LINES
CEMETERY
STATE OR PROVINCE LINES
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
PROPERTY LINE
STREAMS
RAILROADS
POWER LINES
TELEPHONE LINES
IMPROVED ROADS
UNIMPROVED ROADS

— SCALE —
5280' 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM & LAKE SAKAKAWEA

SEGMENT HH

RECOMMENDED: DATE:
APPROVED: DATE:
LT. COL., CORPS OF ENGINEERS

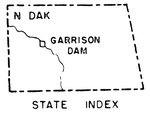
COMPILED: TRACED: CHECKED:

DATE	BY	REVISIONS	APPROVED
5-15-53	M.C.J.	Taking line change: HH 3104, 743.78 ac to 763.78 ac	
9-15-55	M.C.J.	Taking line changes: HH 3104, 763.78 ac. to 376.00 ac. HH 3102, 608.75 ac. to 528.75 ac., HH 3123, 969.30 ac. to 235.65 ac., Elimination of: HH 3117, 8.00 ac., HH 3118, 50.30 ac., HH 3119, 32.70 ac., HH 3121, 14.90 ac., HH 3122, 9.80 ac.	R.P.

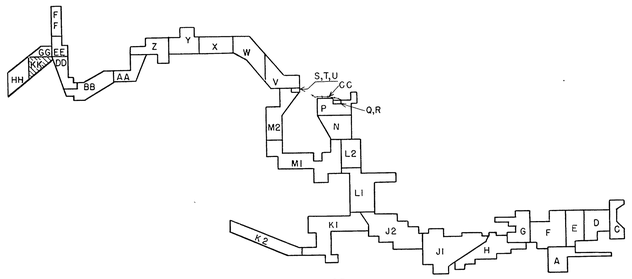
SHEET: 35 OF 36 DRAWING NO.

CORPS OF ENGINEERS

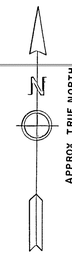
U.S. ARMY



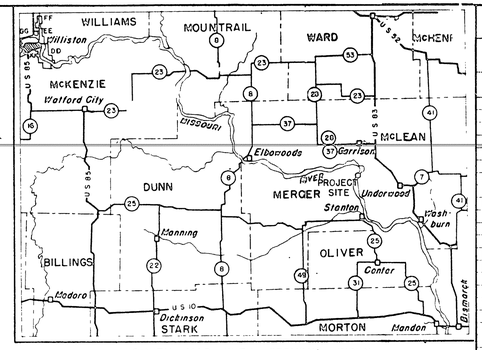
STATE INDEX



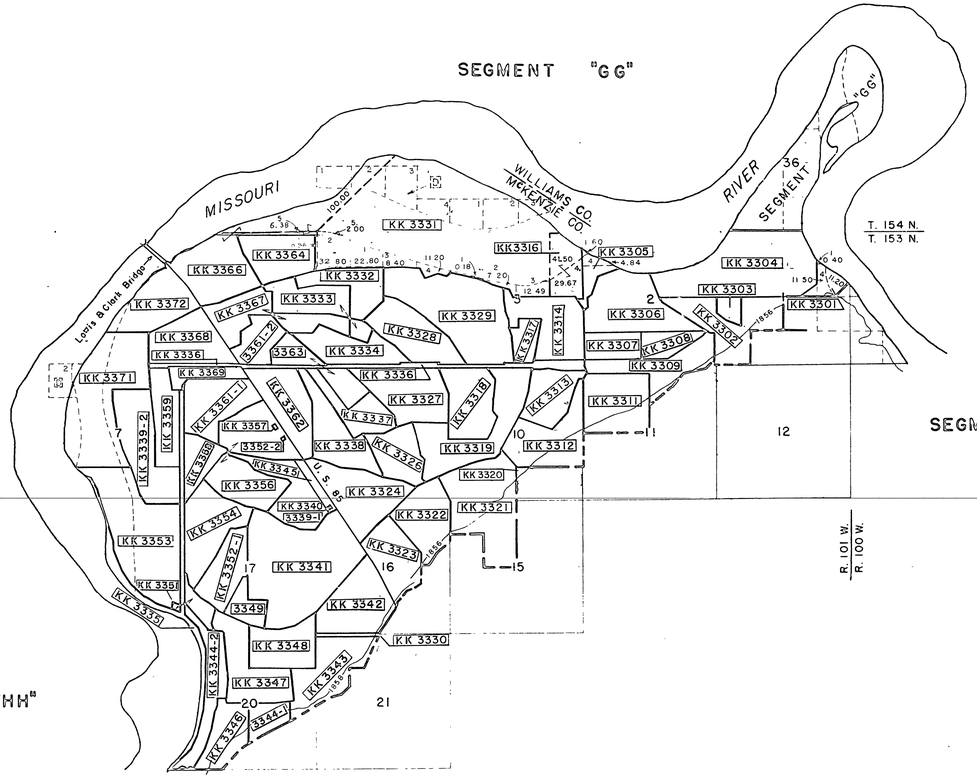
SEGMENT INDEX



APPROX. TRUE NORTH



VICINITY MAP WITH SEGMENT INDEX



NOTE

Boundary lines of this segment were determined by deed descriptions, General Land Office Plats, and aerial photos.

ACQUISITION TRACT REGISTER

TRACT NO.	LAND OWNER	ACREAGE FEE	ACREAGE TRANS.	ACREAGE EASM'T.	REMARKS
	McKENZIE COUNTY				
KK 3301	HENRY T. BACON ET AL	27.20			
KK 3302	WILLIAM NELSON ET UX	142.28			
KK 3303	HANSEL MONSON	20.00			
KK 3304	NO. DAK. RURAL REHABIL. CORP. ET AL	285.63			Formerly known as Tract No. KK3304-1
KK 3305	NO. DAK. RURAL REHABIL. CORP. ET AL	32.52			Formerly known as Tract No. KK3304-2
KK 3306	KRISTIAN HOVDE ET UX	169.24			
KK 3307	JOSEPH E. MATHISTAD ET UX	59.39			
KK 3308	BEN G. RISSER	49.45			
KK 3309	AUGUST ESTHENBACHER ET UX	108.68			
KK 3311	EVERETT E. PALMER ET UX	139.79			
KK 3312	DONALD A. NOVAK ET UX	134.15			
KK 3313	LYLE E. SAFELY ET AL	93.30			
KK 3314	WALTER O. BURK ET UX	130.85			
KK 3316	HJALMER HOVDE ET UX	71.17			
KK 3317	KERMIT J. HEEN ET UX	36.08			
KK 3318	JAMES B. SKAARE ET UX	123.06			
KK 3319	JOHN P SCHMITZ ET UX	172.85			
KK 3320	NO. DAK. RURAL REHABIL. CORP. ET AL	5.00			
KK 3321	LEONARD ZIMMER ET AL	219.45			
KK 3322	ALBERT R. ZIMMER ET UX	116.58			
KK 3323	CARRIE ANSETH. ET AL	102.49			
KK 3324	RAYMOND L. BROWN ET UX	156.46			
KK 3325E	DELETED				
KK 3326	GEORGE NOVAK ET UX	86.01			
KK 3327	JOHN ZAGURSKI ET UX	144.76			
KK 3328	CHARLES H. VIZINA ET UX	131.16			
KK 3329	LEONARD H. GREEN ET UX	264.41			
KK 3330	NO. DAK. RURAL REHABIL. CORP. ET AL	3.87			Formerly known as Tract No. KK3336-2
KK 3331	NO. DAK. RURAL REHABIL. CORP. ET AL	796.02			
KK 3332	HAROLD N. GAUTHIER ET UX	89.67			
KK 3333	FRED FALSTAD ET AL	100.83			
KK 3334	ARCHIE D. MACMASTER ET UX	102.30			
KK 3335	NO. DAK. RURAL REHABIL. CORP. ET AL	77.60			Includes area formerly known as Tract No. KK3336-3
KK 3336	NO. DAK. RURAL REHABIL. CORP. ET AL	46.09			Formerly known as Tracts Nos. KK3336-1 & KK3336-4, now combined
KK 3337	ANTON P. NELSON ET UX	74.87			
KK 3338	ALBERT ARNEGARD ET UX	113.79			
KK 3339-1	HENRY T. BACON ET AL	106.24			
KK 3339-2	HENRY T. BACON ET AL	152.84			
KK 3340	JOSEPH R. LANDWEHR ET UX	0.16			
KK 3341	HUGH PATTERSON ET UX	346.78			
KK 3342	LYNN LEE ET UX	140.84			
KK 3343	REUBEN E. BRAKKEN ET UX	138.30			
KK 3344-1	CLOYD J. WEGLEY ET UX	43.91			
KK 3344-2	CLOYD J. WEGLEY ET UX	105.84			
KK 3345	HENRY T. BACON ET AL	18.99			
KK 3346	LARS LEE	83.21			
KK 3347	EMERY N. PAPINEAU ET UX	118.06			
KK 3348	ALOIS STEPANEK ET UX	100.68			
KK 3349	FRED R. PAPINEAU	43.35			
KK 3351	LEWIS & CLARK IRRIGATION DIST.	31.72			
KK 3352-1	WILLIAM J. NASNER ET UX	90.10			
KK 3352-2	WILLIAM J. NASNER ET UX	0.34			
KK 3353	PAUL STEPANEK ET UX	286.91			
KK 3354	ALFRED I. OSSING ET AL	144.76			
KK 3356	DONALD S. SATHE ET AL	216.63			
KK 3357	ANDREW SATHE, SR. ET UX	0.69			
KK 3358	EVELYN ALICE PAULSON ET VIR	56.49			
KK 3359	LORENZ SOWITCH ET UX	93.10			
KK 3361-1	JOSEPH C. PAULSON ET UX	118.29			
KK 3361-2	JOSEPH C. PAULSON ET UX	62.14			
KK 3362	EDWIN M. DAHL ET UX	124.92			
KK 3363	DENNIS GEORGE ET UX	80.12			
KK 3364	HENRY I. SOVIG	104.81			
KK 3366	WAYNE S. BOYCE ET UX	254.11			
KK 3367	CLIFFORD I. SOVIG ET UX	116.25			
KK 3368	PHILANDER A. HODGSON ET UX	123.19			
KK 3369	STATE OF NORTH DAKOTA	41.01			
KK 3371	HENRY P VOHS ET AL	276.80			
KK 3372	LEONARD M. FIXEN ET UX	119.67			

NOTE:

Oil and gas reserved in all fee tracts.

NOTE:

Withdrawn from B.L.M. inventories; areas described aggregate approx. 939.96 acres with accretions, according to GLO plats. Net acreage withdrawn 321.06. Net figure excludes acreage lost by river erosion and those lands acquired from riparian owners.

ACQUISITION AUTHORIZATION

Public Law No. 534, 22 Dec. 1944

Public Law No 163, 15 July 1955

Public Law No.641, dated 2 July 1956

4th. Ind. O.C.E. to M.R.D., dated 23 Sept. 1957

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.

AUDITED

INSTALLATION OR PROJECT NO. C2-2-1095

Date	Revisions	By
10-9-84	Added ⊡ and note	S.J.S.

FINAL PROJECT MAP

TYPE OF MAP

STATE NORTH DAKOTA

COUNTY McKENZIE

DIVISION MISSOURI RIVER

DISTRICT GARRISON

TO OMAHA DISTRICT 1 APRIL 1969

LOCATION OF DAM SEC. 5 T. 146 N. R. 84 W. OF 5TH P.M.

10 MILES S OF GARRISON

15 MILES N OF STANTON

SEGMENT KK — LAND AREA —

TOTAL ACRES IN SEGMENT 8,168.25

ACRES FEE

ACRES EASEMENT

ACRES TRANSFERRED TO W.D.

ACRES PERMITS OR LICENSES

— DISPOSALS —

TOTAL ACRES DISPOSED OF

ACRES TRANSFERRED

ACRES LEASED FROM W.D.

ACRES OTHERWISE

— LEGEND —

TAKING LINE FOR DAM SITE

TAKING LINE FOR RESERVOIR

PERTINENT CONTOUR LINES

CEMETERY

STATE OR PROVINCE LINES

COUNTY LINE

TOWNSHIP LINE

SECTION LINE

PROPERTY LINE

STREAMS

RAILROADS

POWER LINES

TELEPHONE LINES

IMPROVED ROADS

UNIMPROVED ROADS

— SCALE —

5280 2640' 1320' 0 1/4 1/2 1 MILE

DEPARTMENT OF THE ARMY
OFFICE OF THE DISTRICT ENGINEER
GARRISON DISTRICT
MISSOURI RIVER DIVISION
REAL ESTATE

GARRISON DAM & LAKE SAKAKAWEA

SEGMENT KK

RECOMMENDED Roy Young DATE 28 Sept 1965

APPROVED H L Hille DATE 29 Sept 1965

COL CORPS OF ENGINEERS

COMPILED 3918 TRACED MG CHECKED: RP

DATE	BY	REVISIONS	APPROVED
7-1-76	R.E.P.	Added Tr. KK 3373.	
2-22-69	M.W.P	Name of Project added, transfer	
3-25-64	H.A.Z.	Due to Final Audit	THB
3-13-64	H.A.Z.	Tract KK-3325E, 56.29 ac. was deleted and acreage now included in tracts abutting highway as shown with ⊡	THB
1-20-1958	W.W.B.	Added Tract No. KK3325E 56.29 acres.	THB

SHEET: 36 OF 36 DRAWING NO.

G-36-M

Appraisal for Tract V-1926

R_ _SED APPRAISAL
APPRAISAL REPORT

PROJECT: Garrison Dam and Reservoir, North Dakota
TRACT: V-1926

STATE	COUNTY	CITY, DISTRICT, OR TOWNSHIP
North Dakota	Mountrail	Township 153, Rge 93 W.

PROPERTY OF	ADDRESS
George O'Malley, a single man	Sanish, North Dakota

LAND DESCRIPTION

Those portions of the Southeast quarter of the Northeast quarter ($SE\frac{1}{4}NE\frac{1}{4}$), Northeast quarter of the Southeast quarter ($NE\frac{1}{4}SE\frac{1}{4}$) of Section 20 lying East of the Missouri River, East half ($E\frac{1}{2}$), South half of the Northwest quarter ($S\frac{1}{2}NW\frac{1}{4}$), North half of the Southwest quarter ($N\frac{1}{2}SW\frac{1}{4}$) of Section 21, Northwest quarter ($NW\frac{1}{4}$), Southwest quarter of the Northeast quarter ($SW\frac{1}{4}NE\frac{1}{4}$), Northwest quarter of the Southeast quarter ($NW\frac{1}{4}SE\frac{1}{4}$) of Section 22, Lots 1 and 2 of Section 28, all in Township 153 North, Range 93 West of the 5th P.M.

* 273.22 acres, accretions to Tract V-1926 valued at $4300 by Mr. Vogen as indicated in Report of Title, not included in this appraisal.

8Jan53
ps

Entire Ownership - 3787.43
Area Taken - 829.99
Remainder - 2957.44

AREA (Acres)	APPRAISAL VALUATION	
829.99	TOTAL PRESENT MARKET VALUE: $ 30,000.00 Including severance	VALUE OF GROWING CROPS: SEVERANCE DAMAGES $

I CERTIFY THAT I HAVE CAREFULLY EXAMINED THE ABOVE DESCRIBED PREMISES AND THE AMOUNT INDICATED REPRESENTS MY BEST UNBIASED JUDGMENT AS TO THE PRESENT MARKET VALUE OF THE FEE SIMPLE TITLE THERETO, EXCEPT AS OTHERWISE INDICATED. I DO FURTHER CERTIFY THAT I HAVE NO PRESENT OR INTENDED FUTURE INTEREST THEREIN.

DATE: 3 Nov 1950
APPRAISER: Revised 25Sep52
CBV
O B Vogen

APPROVED BY (Name and Title)
2-17-53 Victor Lundeen
Chief, Appraisal Branch

3

ENG FORM 241
1 Jan 46
Incl #1 1/ 4/20/53

Army-CE-Omaha, Nebr.

LOCATION, NEIGHBORHOOD, ETC. This area is characterized by both large and small farms and by a few large ranches that include grazing and bottom croplands. The economy of the area combines the raising of cereal grain, flax and high grade beef cattle.

Lands of the area range from nearly level bottom lands of the Missouri flood plain to steeply rolling and rough uplands and level plateaus at an elevation of 175 to 250 feet above the flood plain. Soils of the flood plain vary in texture from fine sandy loams to silty clay loams of variable fertility and productive capacity. Soils of the uplands are mostly clay loams of variable texture utilized primarily for hay and pasture. The most desirable lands of the flood plain are usually utilized for alfalfa production and cash grains, while poorly drained lands, valley slopes and the uplands are utilized for feed crops, hay and grazing. Dry farming, which incorporates summer fallow practice, is most common. Yields are variable, but have been very good during the 10-year period prior to 1951. The 1951 and 1952 seasons were very dry and in general the crops were poor and improfitable. Average carrying capacity of grazing lands is about 2.5 acres per a.u. month. Farm tenancy is low and the usual rental terms are 1/4 of crop delivered to owner plus cash rental for improvements and pasture. The average annual rainfall is about 15 inches of which the major portion falls during the 4½ month growing season. Drought is a major hazard in crop production.

CHARACTER, TOPOGRAPHY AND ADAPTABILITY This classification embraces the portion to be acquired, comprising 929.99 acres and consists of 410 acres of nearly level bottom cropland with a sandy and silty clay soil and a sandy clay subsoil; 207 acres of nearly level brush and grasslands with a sandy and silty clay loam soil and a sandy clay subsoil and 212.99 acres of steeply rolling upland pasture lands with a sandy and gravelly clay loam soil. Included in pasture classification is about 35 acres of abandoned croplands. None of this area is fenced except the upland pasture which is fenced as part of the area remaining.

ASSESSED VALUE

YEAR	ACRES	LAND $	IMPROVEMENTS $	OTHER $	TOTAL $
Not available					

REMARKS RELATIVE TO ASSESSED VALUE

Investigations disclosed that the assessed valuations bear no relationship to the present market value of lands in this area.

VALUATION OF 829.99 ACRES BEING ACQUIRED

VALUATION OF LAND

PRESENT USE	TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
				$	$
Croplands - bottom	Sandy and silty clay loam	Nearly level	410.00	50.00	20,500.00
Brush and grasslands - bottom	Sandy and silty clay loam	Nearly level	207.00	15.00	3,105.00
Pasture lands - uplands	Sandy and gravelly clay loam	Steeply rolling	212.99	10.00	2,129.90
			829.99	TOTAL	$ 25,734.90

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
						$	$
No buildings on this tract.							
					TOTAL*	$	$

* *Estimated contribution improvements to appraised market value of the property as a whole.*

ENG FORM 241 (Con't) 1 Jan 46

Total Valuation of 829.99 Acres Being Acquired - $25,700.00

S AND OFFERS OF SALE OF NEARBY PROPERT

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE

COMPARISON OF ABOVE WITH PROPERTY APPRAISED

GROWING CROPS

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$

APPRAISAL OF TIMBER, MINERALS, ETC.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)*

VALUATION OF 2957.44 ACRES REMAINING

VALUATION OF LAND

PRESENT USE	L TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
				$	$
Croplands - upland	Sandy and gravelly clay loam	Gently rolling	536.00	25.00	13,400.00
Pasture lands - uplands	Sandy and gravelly clay loam	Gently to steeply rolling	2421.44	10.00	24,214.40
					37614.40
				Less severance damages	4300.00
			2957.44	TOTAL	$ 33,314.40

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
						$	$
Same as entire ownership							
					TOTAL*	$ 6000.00	$

* *Estimated contribution improvements to appraised market value of the property as a whole.* $6000.00

ENG FORM 1 Jan 46 241 (Con't) Total Value of 2957.44 Acres Remaining - $39,300.00

S AND OFFERS OF SALE OF NEARBY PROPERT

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE

COMPARISON OF ABOVE WITH PROPERTY APPRAISED

GROWING CROPS

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$

APPRAISAL OF TIMBER, MINERALS, ETC.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)*

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

V-1925
Tract No. V-1926 Twp._____, Rge._____
(Tract Map Attached)

Name of Owner (Surface) Leo O'Malley Acres 1103.21 - 40.00 = 1143.21 V-1926 V-1925

Acres which can be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 160 + 40.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 943.21.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value $	Total Mineral Acre Value $	Est. % of Impairment	Total Amount of impairment $
V-1926 160	20	3200	10	3200
943.21	20	18864	20	3772
V-1925 40	20	800	10	80

Recommended Compensation for Impairment of Royalty Interest - - $ 4200 VL

B. Impairment of Leasehold Interest in Gas and Oil Rights:

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - $_____

C. Total of Impairment: Royalty and Leasehold - - $_____

Remarks:

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 13 Apr 1953

Date of Report 14 May 1956 Victor Lindeen
Appraiser

MRG FORM 230 23 MAR 55 (Tentative)

Appraisal Supplement

Impairment of Interest in Gas and Oil Rights

V-1925
V-1926

Tract No. V-1926

Twp._____, Rge._____
(Tract Map Attached)

Name of Owner (Surface) Leo O'Malley

Acres 1103.24 - V-1926
40.00 V-1925
1143.24

Acres which can be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 160 + 40.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 943.24.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of impairment
V-1926				
160	$ 20	$ 3200	10 %	$ 320 00
943.24	20	18864 20	20 %	3772 84
				4092 84
V-1925				
40	20	800	10	80 84
				4172 68

Recommended Compensation for Impairment of Royalty Interest - - $ 4200

B. Impairment of Leasehold Interest in Gas and Oil Rights:

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - $_____

C. Total of Impairment: Royalty and Leasehold - - $_____

Remarks:

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 13 Apr 1953

Date of Report 14 May 1956

Appraiser

MRG FORM 230 23 MAR 55 (Tentative)

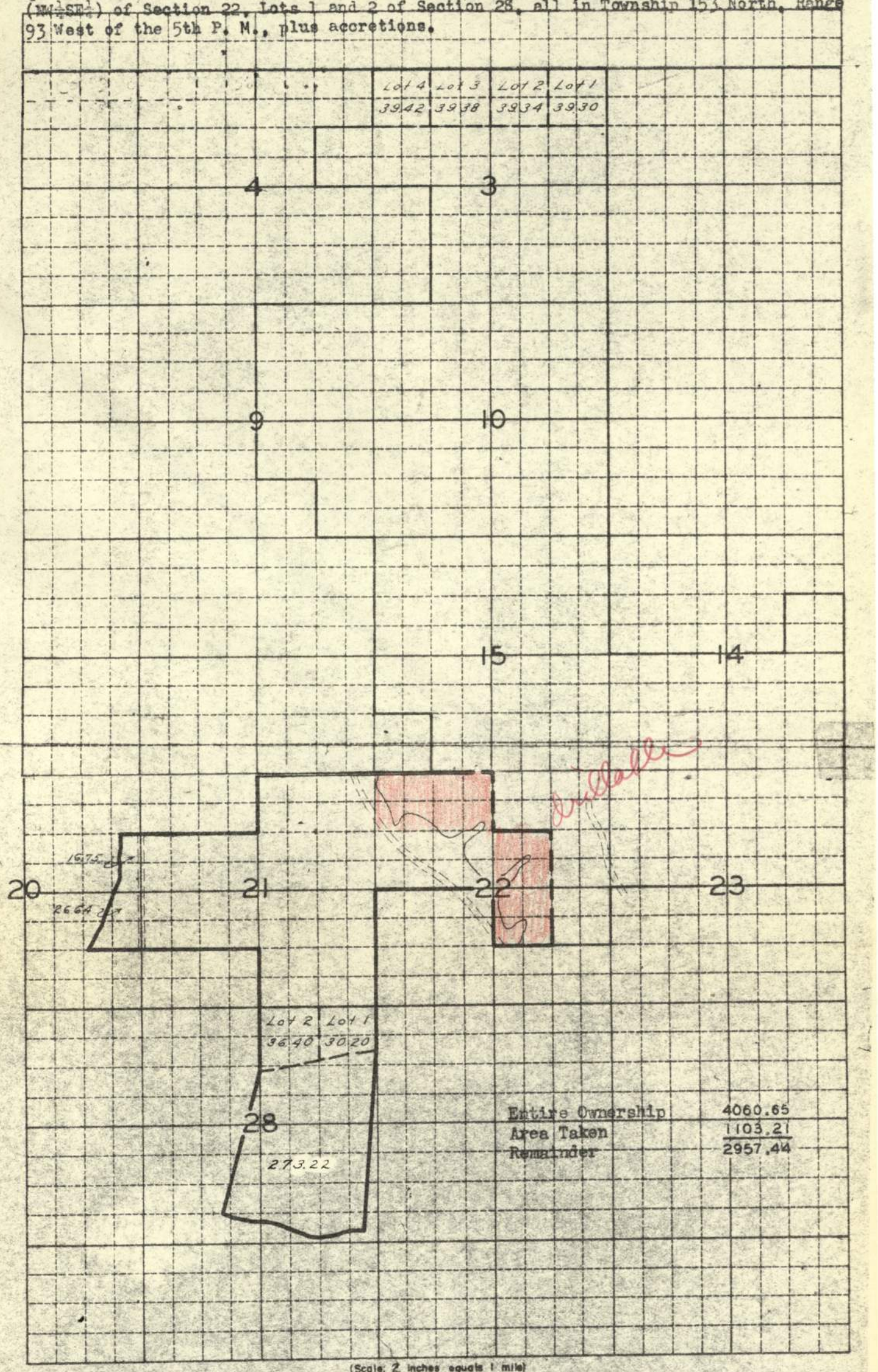
3

ENG FORM 998
1 JAN 46

B-20

TRACT MAP (WITH GRID)

Project symbol No. Garrison Dam - Reservoir Area Tract No. V-1926
Name of owner George O'Malley
Field work by Jack Turnquist Date 8 February 1951
Description of tract State - North Dakota County - Mountrail
Those portions of the Southeast quarter of the Northeast quarter (SE¼NE¼) Northeast quarter of the Southeast quarter (NE¼SE¼) of Section 20 lying East of the Missouri River, East half (E½), South half of the Northwest quarter (S½NW¼), North half of the Southwest quarter (N½SW¼) of Section 21, Northwest quarter (NW¼), Southwest quarter of the Northeast quarter (SW¼NE¼), Northwest quarter of the Southeast quarter (NW¼SE¼) of Section 22, Lots 1 and 2 of Section 28, all in Township 153 North, Range 93 West of the 5th P. M., plus accretions.



Entire Ownership	4060.65
Area Taken	1103.21
Remainder	2957.44

(Scale: 2 inches equals 1 mile)

CLASSES OF LAND

Crop land ☐
Pasture land ☐
Forest land ☐
* ☐

Grades of each class of land must be shown on the map proper.
* Name of any other class of land involved.

I certify that this is an accurate map of Tract V-1926 based on Survey, Deed Desc. & G.L.O. Rods, which shows this tract to contain 1103.21 acres, more or less.
Name Jack Turnquist
Title Draftsman
Date 24 July 1950
Indicate whether map is based on General Land Office records, aerial survey, deed description or actual survey.

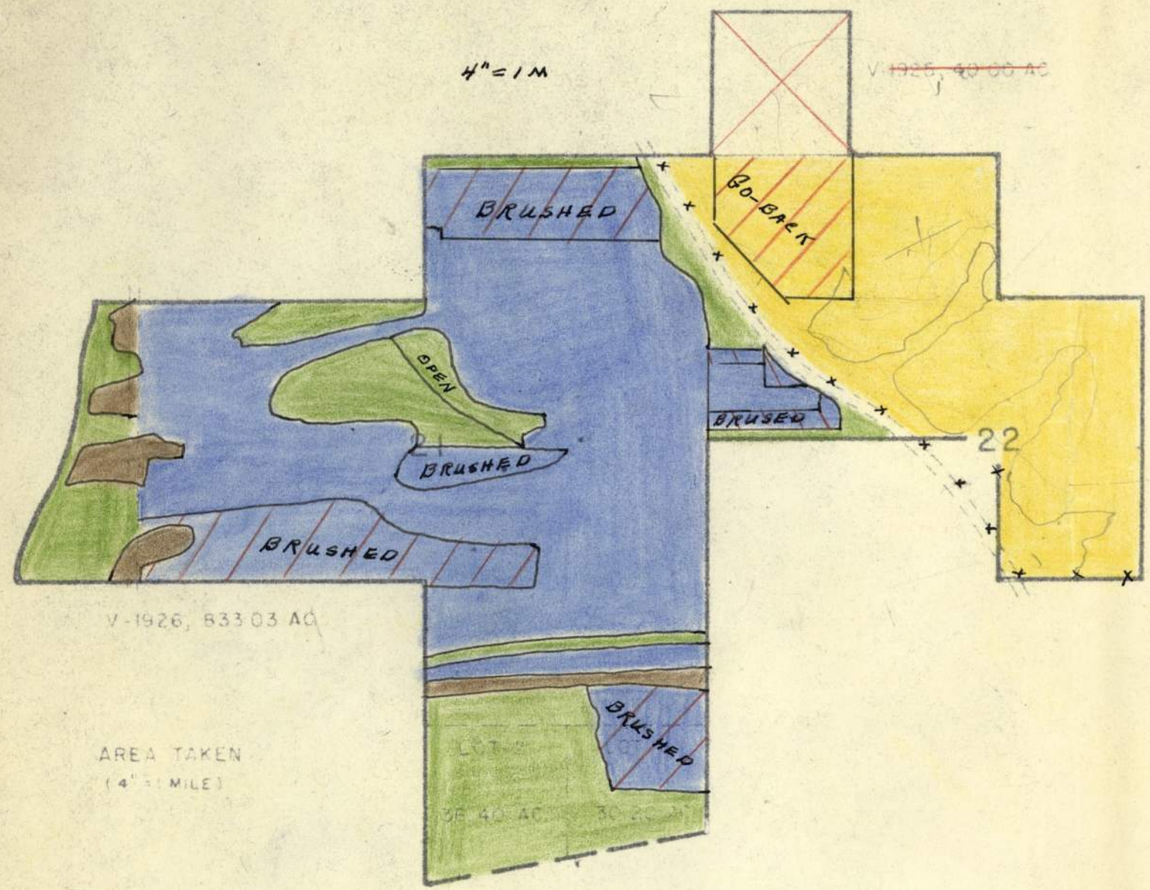
TRACT ~~NO. V-1925 &~~ 1926

GEORGE O'MALLEY

(PART TAKEN)

4" = 1 M

V ~~1926, 40.00 AC~~

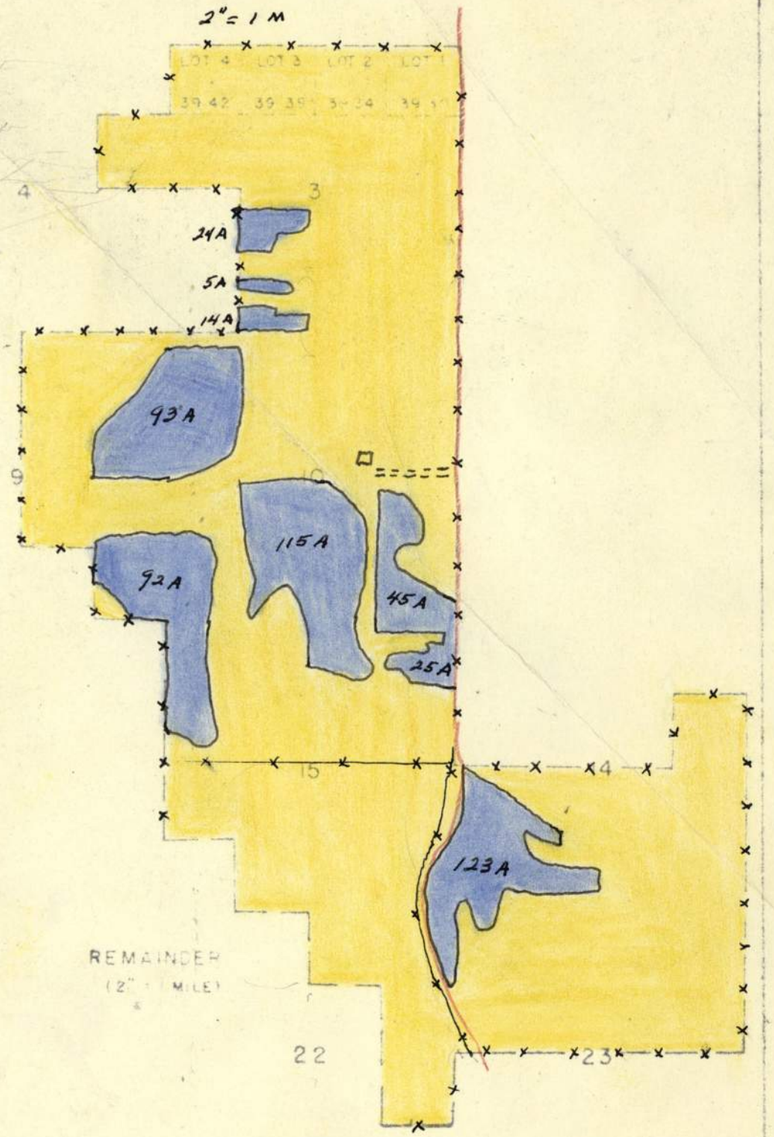


V-1926, 833.03 AC

AREA TAKEN
(4" = 1 MILE)

(PART REMAINING)

2" = 1 M



ENTIRE OWNERSHIP	3787.43 ACRES
AREA TAKEN	829.99 ACRES
REMAINDER	2957.44 ACRES

~~SW⁴SW⁴ SEC 5~~,
PORTIONS OF SE⁴NE⁴, NE⁴SE⁴ LYING E OF MISSOURI R
SEC 20, E², S²NW⁴, N²SW⁴ SEC 21, NW⁴, SW⁴NE⁴,
NW⁴SE⁴ SEC 22, LOTS 1 & 2 SEC 28, T 153 N, R 93 W

ENG FORM 998
1 JAN 46

Appraisal for Tract
Z-2314

TRACT MAP (WITH GRID)

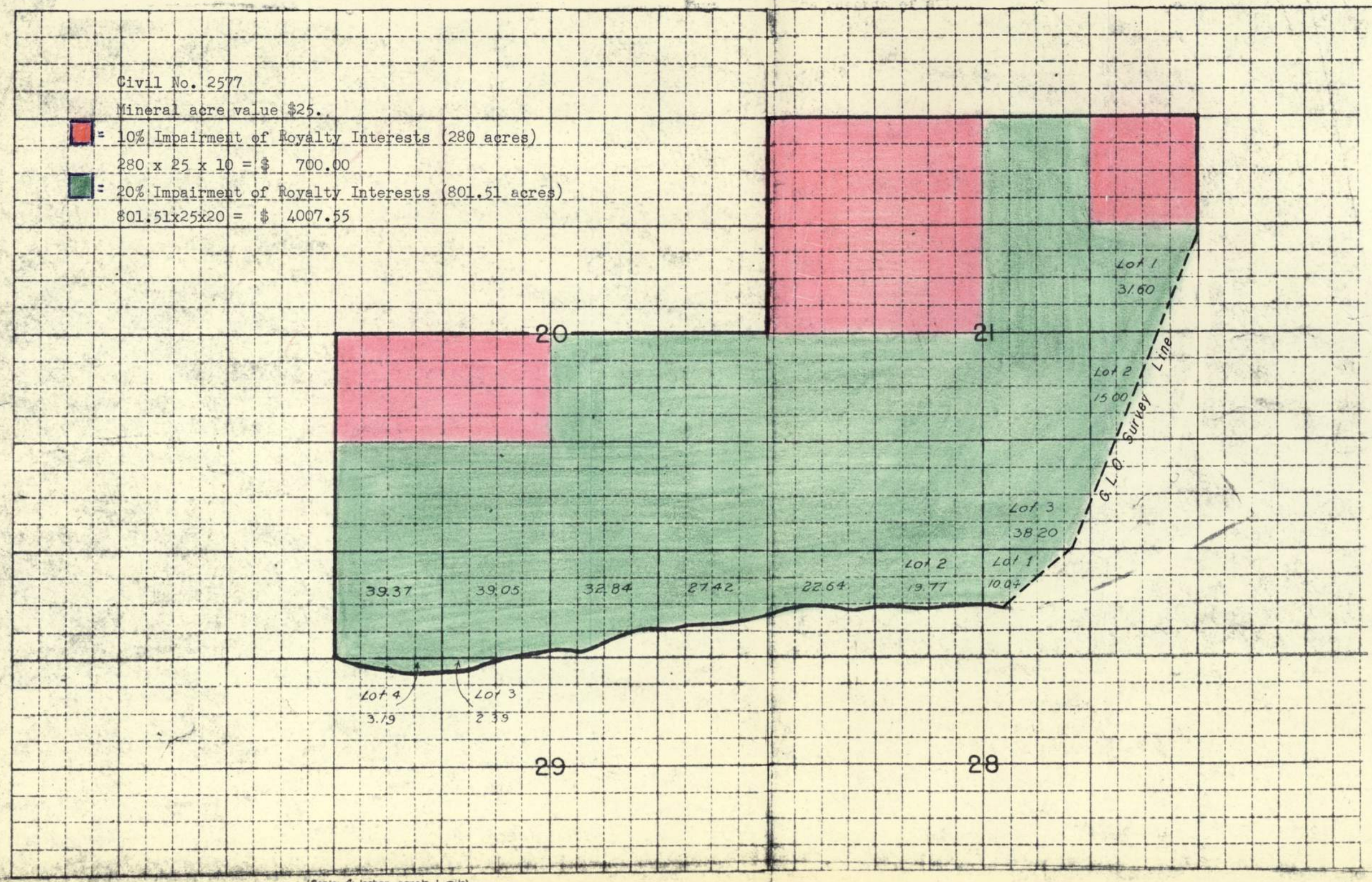
Project symbol No. Garrison Dam - Reservoir Area — Tract No. Z-2314
Name of owner Ruth Parker
Field work by Mary Jackson — Date 19 SEPT. 1951
Description of tract State - North Dakota County - Williams

Lots 1, 2 and 3, North half of the Northeast quarter (N½NE¼), Southwest quarter of the Northeast quarter (SW¼NE¼), Northwest quarter of the Southeast quarter (NW¼SE¼), Southwest quarter (SW¼), Northwest quarter (NW¼) of Section 21, Southeast quarter (SE¼), Southwest quarter (SW¼) of Section 20, Lots 3 and 4 and those portions of the North half of the Northeast quarter (N½NE¼) and the North half of the Northwest quarter (N½NW¼) lying North of the Missouri River, Section 29, Lots 1 and 2 and that portion of the Northwest quarter of the Northwest quarter lying North of the Missouri River, Section 28, Township 154 North, Range 97 West of the 5th P.M.,

Civil No. 2577
Mineral acre value $25.

= 10% Impairment of Royalty Interests (280 acres)
280 x 25 x 10 = $ 700.00

= 20% Impairment of Royalty Interests (801.51 acres)
801.51x25x20 = $ 4007.55



(Scale: 4 inches equals 1 mile)

CLASSES OF LAND

Crop land
Pasture land
Forest land
*

Grades of each class of land must be shown on the map proper.

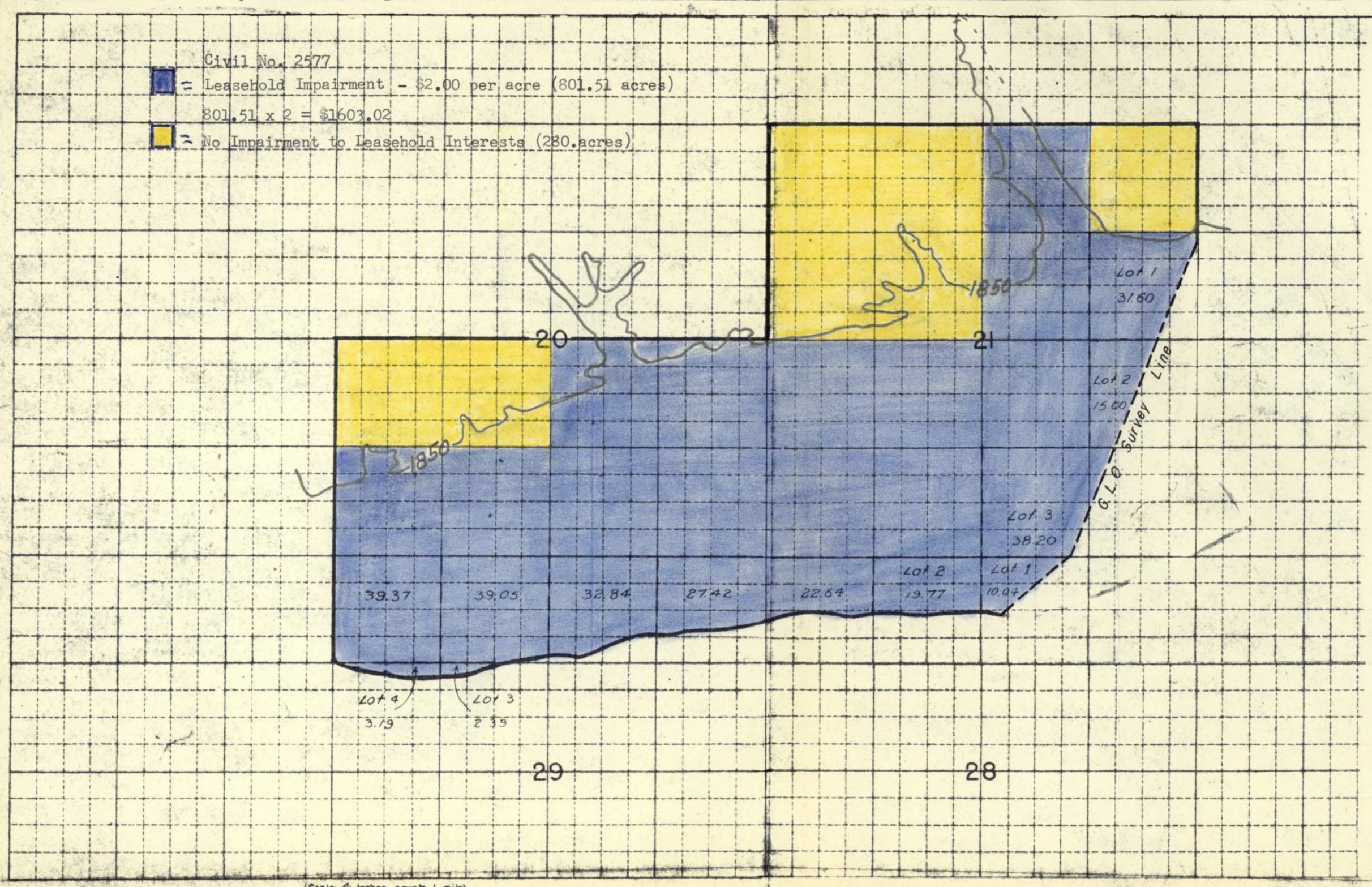
I certify that this is an accurate map of Tract Z-2314 based on Survey, Deed Des. & G.L.O. Rods., which shows this tract to contain 1081.51 acres, more or less.
Name Mary Jackson
Title Cartographic Draftsman (Revised 22 Oct 51)
Date 19 September 1951 (Revised 12feb53 by M.J.)
Indicate whether map is based on General Land Office records,

EN2 FORM 998
1 JAN 46

TRACT MAP (WITH GRID)

Project symbol No. Garrison Dam - Reservoir Area — Tract No. Z-2314
Name of owner Ruth Parker
Field work by Mary Jackson — Date 19 SEPT. 1951
Description of tract State - North Dakota County - Williams

Lots 1, 2 and 3, North half of the Northeast quarter (N½NE¼), Southwest quarter of the Northeast quarter (SW¼NE¼), Northwest quarter of the Southeast quarter (NW¼SE¼), Southwest quarter (SW¼), Northwest quarter (NW¼) of Section 21, Southeast quarter (SE¼), Southwest quarter (SW¼) of Section 20, Lots 3 and 4 and those portions of the North half of the Northeast quarter (N½NE¼) and the North half of the Northwest quarter (N½NW¼) lying North of the Missouri River, Section 29, Lots 1 and 2 and that portion of the Northwest quarter of the Northwest quarter lying North of the Missouri River, Section 28, Township 154 North, Range 97 West of the 5th P.M.



(Scale: 4 inches equals 1 mile)

CLASSES OF LAND

Crop land ☐
Pasture land ☐
Forest land ☐
☐

Grades of each class of land must be shown on the map proper.

I certify that this is an accurate map of Tract Z-2314 based on Survey, Deed Des. & G.L.O. Rods., which shows this tract to contain 1081.51 acres, more or less.
Name Mary Jackson
Title Cartographic Draftsman (Revised 22 Oct 51)
Date 19 September 1951 (Revised 12feb53 by M.J.)
Indicate whether map is based on General Land Office records,

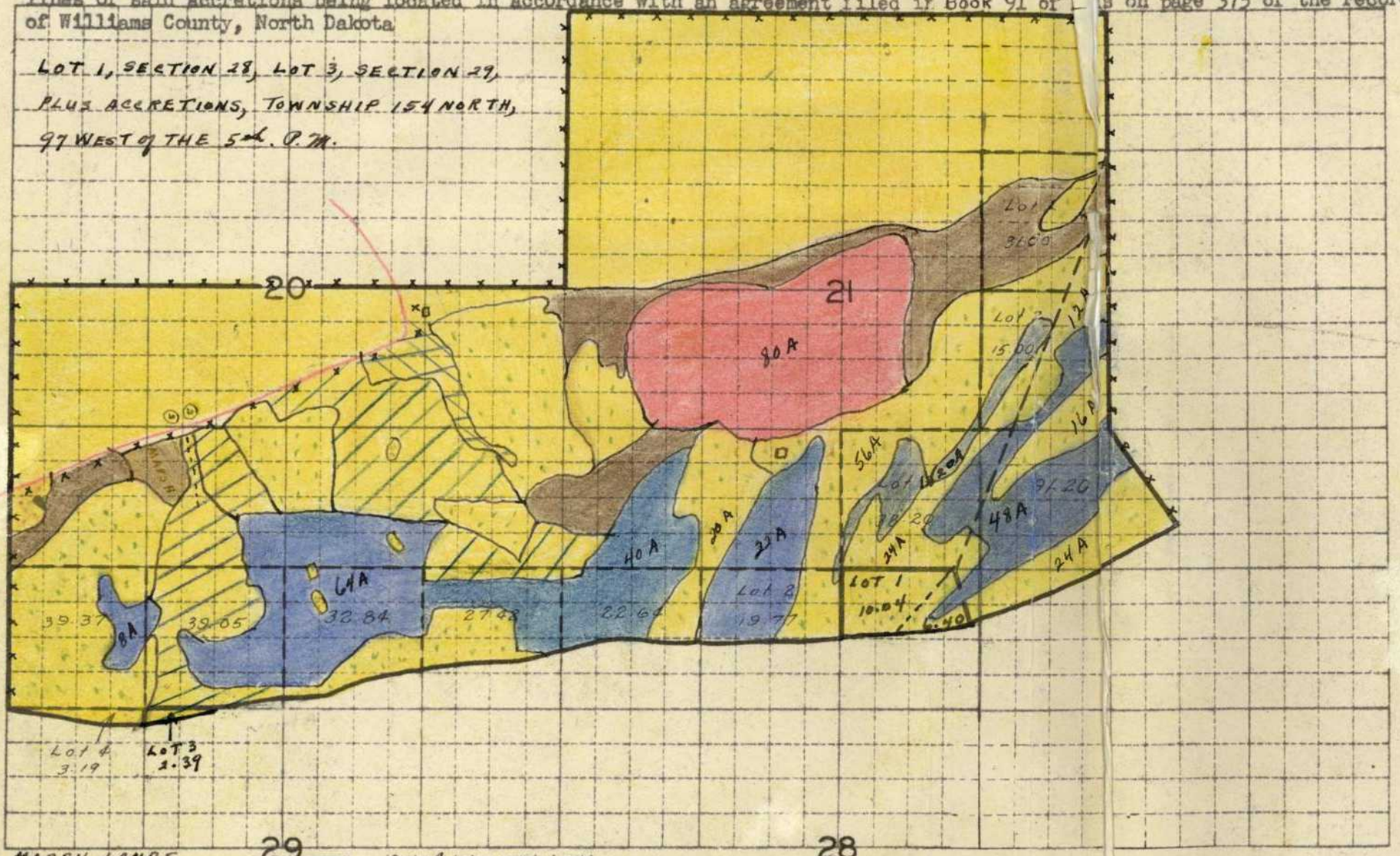
ENG FORM 999
JAN 46

TRACT MAP (WITH GRID)

Project symbol No. Garrison Dam - Reservoir Tract No. Z-2314
Name of owner Clarence H. Parker
Field work by Mary Jackson Date 19 September 1951
Description of tract State - North Dakota County - Williams

Lots 1, 2 and 3, North half of the Northeast quarter ($N\frac{1}{2}NE\frac{1}{4}$), Southwest quarter of the North[east] quarter ($SW\frac{1}{4}NE\frac{1}{4}$), Northwest quarter of the Southeast quarter ($NW\frac{1}{4}SE\frac{1}{4}$), Southwest quarter ($SW\frac{1}{4}$), Northwest quar[ter] ($NW\frac{1}{4}$) of Section 21, Southeast quarter ($SE\frac{1}{4}$), Southwest quarter ($SW\frac{1}{4}$) of Section 20, North half of the Northeast [quarter] ($N\frac{1}{2}NE\frac{1}{4}$), North half of the Northwest quarter ($N\frac{1}{2}NW\frac{1}{4}$), Lot 4 of Section 29, Lot 2, Northwest quarter of the [northwest quarter] ($NW\frac{1}{4}NW\frac{1}{4}$) of Section 28 in Township 154 North, Range 97 West of the 5th P.M., plus accretions. The [Northeasterly] and Southeasterly boundary lines of said accretions being located in accordance with an agreement filed in Book 91 of [Deeds] on page 375 of the records of Williams County, North Dakota

LOT 1, SECTION 28, LOT 3, SECTION 29, PLUS ACCRETIONS, TOWNSHIP 154 NORTH, 97 WEST OF THE 5th P.M.



MARSH LANDS
WATER

CLASSES OF LAND

Crop land
Pasture land
Forest land
*TILLABLE LAND-BRUSHED
GRASS LAND-TILLABLE

Grades of each class of land must be shown on the map proper.
* Name of any other class of land involved.

(Scale: 4 inches equals 1 mile)

I certify that this is an accurate map of Tract Z-2314 based on G.L.O. Reds and Survey & Deed Desc., which shows this tract to contain 1160.26 1179.11 acres, more or less

Name Mary Jackson
Title Cartographic Draftsman
Date 19 September 1951

Indicate whether map is based on General Land Office records, aerial survey, deed description or actual survey.

ENG FORM 1 JAN 48 998

TRACT MAP (WITH GRID)

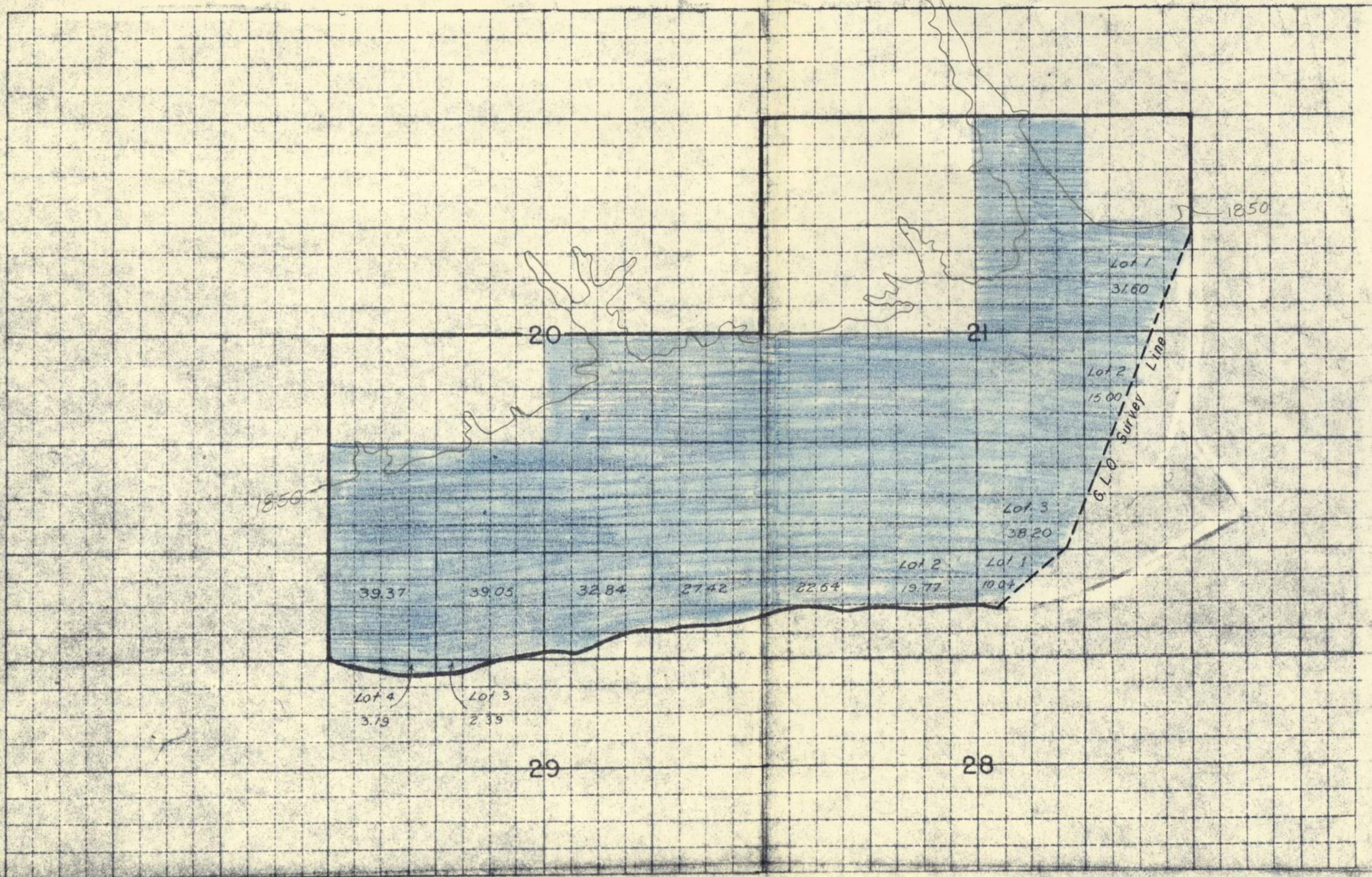
Project symbol No. Garrison Dam - Reservoir Area — Tract No. Z-2314

Name of owner Ruth Parker

Field work by Mary Jackson — Date 19 SEPT 1951

Description of tract State - North Dakota County - Williams

Lots 1, 2 and 3, North half of the Northeast quarter (N½NE¼), Southwest quarter of the Northeast quarter (SW¼NE¼), Northwest quarter of the Southeast quarter (NW¼SE¼), Southwest quarter (SW¼), Northwest quarter (NW¼) of Section 21, Southeast quarter (SE¼), Southwest quarter (SW¼) of Section 20, Lots 3 and 4 and those portions of the North half of the Northeast quarter (N½NE¼) and the North half of the Northwest quarter (N½NW¼) lying North of the Missouri River, Section 29, Lots 1 and 2 and that portion of the Northwest quarter of the Northwest quarter lying North of the Missouri River, Section 28, Township 154 North, Range 97 West of the 5th P.M.



(Scale 4 inches equals 1 mile)

CLASSES OF LAND

Crop land ☐
Pasture land ☐
Forest land ☐
* ☐

Grades of each class of land must be shown on the map proper.

* Name of any other class of land involved

I certify that this is an accurate map of Tract Z-2314 based on Survey, Dead Des. & G.L.O. Rods., which shows this tract to contain 1081.51 acres, more or less

Name Mary Jackson

Title Cartographic Draftsman (Revised 22 Oct 51)

Date 19 September 1951 (Revised 12feb53 by M.J.)

Indicate whether map is based on General Land Office records, aerial survey, deed description or actual survey.

25 M/A

1 9/10 ? woods

APPRAISAL REPORT

REVISED APPRAISAL

PROJECT Garrison Dam and Reservoir, North Dakota

TRACT Z-2314

STATE	COUNTY	CITY, DISTRICT, OR TOWNSHIP
North Dakota	Williams	Twp. 154 N., Rge. 97 W.

PROPERTY OF Ruth Parker
Clarence H. Parker, husband

ADDRESS Minot, North Dakota

LAND DESCRIPTION

Lots 1, 2 and 3, North half of the Northeast quarter ($N\frac{1}{2}NE\frac{1}{4}$), Southwest quarter of the Northeast quarter ($SW\frac{1}{4}NE\frac{1}{4}$), Northwest quarter of the Southeast quarter ($NW\frac{1}{4}SE\frac{1}{4}$), Southwest quarter ($SW\frac{1}{4}$), Northwest quarter ($NW\frac{1}{4}$) of Section 21, Southeast quarter ($SE\frac{1}{4}$), Southwest quarter ($SW\frac{1}{4}$), of Section 20, North half of the Northeast quarter ($N\frac{1}{2}NE\frac{1}{4}$), North half of the Northwest quarter ($N\frac{1}{2}NW\frac{1}{4}$), Lot 4 of Section 29, Lot 2, Northwest quarter of the Northwest quarter ($NW\frac{1}{4}NW\frac{1}{4}$) of Section 28 in Township 154 North, Range 97 West of the 5th P.M., Lot 1, Section 28, Lot 3, Section 29, Township 154 North, Range 97 West of the 5th P.M.

Entire Ownership	5,401.51
Area Taken	1,081.51
Remainder	4,320.00

2/17/53
blv

AREA (Acres)	APPRAISAL VALUATION	
	TOTAL PRESENT MARKET VALUE	VALUE OF GROWING CROPS: SEVERANCE DAMAGES $
1,081.51	$38,000.00 Including Severance	

I CERTIFY THAT I HAVE CAREFULLY EXAMINED THE ABOVE DESCRIBED PREMISES AND THE AMOUNT INDICATED REPRESENTS MY BEST UNBIASED JUDGMENT AS TO THE PRESENT MARKET VALUE OF THE FEE SIMPLE TITLE THERETO, EXCEPT AS OTHERWISE INDICATED. I DO FURTHER CERTIFY THAT I HAVE NO PRESENT OR INTENDED FUTURE INTEREST THEREIN.

CBV

DATE Revised 2/13/53
October 11-16, 1951

APPRAISER C B Vogen

APPROVED BY (Name and Title) Victor Lundeen, Chief, Appraisal Branch

3/5/53

ENG FORM 241
1 Jan 46

Incl #2 6-1

Army-CE-Omaha, Nebr.

LOCATION, NEIGHBORHOOD, ETC.

See Attached Sheet

CHARACTER, TOPOGRAPHY AND ADAPTABILITY

See Attached Sheet

ASSESSED VALUE

YEAR	ACRES	LAND	IMPROVEMENTS	OTHER	TOTAL
1948	1179.11	$ 5514.00	$	$	$5514.00

REMARKS RELATIVE TO ASSESSED VALUE

Investigations disclosed that the assessed valuations bear no relationship to the present price of lands in this area.

VALUATION OF LAND

PRESENT USE	TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
Valuation of 1,081.51 acres being acquired.				$	$
Cropland (bottom)	Havre silty clay loam	Nearly Level	112.00	55.00	6,160.00
Cropland (bottom)	Banks clay and fine sandy loam	Nearly Level	52.00	45.00	2,340.00
Brushland (cleared bottom)	Havre silty clay loam	Nearly Level	110.00	45.00	4,950.00
Timberland (bottom)	Havre silty clay loam	Nearly Level	173.00	30.00	5,190.00
Timberland (bottom)	Banks clay and fine sandy loam	Nearly Level	94.40	20.00	1,888.00
Hayland (tillable bottom)	Havre silty clay loam	Nearly Level	30.00	45.00	1,350.00
Marshland and sloughs	Heavy clay	Nearly Level	180.00	5.00	900.00
Pasture (upland)	Bainville clay loam	Steeply rolling to roughly broken	330.11	6.00	1,980.66
			1,081.51	TOTAL	$ 24,758.66

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
Cattle Shed	56x100x9	Frame	Straw & Poles	None	Fair	$ 1,500.00	$ 150.00
Cattle Shed	16x48x7	Frame	C.Shgl. & metal	None	Poor	300.00	25.00
Horse Barn	18x27x7	Frame	Board	None	Poor	75.00	15.00
Shed	10x14x6/8	Frame	R.Roofing	None	Poor	50.00	10.00
Addition	10x16x8	Frame	"	"	"		
House (log)	13x22x8	Log	C.Shgl.	None	V. Poor	None	None
Lean	11x22x6/8	Frame	" "				
Garage	Dug-out		Straw	None	V.Poor	None	None
House (cook)	9x20x6	Frame	R.Roofing	None	Good	300.00	100.00
					TOTAL*	$ 2,225.00	$ 300.00

* Estimated contribution improvements to appraised market value of the property as a whole.

ENG FORM 1 Jan 46 241 (Con't) Total value of land and improvements $27,000.00

.ES AND OFFERS OF SALE OF NEARBY PROPE

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE

COMPARISON OF ABOVE WITH PROPERTY APPRAISED

GROWING CROPS

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$

APPRAISAL OF TIMBER, MINERALS, ETC.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)*

VALUATION OF LAND

PRESENT USE	TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
Valuation of entire unit	before taking - 5,401.51 Acres.			$	$
Cropland (upland)	Silty Clay Loam	Gently Rolling	180.00	35.00	6,300.00
Cropland (bottom)	Havre Silty Clay Loam	Nearly Level	112.00	55.00	6,160.00
Cropland (bottom)	Banks clay and fine sandy loam	Nearly Level	52.00	45.00	2,340.00
Brushland(cleared bottom)	Havre silty clay loam	Nearly Level	110.00	45.00	4,950.00
Timberland (bottom)	Havre silty Clay loam	Nearly Level	173.00	30.00	5,190.00
Timberland (bottom)	Banks clay & fine sandy loam	Nearly Level	94.40	20.00	1,888.00
Hayland (tillable bottom)	Havre silty clay loam	Nearly Level	30.00	45.00	1,350.00
Marsh land & sloughs	Heavy clay	Nearly Level	180.00	5.00	900.00
Grazing Land (upland)	Clay Loam	G.to S. Rolling	4,140.00	12.50	51,750.00
Grazing land (upland)	Bainville Clay loam	Steeply Rolling to roughly broken	330.11	6.00	1,980.66
			5,401.51	TOTAL	$ 82,808.66

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
House	28x30x8	Frame	C.Shgl.	Concrete	Good	$ 5,000.00	$
Addition(Porch)	8x12x8	Frame	"	"	"		
Addition(Porch)	7x8x8	Frame	"	"	"		
Barn	36x64x14	Frame Hip	C.Shgl.	"	"	8,000.00	
Lean	16x64x8/14	Frame	"				
Lean	16x64x8/14	Frame	"				
Cattle Shed	31x56x8	Frame	R.Roofing	None	Fair	1,000.00	
Calf Barn	18x38x7	Frame	C.Shgl.	None	Fair	600.00	
Bunk House	16x18x8	Frame	C.Shgl.	Concrete	Good	500.00	
Granary	14x14x7	Frame	C.Shgl.	Concrete	Good	300.00	
Storage House	14x18x7	Log	C.Shgl.	None	Poor	100.00	
Steel grain bin	1,000 bu.	capacity		None	Good	150.00	
Steel grain bin	2,000 bu.	capacity		None	Good	250.00	
Cattle Shed	56x100x9	Frame	Poles & Straw	None	Fair	1,500.00	
Cattle Shed	16x48x7	Frame	Shgl. & Metal	None	Poor	300.00	
Horse Barn	18x27x7	Frame	Board	None	Poor	75.00	
Shed	10x14x48	Frame	R.Roofing	None	Poor	50.00	
Addition	10x16x8	Frame	" "	None			
Cook House	9x20x6	Frame	" "	None	Good	300.00	
					TOTAL*	$ 18,125.00	$

* *Estimated contribution improvements to appraised market value of the property as a whole.*

ENG FORM 1 Jan 46 **241** *(Con't)* Total value of land and improvements - $101,000.00 Entire Ownership

SALES AND OFFERS OF SALE OF NEARBY PROPERTY

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE

COMPARISON OF ABOVE WITH PROPERTY APPRAISED

GROWING CROPS

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$

APPRAISAL OF TIMBER, MINERALS, ETC.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)*

VALUATION OF LAND

PRESENT USE	TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
Valuation of 4,320.00 acres remaining				$	$
Cropland (upland)	Silty clay loam	Gently Rolling	180.00	30.00	5,400.00
Grazing (upland)	Clay Loam	Gently to Steeply Rolling	4,140.00	10.00	41,400.00
			4,320.00	TOTAL	$ 46,800.00

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
						$	$
House	28x30x8	Frame	C.Shgl.	Concrete	Good	5,000.00	
Addition (Open Porch)	8x12x8	Frame	"	"	"		
Addition (closed Porch)	7x8x8	Frame	"	"	"		
Barn	36x64x14	Frame	Hip roof C.Shgl.	Concrete	Good	8,000.00	
Lean	16x64x8/14	"	" "	"	"		
Lean	16x64x8/14	"	" "	"	"		
Cattle Shed	31x56x8	Frame	R.Roofing	None	Fair	1,000.00	
Calf Barn	18x38x7	Frame	C.Shgl.	None	Fair	600.00	
Bunk House	16x18x8	Frame	" "	Concrete	Good	500.00	
Granary	14x14x7	Frame	" "	Concrete	Good	300.00	
Steel grain bin	1,000 bu.	capacity	steel	None	Good	150.00	
Storage House	14x18x7	Log	C.Shgl.	None	Poor	100.00	
Steel grain bin	2,000 bu.	capacity	steel	None	Good	250.00	
					TOTAL*	$ 15,900.00	$

* *Estimated contribution improvements to appraised market value of the property as a whole.*

ENG FORM 1 Jan 46 **241** *(Con't)* Total Value of Land and Improvements - $63,000.00

[redacted]LES AND OFFERS OF SALE OF NEARBY PROPE[redacted]

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE

COMPARISON OF ABOVE WITH PROPERTY APPRAISED

GROWING CROPS

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$

APPRAISAL OF TIMBER, MINERALS, ETC.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)*

Location, Neighborhood, Etc.:

This tract is located 16 miles Southeast from Wheelock, population 220, 22 miles East from Williston, population 10,000, 1½ miles from a rural school, 1½ miles from a graded and gravelled mail route road, on a primitive trail road and in a sparsely settled community of mixed nationalities.

Rural schools are situated throughout the area and R.F.D. routes serve farms and ranches. The area is characterized by both large and small farms and by a few ranches which include a thousand or more acres of grazing land together with extensive acreages of bottom cropland. The economy of the area combines the raising of cereal grain and flax with production of above average grade beef cattle. Farms are operated with tractor drawn power equipment. With a few exceptions, most sets of building improvements are below average and not indicative of the development or present prosperity of the area.

Lands of the area range from low level bottomlands of the Missouri flood plain to steeply rolling and rough uplands and level plateaus at an elevation of 175 to 250 feet above the flood plain. Soils of the flood plain vary in texture from fine sandy loams to silty clay loams of variable fertility and productive capacity. Soils ot eh uplands are mostly clay loams of variable texture utilized primarily for hay and pasture. The most desirable lands of the flood plain are usually utilized for alfalfa and cash grains, while poorly drained lands, valley slopes and the uplands are used for feed crops, hay and grazing.

Dry farming, which incorporates summer fallow practice, is most common. Yields are variable but have been excellent during the past 11 years. Average carrying capacity of grazing lands is about 2.5 acres per a.u. month. Farm tenancy is about 20 per cent and the usual terms are 1/4 crop delivered plus cash rental for improvements and pasture. Average rainfall is about 15 inches, of which the major portion falls during the 4½ month growing season. Cold winters, with snow and blizzards are not uncommon. Drought is a major hazard in crop production, but recent years have been favorable to crops.

General Description of Entire Unit:

The farm unit comprises 5,401.51 acres of which 1,081.51 acres are being acquired. It is located in a good although sparsely settled community. Several large farm units are located in this community. It is 1½ miles from a good graded and gravelled mail route road located along the Missouri River Valley between Sanish and Williston, North Dakota. R.E.A. and telephone service have not been made available due to the establishment of the Garrison Dam and Reservoir Project just prior to the period when these services were intended to become available for this community.

The unit is well balanced and its best use is a combination grain and livestock farm. It is in two parts, about two miles apart. One part - 1,081.51 acres being acquired - is situated on and along the river bottom. It consists of a small set of buildings, about 850 acres of bottomland, including 164 acres of

cropland, 110 acres of cleared brushland, 267.40 acres of timber grazing land, 30 acres of tillable grassland, 180 acres of marsh and slough land and about 330.11 acres of upland pasture land. The other part - 4,320 acres, none of which is being acquired - consists of a large set of buildings, 180 acres of upland cropland and 4,140 acres upland fenced pasture land. Good water is available from springs and wells on both parts of the unit.

Although not contiguous, the two parts form a very good operative unit. The larger part is the summer range and general headquarters. It is completely fenced, has an ample supply of good water from several wells located springs and has a set of good buildings, including barns and feeding sheds which are used for housing the dairy cows and several bulls. The smaller part is the feed producer and winter quarters for the young stock and beef cattle. Tame hay, including alfalfa and sweet clover, wild hay and cereal grains are produced on this part during the summer season and in the fall when these products have been harvested the livestock is moved to this part for the winter season. Wooded areas on this part afford excellent shelter and feeding lots and an ample supply of water is available from shallow wells and the feeding areas.

Class of Land, Soils, Topography and Adaptability:

This classification embraces the portion to be acquired. It consists of various classes of land types and soils, ranging from river bottom lands with heavy clay loam to light sandy soils, steeply rolling and roughly broken uplands with heavy to medium heavy soils.

The unit consists of 112 acres of bottom croplands with an almost level topography, ample drainage, silty clay loam soil and a clay subsoil, 52 acres of bottom croplands with an almost level topography, ample drainage, fine sandy clay loam soil and a fine sandy clay subsoil, 110 acres of cleared bottom brushland with a nearly level topography, silty clay loam soil and a clay subsoil, 173 acres of bottom timber-grazing land with a nearly level topography, silty clay loam soil and a clay subsoil, 94.40 acres of bottom timber-grazing land with a nearly level topography, fine sandy clay loam soil and a fine sandy clay subsoil 30 acres of tillable bottom hayland with a nearly level topography, silty clay loam soil and a clay subsoil, 180 acres of marsh and slough lands and 330.11 of steeply rolling and roughly broken upland pasture land.

The 110 acre cleared brush area can be put to grain cropping or alfalfa production at an estimated cost of not to exceed $10.00 per acre. The 173 acre timber-grazing area supports a few cottonwood trees suitable for timber, has large open areas and can be cleared and put to grain cropping or alfalfa production at an estimated cost of not to exceed $20.00 per acre. The 94.40 acre timber grazing area supports a few cottonwood trees suitable for lumber, has large open areas and can be cleared and put to grain cropping or alfalfa production at an estimated cost of not to exceed $25.00 per acre. The 30 acre grassland is suitable for grain cropping and alfalfa. The 180 acre marsh and slough area is interspersed with grass areas and supports a good stand of grass on those areas as well as along the

perimeter. About half of the total area is productive. The 330.11 acre pasture area has a steeply rolling to roughly broken topography, is completely fenced, has available water from springs in the coulees and supports a good stand of grass in the coulees and on the more gently rolling areas. About 60 per cent of this area has a good grass production.

Description of Buildings:

The buildings on this tract are of little value, but they are appropriate and adequate. The wooded areas afford good shelter and feeding lots. The existing cattle sheds are ample for the protection of the cattle during stormy periods.

Valuation Summary

Valuation of entire 5,401.51 acres before acquiring		$101,000.00
Valuation of 1,081.51 acres being acquired	$27,000.00	
Valuation of 4,320.00 acres remaining	63,000.00	90,000.00
Severance Damage		$ 11,000.00

Effect of Partial Taking on Remainder:

The remainder, 4,320 acres, is a compact area which can make a valuable contribution of livestock income when utilized in a balanced unit relationship of croplands and grazing lands, but it is not an area completely adapted to an independent use and it does not possess the qualities which warrant a unit development and improvement program. Its highest and best use is for the grazing of livestock in connection with other lands which can produce and provide alfalfa, feed grains, wooded winter shelter and feed lots.

The ownership of 5,401.51 acres combines diverse land types, classes and land capabilities in a well balanced unit relationship. The taking of 1,081.51 acres severs and destroys this relationship. The remainder, 4,320 acres, therefore, becomes reduced to the same category of value as undeveloped grazing lands which have no unit attachment.

Sales and Offers of Sale of Nearby Properties:

It is difficult to find a sale of comparable property in this area. In appraisal of the subject property it has, therefore, been necessary for the appraisers to draw upon their experience in appraising other lands and to employ several sales which are comparable to the component parts which make up the lands of the referenced ownership, the portion being acquired and the area remaining. The following sales are offered for consideration as comparable properties.

Sale No. 1 - Compared with entire ownership

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
Peter Buchli	Conally and Lorass	1949	Information from Grantee		8,160	$122,400.00	$15.00

This is a property with a large acreage and appropriate improvements for livestock operation. It is well fenced and has a good water supply. The cultivated acreage for producing feed crops is upland with a rolling topography and is not comparable to the bottom croplands in the subject tract in productivity and dependability. The grazing acreages and other factors are fairly comparable. Consideration has been given to the general increase in values of farm and ranch properties since the date of this sale. It is believed that if this property were offered for sale at this time it would command a price of $20.00 per acre.

Sale No. 2 - Compared with entire ownership

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
Clarence & Paul Krogh	Ralph and D.A. Murray	May 1948	Information from Grantee		3,040	$57,000.00	$18.75

This property with appropriate and desirable improvements is utilized for livestock production. It is nearly all upland, but includes some creek bottom, hayland and about 200 acres of cropland. Buildings on this property and on the subject property appraised are fairly comparable, but the cropland is a minor part of the whole and grazing lands are not as productive or dependable as those of the subject property appraised. It is not conveniently located in relation to schools, churches, or market. No portion of its area appears adaptable to irrigation. Consideration has been given to the increase in land values since the date of this sale.

Sale No. 3 - Compared with portion taken

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
Edward Golberg Estate	J. Ernest Johnson	8/15/51	288	398	320	$20,500.00	$64.06

The sale of this property which consists of approximately 300 acres of good upland cropland and good farm buildings is evidence of the current market value of productive croplands. Croplands on the subject tract appraised are, however, believed to be equally productive and of greater adaptability and dependability. No portion of the above property is irrigated or potentially irrigable.

Sale No. 4 - Compared with portion taken

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
Gilbert Yttredahl	Woodrow Sveen	3/28/49	94	539	160	$6,700.00	$41.87

This is a tract which includes approximately 150 acres of bottom cropland. It has no improvements and is located about 25 miles from market. The soil types and productive capacity compare favorably with the cultivated cropland acreage of the subject tract appraised. Consideration has been given to the increase in land values since date of this sale.

Sale No. 5 - Compared with area remaining

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
Roscoe Hedden	Leroy Perry	9/12/49	288	83	3,757	$22,560.00	$6.00

At the time of this sale this was unimproved grazing land without buildings, fencing or adequate development. This property and the subject property are similar in its soil types, topography and adaptability, but the value of the improvements, including fences, on the subject tract is considerable greater and not comparable. Consideration has been given to the increase in land values since date of this sale.

Sale No. 6 - Compared with area remaining

Grantor	Grantee	Date	Book	Page	Acres	Consideration	Price Per Acre
George Hedges	E. S. Kreuger	11/7/50	297	389	1,600	$14,000.00	$8.75

At time of sale this property consisted of a poor set of buildings and 300 acres of mediocre upland cropland. Balances were undeveloped upland grazing land similar in type and productive capacity to the upland acreage of the remaining of the subject ownership appraised. Consideration has been given to the increase in land values since date of this sale.

Timber, Minerals, Etc.:

Investigations disclosed no merchantable timber. There are, however, a few cottonwood trees, suitable for lumber, scattered over a 325 acre area. The estimated value of this timber has been included in the value per acre for the land type. The owner leased the gas and oil rights, covering this unit, to the Dakota Montana Oil Company in September 1951 for a rental of $1.00 per acre. The lease is for a period of 10 years with the provision that a well be drilled within one year and with a yearly termination provision for non-payment of rental.

No consideration was given in this appraisal to the value of these rights inasmuch as it is anticipated that the fee simple title to this tract will be acquired, reserving gas and oil rights to the owners thereof. No evidence was found to indicate any commercial deposits of merchantable minerals on this tract.

Conclusion:

In making this appraisal the following factors were taken into consideration: Location, neighborhood, roads, schools, soils, present conditions, condition of farm, sales of comparable properties, potential and best use of farm unit, rentability, saleability and desirability.

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. Z-2314 Twp. 154, Rge. 97
(Tract Map Attached)

Name of Owner (Surface) Ruth Parker Acres 1,081.51

Acres which can be drilled out from ~~off~~shore locations by vertical drilling methods under 40 acre spacing pattern 280 on .

Acres which ~~can~~ cannot be drilled out from ~~off~~shore locations by vertical drilling methods under 40 acre spacing pattern 801.51 on .

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of Impairment
280	$ 25.00	$ 7,000.00	10%	$ 700.00
801.51	25.00	20,037.75	20%	4,007.75
				4707.75

X see map

Recommended Compensation for Impairment of Royalty Interest - - - - $4,707.75

B. Impairment of Leasehold Interest in Gas and Oil Rights:

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - - $

C. Total of Impairment: Royalty and Leasehold - - - - - $

Remarks: Basic recommendations relating to determination of impairment from C. V. Sidwell report to Garrison District dated 30 March 1955 titled "Analysis Report and Recommendations Concerning Impairment in Value Resulting from Subordination of Oil and Gas Interests."

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 7 August 1953

Date of Report 9 February 1956

Victor Lundeen
VICTOR LUNDEEN
Appraiser

MRG FORM 230 23 MAR 55(Tentative)

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. Z-2314 — Twp. 154, Rge. 97 (Tract Map Attached)

Name of Owner (Surface) Ruth Parker — Acres 1,081.51

Acres which can be drilled out from ~~off~~ on shore locations by vertical drilling methods under 40 acre spacing pattern 280.

Acres which cannot be drilled out from ~~off~~ on shore locations by vertical drilling methods under 40 acre spacing pattern 801.51.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of Impairment
280	$ 25.00	$ 7,000.00	10%	$ 700.00
801.51	25.00	20,037.75	20%	4,007.75

Recommended Compensation for Impairment of Royalty Interest - - - - $4,707.75

B. Impairment of Leasehold Interest in Gas and Oil Rights:

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - - $_____

C. Total of Impairment: Royalty and Leasehold - - - - - $_____

Remarks: Basic recommendations relating to determination of impairment from C. V. Sidwell report to Garrison District dated 30 March 1955 titled "Analysis Report and Recommendations Concerning Impairment in Value Resulting from Subordination of Oil and Gas Interests."

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 7 August 1953

Date of Report 9 February 1956

Victor Lundeen
VICTOR LUNDEEN
Appraiser

MRG FORM 230 23 MAR 55(Tentative)

File in Z-2314 & Z-2315

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. Z-2315 Part (Disputed accretions to Z-2314) Twp.____, Rge____
(Tract Map Attached)

Name of Owner (Surface)_____ Acres 97.60

Acres which can be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern_____.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 97.60.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of impairment
97.60	$ 25.00	$	20%	$ 488.00

Recommended Compensation for Impairment of Royalty Interest - - $ 488.00

B. Impairment of Leasehold Interest in Gas and Oil Rights

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - $_____

C. Total of Impairment: Royalty and Leasehold - - $_____

Remarks: Basic recommendations relating to determination of impairment from C. V. Sidwell report to Garrison District dated 30 March 1955 titled "Analysis Report and Recommendations Concerning Impairment in Value Resulting from Subordination of Oil and Gas Interests."

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 7 August 1953

Date of Report 29 June 1956

VICTOR LUNDEEN
Appraiser

MRG FORM 230 23 Jan 55 (Tentative)

File in Z-2314 & Z-2315

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. Z-2315 Part (Disputed accretions to Z-2314) Twp._____, Rge____
(Tract Map Attached)
Name of Owner (Surface)_____ Acres 97.60

Acres which can be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern_____.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 97.60.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of impairment
97.60	$ 25.00	$	20%	$ 488.00

Recommended Compensation for Impairment of Royalty Interest - - $ 488.00

B. Impairment of Leasehold Interest in Gas and Oil Rights

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - $_____

C. Total of Impairment: Royalty and Leasehold - - $_____

Remarks: Basic recommendations relating to determination of impairment from C. V. Sidwell report to Garrison District dated 30 March 1955 titled "Analysis Report and Recommendations Concerning Impairment in Value Resulting from Subordination of Oil and Gas Interests."

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 7 August 1953

Date of Report 29 June 1956

Victor Lundeen
VICTOR LUNDEEN
Appraiser

MRG FORM 230 23 Jan 55 (Tentative)

Disputed Accretions
Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. Z-2315 (Part) Twp._____, Rge____
(Tract Map Attached)

Name of Owner (Surface) Ruth Parker (Purported Owner) Acres 97.60

Acres which ~~can be drilled~~ out from onshore locations by vertical drilling methods under 40 acre spacing pattern_____.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 97.60.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value	Total Mineral Acre Value	Est. % of Impairment	Total Amount of impairment
97.60	$ 25.00	$ -	20%	$ 488.00

Recommended Compensation for Impairment of Royalty Interest - - $ 488.00

B. Impairment of Leasehold Interest in Gas and Oil Rights

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest - - $_____

C. Total of Impairment: Royalty and Leasehold - - $_____

Remarks: **Basic recommendations relating to determination of impairment from C. V. Sidwell report to Garrison District dated 30 March 1955 titled "Analysis Report and Recommendations Concerning Impairment in Value Resulting from Subordination of Oil and Gas Interests".**

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 1 November 1956

Date of Report 20 November 1956

Victor Lundeen
VICTOR LUNDEEN
Appraiser

MRG FORM 230 23 Jan 55 (Tentative)

Files 29 June 1956

Chief, Appraisal Branch

Settlement of Interests Claimed - Tract Z-2314 and Part Z-2315
(Disputed accretions)

It is my recommendation that in negotiations to effect settlement for interests claimed by defendant landowner, Ruth Parker, in the subject tracts, the appraisals dated 11 October 1951 and 13 February 1953 be referred to for the Corps estimate of market value. It may be noted that the difference in the appraised amounts is a sum of $3,000, which represents the appraised value of the disputed accretions (Z-2315 Part).

Inasmuch as the defendant landowner in previous negotiations for option was apprised of the appraised values, it is assumed that demands in settlement will relate a percentage increase to these amounts. Therefore, in discussion and considerations for purposes of effecting contingent settlement with respect to accretions, it is suggested that the amount of $3,000 above mentioned be indicated as the market value of the accretions at the time of taking of the parent tract. Separate appraisal is provided with respect to impairment of oil and gas rights.

Victor Lundeen
VICTOR LUNDEEN

VL/ps

Appraisal for Tract
EE-2831

APPRAISAL REPORT

PROJECT	Garrison Dam and Reservoir, North Dakota
TRACT	EE-2831 - 1 & 2
STATE	North Dakota
COUNTY	Williams
CITY, DISTRICT, OR TOWNSHIP	Twp 154 - Rge 100
PROPERTY OF	J. E. Sandberg) et al Faye Sandberg, wife)
ADDRESS	430 - 4th Ave West, Williston, N. Dak.

LAND DESCRIPTION

EE-2831 - 1 - Reuben Brekken, R.F.D., Williston
EE-2831 - 2 - Emil Bakken, R.F.D., Williston

Parcel No. 1 - Those portions of the East half of the Southeast quarter ($E\frac{1}{2}SE\frac{1}{4}$), Northwest quarter of the Southeast quarter ($NW\frac{1}{4}SE\frac{1}{4}$), West half of the Northeast quarter ($W\frac{1}{2}NE\frac{1}{4}$), and East half of the Northwest quarter ($E\frac{1}{2}NW\frac{1}{4}$) of Section 30, Township 154 North, Range 100 West of the 5th P.M., which lie north and ~~West~~ EAST of the Missouri River; except that portion of the Northeast quarter of the Northwest ($NE\frac{1}{4}NW\frac{1}{4}$) of said Section 30 which lies north and west of the following described line: Beginning at a point on the north line of said Section 30 which point is intersected by the center line of Stony Creek approximately 265 feet west of the north quarter corner of said Section 30, thence southwesterly, following the center line of said Stony Creek downstream, a distance of approximately 400 feet to a point where said center line is intersected by the former course of said Stony Creek; thence southwesterly along the center line of said former course of said Stony Creek to the west line of said Northeast quarter of the Northwest quarter ($NE\frac{1}{4}NW\frac{1}{4}$) of said Section 30, and there terminating.
Parcel No. 2 - Lot 2 of Section 6 in Township 153 North, Range 100 West of the 5th P.M.; South half of the Southeast quarter ($S\frac{1}{2}SE\frac{1}{4}$) of Section 31 in Township 154 North, Range 100 West of the 5th P.M.

8Dec52
ps

AREA (Acres)	APPRAISAL VALUATION	
303.50	TOTAL PRESENT MARKET VALUE $ 22,000.00	VALUE OF GROWING CROPS: SEVERANCE DAMAGES $ None

I CERTIFY THAT I HAVE CAREFULLY EXAMINED THE ABOVE DESCRIBED PREMISES AND THE AMOUNT INDICATED REPRESENTS MY BEST UNBIASED JUDGMENT AS TO THE PRESENT MARKET VALUE OF THE FEE SIMPLE TITLE THERETO, EXCEPT AS OTHERWISE INDICATED. I DO FURTHER CERTIFY THAT I HAVE NO PRESENT OR INTENDED FUTURE INTEREST THEREIN.

RHP

DATE 6/23/52

APPRAISER (12/1/52) Rolls H. Piper

APPROVED BY (Name and Title) Victor Lundeen Chief, Appraisal Branch

ENG FORM 241
1 Jan 46

1-13-53

Army-CE-Omaha, Nebr.

LOCATION, NEIGHBORHOOD, ETC. Sub t tracts are located within 3 es of Williston, county seat of Williams County, a town approximately 8,000 populatior d good job potential and stable market point. This is a well developed community served by conveniences such as R.E.A., rural telephone and good all-weather roads. The buildings in this community for the most part are well kept and modernized.

This area is comprised of about 1/3 subsistence farms and the balance small farm units. Consequently, the economy is primarily small grain and forage production along with a few subsistence cattle. Some alfalfa is grown, however, most of the forage is derived from native or seeded tame grass areas. The topography of the area ranges from level bottomlands to gently rolling benches which bound the Missouri River flood plain. The bottomland soils range from silty clay loams to clay loams of heavy texture and the condition of the soil is good. Soils of the uplands are predominantly silty clay loams with well drained sub-soil structures. A large block of the bottomlands in this area are subject to spring flooding from upland drainage, a community developed project. Crops during the past 10-12 years have been very good. Annual rainfall approximates 15" annually, with the bulk of the rain falling during the 4½ month growing period. Drought, although somewhat lessened by spring flooding practice, still constitutes the chief hazard to both crop and livestock production.

CHARACTER, TOPOGRAPHY AND ADAPTABILITY Subject tract consists of 2 non-contiguous parcels of cropland owned but not operated by J. E. Sandberg of Williston. One tract of land is located 2 miles Southeast of Williston and the other tract is located 3 miles Southeast of Williston. Both tracts on a good all weather road and within a mile of a rural school. The tract nearest town consists of 183.50 acres which is subject to river erosion and is in part cut by the meander of Stony Creek. 113 acres of this tract is in one field which has a good silty clay loam soil with nearly level topography and has good crop production potential. A 40 acre field has same type of soil and production potential, however, it is split up into small pieces and does not lend itself to as efficient an operation as above portion of tract. 30 acres consists of the former course of Stony Creek. For the most part, it is dry, and affords a good crop of hay. It could be tilled, however, it is wet in the spring and work is delayed. A small 5-6 acre portion of this 30 acre field is covered with small brush and hay and is tillable with a small expenditure for clearing. Water is available on this tract from Stony Creek. There is no fence or other improvements. The 120 acre tract lies in an L-shaped fashion and is all tillable except a low spot in the Southwest corner. This tract during the 30's was developed for irrigation and was irrigated by gravity from the Missouri River. This tract was a welfare board sponsored community garden and canning project. The river receded and moved away from the tract during the early 40's and since, no water is now available

ASSESSED VALUE (Contd on attached sheet)

YEAR	ACRES	LAND	IMPROVEMENTS	OTHER	TOTAL
Not available		$	$	$	$

REMARKS RELATIVE TO ASSESSED VALUE

Investigation reveals that no relationship exists as between assessed value and fair market value in this area.

EE-2831

CHARACTER, TOPOGRAPHY AND ADAPTABILITY (Contd)

no irrigation is being carried on. The ditches are still in evidence but are constructed in such a manner that they could be easily filled with a bulldozer. The soils are silty clay loams with adequate drainage and nearly level topography.

There is a granary located on this acreage for seed and surplus grain storage. Also there is a potato warehouse (pit type) which is partially caved in and has no utility at this time. Salvage poles of same have been sold by owner to a neighbor who has not at present date removed this salvage. This tract is perimeter fenced with 2 and 3 barb wire on ash posts. There is no water on this tract, however, same could readily be provided through sandpoint well.

Due to proximity of these tracts to City of Williston with its job potential the land assumes rural residence site value of slightly more than average desirability.

VALUATION OF LAND

PRESENT USE	L TYPE	TOPOGRAPHY	AREA	UNIT VALUE	TOTAL VALUE
				$	$
EE-2831 - 1					
Bottom Cropland	Silty clay loam, heavy texture	Nearly level	113.50	80.00	9080.00
Bottom Creek Hayland & Brush area	Silty clay loam	Undulating	30.00	30.00	900.00
Bottom cropland	Silty clay loam, heavy	Undulating Cut by Stony Creek meander	40.00	60.00	2400.00
EE-2831-2					
Bottom Cropland	Silty clay loam	Nearly level	115.00	80.00	9200.00
Bottom Low Grass Area Irrigation ditches etc.	Silty clay loam	Low	5	30.00	150.00
			303.50	TOTAL	$ 21730.00

VALUATION OF IMPROVEMENTS

KIND	SIZE	CONSTRUCTION	ROOF	FOUNDATION	CONDITION	PRESENT VAL.*	SALVAGE VALUE
						$	$
Granary	16x24x8	Frame	Roll roofing	Timber	Fair	250.00	30.00
Potato Cellar	Partially caved in, sold in present state to Usher Burdick						0
					TOTAL*	$ 250.00	$ 30.00

* *Estimated contribution improvements to appraised market value of the property as a whole.*

ENG FORM 241 (Con't) 1 Jan 46 Total Value - $22,000.00

ES AND OFFERS OF SALE OF NEARBY PROPERT

GRANTOR	GRANTEE	DATE	DEED BOOK	PAGE	ACRES OR AREA	ACTUAL CONSIDERATION	PRICE PER ACRE
Ester Muntz	George Cox	1/1/52	Unrecorded Cont. for Deed		40	$4500.00	$112.50
Ella Rhea	Reuben Brekken	7/3/52	103	387	160	$8000.00	50.00

COMPARISON OF ABOVE WITH PROPERTY APPRAISED 1. Subject sale is rural subsistence acreage and residence. 36 acres of silty clay loam soil cropland, balance farmstead. Buildings are adequate for operation of acreage. Located 4 miles Southeast of Williston on good all weather road which serves as R.F.D. Subject tract bounds sale No. 1 on the north side, it is superior from topographical features, however, does not have improvements. 2. An unimproved tract, surface title only, 76 acres of bench cropland, silty clay loam soil, 32 acres of bottom cropland, silty clay loam, heavy texture, with nearly level topography. 20 acres of tillable grassland, and 32 acres of tree brush and drainage course. 3½ miles

GROWING CROPS (Contd below).

TYPE	ACRES	ESTIMATED YIELD PER ACRE	UNIT VALUE	GROSS MARKET VALUE	COSTS TO MATURE, HARVEST & MARKET	NET CASH VALUE
			$	$	$	$
None						

(Contd from above) Northeast of Williston on good all-weather road. Subject tract very comparable as to soil types and topography with respect to cropland acreages. Subject tract has less non-crop area and is in part better located.

APPRAISAL OF TIMBER, MINERALS, ETC. There is no timber on this tract. No consideration has been given mineral interest in this appraisal as it is assumed same will be reserved by owner.

GENERAL REMARKS *(Discuss principal factors affecting conclusions)* Factors considered are as follows: location, access, and general production potential, market vacilities, conveniences such as R.E.A., R.F.D., road conditions, highest and best use of land involved is that of rural subsistence residence property. Desirability of this tract as such is average.

Appraisal Supplement
Impairment of Interest in Gas and Oil Rights

Tract No. EE 2831

Twp.____, Rge____
(Tract Map Attached)

Name of Owner (Surface) J E Sandberg

Acres 303.50

Acres which can be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern_____.

Acres which cannot be drilled out from onshore locations by vertical drilling methods under 40 acre spacing pattern 303.50.

A. Impairment of Royalty Interest in Gas and Oil Rights:

Acres	Mineral Acre Value $	Total Mineral Acre Value $	Est. % of Impairment	Total Amount of impairment $
303.50	20		20	1214 00

Recommended Compensation for Impairment of Royalty Interest -- $ 1200 00

B. Impairment of Leasehold Interest in Gas and Oil Rights

Acres	Impairment Per Acre $	Amount of Impairment $

Recommended Compensation for Impairment of Leasehold Interest -- $_____

C. Total of Impairment: Royalty and Leasehold -- $_____

Remarks:

See also Sidwell report of 30 June 1955
Impairment basis in this area
25% of 15% Minerals

R.

D. The amounts above indicated are believed to be the impairment which results to the value of the gas and oil interests in this tract when such interests are reserved to owners and subordinated to the Government's right to flood permanently or intermittently. The amounts determined as impairment are substantiated by the best information available and by the opinions and recommendations provided by experts following study of the impairment problem. I certify that I have no present or intended future interest in this property.

Date of Valuation 7 Apr 1953

Date of Report 31 May 1956

Victor Henderson
Appraiser

MRG FORM 230 23 Jan 55 (Tentative)

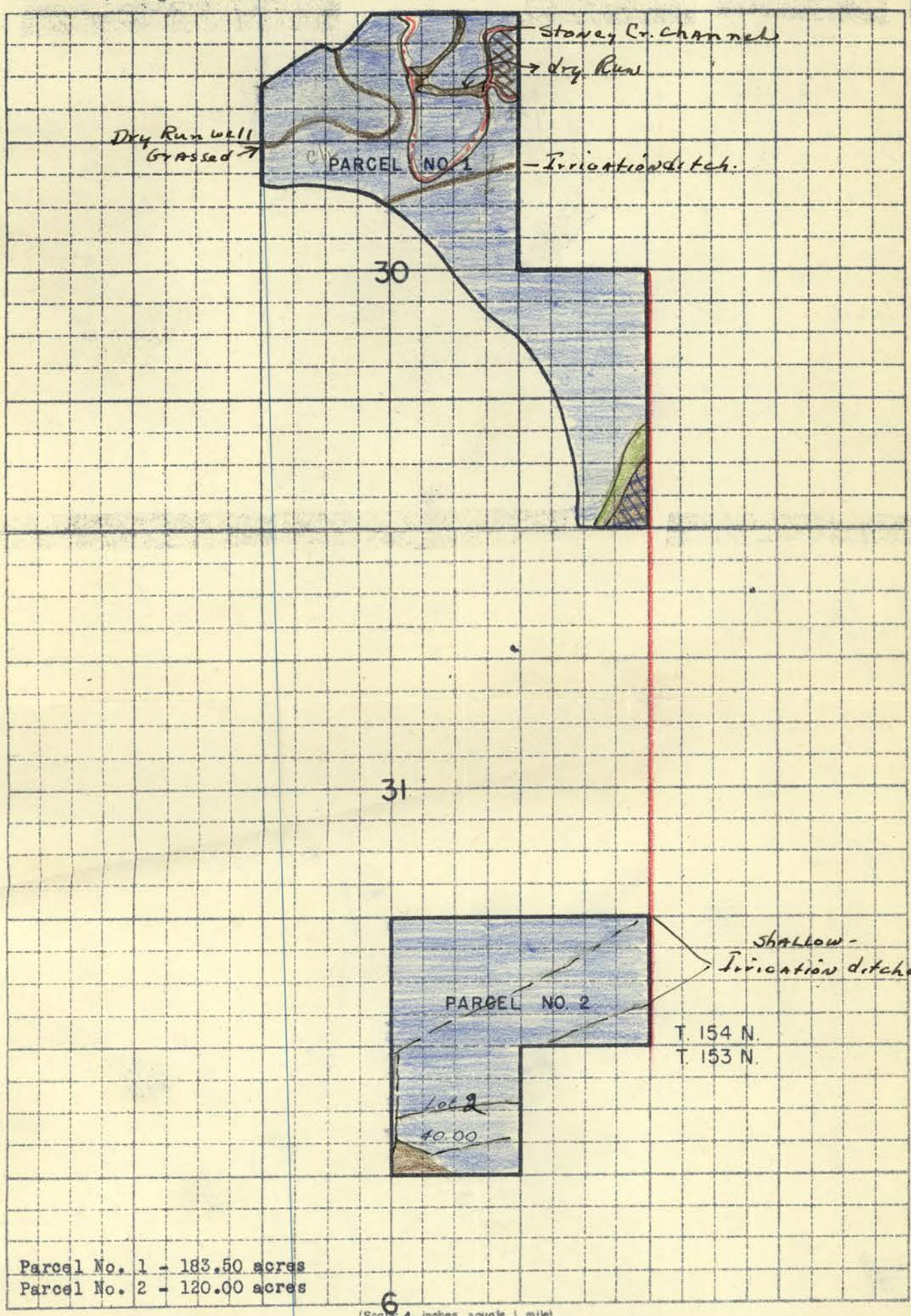
ENG FORM 999
1 JAN 46

TRACT MAP (WITH[illegible] GRID)

Project symbol No. Garrison Dam - Reservoir Area Tract No. EE-2831
Name of owner J. E. Sandberg, et ux
Field work by Mary C. Jackson Date 5 December 1952
Description of tract State - North Dakota County - Williams

Parcel No. 1 - Those portions of the East half of the Southeast quarter ($E\frac{1}{2}SE\frac{1}{4}$), Northwest quarter of the Southeast quarter ($NW\frac{1}{4}SE\frac{1}{4}$), West half of the Northeast quarter ($W\frac{1}{2}NE\frac{1}{4}$), and East half of the Northwest quarter ($E\frac{1}{2}NW\frac{1}{4}$) of Section 30, Township 154 North, Range 100 West of the 5th P.M., which lie north and ~~west~~ east of the Missouri River; except that portion of the Northeast quarter of the Northwest ($NE\frac{1}{4}NW\frac{1}{4}$) of said Section 30 which lies north and west of the following described line: Beginning at a point on the north line of said Section 30 which point is intersected by the center line of Stony Creek approximately 265 feet west of the north quarter corner of said Section 30, thence southwesterly, following the center line of said Stony Creek downstream, a distance of approximately 400 feet to a point where said center line is intersected by the former course of said Stony Creek; thence southwesterly along the center line of said former course of said Stony Creek to the west line of said Northeast quarter of the Northwest quarter ($NE\frac{1}{4}NW\frac{1}{4}$) of said Section 30, and there terminating.

Parcel No. 2 - Lot 2 of Section 6 in Township 153 North, Range 100 West of the 5th P.M.; South half of the Southeast quarter ($S\frac{1}{2}SE\frac{1}{4}$) of Section 31 in Township 154 North, Range 100 West of the 5th P.M.



Parcel No. 1 - 183.50 acres
Parcel No. 2 - 120.00 acres

(Scale: 4 inches equals 1 mile)

CLASSES OF LAND

Crop land
Pasture land
Forest land Small brush -
* Hay land - Tillable

Grades of each class of land must be shown on the map proper.
* Name of any other class of land involved.

I certify that this is an accurate map of Tract EE-2831 based on Survey, Deed Desc. & G.L.O. Rcds., which shows this tract to contain 303.50 acres, more or less.
Name Mary C. Jackson
Title Draftsman
Date 5 December 1952

Indicate whether map is based on General Land Office records, aerial survey, deed description or actual survey.

Appendix E

Flow Modeling

Technical Memo

WENCK
Responsive partner.
Exceptional outcomes.

To: 4384-0001 File

From: Joel Toso, PE (MN), Wenck Associates, Inc.
Bryce Cruey, PE (MN), Wenck Associates, Inc.
Rena Weis, EIT, Wenck Associates, Inc.

Date: January 4, 2018, revised August 21, 2018

Subject: Hydraulic Modeling of the Historic Missouri River

Introduction

The purpose of this memo is to describe hydraulic modeling efforts used to determine historic flow levels on the Missouri River from the northern boundary of the Fort Berthold Indian Reservation (approximate river mile 1484) to the southern border of sections 33 and 34, Township 153 North, Range 102 West (approximate river mile 1565), prior to the installation of Garrison Dam in 1953. This was done using a hydraulic model and historical data. The results of the model will be used to identify potential areas of frequent inundation and assist in determining the ordinary high water mark (OHWM).

Data Gathering

To perform this analysis, historical data collected from the North Dakota Department of Mineral Resources (DMR), the U.S. Geological Survey (USGS), and the U.S. Army Corps of Engineers (USACE). A list of the data used to develop the hydraulic model is provided in Table 1.

Table 1: Historical data used for HEC-RAS model development

Data	Source	Date
Aerial Photographs (1951)	North Dakota Department of Mineral Resources	1951
Cross Section Location Map	USACE - Omaha District	Pre-dam, undated
Garrison - Lake Sakakawea DSS Cross Sections	USACE - Omaha District	Pre-Dam, undated
Historical Peak Flow Data at USGS Gauge Station 06330000, Missouri River NR Williston, ND	USGS	1929-1965

Model Development

The Hydraulic Engineer Center's River Analysis System (HEC-RAS), a software platform developed and maintained by the USACE, was selected to develop a hydraulic model of the Missouri River.

Channel and Overbank Geometry
The USACE provided a file containing 19 available historic cross sections for the study reach. Cross section coordinates were copied from the USACE file to the HEC-RAS model. Some cross sections had duplicate points and/or more than 500 data points. These conditions trigger an error in HEC-RAS, so the built-in filtering tool was used to alleviate the issue.

Downstream reach lengths were measured in GIS along the centerline of the Missouri River channel from the 1951 aerial imagery.

The left and right overbank (LOB and ROB) stations were determined by measuring the river width on the aerial photographs and selecting points from the cross section data that would create a channel with a similar width. In addition to the channel width, the vertical geometry of the cross sections was considered, so the LOB and ROB stationing would occur at natural elevation breaks in the cross section.

Contraction and expansion coefficients were designated as 0.1 and 0.3, respectively.

Manning's Roughness Coefficient
Manning's roughness coefficient of 0.035 was initially used for the channel section (taken from Ven Te Chow's 1959 Open-Channel Hydraulics, pg 120, item 15). A coefficient of 0.04 was used for overbank flow areas. The Chow reference also shows Manning's roughness can be as low as 0.03 for channels (see Table 5-6, pg 112 and 113, item D-1 and D-2). Both were used in the model to check the effect.

Hydrology
Peak flow data was collected from the USGS website at gage station 06330000, Missouri River NR Williston, ND, from 1929 – 1965. Although data was acquired up to 1965, to account for pre-Garrison Dam conditions, it was only analyzed from 1929-1953. A Log Pearson Type 3 Distribution was used to calculate flows corresponded with the 1.1-Year, 1.5-Year, 2-Year, and 2.5-Year probability storms in this region (Table 2).

Table 2: Peak Flow Frequency

Frequency	Flow (cfs)
1.1-Year	51000
1.5-Year	66000
2-Year	85000
2.5-Year	90000

Boundary Condition
The downstream boundary conditions was assumed to be normal depth. The downstream slope was calculated to be 0.002 ft/ft.

Model Application

Once the HEC-RAS model was constructed, a steady flow, subcritical analysis was performed using the normal depth boundary conditions. The storm events from Table 2 were analyzed to investigate a range of frequent flow events.

Model Results

Table 3 shows the results of the model analysis. Columns 4 through 6 shown the results when a Manning's n of 0.035 for the channel. Column 7 was added to demonstrate the effect of using 0.03 for the channel. Flow levels are reduced approximately one foot.

Table 3: HEC-RAS Model Results

River Station	Profile	Q Total (cfs)	Max Chl Dpth (ft)	W.S. Elev (ft)	Vel Chnl (ft/s)	W.S. Elev (ft) (n=0.03)
1668.8	1.1-YR	51000	21.47	1856.47	1.75	1855.81
1668.8	1.5-YR	66000	22.85	1857.85	1.75	1857.14
1668.8	2-YR	85000	24.34	1859.34	1.79	1858.59
1668.8	2.5-YR	90000	24.66	1859.66	1.79	1858.93
1663.9	1.1-YR	51000	17.83	1850.83	4.39	1849.82
1663.9	1.5-YR	66000	19.62	1852.62	4.82	1851.51
1663.9	2-YR	85000	21.33	1854.33	5.41	1853.28
1663.9	2.5-YR	90000	21.7	1854.7	5.57	1853.71
1661.3	1.1-YR	51000	25.21	1850.21	0.72	1849.22
1661.3	1.5-YR	66000	27.06	1852.06	0.75	1851
1661.3	2-YR	85000	28.79	1853.79	0.81	1852.84
1661.3	2.5-YR	90000	29.15	1854.15	0.83	1853.25
1659	1.1-YR	51000	21.99	1849.99	1.72	1848.98
1659	1.5-YR	66000	23.85	1851.85	1.82	1850.77
1659	2-YR	85000	25.57	1853.57	1.88	1852.62
1659	2.5-YR	90000	25.93	1853.93	1.9	1853.02
1655.8	1.1-YR	51000	21.12	1848.12	3.01	1847.03
1655.8	1.5-YR	66000	23.09	1850.09	3.27	1848.91
1655.8	2-YR	85000	25	1852.01	3.34	1850.89
1655.8	2.5-YR	90000	25.41	1852.41	3.32	1851.33
1650.3	1.1-YR	51000	24.11	1842.11	3.21	1841.21
1650.3	1.5-YR	66000	25.76	1843.76	3.68	1842.75

1650.3	2-YR	85000	27.62	1845.62	4.19	1844.47
1650.3	2.5-YR	90000	28.06	1846.06	4.32	1844.89
1646	1.1-YR	51000	23.93	1839.93	1.54	1839.05
1646	1.5-YR	66000	25.57	1841.57	1.68	1840.61
1646	2-YR	85000	27.39	1843.4	1.83	1842.32
1646	2.5-YR	90000	27.84	1843.84	1.86	1842.74
1639.5	1.1-YR	51000	22.01	1836.01	3.21	1834.91
1639.5	1.5-YR	66000	23.84	1837.84	3.44	1836.75
1639.5	2-YR	85000	25.83	1839.83	3.66	1838.62
1639.5	2.5-YR	90000	26.31	1840.31	3.71	1839.07
1636.2	1.1-YR	51000	30.6	1832.61	2.89	1831.51
1636.2	1.5-YR	66000	32.52	1834.52	3.19	1833.38
1636.2	2-YR	85000	34.59	1836.59	3.54	1835.34
1636.2	2.5-YR	90000	35.08	1837.08	3.62	1835.81
1632.8	1.1-YR	51000	20.71	1828.71	4.28	1827.78
1632.8	1.5-YR	66000	22.32	1830.32	4.89	1829.25
1632.8	2-YR	85000	24.07	1832.07	5.57	1830.9
1632.8	2.5-YR	90000	24.49	1832.49	5.73	1831.3
1626	1.1-YR	51000	17.82	1821.83	2	1821.08
1626	1.5-YR	66000	19.26	1823.26	2.19	1822.51
1626	2-YR	85000	20.62	1824.62	2.43	1823.89
1626	2.5-YR	90000	20.93	1824.93	2.49	1824.21
1613.6	1.1-YR	51000	20.79	1813.79	2.88	1813.01
1613.6	1.5-YR	66000	22.13	1815.13	3.13	1814.44
1613.6	2-YR	85000	23.44	1816.44	3.27	1815.76
1613.6	2.5-YR	90000	23.79	1816.8	3.28	1816.06
1605.6	1.1-YR	51000	18.38	1808.38	2.13	1807.7

1605.6	1.5-YR	66000	19.58	1809.58	2.34	1808.87
1605.6	2-YR	85000	20.87	1810.87	2.58	1810.14
1605.6	2.5-YR	90000	21.22	1811.22	2.67	1810.43
1600.7	1.1-YR	51000	20.14	1804.14	2.31	1803.37
1600.7	1.5-YR	66000	21.72	1805.72	2.38	1804.69
1600.7	2-YR	85000	22.96	1806.96	2.6	1806.24
1600.7	2.5-YR	90000	23.27	1807.27	2.64	1806.52
1595.2	1.1-YR	51000	21.51	1799.51	2.38	1798.53
1595.2	1.5-YR	66000	23.45	1801.45	2.42	1800.16
1595.2	2-YR	85000	24.88	1802.88	2.55	1802.01
1595.2	2.5-YR	90000	25.22	1803.22	2.6	1802.34
1584.8	1.1-YR	51000	14.82	1790.82	2.6	1790.11
1584.8	1.5-YR	66000	16.29	1792.29	2.93	1791.58
1584.8	2-YR	85000	17.81	1793.81	3.29	1793.13
1584.8	2.5-YR	90000	18.42	1794.42	3.3	1793.48
1578.2	1.1-YR	51000	20.94	1786.94	2.57	1786.15
1578.2	1.5-YR	66000	22.46	1788.47	2.64	1787.79
1578.2	2-YR	85000	23.87	1789.87	2.81	1789.32
1578.2	2.5-YR	90000	24.4	1790.41	2.95	1789.65
1567.2	1.1-YR	51000	26.68	1779.68	3.75	1778.72
1567.2	1.5-YR	66000	28.12	1781.12	4.17	1780.28
1567.2	2-YR	85000	29.38	1782.38	4.41	1781.63
1567.2	2.5-YR	90000	29.65	1782.65	4.43	1781.92
1561.5	1.1-YR	51000	16.38	1774.38	2.08	1773.65
1561.5	1.5-YR	66000	17.51	1775.51	2.28	1774.84
1561.5	2-YR	85000	18.66	1776.66	2.51	1775.95
1561.5	2.5-YR	90000	18.94	1776.94	2.56	1776.21

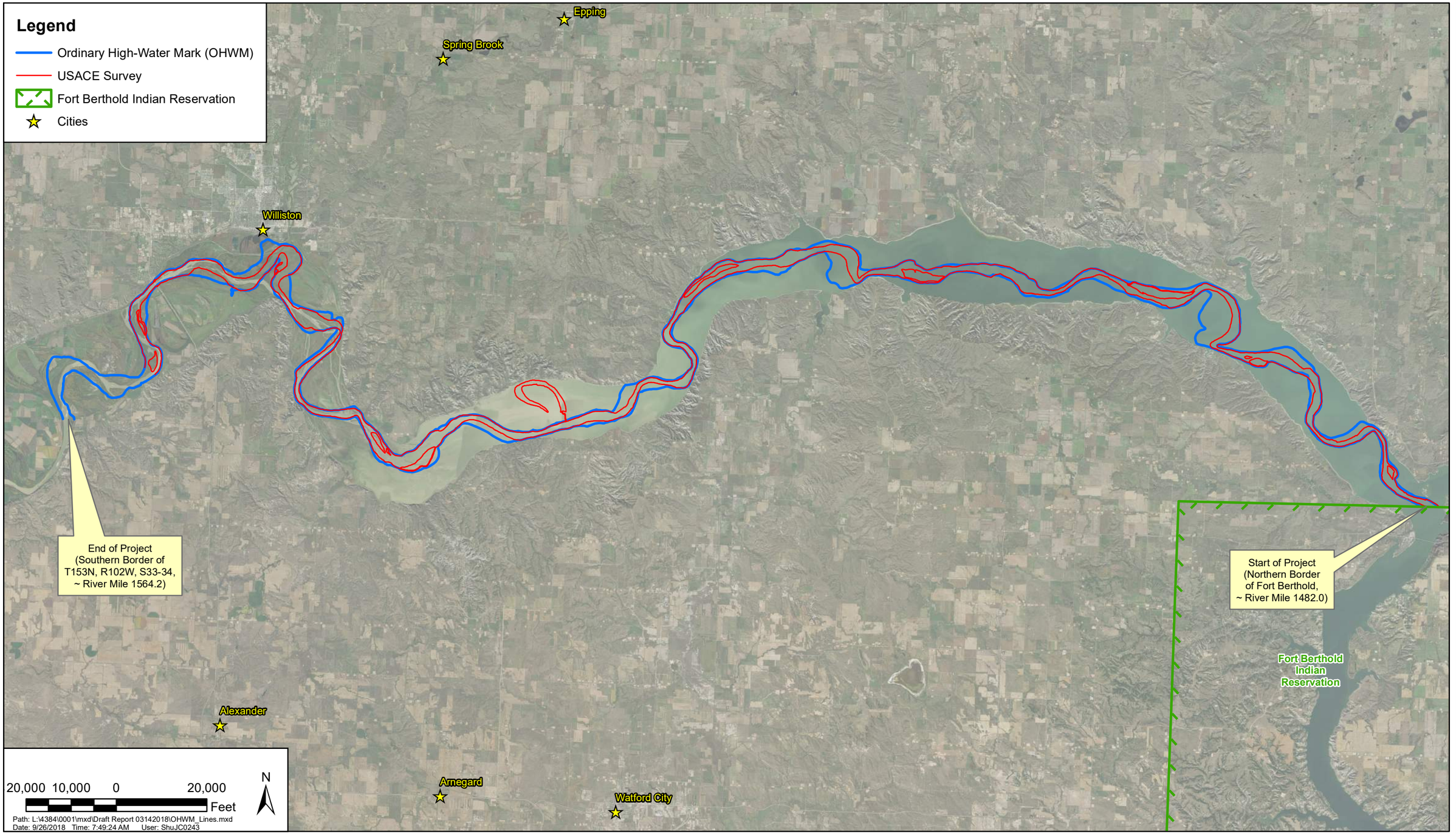
Conclusions

The hydraulic model provides an estimate of the water surface profile and hydraulic conditions for the study reach using data from established cross sections and based on several frequently occurring runoff events. A Mannings n or channel roughness coefficient has been chosen to approximately reflect site conditions within each channel reach. An OHWM study requires determining the flow event that leaves a "line below which the action of water is frequent enough either to prevent the growth of vegetation or to restrict its growth to predominantly wetland species." A 2-year flow event (the 98% annual probability) with a Manning's n of 0.03 is recommended for the OHWM study. Without more information to calibrate the model, a lower n value is selected that reduces flow levels and moves the estimated inundation area riverward.

The OHWM study will focus more on aerial photography interpretation, geomorphic interaction of the channel and overbank and land use practices. Where farming practices are successfully employed yet fall below the anticipated 2- year flow elevation, such areas are withdrawn from consideration as below the OHWM.

Appendix F

Coordinates for OHWM Determination and USACE Survey



NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES	SEP 2018
PLOT OF COORDINATES	Figure F-1

WENCK
Responsive partner. Exceptional outcomes.

NAD_1983_StatePlane_North_Dakota_North_FIPS_3301_Feet_Intl
WKID: 2265 Authority: EPSG, OHWM Determination

Segment	Point ID	Easting	Northing	Segment	Point ID	Easting	Northing
Main River South Bank	1	1463696.328	371503.3001	Main River South Bank	47	1453458.5	386990.62
Main River South Bank	2	1463209.832	371700.2154	Main River South Bank	48	1453345.9	387178.23
Main River South Bank	3	1462827.585	371827.6311	Main River South Bank	49	1453299	387337.7
Main River South Bank	4	1462503.254	371920.2971	Main River South Bank	50	1453233.3	387450.27
Main River South Bank	5	1462121.006	372036.1295	Main River South Bank	51	1453130.2	387562.83
Main River South Bank	6	1461900.925	372117.2122	Main River South Bank	52	1453045.7	387684.78
Main River South Bank	7	1461541.844	372290.9608	Main River South Bank	53	1452951.9	387787.97
Main River South Bank	8	1460985.849	372592.1255	Main River South Bank	54	1452914.4	387881.77
Main River South Bank	9	1460673.101	372823.7902	Main River South Bank	55	1452867.5	387938.06
Main River South Bank	10	1459897.024	373206.0376	Main River South Bank	56	1452698.7	388106.91
Main River South Bank	11	1458993.53	373553.535	Main River South Bank	57	1452614.2	388200.71
Main River South Bank	12	1458275.368	373889.449	Main River South Bank	58	1452586.1	388256.99
Main River South Bank	13	1457429.792	374422.2784	Main River South Bank	59	1452492.3	388332.04
Main River South Bank	14	1456896.963	374816.1088	Main River South Bank	60	1452488	388331.22
Main River South Bank	15	1456178.801	375406.8545	Main River South Bank	61	1452482.9	388322.66
Main River South Bank	16	1455761.804	375731.1852	Main River South Bank	62	1452413.4	388316.86
Main River South Bank	17	1455240.558	376171.3486	Main River South Bank	63	1452349.8	388304.64
Main River South Bank	18	1454811.978	376565.179	Main River South Bank	64	1452346.6	388307.57
Main River South Bank	19	1454510.813	376982.176	Main River South Bank	65	1452135.8	388256.99
Main River South Bank	20	1454116.983	377665.5875	Main River South Bank	66	1451957.6	388200.71
Main River South Bank	21	1453884.741	378353.4421	Main River South Bank	67	1451704.3	388013.1
Main River South Bank	22	1453871.789	378806.7981	Main River South Bank	68	1451432.3	387825.49
Main River South Bank	23	1453802.344	378980.4093	Main River South Bank	69	1451085.2	387600.36
Main River South Bank	24	1453837.066	379379.7157	Main River South Bank	70	1450653.7	387290.8
Main River South Bank	25	1453871.789	379796.3834	Main River South Bank	71	1450456.7	387159.47
Main River South Bank	26	1453871.789	380178.3286	Main River South Bank	72	1450297.2	387000
Main River South Bank	27	1453906.51	380768.6075	Main River South Bank	73	1450119	386765.49
Main River South Bank	28	1453993.317	381046.3857	Main River South Bank	74	1449922	386577.88
Main River South Bank	29	1454201.65	382088.0546	Main River South Bank	75	1449556.2	386305.84
Main River South Bank	30	1454271.095	382626.2502	Main River South Bank	76	1449237.2	386108.85
Main River South Bank	31	1454267.191	382782.4237	Main River South Bank	77	1448880.8	385940
Main River South Bank	32	1454313.051	383097.7138	Main River South Bank	78	1448486.8	385761.77
Main River South Bank	33	1454313.051	383347.28	Main River South Bank	79	1448271	385658.58
Main River South Bank	34	1454323.902	383488.3394	Main River South Bank	80	1447548.7	385424.07
Main River South Bank	35	1454356.454	383683.6524	Main River South Bank	81	1447211	385358.41
Main River South Bank	36	1454356.454	383998.323	Main River South Bank	82	1446864	385255.22
Main River South Bank	37	1454269.648	384443.2023	Main River South Bank	83	1446545	385114.51
Main River South Bank	38	1454247.946	384703.6196	Main River South Bank	84	1446451.2	385105.13
Main River South Bank	39	1454192.458	384809.552	Main River South Bank	85	1446301.1	385039.47
Main River South Bank	40	1453966.936	385658.5766	Main River South Bank	86	1446132.3	384955.04
Main River South Bank	41	1453923.872	385820.7013	Main River South Bank	87	1445935.3	384917.52
Main River South Bank	42	1453916.894	385837.6488	Main River South Bank	88	1445719.5	384880
Main River South Bank	43	1453888.112	385940.6373	Main River South Bank	89	1445334.9	384814.34
Main River South Bank	44	1453768.039	386343.364	Main River South Bank	90	1444978.5	384767.43
Main River South Bank	45	1453571.048	386699.8246	Main River South Bank	91	1444631.4	384776.81
Main River South Bank	46	1453552.287	386803.0107	Main River South Bank	92	1444387.5	384786.19

Main River South Bank	93	1444040.42	384842.4775	Main River South Bank	140	1438021.8	393505.72
Main River South Bank	94	1443627.676	384917.5218	Main River South Bank	141	1438034.8	393648.95
Main River South Bank	95	1443271.216	385011.3276	Main River South Bank	142	1438008.8	393870.3
Main River South Bank	96	1442928.825	385114.5133	Main River South Bank	143	1438034.8	394104.68
Main River South Bank	97	1442788.118	385114.5133	Main River South Bank	144	1438099.9	394286.97
Main River South Bank	98	1442731.834	385189.5576	Main River South Bank	145	1438165	394573.43
Main River South Bank	99	1442619.268	385227.0799	Main River South Bank	146	1438269.2	394898.95
Main River South Bank	100	1442140.86	385377.1685	Main River South Bank	147	1438295.2	395341.66
Main River South Bank	101	1441986.257	385434.1275	Main River South Bank	148	1438373.3	395667.18
Main River South Bank	102	1441979.8	385436.5067	Main River South Bank	149	1438373.3	395758.33
Main River South Bank	103	1441784.4	385508.4962	Main River South Bank	150	1438399.4	395901.56
Main River South Bank	104	1441484.223	385649.2042	Main River South Bank	151	1438438.5	396122.91
Main River South Bank	105	1441090.24	385874.3371	Main River South Bank	152	1438464.5	396461.46
Main River South Bank	106	1440686.877	386136.9923	Main River South Bank	153	1438451.5	396786.98
Main River South Bank	107	1440433.602	386305.842	Main River South Bank	154	1438412.4	397073.44
Main River South Bank	108	1440245.991	386418.4083	Main River South Bank	155	1438399.4	397216.67
Main River South Bank	109	1440187.151	386511.8614	Main River South Bank	156	1438230.1	397633.33
Main River South Bank	110	1440024.18	386613.718	Main River South Bank	157	1438152	398050
Main River South Bank	111	1440023.493	386636.3752	Main River South Bank	158	1438060.8	399000.52
Main River South Bank	112	1439797.798	386902.0008	Main River South Bank	159	1437943.7	399859.9
Main River South Bank	113	1439676.813	387042.8309	Main River South Bank	160	1437891.6	400354.69
Main River South Bank	114	1439611.397	387118.9769	Main River South Bank	161	1437852.5	400510.94
Main River South Bank	115	1439045.651	387777.5202	Main River South Bank	162	1437774.4	400641.15
Main River South Bank	116	1438568.219	388450.2646	Main River South Bank	163	1437631.2	400706.26
Main River South Bank	117	1438508.25	388526.4418	Main River South Bank	164	1437448.9	400771.36
Main River South Bank	118	1438493.77	388685.7223	Main River South Bank	165	1437252.9	400832.59
Main River South Bank	119	1438406.965	388815.9309	Main River South Bank	166	1437153	400907.54
Main River South Bank	120	1438298.457	388946.1396	Main River South Bank	167	1436857.9	401063.79
Main River South Bank	121	1438237.156	389007.4401	Main River South Bank	168	1436580.1	401167.95
Main River South Bank	122	1438226.615	389079.0884	Main River South Bank	169	1436302.3	401185.32
Main River South Bank	123	1438197.101	389148.533	Main River South Bank	170	1435868.3	401185.32
Main River South Bank	124	1438087.726	389339.5057	Main River South Bank	171	1435555.8	401202.68
Main River South Bank	125	1437981.822	389488.8115	Main River South Bank	172	1435295.4	401202.68
Main River South Bank	126	1437860.294	389653.7423	Main River South Bank	173	1435069.7	401254.76
Main River South Bank	127	1437574.462	389967.6478	Main River South Bank	174	1434809.3	401358.93
Main River South Bank	128	1437461.888	390198.4227	Main River South Bank	175	1434653	401393.65
Main River South Bank	129	1437409.805	390419.777	Main River South Bank	176	1434583.6	401445.73
Main River South Bank	130	1437409.805	390693.2154	Main River South Bank	177	1434409.9	401549.9
Main River South Bank	131	1437409.805	391044.7784	Main River South Bank	178	1434236.3	401654.07
Main River South Bank	132	1437448.868	391448.425	Main River South Bank	179	1433993.3	401810.32
Main River South Bank	133	1437461.888	391669.7797	Main River South Bank	180	1433628.7	402070.73
Main River South Bank	134	1437553.035	392021.343	Main River South Bank	181	1433350.9	402192.26
Main River South Bank	135	1437657.202	392320.8226	Main River South Bank	182	1432882.2	402470.04
Main River South Bank	136	1437761.369	392555.198	Main River South Bank	183	1432639.1	402556.85
Main River South Bank	137	1437878.556	392789.5736	Main River South Bank	184	1432553.1	402588.11
Main River South Bank	138	1437930.639	392971.8656	Main River South Bank	185	1432536.2	402633.36
Main River South Bank	139	1438021.785	393284.3663	Main River South Bank	186	1432264	402768.25

Main River South Bank	187	1431691.068	402986.9965	Main River South Bank	234	1414567.8	411497.43
Main River South Bank	188	1431425.026	403116.3508	Main River South Bank	235	1414417.6	411675.72
Main River South Bank	189	1430987.526	403303.8511	Main River South Bank	236	1414226.1	412053.23
Main River South Bank	190	1430570.858	403512.1851	Main River South Bank	237	1413905.8	412747.36
Main River South Bank	191	1430211.899	403643.2478	Main River South Bank	238	1413838.6	412990.49
Main River South Bank	192	1429779.607	403679.7061	Main River South Bank	239	1413751.8	413285.63
Main River South Bank	193	1429503.564	403570.3308	Main River South Bank	240	1413734.4	413598.13
Main River South Bank	194	1429154.189	403533.0185	Main River South Bank	241	1413838.6	414101.6
Main River South Bank	195	1428945.854	403137.1842	Main River South Bank	242	1413942.8	414379.38
Main River South Bank	196	1428654.187	402762.1835	Main River South Bank	243	1414133.7	414743.96
Main River South Bank	197	1428362.52	402553.8498	Main River South Bank	244	1414359.4	415073.83
Main River South Bank	198	1427862.519	402428.8495	Main River South Bank	245	1414550.4	415368.97
Main River South Bank	199	1427388.977	402455.7455	Main River South Bank	246	1414671.9	415629.38
Main River South Bank	200	1426232.724	402513.0372	Main River South Bank	247	1414758.7	415855.08
Main River South Bank	201	1425998.348	402669.2875	Main River South Bank	248	1414754.4	415865.89
Main River South Bank	202	1425607.723	402820.3295	Main River South Bank	249	1415494.8	416902.47
Main River South Bank	203	1425425.431	403002.6215	Main River South Bank	250	1415868.1	417353.86
Main River South Bank	204	1424550.013	403366.3515	Main River South Bank	251	1416180.6	417787.89
Main River South Bank	205	1423591.678	403803.8521	Main River South Bank	252	1416319.5	417987.54
Main River South Bank	206	1423441.052	403929.7068	Main River South Bank	253	1416397.6	418187.19
Main River South Bank	207	1423196.26	404080.7488	Main River South Bank	254	1416458.4	418369.49
Main River South Bank	208	1422571.259	404320.3324	Main River South Bank	255	1416458.4	418499.69
Main River South Bank	209	1421888.966	404486.9994	Main River South Bank	256	1416362.9	418690.67
Main River South Bank	210	1421524.381	404591.1664	Main River South Bank	257	1416293.4	418786.15
Main River South Bank	211	1421196.173	404731.4755	Main River South Bank	258	1416206.6	418881.64
Main River South Bank	212	1420024.295	405317.4141	Main River South Bank	259	1416085.1	418959.76
Main River South Bank	213	1418292.52	406033.5614	Main River South Bank	260	1415920.2	419124.7
Main River South Bank	214	1417042.777	406475.403	Main River South Bank	261	1415790	419220.18
Main River South Bank	215	1416013.87	406905.9591	Main River South Bank	262	1415347.3	419454.56
Main River South Bank	216	1414855.014	407205.4387	Main River South Bank	263	1415138.9	419454.56
Main River South Bank	217	1414334.179	407270.5431	Main River South Bank	264	1414982.7	419454.56
Main River South Bank	218	1413513.866	407478.8767	Main River South Bank	265	1414765.7	419359.07
Main River South Bank	219	1413352.49	407608.5335	Main River South Bank	266	1414522.6	419228.86
Main River South Bank	220	1413196.24	407730.0614	Main River South Bank	267	1414305.6	419107.33
Main River South Bank	221	1413057.351	408164.09	Main River South Bank	268	1413932.3	418838.24
Main River South Bank	222	1412987.906	408407.1461	Main River South Bank	269	1413489.6	418534.42
Main River South Bank	223	1412953.184	408875.8971	Main River South Bank	270	1413064.3	418169.83
Main River South Bank	224	1412970.545	409188.3977	Main River South Bank	271	1413055.2	418161.88
Main River South Bank	225	1413283.046	409796.0378	Main River South Bank	272	1413040	418181.47
Main River South Bank	226	1413630.268	410143.2606	Main River South Bank	273	1412959.7	418146.52
Main River South Bank	227	1414029.575	410490.4837	Main River South Bank	274	1412813.9	418047.56
Main River South Bank	228	1414324.714	410612.0116	Main River South Bank	275	1412699.3	417943.4
Main River South Bank	229	1414671.937	410716.1785	Main River South Bank	276	1412499.3	417784.22
Main River South Bank	230	1414984.438	410785.6231	Main River South Bank	277	1412263.2	417662.18
Main River South Bank	231	1415175.41	410872.4289	Main River South Bank	278	1412120.6	417530.98
Main River South Bank	232	1415175.41	411028.6792	Main River South Bank	279	1412066.1	417445.48
Main River South Bank	233	1415019.161	411184.9295	Main River South Bank	280	1411993.2	417306.6

Main River South Bank	281	1411927.229	417202.4285	Main River South Bank	328	1399018.9	418112.86
Main River South Bank	282	1411877.885	417157.5748	Main River South Bank	329	1398758.4	418177.97
Main River South Bank	283	1411834.85	417118.4554	Main River South Bank	330	1398307.5	418372.99
Main River South Bank	284	1411794.731	417081.9872	Main River South Bank	331	1398170.2	418476.61
Main River South Bank	285	1411775.481	417064.4892	Main River South Bank	332	1397736.1	418802.13
Main River South Bank	286	1411752.75	417030.1191	Main River South Bank	333	1397063.4	419040.85
Main River South Bank	287	1411721.5	416988.4525	Main River South Bank	334	1395783	419388.07
Main River South Bank	288	1411605.614	416896.0043	Main River South Bank	335	1395305.6	419496.58
Main River South Bank	289	1411558.739	416841.3166	Main River South Bank	336	1394806.4	419778.7
Main River South Bank	290	1411451.968	416765.7956	Main River South Bank	337	1394372.4	420060.82
Main River South Bank	291	1411287.299	416632.5411	Main River South Bank	338	1393916.7	420386.34
Main River South Bank	292	1411194.033	416573.818	Main River South Bank	339	1393265.6	420755.26
Main River South Bank	293	1410935.735	416411.1864	Main River South Bank	340	1392946.8	420876.72
Main River South Bank	294	1410836.081	416336.1073	Main River South Bank	341	1392783.5	420985.57
Main River South Bank	295	1410734.518	416273.607	Main River South Bank	342	1391620.2	421488.85
Main River South Bank	296	1410614.726	416229.3363	Main River South Bank	343	1391432.9	421578.61
Main River South Bank	297	1410518.372	416205.8987	Main River South Bank	344	1391203.5	421688.5
Main River South Bank	298	1410448.06	416166.836	Main River South Bank	345	1390882.4	421818.71
Main River South Bank	299	1410356.914	416161.6277	Main River South Bank	346	1390535.1	421948.92
Main River South Bank	300	1410238.019	416105.3373	Main River South Bank	347	1390283.4	422027.05
Main River South Bank	301	1410125.143	416080.8983	Main River South Bank	348	1390127.2	422061.77
Main River South Bank	302	1409877.746	416041.836	Main River South Bank	349	1389944.9	422070.45
Main River South Bank	303	1409716.287	416018.3983	Main River South Bank	350	1389814.7	422070.45
Main River South Bank	304	1409665.924	415991.4029	Main River South Bank	351	1389406.7	422044.41
Main River South Bank	305	1409570.454	415966.315	Main River South Bank	352	1389250.4	422018.36
Main River South Bank	306	1409416.808	415893.398	Main River South Bank	353	1389126.9	421983.97
Main River South Bank	307	1408648.577	415682.46	Main River South Bank	354	1389110.4	421983.97
Main River South Bank	308	1407706.562	415538.7888	Main River South Bank	355	1388893.4	421962.27
Main River South Bank	309	1406695.535	415498.8583	Main River South Bank	356	1388622.1	421918.86
Main River South Bank	310	1405818.538	415603.8931	Main River South Bank	357	1388264	421842.91
Main River South Bank	311	1404868.015	415916.3937	Main River South Bank	358	1387895.1	421745.25
Main River South Bank	312	1403904.471	416333.0611	Main River South Bank	359	1387678.1	421669.3
Main River South Bank	313	1403136.24	416684.6244	Main River South Bank	360	1387558.7	421615.04
Main River South Bank	314	1402807.096	416804.3134	Main River South Bank	361	1387439.4	421539.09
Main River South Bank	315	1402563.323	416892.9581	Main River South Bank	362	1387320	421452.28
Main River South Bank	316	1402169.084	416954.2838	Main River South Bank	363	1387146.4	421322.07
Main River South Bank	317	1401883.454	417049.4941	Main River South Bank	364	1386994.5	421213.57
Main River South Bank	318	1401601.335	417114.5985	Main River South Bank	365	1386820.9	421072.51
Main River South Bank	319	1401275.813	417201.4042	Main River South Bank	366	1386603.9	420942.3
Main River South Bank	320	1400993.695	417309.9115	Main River South Bank	367	1386394.6	420802.76
Main River South Bank	321	1400646.472	417483.523	Main River South Bank	368	1386218.5	420715.88
Main River South Bank	322	1400320.951	417657.1342	Main River South Bank	369	1385984.1	420549.22
Main River South Bank	323	1399973.728	417809.0443	Main River South Bank	370	1385561.6	420234.43
Main River South Bank	324	1399653.217	417922.1661	Main River South Bank	371	1385286.2	419955.46
Main River South Bank	325	1399566.61	417990.2947	Main River South Bank	372	1385020.6	419721.09
Main River South Bank	326	1399539.111	417995.7943	Main River South Bank	373	1384888.9	419474.88
Main River South Bank	327	1399387.789	418026.0588	Main River South Bank	374	1384845.5	419322.97

Main River South Bank	375	1384780.384	419257.8622	Main River South Bank	422	1371217.5	421973.12
Main River South Bank	376	1384585.071	419171.0565	Main River South Bank	423	1371033.1	422081.62
Main River South Bank	377	1384179.799	419050.5384	Main River South Bank	424	1370826.9	422233.53
Main River South Bank	378	1383543.402	418758.7294	Main River South Bank	425	1370782.6	422263.05
Main River South Bank	379	1382937.24	418544.0033	Main River South Bank	426	1370720.9	422272.71
Main River South Bank	380	1382501.734	418389.8048	Main River South Bank	427	1370580.2	422288.33
Main River South Bank	381	1382088.28	418189.836	Main River South Bank	428	1370481.3	422314.37
Main River South Bank	382	1381504.946	418028.3773	Main River South Bank	429	1370345.9	422361.25
Main River South Bank	383	1380671.61	417840.877	Main River South Bank	430	1370236.5	422408.12
Main River South Bank	384	1380244.785	417825.5676	Main River South Bank	431	1370064.6	422501.87
Main River South Bank	385	1379804.791	417904.7028	Main River South Bank	432	1369939.6	422548.75
Main River South Bank	386	1379179.789	417956.7865	Main River South Bank	433	1369679.2	422642.5
Main River South Bank	387	1378528.746	417982.8281	Main River South Bank	434	1369439.6	422710.21
Main River South Bank	388	1377987.836	417999.1792	Main River South Bank	435	1368700	422814.37
Main River South Bank	389	1377906.038	417988.9544	Main River South Bank	436	1368319.8	422876.87
Main River South Bank	390	1377315.876	418155.9813	Main River South Bank	437	1368194.8	422902.62
Main River South Bank	391	1376910.485	418244.1152	Main River South Bank	438	1368157.6	422873.73
Main River South Bank	392	1376745.554	418248.4554	Main River South Bank	439	1368027.4	422776.07
Main River South Bank	393	1376694.779	418207.9187	Main River South Bank	440	1367897.2	422678.41
Main River South Bank	394	1376621.2	418207.9187	Main River South Bank	441	1367626	422580.76
Main River South Bank	395	1376501.842	418197.068	Main River South Bank	442	1367408.9	422559.06
Main River South Bank	396	1376328.23	418164.5158	Main River South Bank	443	1366964.1	422569.91
Main River South Bank	397	1376078.664	418142.8143	Main River South Bank	444	1366896.3	422580.17
Main River South Bank	398	1375818.247	418142.8143	Main River South Bank	445	1366371.4	422741.68
Main River South Bank	399	1375492.725	418164.5158	Main River South Bank	446	1366067.6	422871.89
Main River South Bank	400	1375286.562	418207.9187	Main River South Bank	447	1365843	422952.74
Main River South Bank	401	1375080.398	418316.4259	Main River South Bank	448	1365462.1	423028.92
Main River South Bank	402	1374863.384	418479.1864	Main River South Bank	449	1364503.8	423258.09
Main River South Bank	403	1374711.474	418598.5443	Main River South Bank	450	1363441.3	423403.92
Main River South Bank	404	1374602.967	418750.4544	Main River South Bank	451	1362331.5	423552.65
Main River South Bank	405	1374429.355	418902.3645	Main River South Bank	452	1361970.7	423570.09
Main River South Bank	406	1374288.296	419043.4236	Main River South Bank	453	1360995.6	423611.29
Main River South Bank	407	1374276.407	419054.463	Main River South Bank	454	1360934.4	423606.04
Main River South Bank	408	1374223.192	419249.5873	Main River South Bank	455	1360679.2	423574.79
Main River South Bank	409	1374082.132	419444.9003	Main River South Bank	456	1360439.6	423553.96
Main River South Bank	410	1373930.222	419705.3173	Main River South Bank	457	1360194.8	423522.71
Main River South Bank	411	1373441.94	420312.9574	Main River South Bank	458	1359991.7	423501.87
Main River South Bank	412	1373235.776	420605.9269	Main River South Bank	459	1359889.6	423491.67
Main River South Bank	413	1372888.553	421083.3583	Main River South Bank	460	1359887.5	423491.46
Main River South Bank	414	1372573.883	421365.4771	Main River South Bank	461	1359811.7	423483.03
Main River South Bank	415	1372389.421	421528.2376	Main River South Bank	462	1359793.8	423481.04
Main River South Bank	416	1372237.511	421593.3419	Main River South Bank	463	1359663.6	423455
Main River South Bank	417	1372042.197	421669.2969	Main River South Bank	464	1359476.1	423402.92
Main River South Bank	418	1371901.138	421712.6998	Main River South Bank	465	1359283.3	423345.62
Main River South Bank	419	1371749.228	421766.9534	Main River South Bank	466	1359095.8	423277.92
Main River South Bank	420	1371586.467	421810.3563	Main River South Bank	467	1358950	423215.42
Main River South Bank	421	1371380.304	421886.3114	Main River South Bank	468	1358793.8	423163.33

Main River South Bank	469	1358700.012	423126.8737	Main River South Bank	516	1339614.9	421940.49
Main River South Bank	470	1358695	423125.3225	Main River South Bank	517	1339417	421742.57
Main River South Bank	471	1358626.603	423095.2274	Main River South Bank	518	1339333.7	421664.45
Main River South Bank	472	1358376.39	422912.4459	Main River South Bank	519	1339333.7	421652.6
Main River South Bank	473	1358011.806	422652.0286	Main River South Bank	520	1339237.8	421599.85
Main River South Bank	474	1357694.097	422349.9449	Main River South Bank	521	1339172.4	421539.51
Main River South Bank	475	1357178.47	421875.9856	Main River South Bank	522	1339125.4	421523.82
Main River South Bank	476	1356734.238	421576.1273	Main River South Bank	523	1339026.4	421445.7
Main River South Bank	477	1356470.136	421370.7763	Main River South Bank	524	1338896.2	421331.11
Main River South Bank	478	1356334.719	421287.4426	Main River South Bank	525	1338760.8	421237.36
Main River South Bank	479	1356136.802	421131.1923	Main River South Bank	526	1338583.7	421133.2
Main River South Bank	480	1355675.208	421011.8898	Main River South Bank	527	1338535.3	421090.86
Main River South Bank	481	1355194.092	420969.7336	Main River South Bank	528	1337187.1	420541.86
Main River South Bank	482	1354538.053	421003.2093	Main River South Bank	529	1336467	420317.9
Main River South Bank	483	1353730.76	421020.5706	Main River South Bank	530	1336343.3	420187.69
Main River South Bank	484	1352932.147	421011.8898	Main River South Bank	531	1335787.8	419993.25
Main River South Bank	485	1352437.354	421020.5706	Main River South Bank	532	1335295.4	419903.91
Main River South Bank	486	1352107.492	421003.2093	Main River South Bank	533	1334774.5	419883.08
Main River South Bank	487	1351511.793	421110.359	Main River South Bank	534	1334274.5	420028.91
Main River South Bank	488	1350938.875	421282.2343	Main River South Bank	535	1334058.2	420252.8
Main River South Bank	489	1350625.399	421381.6828	Main River South Bank	536	1333884.6	420524.07
Main River South Bank	490	1350050.601	421577.8635	Main River South Bank	537	1333587	420799.75
Main River South Bank	491	1349553.455	421704.1103	Main River South Bank	538	1333357.9	420987.25
Main River South Bank	492	1348765.876	421900.7809	Main River South Bank	539	1332941.2	421091.42
Main River South Bank	493	1348152.411	422023.5555	Main River South Bank	540	1332628.7	421112.25
Main River South Bank	494	1347886.786	422136.4026	Main River South Bank	541	1332356.8	421179.8
Main River South Bank	495	1347512.401	422373.004	Main River South Bank	542	1332148.4	421294.38
Main River South Bank	496	1347276.289	422487.5876	Main River South Bank	543	1331825.5	421737.09
Main River South Bank	497	1347106.15	422515.3655	Main River South Bank	544	1331638	422132.92
Main River South Bank	498	1346897.816	422498.0043	Main River South Bank	545	1331487	422518.34
Main River South Bank	499	1346631.575	422506.1952	Main River South Bank	546	1331393.2	422872.51
Main River South Bank	500	1346421.717	422496.2677	Main River South Bank	547	1331424.5	423195.43
Main River South Bank	501	1346048.453	422539.6706	Main River South Bank	548	1331539.1	423461.05
Main River South Bank	502	1345522.197	422678.0706	Main River South Bank	549	1331691.2	423758.09
Main River South Bank	503	1345015.464	422721.963	Main River South Bank	550	1332066.2	424133.09
Main River South Bank	504	1344659.561	422739.3238	Main River South Bank	551	1332316.2	424758.09
Main River South Bank	505	1344115.945	422766.6122	Main River South Bank	552	1332378.7	425112.26
Main River South Bank	506	1343602.671	422772.3104	Main River South Bank	553	1332399.5	425591.43
Main River South Bank	507	1342593.585	422774.0463	Main River South Bank	554	1332149.5	426112.26
Main River South Bank	508	1341964.899	422797.8622	Main River South Bank	555	1331883.9	426354.8
Main River South Bank	509	1341630.564	422779.0332	Main River South Bank	556	1331758.3	426645.26
Main River South Bank	510	1340933.647	422704.1122	Main River South Bank	557	1331680.2	426879.63
Main River South Bank	511	1340636.771	422625.9869	Main River South Bank	558	1331458.8	427218.18
Main River South Bank	512	1340411.811	422518.6158	Main River South Bank	559	1331224.4	427621.82
Main River South Bank	513	1340052.436	422242.5735	Main River South Bank	560	1331003.1	427856.2
Main River South Bank	514	1339881.995	422102.5486	Main River South Bank	561	1330833.8	427999.43
Main River South Bank	515	1339730.085	422026.5935	Main River South Bank	562	1330749.5	427986.73

Main River South Bank	563	1330631.436	427955.4806	Main River South Bank	610	1319224.3	423258.2
Main River South Bank	564	1330464.769	427910.3415	Main River South Bank	611	1318859.7	423388.41
Main River South Bank	565	1330252.963	427861.7303	Main River South Bank	612	1318205.8	423592.48
Main River South Bank	566	1330030.74	427837.4249	Main River South Bank	613	1318081.3	423613.3
Main River South Bank	567	1329867.545	427809.647	Main River South Bank	614	1317995.1	423627.71
Main River South Bank	568	1329607.128	427774.9245	Main River South Bank	615	1317886.3	423645.9
Main River South Bank	569	1329362.449	427725.9895	Main River South Bank	616	1317752.4	423668.29
Main River South Bank	570	1329307.231	427661.5682	Main River South Bank	617	1317443.6	423708.58
Main River South Bank	571	1328941.188	427487.2625	Main River South Bank	618	1317201.9	423722
Main River South Bank	572	1328589.765	427361.7293	Main River South Bank	619	1316889.5	423688.77
Main River South Bank	573	1328172.696	427230.5548	Main River South Bank	620	1316886.3	423688.43
Main River South Bank	574	1327773.389	427074.3045	Main River South Bank	621	1316517	423614.57
Main River South Bank	575	1327228.265	426820.2605	Main River South Bank	622	1316208.1	423547.42
Main River South Bank	576	1327078.943	426653.2966	Main River South Bank	623	1315993.2	423460.13
Main River South Bank	577	1326795.581	426525.0394	Main River South Bank	624	1315939.5	423439.99
Main River South Bank	578	1326684.063	426466.8983	Main River South Bank	625	1315026.3	423439.99
Main River South Bank	579	1326617.995	426432.0863	Main River South Bank	626	1314361.6	423513.85
Main River South Bank	580	1326447.882	426336.668	Main River South Bank	627	1313911.7	423607.86
Main River South Bank	581	1326274.073	426273.105	Main River South Bank	628	1313784.1	423628
Main River South Bank	582	1326066.183	426216.4265	Main River South Bank	629	1313260.4	423587.71
Main River South Bank	583	1325566.182	426070.5929	Main River South Bank	630	1313099.2	423534
Main River South Bank	584	1325278.357	425924.2553	Main River South Bank	631	1312709.8	423379.56
Main River South Bank	585	1324848.669	425650.8173	Main River South Bank	632	1312353.9	423278.84
Main River South Bank	586	1324606.481	425497.1713	Main River South Bank	633	1312045	423184.84
Main River South Bank	587	1324257.522	425275.8166	Main River South Bank	634	1312034.1	423177.22
Main River South Bank	588	1324065.941	425086.1765	Main River South Bank	635	1311918.4	423166.7
Main River South Bank	589	1323886.358	424943.1755	Main River South Bank	636	1311799	423144.99
Main River South Bank	590	1323489.903	424831.1204	Main River South Bank	637	1311647.1	423123.29
Main River South Bank	591	1323422.194	424627.9951	Main River South Bank	638	1311473.5	423079.89
Main River South Bank	592	1323349.278	424497.7864	Main River South Bank	639	1311104.6	422982.23
Main River South Bank	593	1323203.444	424362.3694	Main River South Bank	640	1310757.4	422938.83
Main River South Bank	594	1322854.485	424143.6191	Main River South Bank	641	1310442.7	422873.73
Main River South Bank	595	1322708.651	424023.8271	Main River South Bank	642	1310062.9	422776.07
Main River South Bank	596	1322646.151	423935.2855	Main River South Bank	643	1309639.7	422656.71
Main River South Bank	597	1322462.744	423700.1175	Main River South Bank	644	1309249.1	422526.5
Main River South Bank	598	1322296.077	423606.3671	Main River South Bank	645	1308869.3	422352.89
Main River South Bank	599	1322125.938	423557.7559	Main River South Bank	646	1308722.7	422279.58
Main River South Bank	600	1321896.15	423471.7428	Main River South Bank	647	1308251.7	422176.93
Main River South Bank	601	1321588.857	423388.4091	Main River South Bank	648	1307921.9	421985.96
Main River South Bank	602	1321291.982	423357.1591	Main River South Bank	649	1307487.8	421734.22
Main River South Bank	603	1320875.314	422956.1168	Main River South Bank	650	1307071.2	421543.25
Main River South Bank	604	1320734.689	422909.2415	Main River South Bank	651	1306819.4	421387
Main River South Bank	605	1320578.438	422888.4082	Main River South Bank	652	1306506.9	421187.35
Main River South Bank	606	1320255.522	422909.2415	Main River South Bank	653	1306237.8	421031.1
Main River South Bank	607	1319979.479	422945.7002	Main River South Bank	654	1305960.1	420848.81
Main River South Bank	608	1319745.104	423029.0335	Main River South Bank	655	1305621.5	420640.47
Main River South Bank	609	1319531.562	423112.3671	Main River South Bank	656	1304892.3	420145.68

Main River South Bank	657	1304119.776	419564.0807	Main River South Bank	704	1301880.2	406126.55
Main River South Bank	658	1303746.512	419286.3025	Main River South Bank	705	1302105.9	405770.65
Main River South Bank	659	1303425.331	418965.1214	Main River South Bank	706	1302375	405336.62
Main River South Bank	660	1302956.58	418539.7733	Main River South Bank	707	1302618	404850.51
Main River South Bank	661	1302591.996	418157.8281	Main River South Bank	708	1302713.5	404511.97
Main River South Bank	662	1302019.078	417610.9518	Main River South Bank	709	1302793.4	404101.23
Main River South Bank	663	1301906.231	417437.3406	Main River South Bank	710	1302788.7	404066.54
Main River South Bank	664	1301845.467	417263.729	Main River South Bank	711	1302785.2	403887.11
Main River South Bank	665	1301741.299	417003.3117	Main River South Bank	712	1302792.1	403671.84
Main River South Bank	666	1301611.091	416829.7005	Main River South Bank	713	1302729.6	403303.78
Main River South Bank	667	1301437.48	416482.4774	Main River South Bank	714	1302660.2	403074.61
Main River South Bank	668	1301229.146	416204.6992	Main River South Bank	715	1302620.5	402889.35
Main River South Bank	669	1300881.923	415761.9899	Main River South Bank	716	1302618.5	402880.17
Main River South Bank	670	1300586.784	415423.4476	Main River South Bank	717	1302500.4	402442.67
Main River South Bank	671	1300447.894	415284.5585	Main River South Bank	718	1302250.4	401970.44
Main River South Bank	672	1300417.272	415167.1739	Main River South Bank	719	1302187.9	401609.33
Main River South Bank	673	1300157.921	414966.1769	Main River South Bank	720	1302056	401359.33
Main River South Bank	674	1299973.459	414814.2668	Main River South Bank	721	1302000.4	401241.27
Main River South Bank	675	1299799.847	414694.9088	Main River South Bank	722	1301972.7	401151
Main River South Bank	676	1299593.684	414564.7002	Main River South Bank	723	1301917.1	400970.44
Main River South Bank	677	1299224.759	414260.8803	Main River South Bank	724	1301896.3	400852.38
Main River South Bank	678	1299094.551	414119.8209	Main River South Bank	725	1301854.6	400741.27
Main River South Bank	679	1298931.79	413870.2543	Main River South Bank	726	1301778.2	400567.66
Main River South Bank	680	1298913.268	413810.0558	Main River South Bank	727	1301729.6	400394.05
Main River South Bank	681	1298544.785	413328.7727	Main River South Bank	728	1301660.2	400234.33
Main River South Bank	682	1298303.118	412995.4387	Main River South Bank	729	1301632.4	400123.22
Main River South Bank	683	1297878.117	412487.1044	Main River South Bank	730	1301625.4	400053.77
Main River South Bank	684	1297661.45	412170.4371	Main River South Bank	731	1301604.6	399956.55
Main River South Bank	685	1297336.449	411412.1024	Main River South Bank	732	1301569.9	399803.77
Main River South Bank	686	1297069.782	410453.7671	Main River South Bank	733	1301535.2	399727.38
Main River South Bank	687	1297061.449	410012.0995	Main River South Bank	734	1301451.8	399567.66
Main River South Bank	688	1297119.782	409620.4322	Main River South Bank	735	1301355.1	399465.4
Main River South Bank	689	1297203.116	409303.7648	Main River South Bank	736	1301188.4	399208.46
Main River South Bank	690	1297419.783	408812.0972	Main River South Bank	737	1301091.2	399027.9
Main River South Bank	691	1297911.451	408278.7625	Main River South Bank	738	1301049	398840.81
Main River South Bank	692	1298078.117	408245.4292	Main River South Bank	739	1300917.1	398566.5
Main River South Bank	693	1298594.785	408045.4289	Main River South Bank	740	1300809.5	398410.25
Main River South Bank	694	1298607.613	408044.9607	Main River South Bank	741	1300590.7	398194.97
Main River South Bank	695	1298798.586	408010.2383	Main River South Bank	742	1300451.8	398090.81
Main River South Bank	696	1299145.808	407940.7937	Main River South Bank	743	1300174.5	397979.29
Main River South Bank	697	1299380.184	407914.752	Main River South Bank	744	1299952.3	397868.18
Main River South Bank	698	1299684.004	407827.9463	Main River South Bank	745	1299566.4	397788.72
Main River South Bank	699	1299996.504	407741.1405	Main River South Bank	746	1299462.2	397785.25
Main River South Bank	700	1300369.769	407472.0427	Main River South Bank	747	1299372.3	397772.76
Main River South Bank	701	1300630.186	407263.7091	Main River South Bank	748	1299314.3	397785.46
Main River South Bank	702	1300899.284	407020.653	Main River South Bank	749	1299267.4	397775.05
Main River South Bank	703	1301567.688	406456.4158	Main River South Bank	750	1299231.2	397765.17

Main River South Bank	751	1299223.042	397765.1694	Main River South Bank	798	1288745.7	393650.47
Main River South Bank	752	1299092.833	397754.3187	Main River South Bank	799	1288658.9	393422.61
Main River South Bank	753	1298908.371	397710.9158	Main River South Bank	800	1288593.8	393238.14
Main River South Bank	754	1298593.7	397710.9158	Main River South Bank	801	1288463.6	393042.83
Main River South Bank	755	1298181.373	397732.6172	Main River South Bank	802	1288300.8	392728.16
Main River South Bank	756	1297779.897	397743.468	Main River South Bank	803	1288127.2	392456.89
Main River South Bank	757	1297486.927	397754.3187	Main River South Bank	804	1288029.5	392239.88
Main River South Bank	758	1297204.809	397797.7216	Main River South Bank	805	1287910.2	392120.52
Main River South Bank	759	1297009.495	397841.1245	Main River South Bank	806	1287628	391892.66
Main River South Bank	760	1296835.884	397906.2288	Main River South Bank	807	1287324.2	391708.19
Main River South Bank	761	1296651.422	398003.8853	Main River South Bank	808	1287118.1	391599.69
Main River South Bank	762	1296293.348	398134.0939	Main River South Bank	809	1286857.6	391512.88
Main River South Bank	763	1295826.767	398101.5418	Main River South Bank	810	1286618.9	391447.78
Main River South Bank	764	1295164.874	397895.3781	Main River South Bank	811	1286412.8	391393.52
Main River South Bank	765	1294622.338	397776.0201	Main River South Bank	812	1286152.3	391360.97
Main River South Bank	766	1294079.802	397667.5129	Main River South Bank	813	1285946.2	391306.72
Main River South Bank	767	1293667.475	397602.4086	Main River South Bank	814	1285664.1	391241.61
Main River South Bank	768	1292983.88	397559.0057	Main River South Bank	815	1285425.4	391143.96
Main River South Bank	769	1292539	397548.155	Main River South Bank	816	1285093.6	390901.75
Main River South Bank	770	1292137.524	397526.4535	Main River South Bank	817	1284899.5	390858.62
Main River South Bank	771	1291877.107	397483.051	Main River South Bank	818	1284788.4	390754.45
Main River South Bank	772	1291453.929	397374.5438	Main River South Bank	819	1284635.6	390629.45
Main River South Bank	773	1291247.765	397341.9916	Main River South Bank	820	1284427.3	390546.11
Main River South Bank	774	1290965.647	397233.4844	Main River South Bank	821	1283982.8	390497.5
Main River South Bank	775	1290770.334	397157.5293	Main River South Bank	822	1283392.5	390365.56
Main River South Bank	776	1290477.364	397005.6192	Main River South Bank	823	1283135.6	390310
Main River South Bank	777	1290260.35	396951.3656	Main River South Bank	824	1282938.4	390264
Main River South Bank	778	1290021.634	396886.2616	Main River South Bank	825	1282718.9	390185
Main River South Bank	779	1289858.874	396821.1573	Main River South Bank	826	1282371.7	390080.84
Main River South Bank	780	1289717.814	396734.3515	Main River South Bank	827	1282100.9	389948.89
Main River South Bank	781	1289609.307	396604.1428	Main River South Bank	828	1282098.7	389948.14
Main River South Bank	782	1289598.456	396365.427	Main River South Bank	829	1281883.6	389963.5
Main River South Bank	783	1289565.904	395953.0999	Main River South Bank	830	1281265.1	390039.46
Main River South Bank	784	1289570.366	395918.8925	Main River South Bank	831	1280917.9	390039.46
Main River South Bank	785	1289542.419	395911.2705	Main River South Bank	832	1280483.9	389985.21
Main River South Bank	786	1289516.377	395864.3951	Main River South Bank	833	1280039	389898.4
Main River South Bank	787	1289490.335	395791.4785	Main River South Bank	834	1279496.4	389713.94
Main River South Bank	788	1289479.918	395666.4781	Main River South Bank	835	1279051.6	389529.48
Main River South Bank	789	1289453.406	395522.5585	Main River South Bank	836	1278780.3	389410.12
Main River South Bank	790	1289405.393	395462.5415	Main River South Bank	837	1278639.2	389345.01
Main River South Bank	791	1289379.351	395189.1035	Main River South Bank	838	1278509	389301.61
Main River South Bank	792	1289212.251	394789.797	Main River South Bank	839	1278346.3	389279.91
Main River South Bank	793	1289147.146	394637.8869	Main River South Bank	840	1278129.2	389323.31
Main River South Bank	794	1289060.34	394366.6192	Main River South Bank	841	1277923.1	389377.57
Main River South Bank	795	1288973.535	394138.7541	Main River South Bank	842	1277641	389442.67
Main River South Bank	796	1288875.878	393932.5904	Main River South Bank	843	1277348	389464.37
Main River South Bank	797	1288832.475	393726.427	Main River South Bank	844	1277120.1	389464.37

Main River South Bank	845	1276870.567	389464.3715	Main River South Bank	892	1261577.2	385920.24
Main River South Bank	846	1276610.149	389464.3715	Main River South Bank	893	1261184.8	385861.21
Main River South Bank	847	1276225.6	389401.0034	Main River South Bank	894	1260706.5	385792.41
Main River South Bank	848	1276183.933	389380.1701	Main River South Bank	895	1260495.3	385846.57
Main River South Bank	849	1275954.766	389338.5034	Main River South Bank	896	1259505.7	386120.01
Main River South Bank	850	1275517.265	389317.6701	Main River South Bank	897	1258333.8	386692.93
Main River South Bank	851	1275350.598	389276.0031	Main River South Bank	898	1257500.5	387213.76
Main River South Bank	852	1275246.431	389255.1698	Main River South Bank	899	1256315.6	388034.08
Main River South Bank	853	1275100.598	389171.8364	Main River South Bank	900	1254831.2	388750.23
Main River South Bank	854	1274954.764	389088.5028	Main River South Bank	901	1254102.1	389075.75
Main River South Bank	855	1274704.764	388942.6691	Main River South Bank	902	1253307.8	389440.33
Main River South Bank	856	1274579.763	388880.1691	Main River South Bank	903	1252787	389648.67
Main River South Bank	857	1274371.43	388838.5024	Main River South Bank	904	1251992.7	389883.04
Main River South Bank	858	1274246.429	388796.8355	Main River South Bank	905	1251354.7	389948.15
Main River South Bank	859	1274100.596	388734.3355	Main River South Bank	906	1250951	389974.19
Main River South Bank	860	1273850.595	388734.3355	Main River South Bank	907	1250742.7	389935.12
Main River South Bank	861	1273496.428	388734.3355	Main River South Bank	908	1250586.4	389843.98
Main River South Bank	862	1273075.591	388716.9473	Main River South Bank	909	1250404.1	389687.73
Main River South Bank	863	1272808.926	388671.8355	Main River South Bank	910	1250117.7	389336.16
Main River South Bank	864	1272708.918	388645.5661	Main River South Bank	911	1249961.4	389192.94
Main River South Bank	865	1272558.926	388609.3351	Main River South Bank	912	1249779.1	389088.77
Main River South Bank	866	1272291.223	388549.3925	Main River South Bank	913	1249622.9	388984.6
Main River South Bank	867	1272200.3	388523.5162	Main River South Bank	914	1249505.7	388906.48
Main River South Bank	868	1272152.899	388515.0448	Main River South Bank	915	1249401.5	388867.41
Main River South Bank	869	1272099.62	388494.9824	Main River South Bank	916	1249336.4	388867.41
Main River South Bank	870	1272007.104	388469.1494	Main River South Bank	917	1249284.4	388802.31
Main River South Bank	871	1271790.814	388378.3824	Main River South Bank	918	1249261	388691.33
Main River South Bank	872	1271597.379	388328.8656	Main River South Bank	919	1249244.4	388688.31
Main River South Bank	873	1271179.223	388180.9106	Main River South Bank	920	1248947.5	388400.17
Main River South Bank	874	1270371.47	387877.9992	Main River South Bank	921	1248164.3	387957.36
Main River South Bank	875	1269746.469	387704.3879	Main River South Bank	922	1247794.5	387707.36
Main River South Bank	876	1269173.552	387565.4985	Main River South Bank	923	1247570.6	387545.9
Main River South Bank	877	1268722.162	387461.3318	Main River South Bank	924	1247403.9	387415.7
Main River South Bank	878	1268236.05	387322.4427	Main River South Bank	925	1246877.9	386842.78
Main River South Bank	879	1267697.854	387183.5533	Main River South Bank	926	1246638.3	386571.94
Main River South Bank	880	1266257.77	386805.6573	Main River South Bank	927	1246544.5	386410.48
Main River South Bank	881	1266000.825	386791.7682	Main River South Bank	928	1246497.7	386259.44
Main River South Bank	882	1265598.047	386708.4349	Main River South Bank	929	1246440.4	386124.03
Main River South Bank	883	1265018.184	386659.8236	Main River South Bank	930	1246367.4	385988.61
Main River South Bank	884	1264579.991	386546.1065	Main River South Bank	931	1246242.4	385821.94
Main River South Bank	885	1264285.544	386423.7121	Main River South Bank	932	1246101.8	385618.82
Main River South Bank	886	1264091.099	386364.6842	Main River South Bank	933	1245883.1	385379.23
Main River South Bank	887	1263900.127	386326.4897	Main River South Bank	934	1245737.2	385249.02
Main River South Bank	888	1263378.599	386233.6058	Main River South Bank	935	1245565.4	385082.36
Main River South Bank	889	1262920.958	386208.4339	Main River South Bank	936	1245341.4	384915.69
Main River South Bank	890	1262579.987	386122.4946	Main River South Bank	937	1245335.5	384766.34
Main River South Bank	891	1262031.374	386004.4388	Main River South Bank	938	1245335.5	384578.84

Main River South Bank	939	1245391.102	384370.5038	Main River South Bank	986	1230885.5	383875.28
Main River South Bank	940	1245523.046	383884.3916	Main River South Bank	987	1230677.1	384513.3
Main River South Bank	941	1245516.102	383217.7236	Main River South Bank	988	1230481.8	385164.34
Main River South Bank	942	1245481.379	382606.6114	Main River South Bank	989	1230169.3	386140.91
Main River South Bank	943	1245245.268	382078.8325	Main River South Bank	990	1229726.6	386870.08
Main River South Bank	944	1244828.6	381460.7758	Main River South Bank	991	1229588.3	387161.72
Main River South Bank	945	1244353.364	381071.4533	Main River South Bank	992	1229127.6	388133.1
Main River South Bank	946	1243988.321	380814.9411	Main River South Bank	993	1229002.8	388478.36
Main River South Bank	947	1243550.82	380502.4405	Main River South Bank	994	1228913.6	388618.75
Main River South Bank	948	1243041.73	380235.514	Main River South Bank	995	1228699.4	388965.63
Main River South Bank	949	1242672.806	380127.0071	Main River South Bank	996	1228545.5	389222.91
Main River South Bank	950	1242313.43	380116.5904	Main River South Bank	997	1228323.3	389702.08
Main River South Bank	951	1242009.61	380008.0832	Main River South Bank	998	1228150.8	390021.18
Main River South Bank	952	1241510.477	379747.6659	Main River South Bank	999	1228061	390170.8
Main River South Bank	953	1241184.955	379574.0546	Main River South Bank	1000	1228025.8	390229.52
Main River South Bank	954	1240881.136	379422.1445	Main River South Bank	1001	1227935.5	390451.74
Main River South Bank	955	1240360.301	379291.9359	Main River South Bank	1002	1227796.6	390792.02
Main River South Bank	956	1239839.466	379161.7272	Main River South Bank	1003	1227484.1	391104.52
Main River South Bank	957	1239383.736	379161.7272	Main River South Bank	1004	1227275.8	391298.96
Main River South Bank	958	1238667.589	379248.533	Main River South Bank	1005	1226991.1	391479.52
Main River South Bank	959	1237951.442	379400.4431	Main River South Bank	1006	1226484.1	391305.91
Main River South Bank	960	1236996.579	379725.9644	Main River South Bank	1007	1226025.8	391132.3
Main River South Bank	961	1236623.124	380044.4995	Main River South Bank	1008	1225942.5	391090.63
Main River South Bank	962	1235896.49	380299.4588	Main River South Bank	1009	1225803.6	391028.13
Main River South Bank	963	1235563.156	380466.1258	Main River South Bank	1010	1225699.4	391007.3
Main River South Bank	964	1235435.103	380542.9575	Main River South Bank	1011	1225498	390979.52
Main River South Bank	965	1235305.578	380588.2912	Main River South Bank	1012	1225338.3	390958.69
Main River South Bank	966	1235131.966	380643.847	Main River South Bank	1013	1225088.3	390937.85
Main River South Bank	967	1234986.133	380685.5136	Main River South Bank	1014	1224794.6	390938.27
Main River South Bank	968	1234771.96	380747.9808	Main River South Bank	1015	1224546.6	390944.8
Main River South Bank	969	1234604.82	380743.9044	Main River South Bank	1016	1224303.6	390951.74
Main River South Bank	970	1234320.098	380757.7932	Main River South Bank	1017	1223907.7	391007.3
Main River South Bank	971	1234164.343	380768.5868	Main River South Bank	1018	1223470.2	391069.8
Main River South Bank	972	1234065.384	380812.8578	Main River South Bank	1019	1223053.6	391139.24
Main River South Bank	973	1234002.885	380854.5245	Main River South Bank	1020	1222928.6	391167.02
Main River South Bank	974	1233903.926	380888.3788	Main River South Bank	1021	1222741.1	391187.85
Main River South Bank	975	1233765.905	380989.9415	Main River South Bank	1022	1222597.6	391230.38
Main River South Bank	976	1233620.071	381036.8165	Main River South Bank	1023	1222337.2	391268.58
Main River South Bank	977	1233424.263	381181.405	Main River South Bank	1024	1221785.1	391358.86
Main River South Bank	978	1233181.356	381333.4365	Main River South Bank	1025	1221303.6	391430.91
Main River South Bank	979	1233140.858	381347.9743	Main River South Bank	1026	1220900.8	391486.46
Main River South Bank	980	1232450.752	381582.3499	Main River South Bank	1027	1220407.7	391507.3
Main River South Bank	981	1232060.127	381881.8296	Main River South Bank	1028	1220060.5	391514.24
Main River South Bank	982	1231786.688	382142.2469	Main River South Bank	1029	1219838.3	391521.19
Main River South Bank	983	1231600.554	382362.8512	Main River South Bank	1030	1219623	391548.96
Main River South Bank	984	1231328.165	382807.5678	Main River South Bank	1031	1219421.6	391597.58
Main River South Bank	985	1231054.727	383341.4231	Main River South Bank	1032	1219362.8	391603.46

Main River South Bank	1033	1219284.254	391615.9001	Main River South Bank	1080	1213709.6	399082.95
Main River South Bank	1034	1219221.559	391634.4536	Main River South Bank	1081	1213725.3	399239.2
Main River South Bank	1035	1219023.837	391675.7961	Main River South Bank	1082	1213782.6	399483.99
Main River South Bank	1036	1218943.107	391673.1921	Main River South Bank	1083	1213824.2	399702.74
Main River South Bank	1037	1218878.003	391694.0254	Main River South Bank	1084	1213865.9	400124.62
Main River South Bank	1038	1218820.239	391706.6265	Main River South Bank	1085	1213855.5	400301.7
Main River South Bank	1039	1218695.711	391764.3381	Main River South Bank	1086	1213818.9	400445.96
Main River South Bank	1040	1218463.94	391863.2964	Main River South Bank	1087	1213818.9	400752.39
Main River South Bank	1041	1217888.418	392037.7761	Main River South Bank	1088	1213786.4	401067.06
Main River South Bank	1042	1217477.16	392167.0211	Main River South Bank	1089	1213732.1	401316.63
Main River South Bank	1043	1217227.159	392278.1324	Main River South Bank	1090	1213731.2	401320.73
Main River South Bank	1044	1216428.546	392965.6337	Main River South Bank	1091	1213782.6	401534.65
Main River South Bank	1045	1216288.551	393078.7672	Main River South Bank	1092	1213895.4	401742.98
Main River South Bank	1046	1215680.911	393747.1714	Main River South Bank	1093	1213973.5	401864.51
Main River South Bank	1047	1215272.924	394068.3525	Main River South Bank	1094	1214269.4	402171.54
Main River South Bank	1048	1215012.183	394263.57	Main River South Bank	1095	1215483.5	403332.07
Main River South Bank	1049	1214773.467	394415.4798	Main River South Bank	1096	1216243	403961.41
Main River South Bank	1050	1214300.7	394719.3955	Main River South Bank	1097	1217328.1	404786.06
Main River South Bank	1051	1214040.283	395127.3823	Main River South Bank	1098	1218391.5	405523.91
Main River South Bank	1052	1214034.604	395127.761	Main River South Bank	1099	1219151	406088.15
Main River South Bank	1053	1214016.932	395163.1051	Main River South Bank	1100	1220062.5	406977.91
Main River South Bank	1054	1213964.849	395232.5497	Main River South Bank	1101	1220843.7	408128.08
Main River South Bank	1055	1213930.127	395301.9942	Main River South Bank	1102	1221842	409191.45
Main River South Bank	1056	1213895.404	395440.8833	Main River South Bank	1103	1222406.2	409820.8
Main River South Bank	1057	1213869.362	395562.4115	Main River South Bank	1104	1222753.5	410254.82
Main River South Bank	1058	1213834.64	395692.6199	Main River South Bank	1105	1223100.7	410862.46
Main River South Bank	1059	1213799.918	395805.4673	Main River South Bank	1106	1223013.9	410970.97
Main River South Bank	1060	1213780.202	395821.8968	Main River South Bank	1107	1222796.9	411079.48
Main River South Bank	1061	1213772.14	395858.9831	Main River South Bank	1108	1222251.6	411112.16
Main River South Bank	1062	1213756.515	395916.2751	Main River South Bank	1109	1221501.6	411014.94
Main River South Bank	1063	1213714.848	396093.3587	Main River South Bank	1110	1221119.7	410834.39
Main River South Bank	1064	1213688.807	396249.609	Main River South Bank	1111	1220800.2	410806.61
Main River South Bank	1065	1213631.514	396510.026	Main River South Bank	1112	1220682.2	410737.16
Main River South Bank	1066	1213563.806	397030.8604	Main River South Bank	1113	1220301.2	410580.35
Main River South Bank	1067	1213548.181	397207.9443	Main River South Bank	1114	1220149.3	410536.94
Main River South Bank	1068	1213527.348	397416.278	Main River South Bank	1115	1219910.6	410471.84
Main River South Bank	1069	1213527.348	397619.4033	Main River South Bank	1116	1219693.6	410536.94
Main River South Bank	1070	1213542.973	397770.4453	Main River South Bank	1117	1219520	410580.35
Main River South Bank	1071	1213558.598	397968.3623	Main River South Bank	1118	1218977.4	410536.94
Main River South Bank	1072	1213574.223	398140.2376	Main River South Bank	1119	1218521.7	410515.24
Main River South Bank	1073	1213595.056	398260.0296	Main River South Bank	1120	1218261.3	410493.54
Main River South Bank	1074	1213615.889	398405.8633	Main River South Bank	1121	1217957.5	410298.23
Main River South Bank	1075	1213636.723	398536.072	Main River South Bank	1122	1217458.3	410102.91
Main River South Bank	1076	1213683.598	398608.9886	Main River South Bank	1123	1216894.1	410037.81
Main River South Bank	1077	1213709.64	398765.239	Main River South Bank	1124	1216177.9	410254.82
Main River South Bank	1078	1213709.64	398885.031	Main River South Bank	1125	1215440.1	410710.55
Main River South Bank	1079	1213709.64	398978.781	Main River South Bank	1126	1214658.8	411643.72

Main River South Bank	1127	1214029.492	412359.8639	Main River South Bank	1174	1209328.2	423139.05
Main River South Bank	1128	1213375.244	413279.3462	Main River South Bank	1175	1209367.2	423607.8
Main River South Bank	1129	1213371.879	413287.1408	Main River South Bank	1176	1209380.2	424024.47
Main River South Bank	1130	1213180.456	413577.9525	Main River South Bank	1177	1209471.4	424441.14
Main River South Bank	1131	1212555.905	414398.2543	Main River South Bank	1178	1209679.7	424818.74
Main River South Bank	1132	1212388.353	414728.1283	Main River South Bank	1179	1209914.1	425092.18
Main River South Bank	1133	1212268.995	414912.5906	Main River South Bank	1180	1210070.4	425326.56
Main River South Bank	1134	1212160.488	415064.5007	Main River South Bank	1181	1210161.5	425599.99
Main River South Bank	1135	1212084.533	415194.7094	Main River South Bank	1182	1210187.5	425990.62
Main River South Bank	1136	1212008.578	415335.7684	Main River South Bank	1183	1210187.5	426251.04
Main River South Bank	1137	1211976.026	415455.1264	Main River South Bank	1184	1210135.5	426368.23
Main River South Bank	1138	1211943.474	415639.5886	Main River South Bank	1185	1209966.2	426524.48
Main River South Bank	1139	1211943.474	415791.4987	Main River South Bank	1186	1209862	426498.43
Main River South Bank	1140	1211889.22	415954.2592	Main River South Bank	1187	1209731.8	426342.18
Main River South Bank	1141	1211802.414	416084.4679	Main River South Bank	1188	1209588.6	426042.7
Main River South Bank	1142	1211661.355	416236.378	Main River South Bank	1189	1209419.3	425639.06
Main River South Bank	1143	1211411.788	416659.5558	Main River South Bank	1190	1209198	425183.33
Main River South Bank	1144	1211250.113	416908.8511	Main River South Bank	1191	1208898.5	424805.72
Main River South Bank	1145	1211211.05	416960.9344	Main River South Bank	1192	1208481.8	424323.95
Main River South Bank	1146	1211145.946	417086.8029	Main River South Bank	1193	1207908.9	423764.05
Main River South Bank	1147	1211098.203	417182.2891	Main River South Bank	1194	1207453.2	423373.43
Main River South Bank	1148	1211011.397	417260.4144	Main River South Bank	1195	1206971.4	422852.59
Main River South Bank	1149	1210881.189	417347.2202	Main River South Bank	1196	1206619.8	422383.84
Main River South Bank	1150	1210659.834	417512.151	Main River South Bank	1197	1206385.5	422071.34
Main River South Bank	1151	1210464.521	417668.4013	Main River South Bank	1198	1206216.2	421797.9
Main River South Bank	1152	1210342.993	417742.1861	Main River South Bank	1199	1205955.8	421576.55
Main River South Bank	1153	1210159.252	417861.8317	Main River South Bank	1200	1205773.5	421394.26
Main River South Bank	1154	1210156.36	417863.7143	Main River South Bank	1201	1205643.3	421133.84
Main River South Bank	1155	1209939.347	418006.9436	Main River South Bank	1202	1205552.1	420886.44
Main River South Bank	1156	1209826.499	418080.7284	Main River South Bank	1203	1205421.9	420599.98
Main River South Bank	1157	1209707.532	418157.4813	Main River South Bank	1204	1205213.6	420300.5
Main River South Bank	1158	1209184.936	418620.8137	Main River South Bank	1205	1205005.2	420105.19
Main River South Bank	1159	1209119.832	418894.252	Main River South Bank	1206	1204471.4	419805.71
Main River South Bank	1160	1209067.749	419284.8777	Main River South Bank	1207	1204093.8	419636.44
Main River South Bank	1161	1209054.727	419467.1697	Main River South Bank	1208	1203690.1	419467.17
Main River South Bank	1162	1208950.561	419623.42	Main River South Bank	1209	1203247.4	419389.04
Main River South Bank	1163	1208807.331	419883.8373	Main River South Bank	1210	1202856.8	419402.07
Main River South Bank	1164	1208729.206	420066.1293	Main River South Bank	1211	1202492.2	419402.07
Main River South Bank	1165	1208612.019	420339.5673	Main River South Bank	1212	1202153.7	419428.11
Main River South Bank	1166	1208533.893	420665.0886	Main River South Bank	1213	1201802.1	419532.27
Main River South Bank	1167	1208507.852	421003.6309	Main River South Bank	1214	1201773	419532.11
Main River South Bank	1168	1208507.851	421159.8813	Main River South Bank	1215	1201736.8	419553.24
Main River South Bank	1169	1208612.019	421589.5699	Main River South Bank	1216	1201563.1	419587.96
Main River South Bank	1170	1208768.269	421889.0496	Main River South Bank	1217	1201424.3	419622.69
Main River South Bank	1171	1208924.519	422162.4876	Main River South Bank	1218	1201311.4	419631.37
Main River South Bank	1172	1209119.832	422422.9049	Main River South Bank	1219	1201224.6	419614
Main River South Bank	1173	1209210.978	422553.1132	Main River South Bank	1220	1201111.8	419596.64

Main River South Bank	1221	1200938.138	419561.921	Main River South Bank	1268	1196770.6	421242.21
Main River South Bank	1222	1200764.527	419509.8376	Main River South Bank	1269	1196310.5	421441.87
Main River South Bank	1223	1200547.513	419475.1155	Main River South Bank	1270	1195859.1	421598.12
Main River South Bank	1224	1200365.221	419449.0735	Main River South Bank	1271	1195329.6	421780.41
Main River South Bank	1225	1200113.484	419414.3514	Main River South Bank	1272	1194912.9	421962.7
Main River South Bank	1226	1199939.873	419414.3514	Main River South Bank	1273	1194496.3	422110.27
Main River South Bank	1227	1199920.443	419420.4233	Main River South Bank	1274	1194105.6	422231.8
Main River South Bank	1228	1199905.15	419388.3097	Main River South Bank	1275	1193793.1	422309.92
Main River South Bank	1229	1199905.15	419268.9518	Main River South Bank	1276	1193489.3	422362.01
Main River South Bank	1230	1199937.702	419138.7431	Main River South Bank	1277	1193237.6	422396.73
Main River South Bank	1231	1199948.553	419019.3852	Main River South Bank	1278	1193166.1	422391.23
Main River South Bank	1232	1199948.553	418780.6697	Main River South Bank	1279	1193097.3	422428.49
Main River South Bank	1233	1199905.15	418628.7596	Main River South Bank	1280	1192889	422493.59
Main River South Bank	1234	1199818.345	418487.7002	Main River South Bank	1281	1192459.3	422623.8
Main River South Bank	1235	1199764.091	418368.3422	Main River South Bank	1282	1192107.7	422662.87
Main River South Bank	1236	1199731.539	418281.5365	Main River South Bank	1283	1191378.6	422754.01
Main River South Bank	1237	1199655.584	418259.835	Main River South Bank	1284	1190870.8	422832.14
Main River South Bank	1238	1199612.181	418314.0886	Main River South Bank	1285	1190232.7	422871.2
Main River South Bank	1239	1199623.031	418433.4466	Main River South Bank	1286	1189685.9	422884.22
Main River South Bank	1240	1199644.733	418585.3567	Main River South Bank	1287	1188657.2	422727.97
Main River South Bank	1241	1199644.733	418748.1175	Main River South Bank	1288	1187954.1	422532.66
Main River South Bank	1242	1199677.285	418943.4302	Main River South Bank	1289	1186886.4	422194.12
Main River South Bank	1243	1199666.435	419106.191	Main River South Bank	1290	1186482.7	422115.99
Main River South Bank	1244	1199601.331	419344.9069	Main River South Bank	1291	1186305.1	422038.91
Main River South Bank	1245	1199579.629	419518.5181	Main River South Bank	1292	1186269.9	422038.91
Main River South Bank	1246	1199576.158	419523.9715	Main River South Bank	1293	1186016.8	422011.65
Main River South Bank	1247	1199687.253	419688.3905	Main River South Bank	1294	1185980.5	422003.96
Main River South Bank	1248	1199800.1	419914.0853	Main River South Bank	1295	1185700.8	421910.72
Main River South Bank	1249	1199938.989	420096.3773	Main River South Bank	1296	1184841.4	421624.26
Main River South Bank	1250	1199965.031	420183.1831	Main River South Bank	1297	1184164.4	421285.72
Main River South Bank	1251	1199982.392	420296.0305	Main River South Bank	1298	1183695.6	421025.3
Main River South Bank	1252	1199956.35	420348.1139	Main River South Bank	1299	1183278.9	420686.76
Main River South Bank	1253	1199895.586	420391.5168	Main River South Bank	1300	1182914.4	420270.09
Main River South Bank	1254	1199800.1	420434.9197	Main River South Bank	1301	1182133.1	419488.84
Main River South Bank	1255	1199635.169	420487.003	Main River South Bank	1302	1181742.5	418863.84
Main River South Bank	1256	1199418.154	420573.8088	Main River South Bank	1303	1181221.6	417718.01
Main River South Bank	1257	1199183.779	420651.9338	Main River South Bank	1304	1180909.1	416624.25
Main River South Bank	1258	1198897.32	420764.7812	Main River South Bank	1305	1180778.9	415816.96
Main River South Bank	1259	1198749.75	420825.5453	Main River South Bank	1306	1180778.9	415377.5
Main River South Bank	1260	1198654.264	420868.9482	Main River South Bank	1307	1180830.6	414731.62
Main River South Bank	1261	1198411.208	420912.3511	Main River South Bank	1308	1180872.3	414439.95
Main River South Bank	1262	1198194.193	420912.3511	Main River South Bank	1309	1180976.4	413960.78
Main River South Bank	1263	1198046.624	420912.3511	Main River South Bank	1310	1180994.8	413864.19
Main River South Bank	1264	1197907.735	420921.0315	Main River South Bank	1311	1180990.2	413826.83
Main River South Bank	1265	1197708.082	420947.0735	Main River South Bank	1312	1180976.3	413674.06
Main River South Bank	1266	1197456.345	421016.5181	Main River South Bank	1313	1180955.4	413535.17
Main River South Bank	1267	1197126.483	421120.6847	Main River South Bank	1314	1180941.6	413368.5

Main River South Bank	1315	1180858.221	413111.5542	Main River South Bank	1362	1179877.4	398919.07
Main River South Bank	1316	1180733.221	412687.9423	Main River South Bank	1363	1179731.6	398919.07
Main River South Bank	1317	1180670.721	412174.0522	Main River South Bank	1364	1179655.2	398877.4
Main River South Bank	1318	1180649.888	411930.9965	Main River South Bank	1365	1179620.5	398835.73
Main River South Bank	1319	1180615.166	411660.1625	Main River South Bank	1366	1179599.6	398752.4
Main River South Bank	1320	1180594.332	411437.9397	Main River South Bank	1367	1179606.6	398662.12
Main River South Bank	1321	1180566.554	411264.3285	Main River South Bank	1368	1179564.9	398585.73
Main River South Bank	1322	1180524.888	410986.5499	Main River South Bank	1369	1179488.5	398502.4
Main River South Bank	1323	1180524.888	410722.6605	Main River South Bank	1370	1179363.5	398391.29
Main River South Bank	1324	1180573.499	410444.8823	Main River South Bank	1371	1179120.5	398238.51
Main River South Bank	1325	1180649.888	410125.4371	Main River South Bank	1372	1178787.1	398099.62
Main River South Bank	1326	1180795.722	409562.9361	Main River South Bank	1373	1178439.9	397960.73
Main River South Bank	1327	1180934.611	409201.8242	Main River South Bank	1374	1178162.1	397856.57
Main River South Bank	1328	1181149.889	408667.1008	Main River South Bank	1375	1177891.3	397814.9
Main River South Bank	1329	1181302.667	408333.7668	Main River South Bank	1376	1177564.9	397807.95
Main River South Bank	1330	1181462.389	408055.9886	Main River South Bank	1377	1177273.2	397828.79
Main River South Bank	1331	1181584.463	407918.1631	Main River South Bank	1378	1177169.1	397856.57
Main River South Bank	1332	1181584.309	407869.5135	Main River South Bank	1379	1177068.8	397883.91
Main River South Bank	1333	1181777.018	407513.61	Main River South Bank	1380	1176980.1	397855.52
Main River South Bank	1334	1182021.81	407284.4427	Main River South Bank	1381	1176719.7	397652.4
Main River South Bank	1335	1182436.741	407110.8314	Main River South Bank	1382	1176511.4	397496.15
Main River South Bank	1336	1182810.187	407092.984	Main River South Bank	1383	1176224.9	397209.69
Main River South Bank	1337	1182936.742	407069.1645	Main River South Bank	1384	1176073.9	397001.36
Main River South Bank	1338	1183021.812	407044.859	Main River South Bank	1385	1175969.7	396803.44
Main River South Bank	1339	1183186.743	406975.4145	Main River South Bank	1386	1175834.3	396563.86
Main River South Bank	1340	1183490.563	406730.6221	Main River South Bank	1387	1175704.1	396397.19
Main River South Bank	1341	1183889.869	406279.2324	Main River South Bank	1388	1175500.9	396178.44
Main River South Bank	1342	1183945.425	406225.4128	Main River South Bank	1389	1175381.2	396084.69
Main River South Bank	1343	1184065.464	405957.7383	Main River South Bank	1390	1175219.7	396001.35
Main River South Bank	1344	1184145.078	405749.7176	Main River South Bank	1391	1174980.1	395891.98
Main River South Bank	1345	1184202.37	405451.1057	Main River South Bank	1392	1174740.5	395839.9
Main River South Bank	1346	1184254.453	404968.466	Main River South Bank	1393	1174365.5	395751.35
Main River South Bank	1347	1184247.509	404399.0204	Main River South Bank	1394	1174141.6	395694.06
Main River South Bank	1348	1184186.745	403676.7967	Main River South Bank	1395	1174042.6	395678.44
Main River South Bank	1349	1184122.509	403102.1428	Main River South Bank	1396	1173957.2	395651.47
Main River South Bank	1350	1184032.411	402677.7448	Main River South Bank	1397	1173934.5	395662.84
Main River South Bank	1351	1183862.091	402190.6825	Main River South Bank	1398	1173198.4	395635.07
Main River South Bank	1352	1183539.354	401518.0201	Main River South Bank	1399	1173101.1	395635.07
Main River South Bank	1353	1183351.165	401190.6323	Main River South Bank	1400	1172274.8	395989.23
Main River South Bank	1354	1182761.574	400719.4076	Main River South Bank	1401	1172136.6	396226.34
Main River South Bank	1355	1181594.906	399872.1835	Main River South Bank	1402	1171733.1	396662.85
Main River South Bank	1356	1180664.348	399316.6271	Main River South Bank	1403	1171337.3	396871.18
Main River South Bank	1357	1180579.979	399246.0323	Main River South Bank	1404	1171226.1	397051.74
Main River South Bank	1358	1180514.397	399238.5372	Main River South Bank	1405	1171080.3	397148.96
Main River South Bank	1359	1180488.512	399210.735	Main River South Bank	1406	1171007	397116.36
Main River South Bank	1360	1180106.567	398995.4568	Main River South Bank	1407	1170889.5	397257.36
Main River South Bank	1361	1179981.567	398919.068	Main River South Bank	1408	1170663.8	397587.22

Main River South Bank	1409	1170464.103	397821.5933	Main River South Bank	1456	1162382.9	395063.85
Main River South Bank	1410	1170316.534	397943.1212	Main River South Bank	1457	1162539.1	394786.07
Main River South Bank	1411	1170056.117	398177.4965	Main River South Bank	1458	1162678	394525.66
Main River South Bank	1412	1169787.019	398368.4693	Main River South Bank	1459	1162816.9	394317.32
Main River South Bank	1413	1169532.922	398551.6553	Main River South Bank	1460	1162903.7	394265.24
Main River South Bank	1414	1169398.357	398612.2098	Main River South Bank	1461	1163007.9	394195.8
Main River South Bank	1415	1169235.596	398709.8659	Main River South Bank	1462	1163107.3	394165.2
Main River South Bank	1416	1169094.537	398774.9703	Main River South Bank	1463	1163317	393897.69
Main River South Bank	1417	1168790.717	399078.7905	Main River South Bank	1464	1163499.2	393498.39
Main River South Bank	1418	1167846.705	399892.5943	Main River South Bank	1465	1163534	393177.21
Main River South Bank	1419	1167499.482	400174.7127	Main River South Bank	1466	1163724.9	392769.22
Main River South Bank	1420	1167141.408	400456.8315	Main River South Bank	1467	1163785.7	392231.02
Main River South Bank	1421	1166436.112	400890.86	Main River South Bank	1468	1164080.8	391788.32
Main River South Bank	1422	1165676.561	401346.59	Main River South Bank	1469	1164306.5	391727.55
Main River South Bank	1423	1165307.637	401531.0523	Main River South Bank	1470	1164740.6	391345.61
Main River South Bank	1424	1164862.758	401661.2609	Main River South Bank	1471	1164853.4	390894.22
Main River South Bank	1425	1164569.789	401693.8131	Main River South Bank	1472	1164846.7	390833.67
Main River South Bank	1426	1164510.144	401690.4046	Main River North Bank	1	1466865.5	371405.43
Main River South Bank	1427	1164344.3	401649.7258	Main River North Bank	2	1466778.7	371478.01
Main River South Bank	1428	1163823.465	401276.4611	Main River North Bank	3	1466613.8	371642.94
Main River South Bank	1429	1163528.326	401102.8498	Main River North Bank	4	1466370.8	371825.23
Main River South Bank	1430	1163016.172	400755.6267	Main River North Bank	5	1466221.4	371929.61
Main River South Bank	1431	1162868.602	400616.7376	Main River North Bank	6	1465783	372207.39
Main River South Bank	1432	1162755.755	400469.1678	Main River North Bank	7	1465574.7	372367.98
Main River South Bank	1433	1162642.908	400338.9594	Main River North Bank	8	1465114.6	372671.8
Main River South Bank	1434	1162608.185	400234.7924	Main River North Bank	9	1464719.7	372901.84
Main River South Bank	1435	1162538.741	399774.7222	Main River North Bank	10	1464348.2	373075.23
Main River South Bank	1436	1162504.018	399410.1379	Main River North Bank	11	1463957.6	373240.16
Main River South Bank	1437	1162443.254	399062.9151	Main River North Bank	12	1463532.2	373370.37
Main River South Bank	1438	1162408.532	398802.4978	Main River North Bank	13	1463098.2	373448.5
Main River South Bank	1439	1162391.171	398481.3167	Main River North Bank	14	1462638.1	373552.66
Main River South Bank	1440	1162408.532	398316.3859	Main River North Bank	15	1462143.3	373648.15
Main River South Bank	1441	1162399.852	398194.8577	Main River North Bank	16	1461752.7	373769.68
Main River South Bank	1442	1162347.768	397882.3571	Main River North Bank	17	1461414.1	373899.89
Main River South Bank	1443	1162313.046	397500.4119	Main River North Bank	18	1461223.2	374012.73
Main River South Bank	1444	1162260.962	397205.2724	Main River North Bank	19	1460789.1	374255.79
Main River South Bank	1445	1162264.964	397052.9043	Main River North Bank	20	1460346.4	374481.48
Main River South Bank	1446	1162258.384	397059.6868	Main River North Bank	21	1460033.9	374681.14
Main River South Bank	1447	1162195.884	396920.7977	Main River North Bank	22	1459773.5	374820.03
Main River South Bank	1448	1162140.328	396629.1304	Main River North Bank	23	1458966.2	375384.26
Main River South Bank	1449	1162105.606	396330.5188	Main River North Bank	24	1458584.3	375636
Main River South Bank	1450	1162077.828	396136.0739	Main River North Bank	25	1458271.8	375887.74
Main River South Bank	1451	1162070.884	395962.4624	Main River North Bank	26	1457950.6	376234.96
Main River South Bank	1452	1162070.884	395719.4066	Main River North Bank	27	1457577.3	376755.79
Main River South Bank	1453	1162081.242	395697.2104	Main River North Bank	28	1457282.2	377198.5
Main River South Bank	1454	1162135.513	395558.9348	Main River North Bank	29	1457178	377441.56
Main River South Bank	1455	1162122.444	395480.5201	Main River North Bank	30	1457152	377580.45

Main River North Bank	31	1457151.983	377675.9346	Main River North Bank	78	1450905.9	389928.8
Main River North Bank	32	1457169.344	377745.3791	Main River North Bank	79	1450629.1	390129.47
Main River North Bank	33	1457204.066	377788.782	Main River North Bank	80	1450456.7	390198.42
Main River North Bank	34	1457264.83	377832.1849	Main River North Bank	81	1450308.3	390247.9
Main River North Bank	35	1457360.317	377892.949	Main River North Bank	82	1450085.1	390288.48
Main River North Bank	36	1457438.442	377936.3519	Main River North Bank	83	1450079.1	390289.57
Main River North Bank	37	1457533.928	378014.4769	Main River North Bank	84	1450072.6	390289.57
Main River North Bank	38	1457629.415	378118.6439	Main River North Bank	85	1449888.1	390289.57
Main River North Bank	39	1457742.262	378292.2554	Main River North Bank	86	1449857.7	390289.57
Main River North Bank	40	1457849.222	378648.8499	Main River North Bank	87	1449662.4	390302.59
Main River North Bank	41	1457812.768	378928.326	Main River North Bank	88	1449493.2	390237.49
Main River North Bank	42	1457725.963	379292.91	Main River North Bank	89	1449363	390159.36
Main River North Bank	43	1457569.712	379640.1331	Main River North Bank	90	1449154.6	390003.11
Main River North Bank	44	1457396.101	379848.4667	Main River North Bank	91	1448894.2	389768.73
Main River North Bank	45	1456840.544	380594.9959	Main River North Bank	92	1448633.8	389521.34
Main River North Bank	46	1456475.961	380907.4966	Main River North Bank	93	1448347.3	389221.86
Main River North Bank	47	1456076.654	381376.2476	Main River North Bank	94	1447995.8	388896.34
Main River North Bank	48	1455781.514	381654.0258	Main River North Bank	95	1447657.2	388635.92
Main River North Bank	49	1455590.542	382035.971	Main River North Bank	96	1447409.8	388466.65
Main River North Bank	50	1455538.458	382296.3883	Main River North Bank	97	1447214.5	388323.42
Main River North Bank	51	1455434.291	382765.1393	Main River North Bank	98	1447071.3	388219.25
Main River North Bank	52	1455364.847	383095.0008	Main River North Bank	99	1446616.4	387861.44
Main River North Bank	53	1455364.847	383320.6957	Main River North Bank	100	1446215.5	387660.98
Main River North Bank	54	1455312.763	384015.1416	Main River North Bank	101	1445590.5	387417.93
Main River North Bank	55	1455317.917	384164.573	Main River North Bank	102	1444600.9	387157.51
Main River North Bank	56	1455273.943	384289.8978	Main River North Bank	103	1443958.6	386914.45
Main River North Bank	57	1455246.165	384491.2872	Main River North Bank	104	1443646.1	386845.01
Main River North Bank	58	1455225.331	384803.7879	Main River North Bank	105	1443385.7	386775.56
Main River North Bank	59	1455232.276	385234.3447	Main River North Bank	106	1443021.1	386740.84
Main River North Bank	60	1455204.498	385609.3453	Main River North Bank	107	1442587	386792.93
Main River North Bank	61	1455148.943	385866.2902	Main River North Bank	108	1442205.1	386931.81
Main River North Bank	62	1455065.609	386220.4575	Main River North Bank	109	1441753.7	387174.87
Main River North Bank	63	1454891.998	386574.6252	Main River North Bank	110	1441250.2	387400.57
Main River North Bank	64	1454600.33	387046.8483	Main River North Bank	111	1440712	387695.7
Main River North Bank	65	1454350.33	387414.9044	Main River North Bank	112	1440311.5	388035.79
Main River North Bank	66	1454121.163	387769.072	Main River North Bank	113	1440302.3	388045.93
Main River North Bank	67	1453940.607	387991.2944	Main River North Bank	114	1439870.8	388439.91
Main River North Bank	68	1453746.162	388220.4618	Main River North Bank	115	1439523.7	388852.66
Main River North Bank	69	1453537.828	388532.9624	Main River North Bank	116	1439270.4	389171.6
Main River North Bank	70	1453458.994	388648.3984	Main River North Bank	117	1439167.2	389349.83
Main River North Bank	71	1453223.114	388816.135	Main River North Bank	118	1439064	389743.81
Main River North Bank	72	1452694.801	389191.3138	Main River North Bank	119	1439035.9	390278.5
Main River North Bank	73	1452565.604	389289.9083	Main River North Bank	120	1439064	390644.34
Main River North Bank	74	1452447.548	389352.4083	Main River North Bank	121	1439110.9	390860.09
Main River North Bank	75	1452253.103	389470.4641	Main River North Bank	122	1439129.7	391089.92
Main River North Bank	76	1451676.713	389616.2977	Main River North Bank	123	1439120.3	391446.38
Main River North Bank	77	1451364.213	389685.7423	Main River North Bank	124	1439157.8	391643.37

Main River North Bank	125	1439289.176	391774.6963	Main River North Bank	172	1437997.4	403400.77
Main River North Bank	126	1439458.026	391952.9266	Main River North Bank	173	1437199.4	404091.49
Main River North Bank	127	1439730.062	392187.4401	Main River North Bank	174	1437059.9	404190.7
Main River North Bank	128	1439992.717	392431.3341	Main River North Bank	175	1436845.3	404397.04
Main River North Bank	129	1440189.708	392637.7062	Main River North Bank	176	1436577.9	404612.32
Main River North Bank	130	1440396.08	392956.6445	Main River North Bank	177	1436326.4	404841.75
Main River North Bank	131	1440527.408	393247.4411	Main River North Bank	178	1436154.3	405060.24
Main River North Bank	132	1440677.496	393613.2823	Main River North Bank	179	1435900.8	405296.35
Main River North Bank	133	1440752.54	393969.7426	Main River North Bank	180	1435671.6	405553.3
Main River North Bank	134	1440790.063	394363.7255	Main River North Bank	181	1435157.8	406046.35
Main River North Bank	135	1440808.824	394485.6724	Main River North Bank	182	1434829	406308.76
Main River North Bank	136	1440846.346	394607.6196	Main River North Bank	183	1434743.1	406403.13
Main River North Bank	137	1440893.249	394832.7524	Main River North Bank	184	1434444.7	406567.27
Main River North Bank	138	1440883.868	395067.2659	Main River North Bank	185	1434097.4	406688.8
Main River North Bank	139	1440865.107	395480.0096	Main River North Bank	186	1433819.7	406775.6
Main River North Bank	140	1440851.502	395840.5385	Main River North Bank	187	1433368.3	406862.41
Main River North Bank	141	1440855.059	395855.7826	Main River North Bank	188	1433003.7	406897.13
Main River North Bank	142	1440855.059	396050.1589	Main River North Bank	189	1432691.2	406879.77
Main River North Bank	143	1440873.009	396597.6163	Main River North Bank	190	1432396.1	406792.97
Main River North Bank	144	1440774.287	396866.8574	Main River North Bank	191	1432066.2	406775.6
Main River North Bank	145	1440711.464	397163.0228	Main River North Bank	192	1431736.3	406706.16
Main River North Bank	146	1440648.641	397539.9607	Main River North Bank	193	1431007.2	406584.63
Main River North Bank	147	1440549.919	398024.5949	Main River North Bank	194	1430434.2	406463.1
Main River North Bank	148	1440487.096	398347.6845	Main River North Bank	195	1429809.2	406306.85
Main River North Bank	149	1440433.248	398607.9509	Main River North Bank	196	1429028	406098.52
Main River North Bank	150	1440420.23	398848.7744	Main River North Bank	197	1428055.8	405924.91
Main River North Bank	151	1440397.344	398865.7832	Main River North Bank	198	1427378.7	405803.38
Main River North Bank	152	1440353.046	399389.1514	Main River North Bank	199	1426701.6	405733.94
Main River North Bank	153	1440371.492	399431.4693	Main River North Bank	200	1425833.5	405733.94
Main River North Bank	154	1440382.343	399474.8722	Main River North Bank	201	1424965.5	405733.94
Main River North Bank	155	1440370.407	399587.7196	Main River North Bank	202	1424028	405820.74
Main River North Bank	156	1440359.429	399709.8705	Main River North Bank	203	1422951.6	405872.82
Main River North Bank	157	1440306.45	399872.1199	Main River North Bank	204	1421614.8	406167.96
Main River North Bank	158	1440220.26	400214.7442	Main River North Bank	205	1420937.7	406393.66
Main River North Bank	159	1440150.199	400371.2527	Main River North Bank	206	1419479.4	406671.44
Main River North Bank	160	1439967.908	400701.1143	Main River North Bank	207	1418437.7	406949.22
Main River North Bank	161	1439538.157	401107.905	Main River North Bank	208	1417951.6	407053.38
Main River North Bank	162	1439394.99	401330.4558	Main River North Bank	209	1417847.4	407140.19
Main River North Bank	163	1439347.247	401391.2199	Main River North Bank	210	1417847.4	407244.36
Main River North Bank	164	1439314.198	401678.2186	Main River North Bank	211	1417968.9	407348.52
Main River North Bank	165	1439281.212	401857.0382	Main River North Bank	212	1418159.9	407452.69
Main River North Bank	166	1439227.392	402041.0664	Main River North Bank	213	1418385.6	407574.22
Main River North Bank	167	1439180.517	402164.3305	Main River North Bank	214	1418611.3	407574.22
Main River North Bank	168	1439126.698	402251.1363	Main River North Bank	215	1418819.6	407539.49
Main River North Bank	169	1438913.156	402532.3869	Main River North Bank	216	1419132.1	407556.86
Main River North Bank	170	1438586.766	402860.5126	Main River North Bank	217	1419479.4	407556.86
Main River North Bank	171	1438195.951	403240.7921	Main River North Bank	218	1419826.6	407608.94

Main River North Bank	219	1420625.194	407904.0785	Main River North Bank	266	1419690.7	419132.75
Main River North Bank	220	1420989.779	408077.69	Main River North Bank	267	1419052.9	419458.96
Main River North Bank	221	1421389.085	408355.4683	Main River North Bank	268	1418531.8	419731.71
Main River North Bank	222	1421649.502	408546.441	Main River North Bank	269	1417795.5	420106.6
Main River North Bank	223	1421840.475	408685.3301	Main River North Bank	270	1417174.2	420333.27
Main River North Bank	224	1422118.253	409015.192	Main River North Bank	271	1416652.2	420585.67
Main River North Bank	225	1422448.115	409379.776	Main River North Bank	272	1416110	420847.16
Main River North Bank	226	1422569.643	409605.4709	Main River North Bank	273	1415789	420965.91
Main River North Bank	227	1422691.171	409917.9715	Main River North Bank	274	1415566.8	421049.25
Main River North Bank	228	1422760.615	410195.7497	Main River North Bank	275	1415451	421087.02
Main River North Bank	229	1422847.421	410681.8619	Main River North Bank	276	1415405.1	421101.97
Main River North Bank	230	1422847.421	411046.4459	Main River North Bank	277	1415087	421094.21
Main River North Bank	231	1422847.421	411306.8633	Main River North Bank	278	1414870	421072.51
Main River North Bank	232	1422847.421	411515.1969	Main River North Bank	279	1414598.7	421018.25
Main River North Bank	233	1422847.421	411706.1694	Main River North Bank	280	1414099.6	420877.19
Main River North Bank	234	1422864.782	411931.8642	Main River North Bank	281	1413383.4	420649.33
Main River North Bank	235	1422882.143	412140.1982	Main River North Bank	282	1412873.4	420410.61
Main River North Bank	236	1422899.505	412331.1707	Main River North Bank	283	1412016.2	420063.39
Main River North Bank	237	1422917.427	412389.4187	Main River North Bank	284	1411137.3	419813.82
Main River North Bank	238	1422909.1	412394.7333	Main River North Bank	285	1410388.6	419705.32
Main River North Bank	239	1422898.25	412518.4315	Main River North Bank	286	1409596.5	419694.47
Main River North Bank	240	1422878.719	412655.1507	Main River North Bank	287	1408706.8	419694.47
Main River North Bank	241	1422867.868	412781.0188	Main River North Bank	288	1407176.8	419770.42
Main River North Bank	242	1422859.188	412900.3767	Main River North Bank	289	1406384.7	419878.93
Main River North Bank	243	1422892.44	412990.4886	Main River North Bank	290	1405994.1	419933.18
Main River North Bank	244	1422857.717	413181.4613	Main River North Bank	291	1405549.2	419987.44
Main River North Bank	245	1422814.314	413381.1146	Main River North Bank	292	1405507.2	419993.61
Main River North Bank	246	1422788.273	413606.8094	Main River North Bank	293	1404560.9	420048.8
Main River North Bank	247	1422778.989	413722.8636	Main River North Bank	294	1403741.5	420264.08
Main River North Bank	248	1422768.22	413729.7861	Main River North Bank	295	1403435.9	420319.64
Main River North Bank	249	1422779.592	413884.5877	Main River North Bank	296	1402773.2	420456.62
Main River North Bank	250	1422776.649	414106.6992	Main River North Bank	297	1402429	420465.47
Main River North Bank	251	1422801.181	414549.443	Main River North Bank	298	1402102.6	420514.08
Main River North Bank	252	1422807.691	414723.0542	Main River North Bank	299	1401658.1	420583.53
Main River North Bank	253	1422801.181	414853.2628	Main River North Bank	300	1401206.7	420729.36
Main River North Bank	254	1422792.5	414961.7701	Main River North Bank	301	1400804	420819.64
Main River North Bank	255	1422746.927	415104.9994	Main River North Bank	302	1400276.2	420979.36
Main River North Bank	256	1422468.489	415868.8554	Main River North Bank	303	1399942.9	421118.25
Main River North Bank	257	1422186.37	416446.1136	Main River North Bank	304	1399699.8	421208.53
Main River North Bank	258	1422030.12	416719.5516	Main River North Bank	305	1399632.3	421236.04
Main River North Bank	259	1421978.036	416854.1004	Main River North Bank	306	1399487.9	421241.02
Main River North Bank	260	1421934.633	416988.6493	Main River North Bank	307	1399326.4	421209.77
Main River North Bank	261	1421886.89	417170.9413	Main River North Bank	308	1399170.1	421199.35
Main River North Bank	262	1421500.605	417674.4147	Main River North Bank	309	1398956.6	421209.77
Main River North Bank	263	1421231.507	417952.193	Main River North Bank	310	1398737.9	421251.44
Main River North Bank	264	1420749.735	418342.8186	Main River North Bank	311	1398123.3	421329.56
Main River North Bank	265	1420350.429	418685.7015	Main River North Bank	312	1397894.1	421376.44

Main River North Bank	313	1397602.434	421496.228	Main River North Bank	360	1378248.8	420171.9
Main River North Bank	314	1397295.142	421563.9367	Main River North Bank	361	1378140.3	420334.66
Main River North Bank	315	1396862.849	421605.6034	Main River North Bank	362	1378059.1	420497.03
Main River North Bank	316	1396737.849	421652.4784	Main River North Bank	363	1378041.7	420493.76
Main River North Bank	317	1396545.14	421746.2287	Main River North Bank	364	1377927.1	420623.97
Main River North Bank	318	1396336.806	421829.562	Main River North Bank	365	1377885.4	420863.55
Main River North Bank	319	1396086.806	421949.354	Main River North Bank	366	1377802.1	421077.09
Main River North Bank	320	1395758.68	422095.1877	Main River North Bank	367	1377635.4	421275.01
Main River North Bank	321	1395352.429	422272.2714	Main River North Bank	368	1377395.9	421468.08
Main River North Bank	322	1395243.544	422319.9088	Main River North Bank	369	1377254.9	421565.73
Main River North Bank	323	1395230.178	422320.3399	Main River North Bank	370	1377070.4	421663.39
Main River North Bank	324	1394926.358	422439.6979	Main River North Bank	371	1376679.8	421826.15
Main River North Bank	325	1394579.135	422559.0558	Main River North Bank	372	1376365.1	421967.21
Main River North Bank	326	1394221.062	422743.5181	Main River North Bank	373	1376171.9	422077.1
Main River North Bank	327	1393993.196	422852.025	Main River North Bank	374	1376052.1	422139.6
Main River North Bank	328	1393852.137	422938.8307	Main River North Bank	375	1375906.2	422295.85
Main River North Bank	329	1393769.094	423012.647	Main River North Bank	376	1375697.9	422467.72
Main River North Bank	330	1393711.826	423019.8055	Main River North Bank	377	1375572.9	422670.85
Main River North Bank	331	1393243.075	423210.7782	Main River North Bank	378	1375406.2	422832.31
Main River North Bank	332	1392878.491	423471.1952	Main River North Bank	379	1375093.7	423025.01
Main River North Bank	333	1392526.17	423646.9019	Main River North Bank	380	1374927.1	423118.76
Main River North Bank	334	1391940.231	423829.1939	Main River North Bank	381	1374650.7	423171.64
Main River North Bank	335	1391419.397	424076.5902	Main River North Bank	382	1374303.5	423312.7
Main River North Bank	336	1390916.681	424200.3635	Main River North Bank	383	1373771.8	423475.46
Main River North Bank	337	1389843.873	424193.7779	Main River North Bank	384	1373370.3	423638.22
Main River North Bank	338	1389205.503	424021.9091	Main River North Bank	385	1372979.7	423898.64
Main River North Bank	339	1389001.867	423893.6939	Main River North Bank	386	1372578.1	424118.77
Main River North Bank	340	1388665.495	423774.336	Main River North Bank	387	1372231	424278.41
Main River North Bank	341	1388090.407	423513.9187	Main River North Bank	388	1371601.6	424452.02
Main River North Bank	342	1387743.184	423296.9045	Main River North Bank	389	1371287	424538.83
Main River North Bank	343	1387439.364	423079.8901	Main River North Bank	390	1370809.5	424614.79
Main River North Bank	344	1387189.797	422895.4278	Main River North Bank	391	1370375.5	424658.19
Main River North Bank	345	1386365.143	422255.2356	Main River North Bank	392	1369974	424690.74
Main River North Bank	346	1385518.787	421669.2969	Main River North Bank	393	1369778.7	424755.85
Main River North Bank	347	1384672.431	421246.1191	Main River North Bank	394	1369496.6	424864.35
Main River North Bank	348	1383554.807	420671.0312	Main River North Bank	395	1369312.1	424951.16
Main River North Bank	349	1382469.736	420085.0926	Main River North Bank	396	1368921.5	425081.37
Main River North Bank	350	1381992.304	419857.2274	Main River North Bank	397	1368530.9	425081.37
Main River North Bank	351	1381634.231	419672.7651	Main River North Bank	398	1368227.1	425070.52
Main River North Bank	352	1381167.65	419531.7061	Main River North Bank	399	1367727.9	425113.92
Main River North Bank	353	1380798.725	419455.751	Main River North Bank	400	1367337.3	425135.62
Main River North Bank	354	1380254.943	419460.672	Main River North Bank	401	1366935.8	425287.53
Main River North Bank	355	1379780.984	419523.172	Main River North Bank	402	1366566.9	425341.78
Main River North Bank	356	1379290.476	419618.5118	Main River North Bank	403	1366122	425352.63
Main River North Bank	357	1378834.746	419813.8245	Main River North Bank	404	1365796.5	425385.19
Main River North Bank	358	1378541.776	419965.7346	Main River North Bank	405	1365384.2	425363.49
Main River North Bank	359	1378379.016	420052.5404	Main River North Bank	406	1365123.8	425330.93

Main River North Bank	407	1364939.309	425276.6795	Main River North Bank	454	1349037	425994.22
Main River North Bank	408	1364624.638	425222.4259	Main River North Bank	455	1348758.1	425889.73
Main River North Bank	409	1364049.55	425254.978	Main River North Bank	456	1348389	425749.19
Main River North Bank	410	1363437.46	425275.0184	Main River North Bank	457	1348058.3	425602.7
Main River North Bank	411	1363062.135	425222.4259	Main River North Bank	458	1347708.8	425421.3
Main River North Bank	412	1362161.526	425081.3665	Main River North Bank	459	1347117.9	425063.92
Main River North Bank	413	1361598.914	425030.2261	Main River North Bank	460	1347016.1	424995.39
Main River North Bank	414	1360692.662	425061.4764	Main River North Bank	461	1346900.5	424927.36
Main River North Bank	415	1360270.786	425082.3097	Main River North Bank	462	1346728.7	424852.9
Main River North Bank	416	1359895.786	425108.3514	Main River North Bank	463	1346617.3	424794.79
Main River North Bank	417	1359515.577	425160.4347	Main River North Bank	464	1346456	424719.68
Main River North Bank	418	1359135.368	425160.4347	Main River North Bank	465	1346250.5	424653.07
Main River North Bank	419	1358697.867	425160.4347	Main River North Bank	466	1345951	424548.9
Main River North Bank	420	1358255.157	425087.5181	Main River North Bank	467	1344948.4	424444.73
Main River North Bank	421	1358217.232	425081.8694	Main River North Bank	468	1344089	424327.55
Main River North Bank	422	1358019.167	425130.1782	Main River North Bank	469	1343073.4	424223.38
Main River North Bank	423	1357786.985	425030.6716	Main River North Bank	470	1342461.4	424158.27
Main River North Bank	424	1357383.338	424965.5673	Main River North Bank	471	1342057.8	424119.21
Main River North Bank	425	1356888.545	424835.3586	Main River North Bank	472	1341797.4	424093.17
Main River North Bank	426	1356523.961	424679.1083	Main River North Bank	473	1341211.4	423923.9
Main River North Bank	427	1356016.148	424522.8583	Main River North Bank	474	1340859.9	423897.86
Main River North Bank	428	1355469.272	424327.5453	Main River North Bank	475	1340560.4	423897.86
Main River North Bank	429	1355052.604	424184.3156	Main River North Bank	476	1340428.7	423930.77
Main River North Bank	430	1354635.937	424067.128	Main River North Bank	477	1340427.7	423930.4
Main River North Bank	431	1354336.457	423989.003	Main River North Bank	478	1340413.4	423930.4
Main River North Bank	432	1354115.102	423936.9193	Main River North Bank	479	1340077.1	423919.55
Main River North Bank	433	1353672.393	423923.8986	Main River North Bank	480	1339729.8	423952.1
Main River North Bank	434	1353398.955	423936.9193	Main River North Bank	481	1339360.9	424006.35
Main River North Bank	435	1353125.517	423989.003	Main River North Bank	482	1338948.6	424169.11
Main River North Bank	436	1352904.162	424132.2323	Main River North Bank	483	1338731.6	424386.13
Main River North Bank	437	1352682.808	424301.5036	Main River North Bank	484	1338688.2	424570.59
Main River North Bank	438	1352383.328	424470.7746	Main River North Bank	485	1338709.9	424776.75
Main River North Bank	439	1352057.806	424705.1503	Main River North Bank	486	1338840.1	424993.77
Main River North Bank	440	1351771.348	424861.4006	Main River North Bank	487	1338905.2	425199.93
Main River North Bank	441	1351354.68	425069.7343	Main River North Bank	488	1338883.5	425406.1
Main River North Bank	442	1351094.263	425173.9013	Main River North Bank	489	1338861.8	425861.83
Main River North Bank	443	1351003.117	425330.1513	Main River North Bank	490	1338818.4	426263.3
Main River North Bank	444	1350974.134	425504.0496	Main River North Bank	491	1338807.5	426577.97
Main River North Bank	445	1350874.553	425704.6125	Main River North Bank	492	1338830.3	426651.41
Main River North Bank	446	1350795.024	425815.9728	Main River North Bank	493	1338819.8	427198.75
Main River North Bank	447	1350724.486	425905.9022	Main River North Bank	494	1338559.4	427556.82
Main River North Bank	448	1350521.736	426007.0066	Main River North Bank	495	1338244.7	427990.85
Main River North Bank	449	1350246.223	426071.9692	Main River North Bank	496	1337995.1	428229.56
Main River North Bank	450	1350177.448	426081.1263	Main River North Bank	497	1337821.5	428370.62
Main River North Bank	451	1350013.532	426098.3822	Main River North Bank	498	1337528.6	428522.53
Main River North Bank	452	1349687.718	426110.8901	Main River North Bank	499	1337311.5	428663.59
Main River North Bank	453	1349302.596	426074.127	Main River North Bank	500	1336476	429075.92

Main River North Bank	501	1335358.416	429401.4423	Main River North Bank	548	1317454.4	426424.24
Main River North Bank	502	1334808.527	429507.5669	Main River North Bank	549	1317162.7	426382.57
Main River North Bank	503	1334267.373	429559.6742	Main River North Bank	550	1316933.6	426361.73
Main River North Bank	504	1333026.051	430028.4252	Main River North Bank	551	1316787.7	426424.24
Main River North Bank	505	1332322.925	430262.8005	Main River North Bank	552	1316475.2	426445.07
Main River North Bank	506	1331905.052	430361.0144	Main River North Bank	553	1316037.7	426382.57
Main River North Bank	507	1331753.489	430349.8701	Main River North Bank	554	1315621.1	426340.9
Main River North Bank	508	1331427.968	430328.1686	Main River North Bank	555	1315225.2	426278.4
Main River North Bank	509	1330842.029	430230.5121	Main River North Bank	556	1313975.2	426174.23
Main River North Bank	510	1330201.837	430046.0499	Main River North Bank	557	1313621.1	426111.73
Main River North Bank	511	1329420.585	429774.7818	Main River North Bank	558	1313329.4	426049.23
Main River North Bank	512	1328302.961	429405.8576	Main River North Bank	559	1312871.1	425861.73
Main River North Bank	513	1327803.828	429134.5896	Main River North Bank	560	1312600.2	425757.57
Main River North Bank	514	1327207.039	428689.7103	Main River North Bank	561	1312204.4	425695.07
Main River North Bank	515	1326881.517	428494.3973	Main River North Bank	562	1311746.1	425653.4
Main River North Bank	516	1326773.01	428440.144	Main River North Bank	563	1311454.4	425653.4
Main River North Bank	517	1326577.697	428429.2933	Main River North Bank	564	1311083	425788.44
Main River North Bank	518	1326263.026	428396.7411	Main River North Bank	565	1310991	425866.02
Main River North Bank	519	1326089.415	428396.7411	Main River North Bank	566	1310904.9	425913.82
Main River North Bank	520	1325937.505	428396.7411	Main River North Bank	567	1310774.7	425991.94
Main River North Bank	521	1325753.043	428440.144	Main River North Bank	568	1310565.5	426096.3
Main River North Bank	522	1325655.386	428483.5466	Main River North Bank	569	1310201.8	426187.26
Main River North Bank	523	1325460.074	428559.5016	Main River North Bank	570	1309915.3	426239.34
Main River North Bank	524	1325232.208	428624.606	Main River North Bank	571	1309469.1	426286.81
Main River North Bank	525	1324960.94	428646.3074	Main River North Bank	572	1309314.2	426259.15
Main River North Bank	526	1324700.523	428624.606	Main River North Bank	573	1308825.9	426107.24
Main River North Bank	527	1324266.495	428516.0988	Main River North Bank	574	1308478.7	425998.73
Main River North Bank	528	1323984.376	428418.4426	Main River North Bank	575	1308033.8	425835.97
Main River North Bank	529	1323734.809	428396.7411	Main River North Bank	576	1307773.4	425716.61
Main River North Bank	530	1323550.347	428440.144	Main River North Bank	577	1307545.5	425586.41
Main River North Bank	531	1323409.288	428450.9948	Main River North Bank	578	1307334.7	425512.8
Main River North Bank	532	1323268.229	428440.144	Main River North Bank	579	1307091.7	425391.27
Main River North Bank	533	1323105.468	428342.4875	Main River North Bank	580	1306921.5	425287.1
Main River North Bank	534	1322736.543	428212.2789	Main River North Bank	581	1306751.4	425158.63
Main River North Bank	535	1322466.356	428073.3255	Main River North Bank	582	1306569	424989.62
Main River North Bank	536	1321966.601	427595.7808	Main River North Bank	583	1306438.8	424881.11
Main River North Bank	537	1321693.163	427361.4055	Main River North Bank	584	1306243.5	424729.2
Main River North Bank	538	1321276.495	427140.0509	Main River North Bank	585	1306004.7	424501.33
Main River North Bank	539	1320651.494	426788.4875	Main River North Bank	586	1305711.8	424251.77
Main River North Bank	540	1320130.66	426515.0496	Main River North Bank	587	1305473.1	424078.16
Main River North Bank	541	1319740.034	426358.7992	Main River North Bank	588	1305245.2	423904.54
Main River North Bank	542	1319482.86	426373.9272	Main River North Bank	589	1305049.9	423730.93
Main River North Bank	543	1319454.412	426361.7349	Main River North Bank	590	1304930.5	423676.68
Main River North Bank	544	1318933.577	426340.9016	Main River North Bank	591	1304811.2	423633.28
Main River North Bank	545	1318516.91	426320.0683	Main River North Bank	592	1304735.2	423611.58
Main River North Bank	546	1318037.742	426382.5683	Main River North Bank	593	1304659.3	423589.87
Main River North Bank	547	1317600.242	426424.2352	Main River North Bank	594	1304594.1	423568.17

Main River North Bank	595	1304463.937	423481.3665	Main River North Bank	642	1296728.3	412833.24
Main River North Bank	596	1304387.982	423416.2622	Main River North Bank	643	1296663.2	412692.18
Main River North Bank	597	1304236.072	423264.3524	Main River North Bank	644	1296598.1	412561.97
Main River North Bank	598	1304105.864	423090.7408	Main River North Bank	645	1296576.4	412453.46
Main River North Bank	599	1303921.402	422862.8757	Main River North Bank	646	1296543.9	412355.8
Main River North Bank	600	1303704.387	422613.3094	Main River North Bank	647	1296543.4	412346.22
Main River North Bank	601	1303422.269	422320.3399	Main River North Bank	648	1296380.5	411987.34
Main River North Bank	602	1303183.553	422244.3849	Main River North Bank	649	1296125.3	411763.39
Main River North Bank	603	1303017.575	422192.5171	Main River North Bank	650	1296111	411773.5
Main River North Bank	604	1302708.611	421987.3649	Main River North Bank	651	1296015.2	411707.21
Main River North Bank	605	1302463.819	421877.9895	Main River North Bank	652	1296015.9	411700.89
Main River North Bank	606	1302296.042	421724.8248	Main River North Bank	653	1295656.5	411331.09
Main River North Bank	607	1302115.99	421510.8567	Main River North Bank	654	1295448.2	411060.26
Main River North Bank	608	1301751.361	421116.521	Main River North Bank	655	1295312.8	410789.43
Main River North Bank	609	1301542.571	420897.5975	Main River North Bank	656	1295255.5	410643.59
Main River North Bank	610	1301306.327	420670.6119	Main River North Bank	657	1295203.4	410450.88
Main River North Bank	611	1301095.333	420430.0709	Main River North Bank	658	1295156.5	410305.05
Main River North Bank	612	1300955.702	420268.128	Main River North Bank	659	1295078.4	410055.05
Main River North Bank	613	1300729.681	419981.6844	Main River North Bank	660	1295047.1	409820.67
Main River North Bank	614	1300488.14	419673.9305	Main River North Bank	661	1295043	409605.82
Main River North Bank	615	1300310.569	419449.9006	Main River North Bank	662	1295110.6	409299.48
Main River North Bank	616	1300255.403	419338.1864	Main River North Bank	663	1295262.5	408789.5
Main River North Bank	617	1300163.364	419235.4863	Main River North Bank	664	1295371	408539.93
Main River North Bank	618	1299988.23	418954.4754	Main River North Bank	665	1295414.4	408398.87
Main River North Bank	619	1299255.479	417851.94	Main River North Bank	666	1295512.1	408192.71
Main River North Bank	620	1299047.146	417539.4393	Main River North Bank	667	1295620.6	408062.5
Main River North Bank	621	1298901.312	417284.2304	Main River North Bank	668	1295848.5	407867.19
Main River North Bank	622	1298833.604	417211.3137	Main River North Bank	669	1296087.2	407671.87
Main River North Bank	623	1298510.686	416414.4371	Main River North Bank	670	1296282.5	407498.26
Main River North Bank	624	1298328.394	415956.1027	Main River North Bank	671	1296363.4	407417.37
Main River North Bank	625	1298276.311	415836.3107	Main River North Bank	672	1296953.1	407115.43
Main River North Bank	626	1298172.811	415507.3288	Main River North Bank	673	1297303.1	406957.09
Main River North Bank	627	1297984.643	414909.2258	Main River North Bank	674	1298619.8	406698.76
Main River North Bank	628	1297901.31	414706.1001	Main River North Bank	675	1299119.8	406640.43
Main River North Bank	629	1297784.586	414543.3947	Main River North Bank	676	1299536.5	406457.09
Main River North Bank	630	1297704.889	414374.0375	Main River North Bank	677	1300094.8	405898.76
Main River North Bank	631	1297683.187	414265.5302	Main River North Bank	678	1300566.8	405310.54
Main River North Bank	632	1297618.083	414146.1723	Main River North Bank	679	1300624.8	405197.66
Main River North Bank	633	1297552.979	414059.3669	Main River North Bank	680	1300727.4	405041.77
Main River North Bank	634	1297498.725	413950.8596	Main River North Bank	681	1300775.7	404968.57
Main River North Bank	635	1297444.472	413864.0539	Main River North Bank	682	1300877.9	404783.09
Main River North Bank	636	1297394.872	413789.6549	Main River North Bank	683	1300999.4	404645.29
Main River North Bank	637	1297390.892	413742.5568	Main River North Bank	684	1301113.8	404520.36
Main River North Bank	638	1297272.267	413561.0234	Main River North Bank	685	1301220.9	404403.76
Main River North Bank	639	1297205.756	413505.98	Main River North Bank	686	1301300.5	404292.68
Main River North Bank	640	1297032.144	413288.9659	Main River North Bank	687	1301379.2	404170.11
Main River North Bank	641	1296815.13	412995.9965	Main River North Bank	688	1301454.7	404002.75

Main River North Bank	689	1301490.717	403895.0854	Main River North Bank	736	1294293.4	400058.83
Main River North Bank	690	1301521.203	403767.2675	Main River North Bank	737	1293972.2	400145.64
Main River North Bank	691	1301541.024	403656.695	Main River North Bank	738	1293796.2	400192.07
Main River North Bank	692	1301537.045	403554.2508	Main River North Bank	739	1293756	400180
Main River North Bank	693	1301536.485	403539.8236	Main River North Bank	740	1293710.4	400188.04
Main River North Bank	694	1301527.122	403410.8675	Main River North Bank	741	1293397.9	400264.43
Main River North Bank	695	1301540.779	403324.5752	Main River North Bank	742	1292974.3	400292.21
Main River North Bank	696	1301564.873	403217.7954	Main River North Bank	743	1292592.4	400264.43
Main River North Bank	697	1301576.771	403174.6536	Main River North Bank	744	1292196.5	400188.04
Main River North Bank	698	1301593.215	403115.026	Main River North Bank	745	1291759	400028.32
Main River North Bank	699	1301593.262	403114.8531	Main River North Bank	746	1291245.1	399819.99
Main River North Bank	700	1301598.039	402960.5592	Main River North Bank	747	1290932.6	399694.99
Main River North Bank	701	1301584.51	402827.634	Main River North Bank	748	1290182.6	399382.49
Main River North Bank	702	1301562.737	402691.069	Main River North Bank	749	1289884	399236.65
Main River North Bank	703	1301547.013	402582.5851	Main River North Bank	750	1289300.7	398847.76
Main River North Bank	704	1301543.347	402570.0916	Main River North Bank	751	1288875.8	398728.07
Main River North Bank	705	1301535.12	402542.0516	Main River North Bank	752	1288807.6	398708.87
Main River North Bank	706	1301515.468	402475.0736	Main River North Bank	753	1288516	398667.21
Main River North Bank	707	1301488.852	402424.3948	Main River North Bank	754	1288092.4	398611.65
Main River North Bank	708	1301486.458	402415.4178	Main River North Bank	755	1287564.6	398569.98
Main River North Bank	709	1301478.319	402404.3397	Main River North Bank	756	1287210.4	398486.65
Main River North Bank	710	1301455.596	402361.0736	Main River North Bank	757	1286936	398443.78
Main River North Bank	711	1301397.19	402267.6261	Main River North Bank	758	1286827.5	398441.65
Main River North Bank	712	1301222.759	402056.4952	Main River North Bank	759	1286820.7	398437.91
Main River North Bank	713	1301218.629	402051.4955	Main River North Bank	760	1286701.3	398351.11
Main River North Bank	714	1301099.384	401941.1274	Main River North Bank	761	1286440.9	398014.74
Main River North Bank	715	1300985.302	401846.9342	Main River North Bank	762	1286137.1	397548.15
Main River North Bank	716	1300855.721	401761.5769	Main River North Bank	763	1285800.7	396994.77
Main River North Bank	717	1300711.753	401644.9506	Main River North Bank	764	1285648.8	396473.93
Main River North Bank	718	1300620.796	401545.2891	Main River North Bank	765	1285572.8	396126.71
Main River North Bank	719	1300541.757	401444.4775	Main River North Bank	766	1285540.3	395703.53
Main River North Bank	720	1300473.278	401323.1166	Main River North Bank	767	1285193.1	394672.72
Main River North Bank	721	1300430.825	401272.381	Main River North Bank	768	1284748.2	393696.15
Main River North Bank	722	1300399.061	401234.4194	Main River North Bank	769	1284325	392990.85
Main River North Bank	723	1300304.549	401179.3262	Main River North Bank	770	1284129.7	392762.99
Main River North Bank	724	1300242.049	401109.0136	Main River North Bank	771	1283977.8	392589.38
Main River North Bank	725	1299882.673	400767.8672	Main River North Bank	772	1283825.9	392480.87
Main River North Bank	726	1299406.11	400452.7622	Main River North Bank	773	1283619.7	392491.72
Main River North Bank	727	1299218.61	400369.4289	Main River North Bank	774	1283413.5	392545.97
Main River North Bank	728	1299002.463	400265.2619	Main River North Bank	775	1283174.8	392621.93
Main River North Bank	729	1298413.92	399970.9906	Main River North Bank	776	1282860.2	392741.29
Main River North Bank	730	1298036.316	399723.5943	Main River North Bank	777	1282675.7	392784.69
Main River North Bank	731	1297512.878	399502.2396	Main River North Bank	778	1282491.2	392817.24
Main River North Bank	732	1295874.853	399525.6773	Main River North Bank	779	1282209.1	392817.24
Main River North Bank	733	1294944.778	399740.4122	Main River North Bank	780	1281981.3	392806.39
Main River North Bank	734	1294822.883	399841.8193	Main River North Bank	781	1281720.8	392806.39
Main River North Bank	735	1294553.785	399954.6668	Main River North Bank	782	1281493	392828.09

Main River North Bank	783	1281319.36	392849.7951	Main River North Bank	830	1265397.9	388083.85
Main River North Bank	784	1281265.464	392876.7429	Main River North Bank	831	1264814.5	388090.8
Main River North Bank	785	1281234.756	392869.9191	Main River North Bank	832	1264147.9	388056.07
Main River North Bank	786	1280887.533	392913.322	Main River North Bank	833	1263757.7	388154.83
Main River North Bank	787	1280536.797	392978.0037	Main River North Bank	834	1263410.4	388224.28
Main River North Bank	788	1280393.568	393004.0457	Main River North Bank	835	1263056.3	388259
Main River North Bank	789	1280224.291	392979.6957	Main River North Bank	836	1262660.4	388231.22
Main River North Bank	790	1279675.679	392819.9732	Main River North Bank	837	1262229.9	388224.28
Main River North Bank	791	1279168.734	392611.6396	Main River North Bank	838	1261959	388217.33
Main River North Bank	792	1278738.177	392444.9726	Main River North Bank	839	1261681.3	388259
Main River North Bank	793	1278224.287	392188.0274	Main River North Bank	840	1261216	388377.05
Main River North Bank	794	1277945.646	392074.3561	Main River North Bank	841	1260868.8	388515.94
Main River North Bank	795	1277659.187	391954.5644	Main River North Bank	842	1260321.5	388715.8
Main River North Bank	796	1277153.978	391803.5224	Main River North Bank	843	1259745.1	388938.02
Main River North Bank	797	1276362.309	391574.3551	Main River North Bank	844	1259175.6	389299.13
Main River North Bank	798	1276004.711	391448.4752	Main River North Bank	845	1258564.5	389674.13
Main River North Bank	799	1275158.355	391188.0579	Main River North Bank	846	1258022.9	389979.69
Main River North Bank	800	1274746.028	391036.1478	Main River North Bank	847	1257675.6	390229.69
Main River North Bank	801	1274312	390873.3873	Main River North Bank	848	1257147.9	390597.75
Main River North Bank	802	1273987.038	390754.2347	Main River North Bank	849	1256807.6	390792.19
Main River North Bank	803	1273589.682	390554.9381	Main River North Bank	850	1256390.9	391035.25
Main River North Bank	804	1272477.564	390207.2839	Main River North Bank	851	1256022.9	391208.86
Main River North Bank	805	1272356.036	390172.5618	Main River North Bank	852	1255432.6	391458.86
Main River North Bank	806	1272199.785	390155.2006	Main River North Bank	853	1254453.4	391764.42
Main River North Bank	807	1272095.618	390137.8394	Main River North Bank	854	1254153.5	391834.98
Main River North Bank	808	1271956.729	390137.8394	Main River North Bank	855	1253981.2	391875.53
Main River North Bank	809	1271783.117	390120.4782	Main River North Bank	856	1253481.2	391944.97
Main River North Bank	810	1271661.59	390085.7561	Main River North Bank	857	1253078.4	391944.97
Main River North Bank	811	1271487.978	390016.3115	Main River North Bank	858	1252620.1	391910.25
Main River North Bank	812	1271418.534	389981.5891	Main River North Bank	859	1252404.8	391861.64
Main River North Bank	813	1271192.839	389860.0612	Main River North Bank	860	1251842.3	391764.42
Main River North Bank	814	1270654.643	389634.3663	Main River North Bank	861	1251182.6	391688.03
Main River North Bank	815	1270290.059	389408.6714	Main River North Bank	862	1250856.2	391667.19
Main River North Bank	816	1270047.003	389269.782	Main River North Bank	863	1250524.4	391633.37
Main River North Bank	817	1269543.53	389026.7262	Main River North Bank	864	1250159.9	391624.69
Main River North Bank	818	1268744.917	388696.8643	Main River North Bank	865	1250153.4	391625.32
Main River North Bank	819	1268206.722	388505.8916	Main River North Bank	866	1250017.2	391505.17
Main River North Bank	820	1267772.693	388419.0861	Main River North Bank	867	1249808.9	391380.17
Main River North Bank	821	1267251.859	388349.6416	Main River North Bank	868	1249371.4	391130.17
Main River North Bank	822	1266852.552	388384.3637	Main River North Bank	869	1249204.7	391067.67
Main River North Bank	823	1266713.663	388436.447	Main River North Bank	870	1248954.7	391005.17
Main River North Bank	824	1266487.969	388505.8916	Main River North Bank	871	1248746.4	390984.34
Main River North Bank	825	1266401.162	388523.2528	Main River North Bank	872	1248433.9	390942.67
Main River North Bank	826	1266262.274	388436.447	Main River North Bank	873	1248142.2	390880.17
Main River North Bank	827	1266048.503	388350.9388	Main River North Bank	874	1247954.7	390755.17
Main River North Bank	828	1265835.373	388208.8528	Main River North Bank	875	1247392.2	390046.84
Main River North Bank	829	1265696.485	388132.4637	Main River North Bank	876	1247286.2	389847.25

Main River North Bank	877	1247214.927	389820.9985	Main River North Bank	924	1238137.8	383416.54
Main River North Bank	878	1247095.568	389734.1927	Main River North Bank	925	1237976.4	383291.54
Main River North Bank	879	1246976.21	389636.5362	Main River North Bank	926	1237757.6	383140.5
Main River North Bank	880	1246813.45	389549.7305	Main River North Bank	927	1237502.4	382968.62
Main River North Bank	881	1246639.838	389506.3276	Main River North Bank	928	1237304.5	382864.46
Main River North Bank	882	1246466.227	389484.6265	Main River North Bank	929	1237168.6	382813.01
Main River North Bank	883	1246119.004	389365.2685	Main River North Bank	930	1236893.6	382825.8
Main River North Bank	884	1245988.796	389300.1642	Main River North Bank	931	1236470.5	382933.38
Main River North Bank	885	1245826.035	389169.9555	Main River North Bank	932	1236145.9	383015.9
Main River North Bank	886	1245609.02	388996.344	Main River North Bank	933	1235507.9	383250.28
Main River North Bank	887	1245435.409	388822.7328	Main River North Bank	934	1235039.1	383666.94
Main River North Bank	888	1245316.051	388703.3748	Main River North Bank	935	1234622.4	384044.55
Main River North Bank	889	1245185.843	388649.1212	Main River North Bank	936	1234049.5	384786.74
Main River North Bank	890	1245120.738	388681.6734	Main River North Bank	937	1233841.2	385190.39
Main River North Bank	891	1245033.932	388703.3748	Main River North Bank	938	1233658.9	385450.8
Main River North Bank	892	1244936.276	388692.5241	Main River North Bank	939	1233229.2	386062.78
Main River North Bank	893	1244849.47	388659.9719	Main River North Bank	940	1233020.9	386453.41
Main River North Bank	894	1244762.664	388616.569	Main River North Bank	941	1232721.4	387078.41
Main River North Bank	895	1244697.56	388573.1662	Main River North Bank	942	1232552.1	387403.93
Main River North Bank	896	1244643.307	388518.9126	Main River North Bank	943	1232122.4	387937.79
Main River North Bank	897	1244567.352	388453.8082	Main River North Bank	944	1231705.8	388289.35
Main River North Bank	898	1244370.836	388276.9444	Main River North Bank	945	1231276.1	388614.87
Main River North Bank	899	1244329.703	388255.1678	Main River North Bank	946	1231058.3	388917.6
Main River North Bank	900	1243933.869	388088.5008	Main River North Bank	947	1230724.2	389201.91
Main River North Bank	901	1243663.035	387880.1671	Main River North Bank	948	1230370	389549.13
Main River North Bank	902	1243413.034	387567.6665	Main River North Bank	949	1230210.3	389708.86
Main River North Bank	903	1243262.844	387453.7288	Main River North Bank	950	1230015.9	389861.63
Main River North Bank	904	1243149.569	387211.8709	Main River North Bank	951	1229829.2	390022.56
Main River North Bank	905	1243099.629	387135.2974	Main River North Bank	952	1229629.4	390158.28
Main River North Bank	906	1242912.129	386920.0192	Main River North Bank	953	1229233.5	390540.22
Main River North Bank	907	1242689.907	386739.4634	Main River North Bank	954	1229115.5	390665.22
Main River North Bank	908	1242007.613	386036.3371	Main River North Bank	955	1229039.1	390741.61
Main River North Bank	909	1241705.529	385640.5031	Main River North Bank	956	1228983.5	390818
Main River North Bank	910	1241538.862	385411.3361	Main River North Bank	957	1228941.9	390873.56
Main River North Bank	911	1241219.418	385133.5579	Main River North Bank	958	1228886.3	390963.83
Main River North Bank	912	1241002.403	384999.8768	Main River North Bank	959	1228851.6	391040.22
Main River North Bank	913	1240825.319	384791.5425	Main River North Bank	960	1228809.9	391109.67
Main River North Bank	914	1240622.194	384583.2088	Main River North Bank	961	1228775.2	391199.95
Main River North Bank	915	1240422.541	384428.6944	Main River North Bank	962	1228747.4	391331.89
Main River North Bank	916	1240189.901	384229.0415	Main River North Bank	963	1228742.3	391365.02
Main River North Bank	917	1240023.234	384098.8328	Main River North Bank	964	1228700.7	391439.14
Main River North Bank	918	1239661.71	383917.1773	Main River North Bank	965	1228622.6	391842.79
Main River North Bank	919	1239293.654	383806.0661	Main River North Bank	966	1228531.5	392012.06
Main River North Bank	920	1239070.107	383770.7072	Main River North Bank	967	1228414.3	392194.35
Main River North Bank	921	1238835.732	383671.7489	Main River North Bank	968	1228258	392376.64
Main River North Bank	922	1238606.565	383604.0402	Main River North Bank	969	1228088.8	392571.96
Main River North Bank	923	1238304.481	383525.9152	Main River North Bank	970	1227984.6	392715.18

Main River North Bank	971	1227930.754	392812.1022	Main River North Bank	1018	1214763.5	398348.88
Main River North Bank	972	1227871.336	392838.5103	Main River North Bank	1019	1214763.5	398470.4
Main River North Bank	973	1227740.184	392875.9824	Main River North Bank	1020	1214763.5	398609.29
Main River North Bank	974	1227602.04	393037.1507	Main River North Bank	1021	1214806.9	398765.54
Main River North Bank	975	1227341.623	393323.6097	Main River North Bank	1022	1214945.8	399025.96
Main River North Bank	976	1227211.414	393440.7974	Main River North Bank	1023	1215093.3	399295.06
Main River North Bank	977	1227068.185	393557.985	Main River North Bank	1024	1215249.6	399555.47
Main River North Bank	978	1226937.976	393688.1937	Main River North Bank	1025	1215475.3	399946.1
Main River North Bank	979	1226807.767	393701.2147	Main River North Bank	1026	1215553.4	400024.23
Main River North Bank	980	1226495.267	393688.1937	Main River North Bank	1027	1215640.2	400102.35
Main River North Bank	981	1226234.85	393623.0894	Main River North Bank	1028	1215753	400215.2
Main River North Bank	982	1225818.182	393492.8807	Main River North Bank	1029	1215865.9	400449.57
Main River North Bank	983	1225466.619	393401.7347	Main River North Bank	1030	1215987.4	400657.91
Main River North Bank	984	1225167.139	393297.568	Main River North Bank	1031	1216178.4	400996.45
Main River North Bank	985	1224802.555	393180.3801	Main River North Bank	1032	1216265.2	401144.02
Main River North Bank	986	1224424.95	393089.2341	Main River North Bank	1033	1216438.8	401378.4
Main River North Bank	987	1224255.679	393037.1507	Main River North Bank	1034	1216551.7	401456.52
Main River North Bank	988	1224047.346	393011.1091	Main River North Bank	1035	1216690.5	401630.13
Main River North Bank	989	1223617.657	392972.0464	Main River North Bank	1036	1216916.2	401933.95
Main River North Bank	990	1223292.135	392932.9837	Main River North Bank	1037	1217341.6	402376.66
Main River North Bank	991	1222953.593	392919.9631	Main River North Bank	1038	1217940.6	402862.77
Main River North Bank	992	1222367.654	392893.9214	Main River North Bank	1039	1218157.6	403149.23
Main River North Bank	993	1221911.924	392841.8377	Main River North Bank	1040	1218444	403427.01
Main River North Bank	994	1221612.444	392841.8377	Main River North Bank	1041	1218773.9	403696.11
Main River North Bank	995	1220925.62	392829.1189	Main River North Bank	1042	1219372.8	404182.22
Main River North Bank	996	1220850.489	392838.5103	Main River North Bank	1043	1220058.6	404720.42
Main River North Bank	997	1220246.321	392921.844	Main River North Bank	1044	1220787.8	405319.38
Main River North Bank	998	1219725.486	393088.511	Main River North Bank	1045	1221247.8	405692.64
Main River North Bank	999	1219225.485	393192.6776	Main River North Bank	1046	1221673.2	406083.27
Main River North Bank	1000	1218787.985	393359.3446	Main River North Bank	1047	1222141.9	406534.66
Main River North Bank	1001	1218572.118	393467.2783	Main River North Bank	1048	1222489.2	406951.32
Main River North Bank	1002	1218481.112	393486.6412	Main River North Bank	1049	1222628.1	407220.42
Main River North Bank	1003	1217640.833	393764.4194	Main River North Bank	1050	1222836.4	407576.32
Main River North Bank	1004	1216946.387	394083.8646	Main River North Bank	1051	1222975.3	407810.7
Main River North Bank	1005	1216633.886	394236.6428	Main River North Bank	1052	1223157.6	408062.44
Main River North Bank	1006	1216314.441	394521.3656	Main River North Bank	1053	1223435.4	408435.7
Main River North Bank	1007	1215994.996	394840.8105	Main River North Bank	1054	1223661	408887.09
Main River North Bank	1008	1215703.329	395181.089	Main River North Bank	1055	1223713.1	409078.06
Main River North Bank	1009	1215390.828	395521.3676	Main River North Bank	1056	1223782.6	409269.04
Main River North Bank	1010	1215272.773	395681.09	Main River North Bank	1057	1223765.2	409581.54
Main River North Bank	1011	1215119.994	395972.7573	Main River North Bank	1058	1223782.6	409729.11
Main River North Bank	1012	1214953.327	396521.3695	Main River North Bank	1059	1223860.7	409946.12
Main River North Bank	1013	1214935.902	396635.8777	Main River North Bank	1060	1223912.8	410258.62
Main River North Bank	1014	1214867.628	396899.2196	Main River North Bank	1061	1224025.6	410562.44
Main River North Bank	1015	1214789.503	397619.7071	Main River North Bank	1062	1224086.4	410762.09
Main River North Bank	1016	1214795.007	398065.5336	Main River North Bank	1063	1224103.8	411118
Main River North Bank	1017	1214780.823	398149.2222	Main River North Bank	1064	1224158.4	411201.54

Main River North Bank	1065	1224144.231	411236.2678	Main River North Bank	1112	1220996.1	414612.91
Main River North Bank	1066	1224207.958	411349.0145	Main River North Bank	1113	1220892	414621.59
Main River North Bank	1067	1224242.68	411566.0289	Main River North Bank	1114	1220770.5	414595.55
Main River North Bank	1068	1224268.722	411791.7238	Main River North Bank	1115	1220631.6	414578.19
Main River North Bank	1069	1224320.805	412156.3078	Main River North Bank	1116	1220379.8	414586.87
Main River North Bank	1070	1224294.763	412373.3222	Main River North Bank	1117	1220267	414595.55
Main River North Bank	1071	1224294.764	412599.0171	Main River North Bank	1118	1220093.4	414621.59
Main River North Bank	1072	1224260.041	412868.1149	Main River North Bank	1119	1219859	414638.95
Main River North Bank	1073	1224216.638	413041.7264	Main River North Bank	1120	1219598.6	414647.63
Main River North Bank	1074	1224147.193	413180.6155	Main River North Bank	1121	1219338.2	414673.67
Main River North Bank	1075	1224034.346	413328.1851	Main River North Bank	1122	1218999.6	414691.04
Main River North Bank	1076	1223860.734	413397.6297	Main River North Bank	1123	1218600.3	414708.4
Main River North Bank	1077	1223704.485	413441.0325	Main River North Bank	1124	1218339.9	414725.76
Main River North Bank	1078	1223400.665	413432.3521	Main River North Bank	1125	1217984	414751.8
Main River North Bank	1079	1223261.775	413406.3104	Main River North Bank	1126	1217919.1	414768.02
Main River North Bank	1080	1223088.164	413328.1851	Main River North Bank	1127	1217829.6	414817.72
Main River North Bank	1081	1222983.997	413258.7405	Main River North Bank	1128	1217708.6	414888.7
Main River North Bank	1082	1222871.149	413171.9348	Main River North Bank	1129	1217654.7	414898.06
Main River North Bank	1083	1222740.941	413024.3652	Main River North Bank	1130	1216548	415249.63
Main River North Bank	1084	1222680.177	412876.7953	Main River North Bank	1131	1215011.5	415744.42
Main River North Bank	1085	1222593.371	412824.712	Main River North Bank	1132	1214412.5	415991.82
Main River North Bank	1086	1222571.978	412819.7753	Main River North Bank	1133	1213839.6	416252.23
Main River North Bank	1087	1222433.825	412880.2169	Main River North Bank	1134	1213409.9	416460.57
Main River North Bank	1088	1222225.492	412984.3839	Main River North Bank	1135	1213162.5	416668.9
Main River North Bank	1089	1221894.433	413057.9525	Main River North Bank	1136	1212993.3	416916.3
Main River North Bank	1090	1221838.161	413119.8514	Main River North Bank	1137	1212837	417124.63
Main River North Bank	1091	1221812.119	413163.2543	Main River North Bank	1138	1212732.8	417306.92
Main River North Bank	1092	1221812.119	413206.6572	Main River North Bank	1139	1212706.8	417411.09
Main River North Bank	1093	1221812.119	413232.6989	Main River North Bank	1140	1212706.8	417495.65
Main River North Bank	1094	1221820.8	413310.8239	Main River North Bank	1141	1212640.1	417679.09
Main River North Bank	1095	1221820.8	413397.6297	Main River North Bank	1142	1212619.3	417949.92
Main River North Bank	1096	1221872.883	413571.2412	Main River North Bank	1143	1212598.4	418387.42
Main River North Bank	1097	1221881.563	413684.0886	Main River North Bank	1144	1212619.3	418887.42
Main River North Bank	1098	1221872.883	413796.9361	Main River North Bank	1145	1212681.8	419491.59
Main River North Bank	1099	1221872.883	413944.506	Main River North Bank	1146	1212744.3	420679.1
Main River North Bank	1100	1221872.883	414013.9505	Main River North Bank	1147	1212640.1	421533.26
Main River North Bank	1101	1221864.203	414092.0755	Main River North Bank	1148	1212577.6	421887.43
Main River North Bank	1102	1221846.842	414170.2008	Main River North Bank	1149	1212515.1	422262.43
Main River North Bank	1103	1221829.48	414239.6454	Main River North Bank	1150	1212473.4	422512.43
Main River North Bank	1104	1221794.758	414291.7287	Main River North Bank	1151	1212475.4	422515.75
Main River North Bank	1105	1221707.952	414343.8121	Main River North Bank	1152	1212413	422648.47
Main River North Bank	1106	1221655.869	414361.1733	Main River North Bank	1153	1212373.9	422687.53
Main River North Bank	1107	1221543.021	414404.5762	Main River North Bank	1154	1212373.9	422791.7
Main River North Bank	1108	1221430.174	414447.9791	Main River North Bank	1155	1212400	422882.84
Main River North Bank	1109	1221299.965	414508.7432	Main River North Bank	1156	1212439	422960.97
Main River North Bank	1110	1221187.118	414552.1461	Main River North Bank	1157	1212465.1	423000.03
Main River North Bank	1111	1221091.631	414595.5489	Main River North Bank	1158	1212777.6	423078.15

Main River North Bank	1159	1213050.994	423195.3419	Main River North Bank	1206	1206352.8	429998.96
Main River North Bank	1160	1213324.432	423325.5502	Main River North Bank	1207	1206222.6	429803.64
Main River North Bank	1161	1213506.724	423494.8215	Main River North Bank	1208	1206146.7	429586.63
Main River North Bank	1162	1213623.912	423664.0925	Main River North Bank	1209	1206133.9	429516.32
Main River North Bank	1163	1213988.496	424028.6769	Main River North Bank	1210	1206135.8	429456.42
Main River North Bank	1164	1214366.101	424458.3652	Main River North Bank	1211	1206135.8	429304.51
Main River North Bank	1165	1214782.769	425057.3245	Main River North Bank	1212	1206168.4	429109.2
Main River North Bank	1166	1215030.165	425539.0965	Main River North Bank	1213	1206200.9	428946.44
Main River North Bank	1167	1215108.29	425669.3051	Main River North Bank	1214	1206244.3	428761.98
Main River North Bank	1168	1215173.394	425994.8265	Main River North Bank	1215	1206328.6	428584.01
Main River North Bank	1169	1215147.353	426359.4104	Main River North Bank	1216	1206458	427947.28
Main River North Bank	1170	1215082.248	426684.9321	Main River North Bank	1217	1206461.4	427883.07
Main River North Bank	1171	1215017.144	426893.2658	Main River North Bank	1218	1206450.5	427666.05
Main River North Bank	1172	1214899.956	427270.8707	Main River North Bank	1219	1206439.7	427459.89
Main River North Bank	1173	1214730.685	427635.4547	Main River North Bank	1220	1206418	427232.02
Main River North Bank	1174	1214522.351	427921.9137	Main River North Bank	1221	1206352.8	426928.21
Main River North Bank	1175	1214248.914	428195.3517	Main River North Bank	1222	1206309.4	426580.98
Main River North Bank	1176	1214053.601	428442.748	Main River North Bank	1223	1206064.5	425968.59
Main River North Bank	1177	1213793.183	428755.2487	Main River North Bank	1224	1206027.3	425929.94
Main River North Bank	1178	1213571.828	428950.5617	Main River North Bank	1225	1205842.9	425756.33
Main River North Bank	1179	1213272.349	429106.812	Main River North Bank	1226	1205745.2	425669.52
Main River North Bank	1180	1212647.347	429380.25	Main River North Bank	1227	1205636.7	425593.57
Main River North Bank	1181	1212243.701	429536.5003	Main River North Bank	1228	1205539	425528.46
Main River North Bank	1182	1211931.2	429640.667	Main River North Bank	1229	1205532.8	425526.78
Main River North Bank	1183	1211657.762	429692.7507	Main River North Bank	1230	1205500	425437.8
Main River North Bank	1184	1211429.591	429703.122	Main River North Bank	1231	1205491.1	425420.05
Main River North Bank	1185	1210845.046	429597.4813	Main River North Bank	1232	1205216.8	425200.55
Main River North Bank	1186	1210566.15	429552.0797	Main River North Bank	1233	1204739.3	424966.18
Main River North Bank	1187	1210501.474	429506.8058	Main River North Bank	1234	1204183.8	424688.4
Main River North Bank	1188	1210452.863	429485.9724	Main River North Bank	1235	1203906	424462.71
Main River North Bank	1189	1210404.251	429485.9724	Main River North Bank	1236	1203636.9	424158.89
Main River North Bank	1190	1210390.651	429483.0062	Main River North Bank	1237	1203463.3	423950.55
Main River North Bank	1191	1210070.342	429550.4396	Main River North Bank	1238	1203176.8	423794.3
Main River North Bank	1192	1209723.119	429778.3048	Main River North Bank	1239	1202664.7	423490.48
Main River North Bank	1193	1209017.823	430027.8714	Main River North Bank	1240	1202091.8	423247.43
Main River North Bank	1194	1208800.809	430136.3786	Main River North Bank	1241	1201657.7	423143.26
Main River North Bank	1195	1208648.898	430288.2884	Main River North Bank	1242	1201241.1	423160.62
Main River North Bank	1196	1208425.337	430389.5833	Main River North Bank	1243	1201129.8	423180.86
Main River North Bank	1197	1208230.023	430487.2398	Main River North Bank	1244	1201052.4	423147.7
Main River North Bank	1198	1208067.263	430574.0456	Main River North Bank	1245	1200726.9	423056.56
Main River North Bank	1199	1207882.8	430650.0007	Main River North Bank	1246	1200401.4	423004.47
Main River North Bank	1200	1207730.891	430682.5528	Main River North Bank	1247	1200180	423056.56
Main River North Bank	1201	1207557.279	430671.7021	Main River North Bank	1248	1199919.6	423290.93
Main River North Bank	1202	1207296.861	430595.747	Main River North Bank	1249	1199594.1	423538.33
Main River North Bank	1203	1207134.101	430465.5384	Main River North Bank	1250	1199429.8	423626.31
Main River North Bank	1204	1206841.131	430259.3747	Main River North Bank	1251	1199386.9	423633.09
Main River North Bank	1205	1206468.262	430114.3697	Main River North Bank	1252	1199329.6	423653.92

Main River North Bank	1253	1199220.23	423700.7986	Main River North Bank	1300	1192875.2	426248.26
Main River North Bank	1254	1199105.647	423747.6736	Main River North Bank	1301	1192801.4	426265.62
Main River North Bank	1255	1198970.23	423825.7989	Main River North Bank	1302	1192692.9	426282.98
Main River North Bank	1256	1198777.521	423929.9656	Main River North Bank	1303	1192610.4	426287.32
Main River North Bank	1257	1198738.428	423959.7507	Main River North Bank	1304	1192532.3	426287.32
Main River North Bank	1258	1198187.822	424241.4557	Main River North Bank	1305	1192458.5	426269.96
Main River North Bank	1259	1197849.28	424410.7271	Main River North Bank	1306	1192376	426261.28
Main River North Bank	1260	1197693.029	424579.998	Main River North Bank	1307	1192323.9	426261.28
Main River North Bank	1261	1197610.263	424807.605	Main River North Bank	1308	1192263.2	426265.62
Main River North Bank	1262	1197344.381	425243.356	Main River North Bank	1309	1192215.4	426278.64
Main River North Bank	1263	1197159.919	425471.2211	Main River North Bank	1310	1192163.4	426287.32
Main River North Bank	1264	1196940.708	425664.127	Main River North Bank	1311	1192037.5	426300.34
Main River North Bank	1265	1196876.909	425710.062	Main River North Bank	1312	1191916	426300.34
Main River North Bank	1266	1196755.381	425788.187	Main River North Bank	1313	1191803.1	426304.68
Main River North Bank	1267	1196688.107	425827.2497	Main River North Bank	1314	1191642.5	426313.36
Main River North Bank	1268	1196642.534	425853.2914	Main River North Bank	1315	1191508	426322.04
Main River North Bank	1269	1196568.749	425896.6942	Main River North Bank	1316	1191382.1	426335.06
Main River North Bank	1270	1196510.155	425916.2254	Main River North Bank	1317	1191329.9	426335.06
Main River North Bank	1271	1196269.269	426020.3924	Main River North Bank	1318	1191213.7	426306.73
Main River North Bank	1272	1196084.807	426098.5174	Main River North Bank	1319	1191083.5	426295.88
Main River North Bank	1273	1195952.428	426148.4308	Main River North Bank	1320	1190909.9	426274.17
Main River North Bank	1274	1195887.462	426179.29	Main River North Bank	1321	1190758	426230.77
Main River North Bank	1275	1195781.878	426209.0699	Main River North Bank	1322	1190500.4	426142.94
Main River North Bank	1276	1195617.154	426269.4688	Main River North Bank	1323	1190487.6	426134.52
Main River North Bank	1277	1195453.296	426300.3409	Main River North Bank	1324	1190474.3	426131.68
Main River North Bank	1278	1195396.872	426309.0213	Main River North Bank	1325	1190383.1	426096.96
Main River North Bank	1279	1195297.045	426317.7021	Main River North Bank	1326	1190268.1	426034.02
Main River North Bank	1280	1195084.371	426330.7228	Main River North Bank	1327	1190168.3	425968.92
Main River North Bank	1281	1194945.482	426343.7438	Main River North Bank	1328	1190092.3	425921.17
Main River North Bank	1282	1194793.572	426352.4242	Main River North Bank	1329	1190012.1	425853.9
Main River North Bank	1283	1194572.217	426348.084	Main River North Bank	1330	1189912.2	425773.6
Main River North Bank	1284	1194294.439	426361.1047	Main River North Bank	1331	1189840.1	425710.47
Main River North Bank	1285	1194168.57	426365.4452	Main River North Bank	1332	1189756	425636.88
Main River North Bank	1286	1194029.682	426365.4452	Main River North Bank	1333	1189684.4	425573.95
Main River North Bank	1287	1193955.896	426361.1047	Main River North Bank	1334	1189608.4	425489.31
Main River North Bank	1288	1193890.792	426356.7644	Main River North Bank	1335	1189529.6	425414.68
Main River North Bank	1289	1193808.327	426339.4036	Main River North Bank	1336	1189495.3	425364.72
Main River North Bank	1290	1193738.882	426326.3826	Main River North Bank	1337	1189285.2	425173.5
Main River North Bank	1291	1193586.972	426300.3409	Main River North Bank	1338	1189007.4	425013.78
Main River North Bank	1292	1193491.486	426291.6601	Main River North Bank	1339	1188653.2	424742.95
Main River North Bank	1293	1193400.34	426287.3199	Main River North Bank	1340	1188499.7	424661.22
Main River North Bank	1294	1193274.471	426278.6394	Main River North Bank	1341	1188206.7	424531.56
Main River North Bank	1295	1193139.923	426261.2782	Main River North Bank	1342	1187797.9	424398.75
Main River North Bank	1296	1193083.499	426252.5978	Main River North Bank	1343	1187417.2	424187.52
Main River North Bank	1297	1193040.096	426243.917	Main River North Bank	1344	1187407.9	424186.16
Main River North Bank	1298	1192988.012	426235.2366	Main River North Bank	1345	1187391.7	424166.96
Main River North Bank	1299	1192927.249	426239.5768	Main River North Bank	1346	1187315.3	424160.02

Main River North Bank	1347	1187284.031	424149.604	Main River North Bank	1394	1183357.1	422487.12
Main River North Bank	1348	1187207.642	424146.1316	Main River North Bank	1395	1183272.6	422399.32
Main River North Bank	1349	1187134.725	424146.1316	Main River North Bank	1396	1183190	422309.76
Main River North Bank	1350	1187054.864	424139.187	Main River North Bank	1397	1182966	422111.84
Main River North Bank	1351	1186981.948	424139.187	Main River North Bank	1398	1182672.7	421814.86
Main River North Bank	1352	1186919.447	424139.187	Main River North Bank	1399	1182632.4	421715.16
Main River North Bank	1353	1186867.364	424128.7704	Main River North Bank	1400	1182338	421352.78
Main River North Bank	1354	1186797.92	424132.2428	Main River North Bank	1401	1182190	421248.29
Main River North Bank	1355	1186742.363	424142.6595	Main River North Bank	1402	1182068.5	421112.71
Main River North Bank	1356	1186703.351	424159.3793	Main River North Bank	1403	1181818.9	420798.03
Main River North Bank	1357	1186596.24	424153.5102	Main River North Bank	1404	1181504.2	420526.77
Main River North Bank	1358	1186523.543	424154.9521	Main River North Bank	1405	1181004.4	419974.89
Main River North Bank	1359	1186450.838	424153.9715	Main River North Bank	1406	1180983.4	419951.68
Main River North Bank	1360	1186378.206	424150.5692	Main River North Bank	1407	1180891.2	419809.24
Main River North Bank	1361	1186305.728	424144.749	Main River North Bank	1408	1180856.2	419698.39
Main River North Bank	1362	1186233.483	424136.5177	Main River North Bank	1409	1180793	419624.23
Main River North Bank	1363	1186161.553	424125.8839	Main River North Bank	1410	1180696.2	419505.82
Main River North Bank	1364	1186090.018	424112.8599	Main River North Bank	1411	1180536.9	419340.43
Main River North Bank	1365	1186018.955	424097.46	Main River North Bank	1412	1180366	419146.71
Main River North Bank	1366	1185948.446	424079.7011	Main River North Bank	1413	1180300.2	419050.4
Main River North Bank	1367	1185878.567	424059.603	Main River North Bank	1414	1180187.9	418925.72
Main River North Bank	1368	1185809.396	424037.1883	Main River North Bank	1415	1180014.7	418733.46
Main River North Bank	1369	1185741.011	424012.4816	Main River North Bank	1416	1179925.9	418634.89
Main River North Bank	1370	1185673.487	423985.5105	Main River North Bank	1417	1179612.9	418429.45
Main River North Bank	1371	1185606.898	423956.3048	Main River North Bank	1418	1179597.3	418448.3
Main River North Bank	1372	1185541.32	423924.8967	Main River North Bank	1419	1179133.6	418198.59
Main River North Bank	1373	1185476.824	423891.3215	Main River North Bank	1420	1178698.1	417781.22
Main River North Bank	1374	1185413.483	423855.6165	Main River North Bank	1421	1177699.8	416739.56
Main River North Bank	1375	1185304.571	423809.7595	Main River North Bank	1422	1177683.5	416725.4
Main River North Bank	1376	1185150.084	423728.2244	Main River North Bank	1423	1177643.1	416669.12
Main River North Bank	1377	1185039.179	423677.7185	Main River North Bank	1424	1177552.8	416488.56
Main River North Bank	1378	1184929.357	423624.8993	Main River North Bank	1425	1177360.8	415989.95
Main River North Bank	1379	1184820.666	423569.7904	Main River North Bank	1426	1177291.4	415825.02
Main River North Bank	1380	1184713.154	423512.4157	Main River North Bank	1427	1177221.9	415651.41
Main River North Bank	1381	1184606.867	423452.8005	Main River North Bank	1428	1177204.5	415443.08
Main River North Bank	1382	1184501.854	423390.9711	Main River North Bank	1429	1177187.2	415260.79
Main River North Bank	1383	1184398.159	423326.9547	Main River North Bank	1430	1177161.1	415017.73
Main River North Bank	1384	1184295.828	423260.7789	Main River North Bank	1431	1177117.7	414904.88
Main River North Bank	1385	1184194.907	423192.4734	Main River North Bank	1432	1177065.7	414653.15
Main River North Bank	1386	1184095.44	423122.0679	Main River North Bank	1433	1177039.6	414410.09
Main River North Bank	1387	1183997.469	423049.5932	Main River North Bank	1434	1177030.9	414149.67
Main River North Bank	1388	1183901.039	422975.0817	Main River North Bank	1435	1177074.3	413967.38
Main River North Bank	1389	1183806.192	422898.5653	Main River North Bank	1436	1177161.1	413550.71
Main River North Bank	1390	1183712.969	422820.0781	Main River North Bank	1437	1177131.8	413306.57
Main River North Bank	1391	1183621.411	422739.6549	Main River North Bank	1438	1177111.7	413294.96
Main River North Bank	1392	1183531.559	422657.3301	Main River North Bank	1439	1177124.5	413245.18
Main River North Bank	1393	1183443.452	422573.1408	Main River North Bank	1440	1177104.8	413080.83

Main River North Bank	1441	1177088.544	412945.7054	Main River North Bank	1488	1169026.3	401825.93
Main River North Bank	1442	1177153.079	412681.6989	Main River North Bank	1489	1168791.9	401999.55
Main River North Bank	1443	1177239.886	412453.8341	Main River North Bank	1490	1168010.6	402364.13
Main River North Bank	1444	1177364.199	412034.273	Main River North Bank	1491	1167602.6	402824.2
Main River North Bank	1445	1177370.094	412019.8055	Main River North Bank	1492	1166595.7	403518.65
Main River North Bank	1446	1177597.959	411477.2694	Main River North Bank	1493	1166083.5	403909.27
Main River North Bank	1447	1177647.974	411382.7953	Main River North Bank	1494	1165505.1	404125.39
Main River North Bank	1448	1177695.615	411292.8075	Main River North Bank	1495	1165175.6	404195.28
Main River North Bank	1449	1177782.258	411136.1845	Main River North Bank	1496	1165071.5	404221.32
Main River North Bank	1450	1178215.433	410139.8813	Main River North Bank	1497	1164976	404230
Main River North Bank	1451	1178250.174	410109.4833	Main River North Bank	1498	1164863.1	404256.05
Main River North Bank	1452	1178692.883	409237.0857	Main River North Bank	1499	1164372.5	404457.02
Main River North Bank	1453	1178992.363	408377.7087	Main River North Bank	1500	1164142.6	404551.19
Main River North Bank	1454	1179604.343	407127.7064	Main River North Bank	1501	1163699.9	404655.35
Main River North Bank	1455	1179851.74	406359.4758	Main River North Bank	1502	1163421.3	404714.3
Main River North Bank	1456	1179929.864	405903.7455	Main River North Bank	1503	1163292.9	404676.26
Main River North Bank	1457	1179955.906	405565.2032	Main River North Bank	1504	1163130.1	404643.71
Main River North Bank	1458	1180099.136	405317.8068	Main River North Bank	1505	1163010.7	404643.71
Main River North Bank	1459	1180268.407	404992.2855	Main River North Bank	1506	1162826.3	404676.26
Main River North Bank	1460	1180450.699	404653.7432	Main River North Bank	1507	1162685.2	404708.81
Main River North Bank	1461	1180541.845	404341.2425	Main River North Bank	1508	1162489.9	404697.96
Main River North Bank	1462	1180593.929	403625.0952	Main River North Bank	1509	1162283.7	404643.71
Main River North Bank	1463	1180502.782	403026.1356	Main River North Bank	1510	1162110.1	404600.31
Main River North Bank	1464	1180437.678	402505.3013	Main River North Bank	1511	1161947.4	404578.61
Main River North Bank	1465	1180281.428	401880.3	Main River North Bank	1512	1161654.4	404665.41
Main River North Bank	1466	1180073.094	401359.4657	Main River North Bank	1513	1161198.7	404752.22
Main River North Bank	1467	1179734.552	400825.6103	Main River North Bank	1514	1161014.2	404752.22
Main River North Bank	1468	1179239.759	400343.8387	Main River North Bank	1515	1160775.5	404741.37
Main River North Bank	1469	1179122.572	400226.651	Main River North Bank	1516	1160580.2	404730.52
Main River North Bank	1470	1178666.841	400148.5257	Main River North Bank	1517	1160406.6	404697.96
Main River North Bank	1471	1177573.089	400148.5257	Main River North Bank	1518	1160211.3	404643.71
Main River North Bank	1472	1177123.35	400136.3708	Main River North Bank	1519	1160091.9	404556.9
Main River North Bank	1473	1176709.57	400311.4319	Main River North Bank	1520	1159896.6	404394.14
Main River North Bank	1474	1176154.013	400502.4043	Main River North Bank	1521	1159636.2	404057.77
Main River North Bank	1475	1175598.456	400606.5713	Main River North Bank	1522	1159364.9	403580.34
Main River North Bank	1476	1174973.455	400658.6546	Main River North Bank	1523	1159147.9	403048.65
Main River North Bank	1477	1174226.926	400676.0159	Main River North Bank	1524	1158996	402538.67
Main River North Bank	1478	1173532.48	400658.6546	Main River North Bank	1525	1158876.6	401789.97
Main River North Bank	1479	1172942.201	400623.9325	Main River North Bank	1526	1158833.2	400759.15
Main River North Bank	1480	1172369.283	400606.5713	Main River North Bank	1527	1158865.8	400162.36
Main River North Bank	1481	1172022.06	400571.8489	Main River North Bank	1528	1159175.2	398674.34
Main River North Bank	1482	1171744.282	400502.4043	Main River North Bank	1529	1159182	398663.86
Main River North Bank	1483	1171362.337	400589.2101	Main River North Bank	1530	1159313.9	398268.02
Main River North Bank	1484	1170928.308	400676.0159	Main River North Bank	1531	1159337.6	398195.92
Main River North Bank	1485	1170529.002	400693.3771	Main River North Bank	1532	1159466.7	397802.74
Main River North Bank	1486	1170355.551	400751.194	Main River North Bank	1533	1159612.5	397351.35
Main River North Bank	1487	1170189.449	400975.2383	Main River North Bank	1534	1159702.8	397024.96

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Main River North Bank	1535	1159744.49	396795.7974
Main River North Bank	1536	1159779.212	396705.5195
Main River North Bank	1537	1159820.879	396615.2416
Main River North Bank	1538	1159892.41	396453.3564
Main River North Bank	1539	1159952.824	396316.63
Main River North Bank	1540	1160081.053	396093.3453
Main River North Bank	1541	1161591.244	392832.1255
Main River North Bank	1542	1161832.579	392474.0802
Main River North Bank	1543	1162310.011	391128.5913
Main River North Bank	1544	1162350.927	390940.3784

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Segment	Point ID	Easting	Northing	Segment	Point ID	Easting	Northing
Main River South Bank	1	1464614.413	371455.8742	Main River South Bank	47	1455112	376576.1
Main River South Bank	2	1464377.422	371520.3027	Main River South Bank	48	1454996	376705.8
Main River South Bank	3	1464084.19	371564.1285	Main River South Bank	49	1454851	376867.9
Main River South Bank	4	1463628.275	371703.3326	Main River South Bank	50	1454714	377044.7
Main River South Bank	5	1463300.19	371841.9602	Main River South Bank	51	1454585	377220.8
Main River South Bank	6	1462992.32	371979.0465	Main River South Bank	52	1454478	377402.8
Main River South Bank	7	1462764.33	372104.7476	Main River South Bank	53	1454458	377430.5
Main River South Bank	8	1462436.461	372222.8887	Main River South Bank	54	1454385	377530.7
Main River South Bank	9	1462135.472	372307.0927	Main River South Bank	55	1454327	377618
Main River South Bank	10	1461838.874	372422.6462	Main River South Bank	56	1454289	377809.5
Main River South Bank	11	1461528.54	372563.116	Main River South Bank	57	1454281	377976.3
Main River South Bank	12	1461371.038	372640.6964	Main River South Bank	58	1454280	378157.7
Main River South Bank	13	1461291.381	372679.9221	Main River South Bank	59	1454247	378295.8
Main River South Bank	14	1461014.36	372785.909	Main River South Bank	60	1454223	378449
Main River South Bank	15	1460763.262	372897.2522	Main River South Bank	61	1454259	378612.1
Main River South Bank	16	1460556.358	372986.87	Main River South Bank	62	1454288	378790.7
Main River South Bank	17	1460310.636	373093.0104	Main River South Bank	63	1454324	378959.1
Main River South Bank	18	1459976.053	373250.346	Main River South Bank	64	1454329	379100.3
Main River South Bank	19	1459719.295	373356.9792	Main River South Bank	65	1454366	379281.7
Main River South Bank	20	1459398.913	373493.8516	Main River South Bank	66	1454386	379427.2
Main River South Bank	21	1459133.378	373593.5143	Main River South Bank	67	1454415	379586.3
Main River South Bank	22	1458848.189	373701.0721	Main River South Bank	68	1454444	379789.2
Main River South Bank	23	1458551.361	373786.6416	Main River South Bank	69	1454465	379955.5
Main River South Bank	24	1458342.361	373894.8391	Main River South Bank	70	1454486	380107.2
Main River South Bank	25	1458258.317	373957.9917	Main River South Bank	71	1454484	380213.8
Main River South Bank	26	1458152.16	373975.7433	Main River South Bank	72	1454484	380261.7
Main River South Bank	27	1458047.769	374033.2863	Main River South Bank	73	1454479	380350.3
Main River South Bank	28	1457948.851	374064.1416	Main River South Bank	74	1454516	380492.3
Main River South Bank	29	1457798.559	374143.2505	Main River South Bank	75	1454510	380701.3
Main River South Bank	30	1457641.828	374229.1462	Main River South Bank	76	1454526	380878.3
Main River South Bank	31	1457434.471	374376.6501	Main River South Bank	77	1454526	381040.6
Main River South Bank	32	1457339.525	374493.0881	Main River South Bank	78	1454533	381179.6
Main River South Bank	33	1457339.613	374645.9119	Main River South Bank	79	1454540	381295.4
Main River South Bank	34	1457150.881	374829.0986	Main River South Bank	80	1454557	381479.3
Main River South Bank	35	1457002.9	374950.9513	Main River South Bank	81	1454567	381670.2
Main River South Bank	36	1456801.137	375088.4129	Main River South Bank	82	1454575	381822.9
Main River South Bank	37	1456616.749	375201.0737	Main River South Bank	83	1454576	381991.3
Main River South Bank	38	1456412.113	375381.6416	Main River South Bank	84	1454575	382136.9
Main River South Bank	39	1456178.161	375587.1475	Main River South Bank	85	1454559	382267.6
Main River South Bank	40	1456015.782	375686.5412	Main River South Bank	86	1454552	382420.8
Main River South Bank	41	1455795.689	375857.8969	Main River South Bank	87	1454552	382558.6
Main River South Bank	42	1455775.989	375877.2692	Main River South Bank	88	1454560	382711
Main River South Bank	43	1455635.386	376014.3476	Main River South Bank	89	1454561	382863.7
Main River South Bank	44	1455452.781	376179.4917	Main River South Bank	90	1454580	383069.4
Main River South Bank	45	1455337.6	376332.0809	Main River South Bank	91	1454565	383222.6
Main River South Bank	46	1455250.294	376421.7502	Main River South Bank	92	1454560	383390.8

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Main River South Bank	93	1454544.318	383528.9086	Main River South Bank	140	1448170	385799.3
Main River South Bank	94	1454537.692	383681.657	Main River South Bank	141	1447924	385728.1
Main River South Bank	95	1454516.1	383842.6967	Main River South Bank	142	1447568	385583.5
Main River South Bank	96	1454510.027	384003.0648	Main River South Bank	143	1447301	385489.2
Main River South Bank	97	1454467.697	384203.0215	Main River South Bank	144	1447094	385402.7
Main River South Bank	98	1454469.438	384362.9802	Main River South Bank	145	1446800	385315.8
Main River South Bank	99	1454480.277	384545.6901	Main River South Bank	146	1446533	385223.3
Main River South Bank	100	1454490.662	384720.2459	Main River South Bank	147	1446494	385206.4
Main River South Bank	101	1454476.217	384865.6494	Main River South Bank	148	1446357	385145.7
Main River South Bank	102	1454469.452	385010.2869	Main River South Bank	149	1446154	385055.3
Main River South Bank	103	1454424.677	385163.888	Main River South Bank	150	1445923	384977.5
Main River South Bank	104	1454352.393	385500.6143	Main River South Bank	151	1445707	384936.5
Main River South Bank	105	1454320.375	385607.8732	Main River South Bank	152	1445410	384895.6
Main River South Bank	106	1454210.675	385830.4687	Main River South Bank	153	1445152	384890.2
Main River South Bank	107	1454130.469	386029.2039	Main River South Bank	154	1444849	384879
Main River South Bank	108	1454005.418	386243.6504	Main River South Bank	155	1444459	384896.8
Main River South Bank	109	1454001.608	386249.7767	Main River South Bank	156	1444091	384935.6
Main River South Bank	110	1453872.724	386450.5828	Main River South Bank	157	1443802	384943.7
Main River South Bank	111	1453748.075	386656.8709	Main River South Bank	158	1443745	384949.4
Main River South Bank	112	1453681.062	386802.2577	Main River South Bank	159	1443665	384957.5
Main River South Bank	113	1453667.632	386831.3932	Main River South Bank	160	1443474	385030.2
Main River South Bank	114	1453547.353	386976.6452	Main River South Bank	161	1443319	385053.8
Main River South Bank	115	1453450.591	387128.4926	Main River South Bank	162	1443151	385070.8
Main River South Bank	116	1453392.049	387279.6941	Main River South Bank	163	1442941	385129.8
Main River South Bank	117	1453279.994	387424.3309	Main River South Bank	164	1442682	385200.8
Main River South Bank	118	1453143.071	387652.5635	Main River South Bank	165	1442482	385272.8
Main River South Bank	119	1452892.455	388014.1832	Main River South Bank	166	1442393	385304.5
Main River South Bank	120	1452778.567	388138.7853	Main River South Bank	167	1442120	385421.9
Main River South Bank	121	1452653.449	388202.362	Main River South Bank	168	1441870	385560.2
Main River South Bank	122	1452413.486	388244.7488	Main River South Bank	169	1441649	385664.5
Main River South Bank	123	1452276.587	388230.549	Main River South Bank	170	1441473	385772.8
Main River South Bank	124	1452146.905	388217.4365	Main River South Bank	171	1441202	385934.9
Main River South Bank	125	1451911.816	388079.7042	Main River South Bank	172	1441156	385969.6
Main River South Bank	126	1451698.298	387944.883	Main River South Bank	173	1440983	386100.2
Main River South Bank	127	1451414.886	387714.3948	Main River South Bank	174	1440882	386208.9
Main River South Bank	128	1451147.51	387509.2639	Main River South Bank	175	1440758	386326.7
Main River South Bank	129	1450866.591	387299.9536	Main River South Bank	176	1440584	386495.5
Main River South Bank	130	1450607.79	387081.4687	Main River South Bank	177	1440417	386663
Main River South Bank	131	1450303.41	386794.4093	Main River South Bank	178	1440273	386828.4
Main River South Bank	132	1450232.9	386739.0093	Main River South Bank	179	1440121	386987
Main River South Bank	133	1450005.132	386612.7128	Main River South Bank	180	1439948	387200.5
Main River South Bank	134	1449703.864	386386.8758	Main River South Bank	181	1439890	387288.9
Main River South Bank	135	1449407.979	386202.7912	Main River South Bank	182	1439826	387386.2
Main River South Bank	136	1449186.739	386093.4001	Main River South Bank	183	1439711	387518.4
Main River South Bank	137	1448940.664	386101.3998	Main River South Bank	184	1439573	387651.9
Main River South Bank	138	1448648.892	385986.1859	Main River South Bank	185	1439458	387791
Main River South Bank	139	1448357.833	385876.5126	Main River South Bank	186	1439387	387896

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Main River South Bank	187	1439249.624	388029.0546	Main River South Bank	234	1438947	395421.4
Main River South Bank	188	1439148.819	388128.5579	Main River South Bank	235	1438964	395645.6
Main River South Bank	189	1439048.116	388235.6166	Main River South Bank	236	1438988	395837.2
Main River South Bank	190	1438897.437	388414.8866	Main River South Bank	237	1439042	396023.8
Main River South Bank	191	1438775.379	388545.8889	Main River South Bank	238	1439068	396283.3
Main River South Bank	192	1438674.745	388637.4972	Main River South Bank	239	1439157	396562.6
Main River South Bank	193	1438603.319	388741.5054	Main River South Bank	240	1439210	396715.1
Main River South Bank	194	1438460.282	388926.3049	Main River South Bank	241	1439356	396858.2
Main River South Bank	195	1438331.438	389064.679	Main River South Bank	242	1439457	397014.1
Main River South Bank	196	1438160.075	389273.8145	Main River South Bank	243	1439445	397239.1
Main River South Bank	197	1438038.292	389358.6196	Main River South Bank	244	1439370	397548.1
Main River South Bank	198	1437881.354	389520.8876	Main River South Bank	245	1439243	397897.6
Main River South Bank	199	1437760.151	389650.4037	Main River South Bank	246	1439130	398188.5
Main River South Bank	200	1437689.626	389820.9591	Main River South Bank	247	1438977	398475.6
Main River South Bank	201	1437640.639	389997.2649	Main River South Bank	248	1438843	398742.5
Main River South Bank	202	1437577.013	390144.4116	Main River South Bank	249	1438790	398835.2
Main River South Bank	203	1437535.026	390349.7275	Main River South Bank	250	1438755	398896.7
Main River South Bank	204	1437514.57	390516.2216	Main River South Bank	251	1438600	399072.3
Main River South Bank	205	1437484.425	390690.5828	Main River South Bank	252	1438502	399294.7
Main River South Bank	206	1437492.477	390884.2803	Main River South Bank	253	1438375	399523.9
Main River South Bank	207	1437503.803	391018.3233	Main River South Bank	254	1438320	399596.6
Main River South Bank	208	1437492.737	391176.6694	Main River South Bank	255	1438235	399714
Main River South Bank	209	1437547.39	391333.7626	Main River South Bank	256	1438144	399835.9
Main River South Bank	210	1437571.256	391447.2528	Main River South Bank	257	1438035	399957.7
Main River South Bank	211	1437581.933	391638.7203	Main River South Bank	258	1437926	400079.5
Main River South Bank	212	1437606.991	391813.2744	Main River South Bank	259	1437820	400151.9
Main River South Bank	213	1437629.873	392010.9358	Main River South Bank	260	1437723	400236.7
Main River South Bank	214	1437652.094	392162.3892	Main River South Bank	261	1437511	400360.8
Main River South Bank	215	1437696.124	392297.2321	Main River South Bank	262	1437408	400411.6
Main River South Bank	216	1437740.104	392431.927	Main River South Bank	263	1437315	400457.3
Main River South Bank	217	1437769.482	392574.8325	Main River South Bank	264	1437177	400514.4
Main River South Bank	218	1437902.14	392833.1045	Main River South Bank	265	1437075	400579.2
Main River South Bank	219	1437977.885	392986.8233	Main River South Bank	266	1436993	400622.4
Main River South Bank	220	1438081.113	393077.5608	Main River South Bank	267	1436925	400652.3
Main River South Bank	221	1438121.928	393180.6419	Main River South Bank	268	1436829	400694.7
Main River South Bank	222	1438194.099	393341.8377	Main River South Bank	269	1436757	400732.3
Main River South Bank	223	1438269.23	393465.0205	Main River South Bank	270	1436658	400771.4
Main River South Bank	224	1438325.765	393566.5398	Main River South Bank	271	1436550	400800.1
Main River South Bank	225	1438392.125	393697.9499	Main River South Bank	272	1436426	400842.6
Main River South Bank	226	1438494.22	393894.7373	Main River South Bank	273	1436333	400871.8
Main River South Bank	227	1438551.157	394026.7688	Main River South Bank	274	1436247	400907.1
Main River South Bank	228	1438609.543	394188.8154	Main River South Bank	275	1436114	400963.3
Main River South Bank	229	1438713.868	394347.651	Main River South Bank	276	1435970	401015.4
Main River South Bank	230	1438746.793	394505.9549	Main River South Bank	277	1435875	401060.2
Main River South Bank	231	1438811.375	394685.6225	Main River South Bank	278	1435783	401093.7
Main River South Bank	232	1438879.611	394959.0126	Main River South Bank	279	1435676	401128.2
Main River South Bank	233	1438898.131	395191.8568	Main River South Bank	280	1435618	401149.8

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Main River South Bank	281	1435557.119	401175.0765	Main River South Bank	328	1429660	403593.3
Main River South Bank	282	1435481.987	401202.1924	Main River South Bank	329	1429556	403593.6
Main River South Bank	283	1435298.809	401284.7268	Main River South Bank	330	1429459	403589.9
Main River South Bank	284	1435131.381	401342.9653	Main River South Bank	331	1429365	403574.7
Main River South Bank	285	1434960.382	401400.8977	Main River South Bank	332	1429227	403541.8
Main River South Bank	286	1434864.61	401432.7035	Main River South Bank	333	1429117	403515.5
Main River South Bank	287	1434789.074	401454.5352	Main River South Bank	334	1429016	403461.9
Main River South Bank	288	1434670.298	401506.3334	Main River South Bank	335	1428919	403400.1
Main River South Bank	289	1434593.51	401557.6409	Main River South Bank	336	1428839	403329.6
Main River South Bank	290	1434526.112	401596.8528	Main River South Bank	337	1428749	403201.2
Main River South Bank	291	1434424.791	401657.65	Main River South Bank	338	1428694	403125.5
Main River South Bank	292	1434319.836	401722.3315	Main River South Bank	339	1428642	403038.1
Main River South Bank	293	1434210.363	401779.3685	Main River South Bank	340	1428617	402965.1
Main River South Bank	294	1433975.493	401883.8003	Main River South Bank	341	1428547	402893.7
Main River South Bank	295	1433805.436	401960.2875	Main River South Bank	342	1428499	402813.8
Main River South Bank	296	1433700.828	402005.2429	Main River South Bank	343	1428413	402762.6
Main River South Bank	297	1433536.043	402069.4578	Main River South Bank	344	1428310	402693.4
Main River South Bank	298	1433424.13	402121.5533	Main River South Bank	345	1428231	402656.5
Main River South Bank	299	1433311.572	402166.9092	Main River South Bank	346	1428122	402621
Main River South Bank	300	1433198.848	402211.7147	Main River South Bank	347	1427996	402608
Main River South Bank	301	1433086.331	402263.8019	Main River South Bank	348	1427894	402609
Main River South Bank	302	1432972.749	402300.9099	Main River South Bank	349	1427766	402614.8
Main River South Bank	303	1432849.007	402353.465	Main River South Bank	350	1427626	402606.8
Main River South Bank	304	1432694.051	402433.6399	Main River South Bank	351	1427549	402621
Main River South Bank	305	1432534.147	402495.6077	Main River South Bank	352	1427469	402628.4
Main River South Bank	306	1432350.511	402588.0359	Main River South Bank	353	1427404	402638.9
Main River South Bank	307	1432254.427	402626.8761	Main River South Bank	354	1427257	402638.4
Main River South Bank	308	1432127.752	402700.441	Main River South Bank	355	1427142	402614.6
Main River South Bank	309	1431982.986	402778.5093	Main River South Bank	356	1427033	402583.1
Main River South Bank	310	1431848.338	402845.0605	Main River South Bank	357	1426955	402572
Main River South Bank	311	1431742.3	402902.4656	Main River South Bank	358	1426853	402562.4
Main River South Bank	312	1431628.392	402952.7478	Main River South Bank	359	1426753	402581.4
Main River South Bank	313	1431500.474	403014.2836	Main River South Bank	360	1426682	402592.1
Main River South Bank	314	1431387.194	403075.1133	Main River South Bank	361	1426622	402609.7
Main River South Bank	315	1431269.309	403124.6799	Main River South Bank	362	1426506	402640.6
Main River South Bank	316	1431175.674	403154.3551	Main River South Bank	363	1426438	402651.1
Main River South Bank	317	1431071.513	403191.6697	Main River South Bank	364	1426368	402676.2
Main River South Bank	318	1430990.441	403242.6149	Main River South Bank	365	1426284	402709.7
Main River South Bank	319	1430724.723	403348.6294	Main River South Bank	366	1426184	402728.7
Main River South Bank	320	1430587.023	403390.7855	Main River South Bank	367	1426100	402754.9
Main River South Bank	321	1430452.798	403432.8384	Main River South Bank	368	1425997	402779.4
Main River South Bank	322	1430307.275	403475.3548	Main River South Bank	369	1425924	402798.8
Main River South Bank	323	1430208.989	403504.84	Main River South Bank	370	1425826	402830.3
Main River South Bank	324	1430029.581	403548.753	Main River South Bank	371	1425733	402861.9
Main River South Bank	325	1429794.706	403579.8495	Main River South Bank	372	1425644	402889.2
Main River South Bank	326	1429790.669	403580.0188	Main River South Bank	373	1425567	402926.5
Main River South Bank	327	1429731.02	403582.5231	Main River South Bank	374	1425508	402945

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Main River South Bank	375	1425439.009	402974.6274	Main River South Bank	422	1421065	404864.2
Main River South Bank	376	1425350.842	403016.4076	Main River South Bank	423	1420926	404913.8
Main River South Bank	377	1425266.131	403079.6389	Main River South Bank	424	1420800	404965.7
Main River South Bank	378	1425208.978	403115.7366	Main River South Bank	425	1420698	405028.6
Main River South Bank	379	1425143.27	403191.5362	Main River South Bank	426	1420617	405068.2
Main River South Bank	380	1425098.229	403244.6674	Main River South Bank	427	1420512	405122.2
Main River South Bank	381	1425042.471	403319.7271	Main River South Bank	428	1420411	405185.4
Main River South Bank	382	1425018.171	403353.4174	Main River South Bank	429	1420315	405235.7
Main River South Bank	383	1424977.048	403395.4709	Main River South Bank	430	1420214	405299
Main River South Bank	384	1424909.579	403435.7606	Main River South Bank	431	1420076	405362.1
Main River South Bank	385	1424763.73	403489.0414	Main River South Bank	432	1419944	405430.9
Main River South Bank	386	1424671.795	403506.504	Main River South Bank	433	1419828	405486.5
Main River South Bank	387	1424560.71	403514.5434	Main River South Bank	434	1419753	405520.2
Main River South Bank	388	1424442.519	403530.1431	Main River South Bank	435	1419657	405568.2
Main River South Bank	389	1424306.421	403553.2845	Main River South Bank	436	1419549	405617.1
Main River South Bank	390	1424228.568	403579.8183	Main River South Bank	437	1419442	405678.4
Main River South Bank	391	1424111.292	403626.0162	Main River South Bank	438	1419313	405732.7
Main River South Bank	392	1423991.807	403671.8567	Main River South Bank	439	1419191	405795.8
Main River South Bank	393	1423893.774	403720.3485	Main River South Bank	440	1419087	405857.3
Main River South Bank	394	1423771.305	403784.3436	Main River South Bank	441	1418979	405901.8
Main River South Bank	395	1423650.874	403826.6317	Main River South Bank	442	1418866	405935.4
Main River South Bank	396	1423541.618	403879.4181	Main River South Bank	443	1418714	405965
Main River South Bank	397	1423417.187	403921.9604	Main River South Bank	444	1418630	405970.9
Main River South Bank	398	1423311.54	403974.5923	Main River South Bank	445	1418513	405980.9
Main River South Bank	399	1423240.817	404020.1681	Main River South Bank	446	1418396	406005.4
Main River South Bank	400	1423121.277	404074.7284	Main River South Bank	447	1418272	406052.2
Main River South Bank	401	1423041.945	404116.2524	Main River South Bank	448	1418168	406085.3
Main River South Bank	402	1422943.771	404154.6458	Main River South Bank	449	1418106	406138.3
Main River South Bank	403	1422801.959	404210.3187	Main River South Bank	450	1418032	406186.1
Main River South Bank	404	1422721.933	404240.4427	Main River South Bank	451	1417942	406240.4
Main River South Bank	405	1422627.717	404282.2839	Main River South Bank	452	1417879	406278.2
Main River South Bank	406	1422510.767	404317.9791	Main River South Bank	453	1417804	406322.3
Main River South Bank	407	1422404.537	404345.8679	Main River South Bank	454	1417687	406384.5
Main River South Bank	408	1422310.32	404387.9017	Main River South Bank	455	1417628	406421.7
Main River South Bank	409	1422211.951	404422.922	Main River South Bank	456	1417589	406448.8
Main River South Bank	410	1422138.899	404445.6399	Main River South Bank	457	1417479	406454.3
Main River South Bank	411	1422062.979	404483.2583	Main River South Bank	458	1417378	406468.8
Main River South Bank	412	1421965.443	404535.6156	Main River South Bank	459	1417261	406474.8
Main River South Bank	413	1421962.039	404537.4391	Main River South Bank	460	1417138	406490.2
Main River South Bank	414	1421886.696	404548.2091	Main River South Bank	461	1417059	406522.7
Main River South Bank	415	1421804.804	404574.5162	Main River South Bank	462	1416971	406558.7
Main River South Bank	416	1421744.714	404602.8866	Main River South Bank	463	1416867	406592.3
Main River South Bank	417	1421660.702	404644.9401	Main River South Bank	464	1416782	406628.2
Main River South Bank	418	1421533.457	404686.3652	Main River South Bank	465	1416696	406664
Main River South Bank	419	1421415.788	404733.8826	Main River South Bank	466	1416643	406707.2
Main River South Bank	420	1421279.661	404782.3023	Main River South Bank	467	1416590	406747.4
Main River South Bank	421	1421158.793	404827.1162	Main River South Bank	468	1416504	406827.1

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Main River South Bank	469	1416409.232	406947.1192	Main River South Bank	516	1421028	414622.5
Main River South Bank	470	1416332.975	407113.1612	Main River South Bank	517	1420961	414934.9
Main River South Bank	471	1416279.801	407284.8613	Main River South Bank	518	1420857	415299.2
Main River South Bank	472	1416287.94	407376.6736	Main River South Bank	519	1420765	415563
Main River South Bank	473	1416283.269	407452.0043	Main River South Bank	520	1420631	415939.4
Main River South Bank	474	1416304.866	407553.5083	Main River South Bank	521	1420477	416187.2
Main River South Bank	475	1416328.68	407639.3925	Main River South Bank	522	1420338	416494.2
Main River South Bank	476	1416388.92	407711.6467	Main River South Bank	523	1420118	416806
Main River South Bank	477	1416478.573	407806.8488	Main River South Bank	524	1419946	417094.8
Main River South Bank	478	1416594.478	407920.253	Main River South Bank	525	1419783	417353
Main River South Bank	479	1416692.574	407992.9991	Main River South Bank	526	1419613	417651.6
Main River South Bank	480	1416990.242	408134.546	Main River South Bank	527	1419477	417858.3
Main River South Bank	481	1417212.612	408286.7314	Main River South Bank	528	1419334	417985.7
Main River South Bank	482	1417380.49	408387.6723	Main River South Bank	529	1419221	418091.6
Main River South Bank	483	1417532.638	408475.4151	Main River South Bank	530	1419077	418199.2
Main River South Bank	484	1418072.218	408761.3803	Main River South Bank	531	1418922	418297.8
Main River South Bank	485	1418259.718	408855.4479	Main River South Bank	532	1418771	418435.8
Main River South Bank	486	1418363.534	408887.8091	Main River South Bank	533	1418646	418522.2
Main River South Bank	487	1418627.625	409014.1868	Main River South Bank	534	1418483	418641
Main River South Bank	488	1418738.512	409079.4427	Main River South Bank	535	1418322	418789.7
Main River South Bank	489	1418838.712	409149.5027	Main River South Bank	536	1418005	419016.5
Main River South Bank	490	1418956.21	409231.9807	Main River South Bank	537	1417791	419128.4
Main River South Bank	491	1419081.656	409324.0083	Main River South Bank	538	1417533	419193.1
Main River South Bank	492	1419204.747	409401.5926	Main River South Bank	539	1417265	419258.4
Main River South Bank	493	1419451.833	409582.5148	Main River South Bank	540	1417045	419321.2
Main River South Bank	494	1419706.178	409817.7881	Main River South Bank	541	1416959	419345.9
Main River South Bank	495	1419879.25	409997.3534	Main River South Bank	542	1416575	419476.6
Main River South Bank	496	1420062.968	410186.5335	Main River South Bank	543	1416231	419604.9
Main River South Bank	497	1420186.243	410379.9049	Main River South Bank	544	1415965	419678.9
Main River South Bank	498	1420319.691	410572.8439	Main River South Bank	545	1415642	419685.8
Main River South Bank	499	1420431.168	410737.1467	Main River South Bank	546	1415251	419596.1
Main River South Bank	500	1420525.993	410951.9043	Main River South Bank	547	1414808	419469.1
Main River South Bank	501	1420579.416	411148.9446	Main River South Bank	548	1414512	419305.7
Main River South Bank	502	1420655.563	411384.4709	Main River South Bank	549	1414346	419186
Main River South Bank	503	1420690.375	411602.7031	Main River South Bank	550	1414228	419102.2
Main River South Bank	504	1420759.215	411878.671	Main River South Bank	551	1413865	418775
Main River South Bank	505	1420828.673	412014.4879	Main River South Bank	552	1413526	418506.2
Main River South Bank	506	1420847.422	412143.3347	Main River South Bank	553	1413450	418442.4
Main River South Bank	507	1420856.92	412282.3925	Main River South Bank	554	1413250	418274.3
Main River South Bank	508	1420912.418	412578.3885	Main River South Bank	555	1412917	418104.8
Main River South Bank	509	1420978.069	412883.1283	Main River South Bank	556	1412397	417689.9
Main River South Bank	510	1421026.36	413089.6382	Main River South Bank	557	1411896	417412.6
Main River South Bank	511	1421090.498	413364.857	Main River South Bank	558	1411535	417237.9
Main River South Bank	512	1421121.912	413622.0732	Main River South Bank	559	1411476	417195.2
Main River South Bank	513	1421140.385	413850.0506	Main River South Bank	560	1411221	417047.3
Main River South Bank	514	1421128.918	414089.3921	Main River South Bank	561	1410785	416660.2
Main River South Bank	515	1421086.114	414320.756	Main River South Bank	562	1410537	416503.9

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Main River South Bank	563	1410032.909	416271.921	Main River South Bank	610	1397161	419728.7
Main River South Bank	564	1409359.959	415991.4564	Main River South Bank	611	1397094	419806.7
Main River South Bank	565	1409232.558	415935.7815	Main River South Bank	612	1397043	419847
Main River South Bank	566	1409120.642	415899.8367	Main River South Bank	613	1396990	419914.6
Main River South Bank	567	1408289.79	415635.6815	Main River South Bank	614	1396932	419996.7
Main River South Bank	568	1407595.079	415554.1539	Main River South Bank	615	1396877	420041.5
Main River South Bank	569	1407198.73	415553.1155	Main River South Bank	616	1396815	420128.7
Main River South Bank	570	1406462.339	416052.9895	Main River South Bank	617	1396716	420241.2
Main River South Bank	571	1405517.056	416230.9213	Main River South Bank	618	1396643	420301.2
Main River South Bank	572	1405379.001	416407.7619	Main River South Bank	619	1396581	420360.3
Main River South Bank	573	1405048.324	416576.0286	Main River South Bank	620	1396504	420424.7
Main River South Bank	574	1404814.49	416677.9551	Main River South Bank	621	1396425	420484.1
Main River South Bank	575	1404253.047	416880.4544	Main River South Bank	622	1396343	420557.7
Main River South Bank	576	1403873.249	417093.1615	Main River South Bank	623	1396271	420625.4
Main River South Bank	577	1403537.34	417224.9535	Main River South Bank	624	1396191	420707.7
Main River South Bank	578	1403129.42	417354.2651	Main River South Bank	625	1396114	420771.4
Main River South Bank	579	1402857.931	417404.6756	Main River South Bank	626	1396044	420839.6
Main River South Bank	580	1402310.835	417431.3898	Main River South Bank	627	1395937	420914.1
Main River South Bank	581	1402012.702	417538.0719	Main River South Bank	628	1395826	420993.8
Main River South Bank	582	1401611.608	417658.8098	Main River South Bank	629	1395749	421035.3
Main River South Bank	583	1401237.538	417790.3324	Main River South Bank	630	1395623	421106.9
Main River South Bank	584	1400841.631	417946.0233	Main River South Bank	631	1395500	421170.3
Main River South Bank	585	1400749.806	417982.068	Main River South Bank	632	1395423	421221.6
Main River South Bank	586	1400330.405	418148.2586	Main River South Bank	633	1395304	421284.3
Main River South Bank	587	1399935.29	418345.0699	Main River South Bank	634	1395179	421333.3
Main River South Bank	588	1399824.895	418361.2543	Main River South Bank	635	1395097	421379.6
Main River South Bank	589	1399692.499	418381.3091	Main River South Bank	636	1394968	421442.9
Main River South Bank	590	1399508.756	418407.8439	Main River South Bank	637	1394902	421497.2
Main River South Bank	591	1399393.677	418431.2117	Main River South Bank	638	1394794	421558.6
Main River South Bank	592	1399230.343	418442.2067	Main River South Bank	639	1394761	421597.5
Main River South Bank	593	1399022.954	418448.9738	Main River South Bank	640	1394673	421634.8
Main River South Bank	594	1398863.534	418483.2825	Main River South Bank	641	1394598	421671.2
Main River South Bank	595	1398674.823	418531.8941	Main River South Bank	642	1394485	421741.5
Main River South Bank	596	1398494.226	418587.9387	Main River South Bank	643	1394401	421773.5
Main River South Bank	597	1398325.949	418638.7418	Main River South Bank	644	1394312	421815.2
Main River South Bank	598	1398124.673	418708.3681	Main River South Bank	645	1394228	421856.6
Main River South Bank	599	1397952.998	418780.3324	Main River South Bank	646	1394160	421882.9
Main River South Bank	600	1397838.854	418864.9144	Main River South Bank	647	1394101	421908.7
Main River South Bank	601	1397700.367	418955.2609	Main River South Bank	648	1393991	421969.9
Main River South Bank	602	1397632.492	419042.5453	Main River South Bank	649	1393945	422004.6
Main River South Bank	603	1397619.29	419063.5634	Main River South Bank	650	1393879	422072.2
Main River South Bank	604	1397565.072	419149.835	Main River South Bank	651	1393834	422139.1
Main River South Bank	605	1397514.637	419269.916	Main River South Bank	652	1393772	422216
Main River South Bank	606	1397457.727	419404.0588	Main River South Bank	653	1393737	422242.4
Main River South Bank	607	1397388.915	419538.919	Main River South Bank	654	1393701	422270.6
Main River South Bank	608	1397346.175	419583.189	Main River South Bank	655	1393613	422339.4
Main River South Bank	609	1397240.353	419663.651	Main River South Bank	656	1393570	422355.5

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Main River South Bank	657	1393335.15	422414.6595	Main River South Bank	704	1387204	421620.9
Main River South Bank	658	1393228.529	422448.2189	Main River South Bank	705	1387097	421555.1
Main River South Bank	659	1392930.175	422552.691	Main River South Bank	706	1386945	421469.9
Main River South Bank	660	1392794.178	422611.4095	Main River South Bank	707	1386837	421404.8
Main River South Bank	661	1392653.22	422656.6877	Main River South Bank	708	1386720	421331.8
Main River South Bank	662	1392499.287	422702.3494	Main River South Bank	709	1386645	421296.3
Main River South Bank	663	1392401.088	422735.7294	Main River South Bank	710	1386528	421223.1
Main River South Bank	664	1392328.064	422749.5105	Main River South Bank	711	1386406	421133.1
Main River South Bank	665	1392255.553	422776.6641	Main River South Bank	712	1386314	421059.1
Main River South Bank	666	1392182.731	422794.7704	Main River South Bank	713	1386223	420976.4
Main River South Bank	667	1392097.417	422827.4534	Main River South Bank	714	1386084	420835
Main River South Bank	668	1392020.611	422855.3235	Main River South Bank	715	1385987	420753.3
Main River South Bank	669	1391874.825	422891.5889	Main River South Bank	716	1385827	420631.4
Main River South Bank	670	1391741.42	422913.273	Main River South Bank	717	1385670	420510.1
Main River South Bank	671	1391650.525	422913.8065	Main River South Bank	718	1385589	420463
Main River South Bank	672	1391480.845	422891.0565	Main River South Bank	719	1385494	420416.7
Main River South Bank	673	1391327.938	422853.7549	Main River South Bank	720	1385416	420373.6
Main River South Bank	674	1391201.188	422823.729	Main River South Bank	721	1385312	420319.2
Main River South Bank	675	1391047.308	422763.2421	Main River South Bank	722	1385168	420211.8
Main River South Bank	676	1390928.655	422719.0089	Main River South Bank	723	1385077	420156.9
Main River South Bank	677	1390818.267	422665.2274	Main River South Bank	724	1384929	420058.4
Main River South Bank	678	1390690.164	422603.4374	Main River South Bank	725	1384828	419995.8
Main River South Bank	679	1390580.276	422563.5797	Main River South Bank	726	1384708	419912.7
Main River South Bank	680	1390461.374	422515.1654	Main River South Bank	727	1384567	419801.4
Main River South Bank	681	1390298.602	422454.8662	Main River South Bank	728	1384448	419727.3
Main River South Bank	682	1390166.905	422415.9817	Main River South Bank	729	1384322	419627.7
Main River South Bank	683	1390039.683	422381.4705	Main River South Bank	730	1384235	419535.1
Main River South Bank	684	1389956.066	422353.5161	Main River South Bank	731	1384161	419479.7
Main River South Bank	685	1389802.507	422315.4357	Main River South Bank	732	1384084	419398.9
Main River South Bank	686	1389693.241	422298.3521	Main River South Bank	733	1383977	419316
Main River South Bank	687	1389522.498	422265.7458	Main River South Bank	734	1383843	419238.5
Main River South Bank	688	1389395.561	422244.1874	Main River South Bank	735	1383719	419165
Main River South Bank	689	1389303.943	422235.1227	Main River South Bank	736	1383580	419117.8
Main River South Bank	690	1389142.036	422206.4771	Main River South Bank	737	1383396	419064.6
Main River South Bank	691	1389015.655	422194.2622	Main River South Bank	738	1383221	419019.6
Main River South Bank	692	1388893.421	422177.4098	Main River South Bank	739	1383118	418992
Main River South Bank	693	1388762.166	422151.3498	Main River South Bank	740	1382974	418949.3
Main River South Bank	694	1388596.103	422122.3038	Main River South Bank	741	1382854	418918.4
Main River South Bank	695	1388407.756	422075.9531	Main River South Bank	742	1382746	418891.1
Main River South Bank	696	1388267.757	422045.9695	Main River South Bank	743	1382626	418868.5
Main River South Bank	697	1388026.469	421973.8452	Main River South Bank	744	1382501	418837.9
Main River South Bank	698	1387895.254	421948.1037	Main River South Bank	745	1382383	418798.2
Main River South Bank	699	1387715.259	421897.6076	Main River South Bank	746	1382248	418755.7
Main River South Bank	700	1387609.204	421853.024	Main River South Bank	747	1382080	418689.5
Main River South Bank	701	1387476.318	421791.421	Main River South Bank	748	1381971	418637.3
Main River South Bank	702	1387355.828	421716.4026	Main River South Bank	749	1381825	418574.2
Main River South Bank	703	1387302.241	421682.9531	Main River South Bank	750	1381693	418523

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Main River South Bank	751	1381553.629	418481.0525	Main River South Bank	798	1375424	418827.1
Main River South Bank	752	1381414.671	418447.3393	Main River South Bank	799	1375284	418845.6
Main River South Bank	753	1381285.555	418425.6693	Main River South Bank	800	1375185	418878.5
Main River South Bank	754	1381160.065	418395.5302	Main River South Bank	801	1375047	418922.1
Main River South Bank	755	1381029.858	418361.375	Main River South Bank	802	1374983	418943.8
Main River South Bank	756	1380949.133	418341.1342	Main River South Bank	803	1374901	418970.8
Main River South Bank	757	1380785.004	418321.7228	Main River South Bank	804	1374791	419025.5
Main River South Bank	758	1380662.328	418324.9751	Main River South Bank	805	1374667	419089.6
Main River South Bank	759	1380529.559	418312.3357	Main River South Bank	806	1374509	419206.9
Main River South Bank	760	1380450.908	418317.214	Main River South Bank	807	1374401	419299.7
Main River South Bank	761	1380337.001	418319.9584	Main River South Bank	808	1374336	419380.5
Main River South Bank	762	1380192.814	418328.9239	Main River South Bank	809	1374239	419506.5
Main River South Bank	763	1380093.079	418343.7865	Main River South Bank	810	1374150	419619.1
Main River South Bank	764	1379872.409	418382.7254	Main River South Bank	811	1374097	419746
Main River South Bank	765	1379737.688	418399.4128	Main River South Bank	812	1374040	419869
Main River South Bank	766	1379585.522	418417.6116	Main River South Bank	813	1373983	420000.9
Main River South Bank	767	1379454.056	418421.5699	Main River South Bank	814	1373958	420096.2
Main River South Bank	768	1379328.418	418442.0719	Main River South Bank	815	1373923	420175.7
Main River South Bank	769	1379179.832	418451.48	Main River South Bank	816	1373888	420242.2
Main River South Bank	770	1379022.867	418465.7723	Main River South Bank	817	1373815	420346.1
Main River South Bank	771	1378925.956	418463.3117	Main River South Bank	818	1373758	420444.5
Main River South Bank	772	1378821.827	418478.5978	Main River South Bank	819	1373692	420522.7
Main River South Bank	773	1378744.527	418500.0246	Main River South Bank	820	1373625	420601.2
Main River South Bank	774	1378614.16	418517.0115	Main River South Bank	821	1373561	420640.6
Main River South Bank	775	1378492.1	418529.17	Main River South Bank	822	1373481	420720.1
Main River South Bank	776	1378369.656	418537.0588	Main River South Bank	823	1373438	420753.7
Main River South Bank	777	1378146.943	418555.3859	Main River South Bank	824	1373211	420914.2
Main River South Bank	778	1378006.676	418560.5791	Main River South Bank	825	1373120	421006.7
Main River South Bank	779	1377879.403	418564.567	Main River South Bank	826	1372975	421113.6
Main River South Bank	780	1377791.923	418570.2894	Main River South Bank	827	1372818	421269.4
Main River South Bank	781	1377651.522	418575.1943	Main River South Bank	828	1372691	421400.9
Main River South Bank	782	1377529.691	418591.8514	Main River South Bank	829	1372564	421536.1
Main River South Bank	783	1377442.502	418601.5427	Main River South Bank	830	1372433	421683.9
Main River South Bank	784	1377313.255	418635.2235	Main River South Bank	831	1372313	421835.9
Main River South Bank	785	1377214.672	418667.297	Main River South Bank	832	1372184	421938.1
Main River South Bank	786	1377098.148	418695.9272	Main River South Bank	833	1371991	422053.8
Main River South Bank	787	1376973.177	418729.521	Main River South Bank	834	1371833	422113.4
Main River South Bank	788	1376881.815	418744.0289	Main River South Bank	835	1371679	422172.5
Main River South Bank	789	1376773.226	418764.5007	Main River South Bank	836	1371482	422243.5
Main River South Bank	790	1376635.006	418799.273	Main River South Bank	837	1371307	422306.3
Main River South Bank	791	1376463.241	418802.7172	Main River South Bank	838	1371171	422365.4
Main River South Bank	792	1376326.626	418804.1332	Main River South Bank	839	1371028	422440.8
Main River South Bank	793	1376154.878	418808.0942	Main River South Bank	840	1370847	422527.3
Main River South Bank	794	1376021.268	418792.1017	Main River South Bank	841	1370689	422611.2
Main River South Bank	795	1375897.424	418788.4075	Main River South Bank	842	1370529	422672.7
Main River South Bank	796	1375782.697	418788.4141	Main River South Bank	843	1370357	422774.2
Main River South Bank	797	1375620.759	418804.4649	Main River South Bank	844	1370176	422868.4

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Main River South Bank	845	1369966.72	423004.2087	Main River South Bank	892	1361426	423628.2
Main River South Bank	846	1369846.423	423070.0594	Main River South Bank	893	1361120	423633.7
Main River South Bank	847	1369695.722	423146.4597	Main River South Bank	894	1360867	423628
Main River South Bank	848	1369502.339	423019.567	Main River South Bank	895	1360575	423609.2
Main River South Bank	849	1369297.943	422971.3192	Main River South Bank	896	1360539	423608.4
Main River South Bank	850	1369077.665	422916.5289	Main River South Bank	897	1360400	423605.9
Main River South Bank	851	1368766.542	422902.1418	Main River South Bank	898	1359929	423514.6
Main River South Bank	852	1368642.521	422768.2933	Main River South Bank	899	1359783	423478.6
Main River South Bank	853	1368494.243	422753.0286	Main River South Bank	900	1359537	423433.8
Main River South Bank	854	1368328.751	422708.6162	Main River South Bank	901	1359310	423326.1
Main River South Bank	855	1368183.749	422615.3941	Main River South Bank	902	1359032	423252.9
Main River South Bank	856	1368068.364	422496.3527	Main River South Bank	903	1358701	423174.1
Main River South Bank	857	1367908.377	422412.981	Main River South Bank	904	1358489	423048.9
Main River South Bank	858	1367741.156	422337.8406	Main River South Bank	905	1358305	422898.7
Main River South Bank	859	1367617.228	422343.0168	Main River South Bank	906	1358138	422770.5
Main River South Bank	860	1367416.629	422364.2907	Main River South Bank	907	1357915	422599.4
Main River South Bank	861	1367226.43	422431.1427	Main River South Bank	908	1357748	422471.3
Main River South Bank	862	1367004.039	422478.6217	Main River South Bank	909	1357525	422307.9
Main River South Bank	863	1366830.187	422559.8265	Main River South Bank	910	1357355	422141.8
Main River South Bank	864	1366637.8	422589.3051	Main River South Bank	911	1357148	421992.8
Main River South Bank	865	1366439.555	422670.231	Main River South Bank	912	1356965	421857.9
Main River South Bank	866	1366219.163	422765.5505	Main River South Bank	913	1356829	421758.8
Main River South Bank	867	1366006.105	422851.3156	Main River South Bank	914	1356692	421628.9
Main River South Bank	868	1365839.58	422931.9426	Main River South Bank	915	1356625	421555
Main River South Bank	869	1365528.122	423058.436	Main River South Bank	916	1356561	421483.5
Main River South Bank	870	1365352.706	423115.5223	Main River South Bank	917	1356377	421341
Main River South Bank	871	1365109.795	423209.4282	Main River South Bank	918	1356163	421216
Main River South Bank	872	1364981.46	423268.7789	Main River South Bank	919	1355945	421137.5
Main River South Bank	873	1364859.939	423311.6178	Main River South Bank	920	1355483	421082.5
Main River South Bank	874	1364841.042	423318.4032	Main River South Bank	921	1355329	421077.2
Main River South Bank	875	1364746.106	423353.1345	Main River South Bank	922	1355138	421074
Main River South Bank	876	1364594.315	423406.3478	Main River South Bank	923	1354947	421071.4
Main River South Bank	877	1364455.062	423411.7464	Main River South Bank	924	1354710	421086.9
Main River South Bank	878	1364142.921	423502.5391	Main River South Bank	925	1354528	421106.8
Main River South Bank	879	1363982.128	423532.936	Main River South Bank	926	1354304	421090.9
Main River South Bank	880	1363759.162	423560.6224	Main River South Bank	927	1354058	421076.5
Main River South Bank	881	1363499.977	423630.4157	Main River South Bank	928	1353834	421037.8
Main River South Bank	882	1363335.628	423606.5791	Main River South Bank	929	1353589	421054.4
Main River South Bank	883	1363159.979	423653.1155	Main River South Bank	930	1353144	421061.5
Main River South Bank	884	1362960.881	423701.7467	Main River South Bank	931	1352776	421064
Main River South Bank	885	1362766.26	423703.4452	Main River South Bank	932	1352674	421058
Main River South Bank	886	1362586.98	423703.6605	Main River South Bank	933	1352599	421053.4
Main River South Bank	887	1362393.593	423719.4629	Main River South Bank	934	1352366	421023.7
Main River South Bank	888	1362153.063	423707.0804	Main River South Bank	935	1352075	421044.2
Main River South Bank	889	1361973.505	423666.3622	Main River South Bank	936	1351810	421101
Main River South Bank	890	1361852.169	423653.2986	Main River South Bank	937	1351643	421128.4
Main River South Bank	891	1361756.83	423643.2369	Main River South Bank	938	1351394	421214.8

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Main River South Bank	939	1351025.916	421340.7769	Main River South Bank	986	1342307	422948
Main River South Bank	940	1350900.261	421418.3865	Main River South Bank	987	1342069	422954.9
Main River South Bank	941	1350668.651	421518.9443	Main River South Bank	988	1341830	422953.5
Main River South Bank	942	1350548.836	421565.795	Main River South Bank	989	1341597	422921.4
Main River South Bank	943	1350370.638	421662.5082	Main River South Bank	990	1341349	422882.4
Main River South Bank	944	1350213.462	421726.9889	Main River South Bank	991	1341122	422826.4
Main River South Bank	945	1350087.569	421804.7248	Main River South Bank	992	1340787	422753.9
Main River South Bank	946	1349929.881	421869.0053	Main River South Bank	993	1340619	422763.9
Main River South Bank	947	1349742.499	421958.3081	Main River South Bank	994	1340424	422729.4
Main River South Bank	948	1349598.059	421998.9748	Main River South Bank	995	1340282	422661.3
Main River South Bank	949	1349500.081	422044.2376	Main River South Bank	996	1340121	422540.1
Main River South Bank	950	1349353.268	422054.6076	Main River South Bank	997	1339946	422443.1
Main River South Bank	951	1349176.847	422089.9508	Main River South Bank	998	1339664	422221.9
Main River South Bank	952	1349014.594	422101.3425	Main River South Bank	999	1339486	422070.9
Main River South Bank	953	1348750.097	422089.1752	Main River South Bank	1000	1339450	422019.3
Main River South Bank	954	1348557.36	422110.3806	Main River South Bank	1001	1339377	421916.1
Main River South Bank	955	1348426.388	422126.8813	Main River South Bank	1002	1339250	421716
Main River South Bank	956	1348304.136	422158.6618	Main River South Bank	1003	1339119	421562.5
Main River South Bank	957	1348121.053	422209.2668	Main River South Bank	1004	1338983	421478.1
Main River South Bank	958	1347960.767	422250.8645	Main River South Bank	1005	1338814	421341.9
Main River South Bank	959	1347848.384	422311.9584	Main River South Bank	1006	1338589	421162.9
Main River South Bank	960	1347699.47	422406.0755	Main River South Bank	1007	1338422	421072.8
Main River South Bank	961	1347595.9	422482	Main River South Bank	1008	1338282	421027.2
Main River South Bank	962	1347408.539	422578.6618	Main River South Bank	1009	1338090	421015.4
Main River South Bank	963	1347256.906	422626.8573	Main River South Bank	1010	1337946	421024
Main River South Bank	964	1347060.179	422694.1021	Main River South Bank	1011	1337767	421088.5
Main River South Bank	965	1346928.923	422695.2668	Main River South Bank	1012	1337627	421165.9
Main River South Bank	966	1346743.917	422699.9912	Main River South Bank	1013	1337527	421272.1
Main River South Bank	967	1346533.975	422675.7677	Main River South Bank	1014	1337425	421354.9
Main River South Bank	968	1346301.663	422660.7953	Main River South Bank	1015	1337358	421489.4
Main River South Bank	969	1346094.628	422674.668	Main River South Bank	1016	1337288	421585.8
Main River South Bank	970	1345849.944	422698.811	Main River South Bank	1017	1337205	421713.5
Main River South Bank	971	1345706.406	422738.9767	Main River South Bank	1018	1337110	421887.8
Main River South Bank	972	1345423.552	422765.5863	Main River South Bank	1019	1337015	422054.1
Main River South Bank	973	1345196.247	422818.9948	Main River South Bank	1020	1336915	422259.1
Main River South Bank	974	1345021.05	422845.6916	Main River South Bank	1021	1336848	422400.9
Main River South Bank	975	1344764.927	422840.1221	Main River South Bank	1022	1336761	422582.7
Main River South Bank	976	1344581.899	422836.1467	Main River South Bank	1023	1336660	422647
Main River South Bank	977	1344395.994	422817.5971	Main River South Bank	1024	1336581	422780.6
Main River South Bank	978	1344120.939	422850.8127	Main River South Bank	1025	1336493	422949.7
Main River South Bank	979	1343891.222	422873.1949	Main River South Bank	1026	1336411	423130.6
Main River South Bank	980	1343677.682	422909.6053	Main River South Bank	1027	1336342	423240.4
Main River South Bank	981	1343463.028	422930.9262	Main River South Bank	1028	1336277	423396.9
Main River South Bank	982	1343433.528	422927.8757	Main River South Bank	1029	1336220	423517.5
Main River South Bank	983	1343369.81	422921.2428	Main River South Bank	1030	1336155	423685.6
Main River South Bank	984	1342954.89	422947.0125	Main River South Bank	1031	1336106	423829.9
Main River South Bank	985	1342500.291	422951.8852	Main River South Bank	1032	1336045	423992.3

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Main River South Bank	1033	1335990.909	424166.0391	Main River South Bank	1080	1330920	428042.6
Main River South Bank	1034	1335964.884	424326.5148	Main River South Bank	1081	1330787	428020.4
Main River South Bank	1035	1335934.588	424517.0338	Main River South Bank	1082	1330645	427971.5
Main River South Bank	1036	1335908.746	424683.3875	Main River South Bank	1083	1330540	427950.9
Main River South Bank	1037	1335860.07	424845.3327	Main River South Bank	1084	1330460	427918.4
Main River South Bank	1038	1335853.625	424928.2172	Main River South Bank	1085	1330321	427903.2
Main River South Bank	1039	1335805.227	425248.5883	Main River South Bank	1086	1330255	427870.3
Main River South Bank	1040	1335786.827	425402.5945	Main River South Bank	1087	1330125	427840.9
Main River South Bank	1041	1335772.098	425609.1404	Main River South Bank	1088	1329987	427805.5
Main River South Bank	1042	1335748.139	425682.3629	Main River South Bank	1089	1329886	427798.2
Main River South Bank	1043	1335695.457	425843.1476	Main River South Bank	1090	1329743	427773
Main River South Bank	1044	1335659.438	425992.6132	Main River South Bank	1091	1329623	427746.7
Main River South Bank	1045	1335588.5	426158.7467	Main River South Bank	1092	1329483	427724.9
Main River South Bank	1046	1335579.482	426179.9383	Main River South Bank	1093	1329302	427688.5
Main River South Bank	1047	1335516.14	426272.1985	Main River South Bank	1094	1329221	427625.6
Main River South Bank	1048	1335441.991	426376.6978	Main River South Bank	1095	1329112	427615.5
Main River South Bank	1049	1335369.413	426505.0404	Main River South Bank	1096	1329058	427605.3
Main River South Bank	1050	1335265.763	426605.6339	Main River South Bank	1097	1328944	427558
Main River South Bank	1051	1335145.09	426713.4833	Main River South Bank	1098	1328775	427504.3
Main River South Bank	1052	1335019.33	426833.2008	Main River South Bank	1099	1328624	427459.4
Main River South Bank	1053	1334924.623	426897.7231	Main River South Bank	1100	1328440	427389.3
Main River South Bank	1054	1334831.976	426991.8274	Main River South Bank	1101	1328287	427320.6
Main River South Bank	1055	1334750.457	427079.4521	Main River South Bank	1102	1328080	427252
Main River South Bank	1056	1334672.309	427131.3593	Main River South Bank	1103	1327952	427195.8
Main River South Bank	1057	1334537.511	427210.2959	Main River South Bank	1104	1327763	427102.2
Main River South Bank	1058	1334370.167	427326.7116	Main River South Bank	1105	1327570	426988.7
Main River South Bank	1059	1334246.04	427392.9685	Main River South Bank	1106	1327420	426919.9
Main River South Bank	1060	1334151.275	427429.3402	Main River South Bank	1107	1327298	426856.4
Main River South Bank	1061	1334036.552	427484.2595	Main River South Bank	1108	1327164	426787
Main River South Bank	1062	1333953.154	427502.9823	Main River South Bank	1109	1327037	426696.6
Main River South Bank	1063	1333814.204	427552.2625	Main River South Bank	1110	1326905	426599.6
Main River South Bank	1064	1333661.589	427602.2641	Main River South Bank	1111	1326796	426525
Main River South Bank	1065	1333512.162	427651.5535	Main River South Bank	1112	1326627	426437.3
Main River South Bank	1066	1333348.803	427698.6647	Main River South Bank	1113	1326448	426336.7
Main River South Bank	1067	1333187.919	427735.2146	Main River South Bank	1114	1326274	426273.1
Main River South Bank	1068	1333009.936	427772.8051	Main River South Bank	1115	1326136	426237.3
Main River South Bank	1069	1332812.225	427818.605	Main River South Bank	1116	1325956	426184.4
Main River South Bank	1070	1332577.807	427870.7405	Main River South Bank	1117	1325831	426148.2
Main River South Bank	1071	1332444.695	427901.0046	Main River South Bank	1118	1325690	426116.4
Main River South Bank	1072	1332286.787	427937.0046	Main River South Bank	1119	1325585	426082.2
Main River South Bank	1073	1331954.04	427981.5292	Main River South Bank	1120	1325447	426046.9
Main River South Bank	1074	1331786.127	428002.3848	Main River South Bank	1121	1325346	426015.8
Main River South Bank	1075	1331694.162	428006.0929	Main River South Bank	1122	1325228	425975.5
Main River South Bank	1076	1331472.349	428015.4232	Main River South Bank	1123	1325031	425879.7
Main River South Bank	1077	1331344.363	428023.3881	Main River South Bank	1124	1324911	425812.5
Main River South Bank	1078	1331216.893	428037.8825	Main River South Bank	1125	1324755	425717.5
Main River South Bank	1079	1331055.174	428044.5837	Main River South Bank	1126	1324563	425594

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Main River South Bank	1127	1324402.914	425492.3534	Main River South Bank	1174	1318908	424882.8
Main River South Bank	1128	1324265.144	425419.6933	Main River South Bank	1175	1318755	424889
Main River South Bank	1129	1324185.398	425346.6926	Main River South Bank	1176	1318626	424890.1
Main River South Bank	1130	1324068.574	425282.9908	Main River South Bank	1177	1318548	424901.9
Main River South Bank	1131	1323933.46	425200.3209	Main River South Bank	1178	1318413	424910.3
Main River South Bank	1132	1323803.106	425140.7474	Main River South Bank	1179	1318245	424893.7
Main River South Bank	1133	1323711.675	425103.3675	Main River South Bank	1180	1318141	424859.7
Main River South Bank	1134	1323659.118	425082.0266	Main River South Bank	1181	1318041	424842.1
Main River South Bank	1135	1323146.261	424877.2753	Main River South Bank	1182	1317941	424818
Main River South Bank	1136	1323024.066	424840.9944	Main River South Bank	1183	1317826	424825.3
Main River South Bank	1137	1322884.733	424805.3711	Main River South Bank	1184	1317697	424819.8
Main River South Bank	1138	1322693.061	424756.5942	Main River South Bank	1185	1317485	424799.5
Main River South Bank	1139	1322558.162	424737.9206	Main River South Bank	1186	1317355	424794.1
Main River South Bank	1140	1322440.485	424721.4541	Main River South Bank	1187	1317167	424772
Main River South Bank	1141	1322357.421	424709.8038	Main River South Bank	1188	1317065	424771.8
Main River South Bank	1142	1322267.298	424695.3091	Main River South Bank	1189	1316957	424781.9
Main River South Bank	1143	1322170.806	424687.7743	Main River South Bank	1190	1316872	424780.3
Main River South Bank	1144	1322095.407	424688.7733	Main River South Bank	1191	1316735	424775.8
Main River South Bank	1145	1322041.378	424702.3921	Main River South Bank	1192	1316591	424747.6
Main River South Bank	1146	1321961.241	424683.5784	Main River South Bank	1193	1316484	424730.5
Main River South Bank	1147	1321863.836	424662.5535	Main River South Bank	1194	1316367	424710.9
Main River South Bank	1148	1321776.628	424640.8954	Main River South Bank	1195	1316241	424698.8
Main River South Bank	1149	1321641.111	424615.6706	Main River South Bank	1196	1316117	424679.5
Main River South Bank	1150	1321509.712	424600.0325	Main River South Bank	1197	1316025	424675.1
Main River South Bank	1151	1321353.27	424569.124	Main River South Bank	1198	1315849	424625.6
Main River South Bank	1152	1321239.628	424562.6352	Main River South Bank	1199	1315200	424416.3
Main River South Bank	1153	1321164.502	424567.2917	Main River South Bank	1200	1314892	424277.1
Main River South Bank	1154	1321066.442	424586.9072	Main River South Bank	1201	1314791	424236.4
Main River South Bank	1155	1320992.266	424605.04	Main River South Bank	1202	1314631	424182.1
Main River South Bank	1156	1320891.486	424635.0742	Main River South Bank	1203	1314482	424134.2
Main River South Bank	1157	1320824.401	424656.045	Main River South Bank	1204	1314322	424079.9
Main River South Bank	1158	1320757.36	424677.4226	Main River South Bank	1205	1314205	424016.3
Main River South Bank	1159	1320688.248	424718.6152	Main River South Bank	1206	1313994	423951.6
Main River South Bank	1160	1320618.269	424746.7333	Main River South Bank	1207	1313760	423861.7
Main River South Bank	1161	1320540.798	424765.0568	Main River South Bank	1208	1313599	423804.1
Main River South Bank	1162	1320460.85	424797.0673	Main River South Bank	1209	1313439	423753
Main River South Bank	1163	1320354.103	424837.2914	Main River South Bank	1210	1313284	423725.7
Main River South Bank	1164	1320283.292	424851.9144	Main River South Bank	1211	1313022	423687.9
Main River South Bank	1165	1320156.007	424890.1158	Main River South Bank	1212	1312747	423650.8
Main River South Bank	1166	1319995.438	424940.6145	Main River South Bank	1213	1312522	423617.6
Main River South Bank	1167	1319891.147	424963.852	Main River South Bank	1214	1312240	423590.7
Main River South Bank	1168	1319792.13	424963.3891	Main River South Bank	1215	1312091	423563
Main River South Bank	1169	1319656.704	424978.3009	Main River South Bank	1216	1311763	423542.6
Main River South Bank	1170	1319519.794	424969.9367	Main River South Bank	1217	1311551	423504.8
Main River South Bank	1171	1319367.802	424938.7287	Main River South Bank	1218	1311345	423456.9
Main River South Bank	1172	1319223.807	424924.2654	Main River South Bank	1219	1311143	423388.3
Main River South Bank	1173	1319075.936	424902.6765	Main River South Bank	1220	1310913	423304.9

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Main River South Bank	1221	1310738.208	423241.3051	Main River South Bank	1268	1302558	418347.2
Main River South Bank	1222	1310543.36	423179.6155	Main River South Bank	1269	1302196	418021.2
Main River South Bank	1223	1310247.397	423087.6296	Main River South Bank	1270	1302067	417873.7
Main River South Bank	1224	1310050.739	423030.4977	Main River South Bank	1271	1301888	417714.4
Main River South Bank	1225	1309939.16	423011.6355	Main River South Bank	1272	1301771	417585.4
Main River South Bank	1226	1309821.516	422996.7189	Main River South Bank	1273	1301658	417448.4
Main River South Bank	1227	1309704.089	422975.3872	Main River South Bank	1274	1301559	417314.2
Main River South Bank	1228	1309561.792	422929.0653	Main River South Bank	1275	1301499	417227.2
Main River South Bank	1229	1309468.7	422895.6598	Main River South Bank	1276	1301416	417145.3
Main River South Bank	1230	1309324.411	422838.8862	Main River South Bank	1277	1301343	417004.7
Main River South Bank	1231	1309188.084	422791.6057	Main River South Bank	1278	1301233	416886.1
Main River South Bank	1232	1309071.02	422729.2766	Main River South Bank	1279	1301149	416755.7
Main River South Bank	1233	1308980.27	422661.2349	Main River South Bank	1280	1301015	416595.5
Main River South Bank	1234	1308846.876	422596.65	Main River South Bank	1281	1300860	416423.5
Main River South Bank	1235	1308727.554	422544.148	Main River South Bank	1282	1300758	416333.9
Main River South Bank	1236	1308623.757	422474.0535	Main River South Bank	1283	1300602	416168.5
Main River South Bank	1237	1308555.916	422420.6457	Main River South Bank	1284	1300280	415753
Main River South Bank	1238	1308536.646	422405.6126	Main River South Bank	1285	1300204	415606.3
Main River South Bank	1239	1308406.729	422340.7172	Main River South Bank	1286	1300108	415460.8
Main River South Bank	1240	1308303.889	422283.7136	Main River South Bank	1287	1299998	415270
Main River South Bank	1241	1308146.783	422207.2874	Main River South Bank	1288	1299905	415072.3
Main River South Bank	1242	1307911.506	422102.5141	Main River South Bank	1289	1299820	414890.6
Main River South Bank	1243	1307726.605	422011.2802	Main River South Bank	1290	1299746	414707.9
Main River South Bank	1244	1307438.962	421872.6992	Main River South Bank	1291	1299715	414657.5
Main River South Bank	1245	1307237.142	421782.3714	Main River South Bank	1292	1299630	414518.5
Main River South Bank	1246	1307065.241	421692.6733	Main River South Bank	1293	1299510	414440.5
Main River South Bank	1247	1306900.454	421613.0962	Main River South Bank	1294	1299324	414337.5
Main River South Bank	1248	1306779.614	421546.8255	Main River South Bank	1295	1299167	414265.8
Main River South Bank	1249	1306616.551	421446.5158	Main River South Bank	1296	1299019	414190.4
Main River South Bank	1250	1306469.077	421385.7274	Main River South Bank	1297	1298886	414094.3
Main River South Bank	1251	1306248.756	421228.5043	Main River South Bank	1298	1298786	413996.1
Main River South Bank	1252	1306113.726	421156.5036	Main River South Bank	1299	1298686	413864.7
Main River South Bank	1253	1305949.978	421052.3872	Main River South Bank	1300	1298574	413726.6
Main River South Bank	1254	1305798.259	420927.732	Main River South Bank	1301	1298458	413577.5
Main River South Bank	1255	1305650.843	420819.1906	Main River South Bank	1302	1298371	413422.4
Main River South Bank	1256	1305522.117	420743.4292	Main River South Bank	1303	1298310	413264.9
Main River South Bank	1257	1305392.501	420654.1775	Main River South Bank	1304	1298229	413119.1
Main River South Bank	1258	1305317.844	420584.981	Main River South Bank	1305	1298152	413026
Main River South Bank	1259	1305219.147	420506.749	Main River South Bank	1306	1298067	412909.7
Main River South Bank	1260	1305120.701	420447.7851	Main River South Bank	1307	1297975	412800.5
Main River South Bank	1261	1304669.961	420135.8127	Main River South Bank	1308	1297900	412701.1
Main River South Bank	1262	1304444.175	419975.6372	Main River South Bank	1309	1297831	412608.3
Main River South Bank	1263	1304208.512	419791.2153	Main River South Bank	1310	1297725	412459.6
Main River South Bank	1264	1303912.657	419577.4242	Main River South Bank	1311	1297621	412351.4
Main River South Bank	1265	1303665.838	419351.8642	Main River South Bank	1312	1297570	412262.3
Main River South Bank	1266	1303337.164	419067.8511	Main River South Bank	1313	1297492	412176.9
Main River South Bank	1267	1303023.778	418787.9298	Main River South Bank	1314	1297411	412072.6

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Main River South Bank	1315	1297323.011	411955.379	Main River South Bank	1362	1302488	404804.8
Main River South Bank	1316	1297218.773	411819.5991	Main River South Bank	1363	1302545	404667
Main River South Bank	1317	1297169.464	411728.9856	Main River South Bank	1364	1302560	404537.9
Main River South Bank	1318	1297158.841	411676.4256	Main River South Bank	1365	1302573	404390.9
Main River South Bank	1319	1296942.719	411178.3902	Main River South Bank	1366	1302556	404058.2
Main River South Bank	1320	1296842.136	410922.8177	Main River South Bank	1367	1302551	403822.2
Main River South Bank	1321	1296694.165	410408.88	Main River South Bank	1368	1302521	403569.5
Main River South Bank	1322	1296648.851	410193.5152	Main River South Bank	1369	1302517	403339.5
Main River South Bank	1323	1296611.839	409964.815	Main River South Bank	1370	1302501	403116
Main River South Bank	1324	1296632.111	409812.4637	Main River South Bank	1371	1302483	402868.2
Main River South Bank	1325	1296734.463	409524.3301	Main River South Bank	1372	1302481	402583.5
Main River South Bank	1326	1296811.069	409329.7527	Main River South Bank	1373	1302428	402434.9
Main River South Bank	1327	1297040.839	408989.4282	Main River South Bank	1374	1302353	402215.5
Main River South Bank	1328	1297209.436	408813.9666	Main River South Bank	1375	1302262	402026.7
Main River South Bank	1329	1297304.9	408684.1467	Main River South Bank	1376	1302188	401830.8
Main River South Bank	1330	1297422.552	408533.6533	Main River South Bank	1377	1302092	401654.5
Main River South Bank	1331	1297607.414	408330.3944	Main River South Bank	1378	1302063	401583
Main River South Bank	1332	1297737.515	408211.9833	Main River South Bank	1379	1302004	401416.2
Main River South Bank	1333	1297917.207	408084.1782	Main River South Bank	1380	1301944	401230.7
Main River South Bank	1334	1298057.591	408037.8695	Main River South Bank	1381	1301874	401088.6
Main River South Bank	1335	1298284.524	407924.2297	Main River South Bank	1382	1301821	400908.4
Main River South Bank	1336	1298599.592	407832.6996	Main River South Bank	1383	1301755	400710.4
Main River South Bank	1337	1298883.878	407829.1425	Main River South Bank	1384	1301669	400451.7
Main River South Bank	1338	1299394.588	407824.212	Main River South Bank	1385	1301609	400234
Main River South Bank	1339	1299574.641	407778.7829	Main River South Bank	1386	1301578	400001.9
Main River South Bank	1340	1299730.357	407727.8357	Main River South Bank	1387	1301502	399762.6
Main River South Bank	1341	1299880.692	407656.7898	Main River South Bank	1388	1301404	399543.8
Main River South Bank	1342	1300065.019	407567.2343	Main River South Bank	1389	1301273	399370.5
Main River South Bank	1343	1300240.916	407457.3262	Main River South Bank	1390	1301168	399220
Main River South Bank	1344	1300365.163	407360.3042	Main River South Bank	1391	1301094	399102
Main River South Bank	1345	1300511.337	407248.318	Main River South Bank	1392	1301043	399018.4
Main River South Bank	1346	1300665.854	407112.1015	Main River South Bank	1393	1300951	398908.7
Main River South Bank	1347	1300836.473	406921.2776	Main River South Bank	1394	1300874	398768.8
Main River South Bank	1348	1301036.985	406637.965	Main River South Bank	1395	1300803	398628.6
Main River South Bank	1349	1301119.475	406549.3062	Main River South Bank	1396	1300697	398468.1
Main River South Bank	1350	1301302.115	406377.423	Main River South Bank	1397	1300581	398331.5
Main River South Bank	1351	1301419.553	406266.5454	Main River South Bank	1398	1300489	398221.9
Main River South Bank	1352	1301548.087	406142.8157	Main River South Bank	1399	1300398	398123.7
Main River South Bank	1353	1301635.969	406033.4788	Main River South Bank	1400	1300343	398064.2
Main River South Bank	1354	1301729.833	405924.1074	Main River South Bank	1401	1300171	397960.3
Main River South Bank	1355	1301838.583	405770.403	Main River South Bank	1402	1299994	397891.6
Main River South Bank	1356	1301924.856	405636.2809	Main River South Bank	1403	1299790	397854.1
Main River South Bank	1357	1302087.202	405393.5221	Main River South Bank	1404	1299581	397822.2
Main River South Bank	1358	1302175.945	405296.1628	Main River South Bank	1405	1299390	397823.8
Main River South Bank	1359	1302227.853	405224.089	Main River South Bank	1406	1299120	397830.7
Main River South Bank	1360	1302328.492	405084.3354	Main River South Bank	1407	1299044	397834.2
Main River South Bank	1361	1302419.97	404937.757	Main River South Bank	1408	1298861	397842.1

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Main River South Bank	1409	1298700.699	397852.4089	Main River South Bank	1456	1291929	398992.5
Main River South Bank	1410	1298559.305	397834.6087	Main River South Bank	1457	1291732	398952.8
Main River South Bank	1411	1298515.476	397829.1254	Main River South Bank	1458	1291642	398906
Main River South Bank	1412	1298354.756	397833.3266	Main River South Bank	1459	1291541	398877.9
Main River South Bank	1413	1298211.592	397842.0565	Main River South Bank	1460	1291429	398815.2
Main River South Bank	1414	1298098.008	397866.1796	Main River South Bank	1461	1291245	398752.1
Main River South Bank	1415	1298008.312	397906.5198	Main River South Bank	1462	1291134	398701.5
Main River South Bank	1416	1297919.457	397963.6717	Main River South Bank	1463	1290970	398608.5
Main River South Bank	1417	1297869.788	398001.6176	Main River South Bank	1464	1290871	398539.6
Main River South Bank	1418	1297773.742	398030.317	Main River South Bank	1465	1290724	398456.4
Main River South Bank	1419	1297695.408	398069.9023	Main River South Bank	1466	1290626	398387.6
Main River South Bank	1420	1297594.085	398110.3709	Main River South Bank	1467	1290506	398285.4
Main River South Bank	1421	1297497.895	398139.3653	Main River South Bank	1468	1290430	398191.1
Main River South Bank	1422	1297312.279	398219.1704	Main River South Bank	1469	1290338	398092.7
Main River South Bank	1423	1297153.742	398268.9348	Main River South Bank	1470	1290290	397996.7
Main River South Bank	1424	1296984.279	398330.9201	Main River South Bank	1471	1290199	397839
Main River South Bank	1425	1296796.61	398370.405	Main River South Bank	1472	1290132	397638.9
Main River South Bank	1426	1296665.731	398395.1366	Main River South Bank	1473	1290109	397594.7
Main River South Bank	1427	1296460.84	398430.237	Main River South Bank	1474	1290021	397463.7
Main River South Bank	1428	1296182.809	398492.214	Main River South Bank	1475	1289917	397276.2
Main River South Bank	1429	1295704.858	398559.6035	Main River South Bank	1476	1289769	396999.7
Main River South Bank	1430	1295585.317	398571.7212	Main River South Bank	1477	1289681	396827.8
Main River South Bank	1431	1295369.057	398588.9197	Main River South Bank	1478	1289614	396688.5
Main River South Bank	1432	1295176.125	398610.5454	Main River South Bank	1479	1289561	396559.5
Main River South Bank	1433	1295051.423	398622.6415	Main River South Bank	1480	1289468	396306
Main River South Bank	1434	1294853.045	398632.2127	Main River South Bank	1481	1289433	396169.6
Main River South Bank	1435	1294666.47	398640.6592	Main River South Bank	1482	1289360	395937.7
Main River South Bank	1436	1294570.513	398644.9378	Main River South Bank	1483	1289283	395781.4
Main River South Bank	1437	1294391.396	398682.422	Main River South Bank	1484	1289251	395615.3
Main River South Bank	1438	1294280.032	398716.5624	Main River South Bank	1485	1289199	395480.5
Main River South Bank	1439	1294090.027	398760.9896	Main River South Bank	1486	1289126	395298.1
Main River South Bank	1440	1293951.055	398808.9831	Main River South Bank	1487	1289090	395152
Main River South Bank	1441	1293839.843	398850.5185	Main River South Bank	1488	1289035	394967.7
Main River South Bank	1442	1293728.114	398886.1409	Main River South Bank	1489	1288981	394799.3
Main River South Bank	1443	1293615.409	398904.5838	Main River South Bank	1490	1288914	394647.7
Main River South Bank	1444	1293452.124	398944.2665	Main River South Bank	1491	1288819	394458.4
Main River South Bank	1445	1293321.757	398964.2586	Main River South Bank	1492	1288744	394315.1
Main River South Bank	1446	1293174.186	398991.4558	Main River South Bank	1493	1288684	394162.7
Main River South Bank	1447	1293013.75	398996.4729	Main River South Bank	1494	1288640	394008.7
Main River South Bank	1448	1292905.589	399021.3623	Main River South Bank	1495	1288569	393817.8
Main River South Bank	1449	1292802.681	399028.3367	Main River South Bank	1496	1288523	393640.3
Main River South Bank	1450	1292705.574	399034.8699	Main River South Bank	1497	1288465	393511.2
Main River South Bank	1451	1292597.237	399042.0641	Main River South Bank	1498	1288304	393388.8
Main River South Bank	1452	1292477.754	399049.926	Main River South Bank	1499	1288060	393148.8
Main River South Bank	1453	1292341.297	399041.3246	Main River South Bank	1500	1287895	392917.1
Main River South Bank	1454	1292188.539	399033.9148	Main River South Bank	1501	1287747	392713.6
Main River South Bank	1455	1292064.456	399018.4319	Main River South Bank	1502	1287558	392488.9

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Main River South Bank	1503	1287386.095	392296.8272	Main River South Bank	1550	1275823	389437.7
Main River South Bank	1504	1287193.143	392082.5471	Main River South Bank	1551	1275430	389315.6
Main River South Bank	1505	1287023.841	391919.78	Main River South Bank	1552	1275237	389226
Main River South Bank	1506	1286876.676	391789.9985	Main River South Bank	1553	1274966	389126.5
Main River South Bank	1507	1286630.636	391642.9063	Main River South Bank	1554	1274752	389059.9
Main River South Bank	1508	1286350.784	391498.1091	Main River South Bank	1555	1274607	389014.7
Main River South Bank	1509	1286014.251	391371.3735	Main River South Bank	1556	1274405	388952.8
Main River South Bank	1510	1285737.179	391254.7787	Main River South Bank	1557	1274196	388869.9
Main River South Bank	1511	1285288.244	391115.6625	Main River South Bank	1558	1273946	388810.9
Main River South Bank	1512	1285005.993	391051.7685	Main River South Bank	1559	1273730	388742.1
Main River South Bank	1513	1284704.091	390983.9116	Main River South Bank	1560	1273523	388734.9
Main River South Bank	1514	1284514.706	390923.4854	Main River South Bank	1561	1273335	388712.4
Main River South Bank	1515	1284294.252	390835.9112	Main River South Bank	1562	1273176	388688
Main River South Bank	1516	1284064.221	390748.3984	Main River South Bank	1563	1272997	388696.3
Main River South Bank	1517	1283702.586	390649.8942	Main River South Bank	1564	1272709	388645.6
Main River South Bank	1518	1283196.908	390492.1448	Main River South Bank	1565	1272291	388549.4
Main River South Bank	1519	1282980.341	390442.22	Main River South Bank	1566	1272122	388501.2
Main River South Bank	1520	1282830.942	390472.9326	Main River South Bank	1567	1272007	388469.1
Main River South Bank	1521	1282659.891	390476.7839	Main River South Bank	1568	1271597	388328.9
Main River South Bank	1522	1282411.031	390481.8151	Main River South Bank	1569	1271237	388195.5
Main River South Bank	1523	1282112.698	390492.8236	Main River South Bank	1570	1270881	388105.4
Main River South Bank	1524	1281819.826	390490.8666	Main River South Bank	1571	1270315	387989.6
Main River South Bank	1525	1281608.104	390490.8033	Main River South Bank	1572	1269868	387846.1
Main River South Bank	1526	1281400.239	390502.7866	Main River South Bank	1573	1269617	387778.1
Main River South Bank	1527	1281323.014	390513.3715	Main River South Bank	1574	1269144	387649.3
Main River South Bank	1528	1281025.581	390536.7462	Main River South Bank	1575	1268764	387584
Main River South Bank	1529	1280135.916	390536.0736	Main River South Bank	1576	1268190	387422.7
Main River South Bank	1530	1279770.435	390502.136	Main River South Bank	1577	1268058	387393.4
Main River South Bank	1531	1279502.179	390480.6337	Main River South Bank	1578	1267840	387351.5
Main River South Bank	1532	1279218.216	390454.593	Main River South Bank	1579	1267649	387279
Main River South Bank	1533	1278992.48	390415.8673	Main River South Bank	1580	1267368	387175.4
Main River South Bank	1534	1278608.051	390375.029	Main River South Bank	1581	1267209	387115.9
Main River South Bank	1535	1278448.308	390350.8056	Main River South Bank	1582	1267060	387060.2
Main River South Bank	1536	1278293.531	390301.8003	Main River South Bank	1583	1266743	386983.5
Main River South Bank	1537	1278099.161	390267.6186	Main River South Bank	1584	1266395	386947.3
Main River South Bank	1538	1277999.228	390196.404	Main River South Bank	1585	1265931	386911.7
Main River South Bank	1539	1277852.957	390128.1734	Main River South Bank	1586	1265615	386850.8
Main River South Bank	1540	1277690.004	390036.5277	Main River South Bank	1587	1265561	386839.6
Main River South Bank	1541	1277499.63	389952.4322	Main River South Bank	1588	1265223	386767.9
Main River South Bank	1542	1277286.87	389851.6685	Main River South Bank	1589	1264963	386715.2
Main River South Bank	1543	1277084.893	389778.6183	Main River South Bank	1590	1264592	386610.5
Main River South Bank	1544	1276872.275	389674.9372	Main River South Bank	1591	1264366	386525.2
Main River South Bank	1545	1276651.167	389584.6448	Main River South Bank	1592	1264119	386401
Main River South Bank	1546	1276459.154	389516.9687	Main River South Bank	1593	1263802	386315.8
Main River South Bank	1547	1276352.725	389490.4486	Main River South Bank	1594	1263715	386300.2
Main River South Bank	1548	1276219.307	389484.319	Main River South Bank	1595	1263530	386267.3
Main River South Bank	1549	1276060.437	389467.2777	Main River South Bank	1596	1263160	386289.4

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Main River South Bank	1597	1262830.959	386309.0405	Main River South Bank	1644	1254238	390528.7
Main River South Bank	1598	1262422.745	386358.0133	Main River South Bank	1645	1253984	390574.8
Main River South Bank	1599	1262400.109	386364.7	Main River South Bank	1646	1253122	390764.6
Main River South Bank	1600	1262032.091	386474.7748	Main River South Bank	1647	1252910	390788.7
Main River South Bank	1601	1261815.176	386551.1448	Main River South Bank	1648	1252709	390807.3
Main River South Bank	1602	1261638.901	386645.0553	Main River South Bank	1649	1252516	390815.5
Main River South Bank	1603	1261477.253	386722.9306	Main River South Bank	1650	1252315	390770.8
Main River South Bank	1604	1260851.302	387004.9539	Main River South Bank	1651	1251882	390658.4
Main River South Bank	1605	1260583.373	387133.3702	Main River South Bank	1652	1251655	390601
Main River South Bank	1606	1260417.908	387212.0084	Main River South Bank	1653	1251177	390438.7
Main River South Bank	1607	1260282.972	387308.321	Main River South Bank	1654	1250950	390303.1
Main River South Bank	1608	1260142.651	387389.9893	Main River South Bank	1655	1250719	390182.2
Main River South Bank	1609	1260013.139	387491.0038	Main River South Bank	1656	1250583	390055
Main River South Bank	1610	1259893.389	387586.2446	Main River South Bank	1657	1250436	389914
Main River South Bank	1611	1259719.447	387680.7938	Main River South Bank	1658	1250267	389705.9
Main River South Bank	1612	1259609.28	387761.0034	Main River South Bank	1659	1250111	389570.4
Main River South Bank	1613	1259466.47	387770.5467	Main River South Bank	1660	1249931	389441.4
Main River South Bank	1614	1259286.64	387831.5179	Main River South Bank	1661	1249714	389270.7
Main River South Bank	1615	1259133.028	387920.281	Main River South Bank	1662	1249630	389178.3
Main River South Bank	1616	1258979.342	388003.9355	Main River South Bank	1663	1249269	388771.6
Main River South Bank	1617	1258845.001	388077.0041	Main River South Bank	1664	1249086	388621.5
Main River South Bank	1618	1258747.56	388098.4463	Main River South Bank	1665	1248922	388445.9
Main River South Bank	1619	1258574.356	388183.7452	Main River South Bank	1666	1248725	388306.8
Main River South Bank	1620	1258479.797	388263.8873	Main River South Bank	1667	1248509	388164
Main River South Bank	1621	1258335.39	388337.0838	Main River South Bank	1668	1248338	388052.6
Main River South Bank	1622	1258113.205	388438.5664	Main River South Bank	1669	1248145	387893.4
Main River South Bank	1623	1258072.631	388458.9372	Main River South Bank	1670	1247821	387698.8
Main River South Bank	1624	1257823.563	388582.6596	Main River South Bank	1671	1247463	387496.9
Main River South Bank	1625	1257710.19	388691.4388	Main River South Bank	1672	1247004	387179.5
Main River South Bank	1626	1257615.496	388780.0084	Main River South Bank	1673	1246799	387036.6
Main River South Bank	1627	1257490.76	388865.0356	Main River South Bank	1674	1246622	386852.6
Main River South Bank	1628	1257362.05	388970.3807	Main River South Bank	1675	1246390	386570
Main River South Bank	1629	1257250.615	389025.4313	Main River South Bank	1676	1246262	386368.5
Main River South Bank	1630	1257114.467	389082.4437	Main River South Bank	1677	1246137	386035
Main River South Bank	1631	1257007.045	389118.2387	Main River South Bank	1678	1246069	385854
Main River South Bank	1632	1256856.504	389186.0789	Main River South Bank	1679	1245992	385687.9
Main River South Bank	1633	1256662.257	389266.1114	Main River South Bank	1680	1245863	385560.2
Main River South Bank	1634	1256538.877	389371.6931	Main River South Bank	1681	1245652	385277
Main River South Bank	1635	1256410.365	389467.5077	Main River South Bank	1682	1245599	385197.5
Main River South Bank	1636	1256257.639	389565.4162	Main River South Bank	1683	1245464	385041
Main River South Bank	1637	1256066.587	389675.3676	Main River South Bank	1684	1245338	384883.9
Main River South Bank	1638	1255846.639	389787.6675	Main River South Bank	1685	1245227	384828
Main River South Bank	1639	1255596.414	389881.9673	Main River South Bank	1686	1245107	384792.7
Main River South Bank	1640	1255362.983	390014.8912	Main River South Bank	1687	1244988	384761.8
Main River South Bank	1641	1254916.959	390225.1701	Main River South Bank	1688	1244915	384688.7
Main River South Bank	1642	1254763.693	390303.4992	Main River South Bank	1689	1244820	384539.4
Main River South Bank	1643	1254529.956	390441.51	Main River South Bank	1690	1244753	384378.5

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Main River South Bank	1691	1244674.158	384164.7702	Main River South Bank	1738	1236358	380147.2
Main River South Bank	1692	1244572.305	383880.114	Main River South Bank	1739	1236118	380232.8
Main River South Bank	1693	1244477.907	383648.3758	Main River South Bank	1740	1235925	380344.6
Main River South Bank	1694	1244354.925	383229.6757	Main River South Bank	1741	1235726	380442.1
Main River South Bank	1695	1244260.875	383012.5267	Main River South Bank	1742	1235461	380656.2
Main River South Bank	1696	1244212.374	382880.2331	Main River South Bank	1743	1235280	380804.9
Main River South Bank	1697	1244175.599	382779.9867	Main River South Bank	1744	1235178	380953.5
Main River South Bank	1698	1244085.341	382552.4792	Main River South Bank	1745	1235053	381064.3
Main River South Bank	1699	1243981.873	382267.3939	Main River South Bank	1746	1234934	381188.9
Main River South Bank	1700	1243867.652	382065.4605	Main River South Bank	1747	1234772	381271.9
Main River South Bank	1701	1243768.496	381876.8634	Main River South Bank	1748	1234594	381325.7
Main River South Bank	1702	1243630.968	381627.158	Main River South Bank	1749	1234406	381385.3
Main River South Bank	1703	1243515.198	381423.988	Main River South Bank	1750	1234224	381400.1
Main River South Bank	1704	1243417.839	381204.5832	Main River South Bank	1751	1234072	381408.5
Main River South Bank	1705	1243363.506	381124.6383	Main River South Bank	1752	1233885	381404
Main River South Bank	1706	1243260.582	380979.5313	Main River South Bank	1753	1233681	381439.7
Main River South Bank	1707	1243171.249	380818.6849	Main River South Bank	1754	1233498	381567.2
Main River South Bank	1708	1243046.682	380650.4559	Main River South Bank	1755	1233403	381690.2
Main River South Bank	1709	1242888.278	380494.4234	Main River South Bank	1756	1233302	381803.2
Main River South Bank	1710	1242769.392	380414.0363	Main River South Bank	1757	1233233	381845.8
Main River South Bank	1711	1242601.044	380406.5031	Main River South Bank	1758	1233128	381910.8
Main River South Bank	1712	1242422.541	380394.3319	Main River South Bank	1759	1232929	382029.1
Main River South Bank	1713	1242197.025	380415.0126	Main River South Bank	1760	1232734	382196.2
Main River South Bank	1714	1241933.71	380458.0468	Main River South Bank	1761	1232541	382319.5
Main River South Bank	1715	1241807.452	380486.1705	Main River South Bank	1762	1232383	382460.1
Main River South Bank	1716	1241616.729	380435.7656	Main River South Bank	1763	1232229	382580.9
Main River South Bank	1717	1241513.261	380364.0487	Main River South Bank	1764	1232100	382710.5
Main River South Bank	1718	1241329.195	380268.7164	Main River South Bank	1765	1232001	382847.9
Main River South Bank	1719	1241197.676	380149.5458	Main River South Bank	1766	1231899	383014.8
Main River South Bank	1720	1241034.517	380003.3165	Main River South Bank	1767	1231811	383180.9
Main River South Bank	1721	1240810.259	379831.5957	Main River South Bank	1768	1231740	383221.6
Main River South Bank	1722	1240647.531	379695.0419	Main River South Bank	1769	1231696	383263.2
Main River South Bank	1723	1240351.868	379567.386	Main River South Bank	1770	1231642	383315.2
Main River South Bank	1724	1240178.148	379490.1652	Main River South Bank	1771	1231603	383366.3
Main River South Bank	1725	1239952.482	379446.3854	Main River South Bank	1772	1231566	383409.2
Main River South Bank	1726	1239727.112	379407.0701	Main River South Bank	1773	1231516	383469.2
Main River South Bank	1727	1239510.023	379411.7249	Main River South Bank	1774	1231476	383518.7
Main River South Bank	1728	1239134.959	379417.159	Main River South Bank	1775	1231421	383570.8
Main River South Bank	1729	1238738.58	379463.7016	Main River South Bank	1776	1231349	383636.8
Main River South Bank	1730	1238343.34	379524.9385	Main River South Bank	1777	1231297	383693.7
Main River South Bank	1731	1238084.775	379567.034	Main River South Bank	1778	1231235	383761.2
Main River South Bank	1732	1237822.503	379624.2315	Main River South Bank	1779	1231026	384082.7
Main River South Bank	1733	1237532.779	379707.6025	Main River South Bank	1780	1230921	384245.7
Main River South Bank	1734	1237255.715	379825.1865	Main River South Bank	1781	1230875	384426.1
Main River South Bank	1735	1237023.462	379884.9451	Main River South Bank	1782	1230810	384536.7
Main River South Bank	1736	1236844.638	379995.9424	Main River South Bank	1783	1230799	384561.8
Main River South Bank	1737	1236584.175	380072.8981	Main River South Bank	1784	1230734	384711.9

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Main River South Bank	1785	1230600.754	385004.6718	Main River South Bank	1832	1225129	391032.4
Main River South Bank	1786	1230524.04	385165.7679	Main River South Bank	1833	1225110	391034.1
Main River South Bank	1787	1230426.198	385335.5031	Main River South Bank	1834	1224697	391068.1
Main River South Bank	1788	1230393.421	385515.6665	Main River South Bank	1835	1224320	391107.3
Main River South Bank	1789	1230275.476	385714.8594	Main River South Bank	1836	1224005	391135.4
Main River South Bank	1790	1230224.198	385824.8305	Main River South Bank	1837	1223754	391180.5
Main River South Bank	1791	1230077.694	386161.7633	Main River South Bank	1838	1223544	391215.6
Main River South Bank	1792	1229987.956	386359.8863	Main River South Bank	1839	1223418	391238.2
Main River South Bank	1793	1229896.131	386522.3046	Main River South Bank	1840	1223342	391271.7
Main River South Bank	1794	1229805.29	386705.9591	Main River South Bank	1841	1223251	391292
Main River South Bank	1795	1229721.213	386882.7406	Main River South Bank	1842	1223035	391349
Main River South Bank	1796	1229663.031	387007.719	Main River South Bank	1843	1222875	391394.9
Main River South Bank	1797	1229576.478	387141.4998	Main River South Bank	1844	1222735	391425.2
Main River South Bank	1798	1229457.963	387356.2797	Main River South Bank	1845	1222482	391463.2
Main River South Bank	1799	1229345.485	387549.1206	Main River South Bank	1846	1222270	391476.8
Main River South Bank	1800	1229277.563	387767.799	Main River South Bank	1847	1222037	391506
Main River South Bank	1801	1229161.644	388032.6783	Main River South Bank	1848	1221931	391498.5
Main River South Bank	1802	1229080.193	388266.4053	Main River South Bank	1849	1221789	391521.6
Main River South Bank	1803	1229003.449	388450.3889	Main River South Bank	1850	1221663	391571.8
Main River South Bank	1804	1228976.371	388616.8604	Main River South Bank	1851	1221565	391613.7
Main River South Bank	1805	1228885.129	388794.5661	Main River South Bank	1852	1221457	391598.8
Main River South Bank	1806	1228823.303	388977.7971	Main River South Bank	1853	1221021	391625.2
Main River South Bank	1807	1228736.881	389227.1192	Main River South Bank	1854	1220726	391628.5
Main River South Bank	1808	1228662.066	389418.3108	Main River South Bank	1855	1220509	391627
Main River South Bank	1809	1228569.861	389553.1786	Main River South Bank	1856	1220120	391670.5
Main River South Bank	1810	1228501.438	389715.2177	Main River South Bank	1857	1219955	391700.7
Main River South Bank	1811	1228395.012	389944.4601	Main River South Bank	1858	1219918	391701
Main River South Bank	1812	1228338.241	390055.5369	Main River South Bank	1859	1219781	391703.1
Main River South Bank	1813	1228287.867	390252.2954	Main River South Bank	1860	1219630	391718
Main River South Bank	1814	1228223.003	390442.6137	Main River South Bank	1861	1219430	391778.4
Main River South Bank	1815	1228151.061	390625.9647	Main River South Bank	1862	1219316	391805.3
Main River South Bank	1816	1228074.254	390831.1422	Main River South Bank	1863	1219121	391807.7
Main River South Bank	1817	1227968.87	391030.9805	Main River South Bank	1864	1218907	391853.9
Main River South Bank	1818	1227869.741	391215.7239	Main River South Bank	1865	1218715	391933.7
Main River South Bank	1819	1227788.254	391356.4923	Main River South Bank	1866	1218599	391938.8
Main River South Bank	1820	1227698.919	391490.4818	Main River South Bank	1867	1218347	391963.2
Main River South Bank	1821	1227607.754	391603.4175	Main River South Bank	1868	1218161	392041.3
Main River South Bank	1822	1227497.315	391653.5966	Main River South Bank	1869	1217988	392103.8
Main River South Bank	1823	1227330.598	391714.4834	Main River South Bank	1870	1217872	392121.2
Main River South Bank	1824	1227189.233	391730.8394	Main River South Bank	1871	1217749	392160.1
Main River South Bank	1825	1226995.853	391715.5421	Main River South Bank	1872	1217514	392260.5
Main River South Bank	1826	1226856.841	391660.2498	Main River South Bank	1873	1217332	392360.3
Main River South Bank	1827	1226622.513	391554.4394	Main River South Bank	1874	1217179	392467.7
Main River South Bank	1828	1226427.196	391488.8568	Main River South Bank	1875	1217106	392539.8
Main River South Bank	1829	1226101.68	391360.7137	Main River South Bank	1876	1217057	392589
Main River South Bank	1830	1225748.43	391212.4267	Main River South Bank	1877	1216738	392758.3
Main River South Bank	1831	1225357.159	391102.7419	Main River South Bank	1878	1216555	392901.8

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Main River South Bank	1879	1216387.831	393075.9394	Main River South Bank	1926	1213957	400388.2
Main River South Bank	1880	1216267.887	393211.3807	Main River South Bank	1927	1213914	400491.8
Main River South Bank	1881	1216116.045	393404.6924	Main River South Bank	1928	1213928	400693.4
Main River South Bank	1882	1216003.562	393543.3738	Main River South Bank	1929	1213926	400881.3
Main River South Bank	1883	1215981.536	393566.7583	Main River South Bank	1930	1213909	401048.8
Main River South Bank	1884	1215869.925	393684.8059	Main River South Bank	1931	1213975	401282.8
Main River South Bank	1885	1215745.912	393886.4778	Main River South Bank	1932	1214039	401488.4
Main River South Bank	1886	1215610.756	394003.821	Main River South Bank	1933	1214121	401634.2
Main River South Bank	1887	1215460.955	394107.759	Main River South Bank	1934	1214268	401788.6
Main River South Bank	1888	1215345.307	394193.1084	Main River South Bank	1935	1214435	401920.2
Main River South Bank	1889	1215138.79	394303.7131	Main River South Bank	1936	1214630	402142.4
Main River South Bank	1890	1214986.788	394399.7544	Main River South Bank	1937	1214787	402238.5
Main River South Bank	1891	1214736.494	394555.4148	Main River South Bank	1938	1214885	402303.2
Main River South Bank	1892	1214598.111	394662.2623	Main River South Bank	1939	1214965	402426.3
Main River South Bank	1893	1214503.325	394771.6855	Main River South Bank	1940	1215258	402714.1
Main River South Bank	1894	1214375.56	394934.8089	Main River South Bank	1941	1215445	402823.2
Main River South Bank	1895	1214288.381	395050.8817	Main River South Bank	1942	1215590	402949.8
Main River South Bank	1896	1214201.569	395174.219	Main River South Bank	1943	1215809	403107.2
Main River South Bank	1897	1214072.132	395449.948	Main River South Bank	1944	1215982	403217.7
Main River South Bank	1898	1214005.189	395549.2711	Main River South Bank	1945	1216154	403321.3
Main River South Bank	1899	1213945.839	395661.3085	Main River South Bank	1946	1216269	403421.5
Main River South Bank	1900	1213881.358	395834.6504	Main River South Bank	1947	1216443	403539.2
Main River South Bank	1901	1213838.916	396009.1776	Main River South Bank	1948	1216645	403662.4
Main River South Bank	1902	1213788.832	396156.3656	Main River South Bank	1949	1216825	403772.8
Main River South Bank	1903	1213737.68	396378.7754	Main River South Bank	1950	1216992	403898.7
Main River South Bank	1904	1213659.879	396510.7577	Main River South Bank	1951	1217128	403990.3
Main River South Bank	1905	1213667.647	396612.0516	Main River South Bank	1952	1217315	404107.9
Main River South Bank	1906	1213635.403	396759.2219	Main River South Bank	1953	1217442	404178.7
Main River South Bank	1907	1213629.3	396965.363	Main River South Bank	1954	1217601	404283.5
Main River South Bank	1908	1213631.174	397185.2908	Main River South Bank	1955	1217722	404376.7
Main River South Bank	1909	1213623.656	397379.2091	Main River South Bank	1956	1217851	404476.6
Main River South Bank	1910	1213624.445	397593.5769	Main River South Bank	1957	1218043	404637.5
Main River South Bank	1911	1213671.824	397763.9155	Main River South Bank	1958	1218125	404690
Main River South Bank	1912	1213683.052	397930.5857	Main River South Bank	1959	1218237	404747.6
Main River South Bank	1913	1213686.011	398189.7098	Main River South Bank	1960	1218368	404876.5
Main River South Bank	1914	1213690.443	398364.634	Main River South Bank	1961	1218503	404954.2
Main River South Bank	1915	1213717.451	398560.0421	Main River South Bank	1962	1218693	405093.9
Main River South Bank	1916	1213770.624	398825.8781	Main River South Bank	1963	1218871	405176.2
Main River South Bank	1917	1213813.903	398937.9279	Main River South Bank	1964	1219050	405273.1
Main River South Bank	1918	1213884.043	399135.5401	Main River South Bank	1965	1219151	405375.2
Main River South Bank	1919	1213920.299	399291.3574	Main River South Bank	1966	1219295	405489.1
Main River South Bank	1920	1213933.517	399348.1986	Main River South Bank	1967	1219425	405589.5
Main River South Bank	1921	1213975.754	399561.3846	Main River South Bank	1968	1219540	405698.3
Main River South Bank	1922	1213999.122	399703.6737	Main River South Bank	1969	1219721	405824.4
Main River South Bank	1923	1214025.739	399896.3403	Main River South Bank	1970	1219857	405917
Main River South Bank	1924	1214061.101	400002.3013	Main River South Bank	1971	1219977	405989
Main River South Bank	1925	1214021.204	400269.9174	Main River South Bank	1972	1220121	406096

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Main River South Bank	1973	1220251.811	406217.9492	Main River South Bank	2020	1220270	410473
Main River South Bank	1974	1220390.611	406353.8357	Main River South Bank	2021	1219978	410405.3
Main River South Bank	1975	1220515.159	406490.8511	Main River South Bank	2022	1219827	410414.8
Main River South Bank	1976	1220699.071	406658.9614	Main River South Bank	2023	1219642	410433.5
Main River South Bank	1977	1220881.451	406805.6822	Main River South Bank	2024	1219528	410462.1
Main River South Bank	1978	1221034.437	406939.2507	Main River South Bank	2025	1219379	410493.4
Main River South Bank	1979	1221201.84	407071.8751	Main River South Bank	2026	1219285	410484.7
Main River South Bank	1980	1221361.552	407198.5332	Main River South Bank	2027	1219126	410581.6
Main River South Bank	1981	1221454.99	407300.5719	Main River South Bank	2028	1218939	410585.6
Main River South Bank	1982	1221615.588	407448.0831	Main River South Bank	2029	1218781	410588.3
Main River South Bank	1983	1221866.121	407659.7183	Main River South Bank	2030	1218616	410598.3
Main River South Bank	1984	1222109.419	407858.4161	Main River South Bank	2031	1218423	410602.7
Main River South Bank	1985	1222273.445	408021.569	Main River South Bank	2032	1218304	410653.6
Main River South Bank	1986	1222376.921	408138.381	Main River South Bank	2033	1218141	410692.8
Main River South Bank	1987	1222520.703	408376.694	Main River South Bank	2034	1217992	410738
Main River South Bank	1988	1222676.341	408578.7087	Main River South Bank	2035	1217838	410805.8
Main River South Bank	1989	1222821.336	408737.818	Main River South Bank	2036	1217709	410922.7
Main River South Bank	1990	1222954.053	408919.2783	Main River South Bank	2037	1217670	410960.4
Main River South Bank	1991	1223021.933	409031.0572	Main River South Bank	2038	1217573	411054.6
Main River South Bank	1992	1223074.469	409136.4062	Main River South Bank	2039	1217391	411145.7
Main River South Bank	1993	1223158.936	409283.4853	Main River South Bank	2040	1217235	411177.2
Main River South Bank	1994	1223278.635	409428.5368	Main River South Bank	2041	1217105	411163.8
Main River South Bank	1995	1223381.926	409552.2996	Main River South Bank	2042	1216893	411111.9
Main River South Bank	1996	1223508.404	409703.6917	Main River South Bank	2043	1216784	411089.8
Main River South Bank	1997	1223620.141	409855.3659	Main River South Bank	2044	1216636	411056.4
Main River South Bank	1998	1223646.927	410026.4213	Main River South Bank	2045	1216558	411038.8
Main River South Bank	1999	1223663.393	410255.5759	Main River South Bank	2046	1216369	410999.7
Main River South Bank	2000	1223655.604	410450.46	Main River South Bank	2047	1216161	411020.4
Main River South Bank	2001	1223609.252	410611.8495	Main River South Bank	2048	1215983	411038.9
Main River South Bank	2002	1223510.519	410748.1608	Main River South Bank	2049	1215819	411071.5
Main River South Bank	2003	1223415.817	410841.5706	Main River South Bank	2050	1215652	411169.2
Main River South Bank	2004	1223254.81	410918.0522	Main River South Bank	2051	1215522	411279.6
Main River South Bank	2005	1223073.46	411018.3101	Main River South Bank	2052	1215344	411443.8
Main River South Bank	2006	1222917.04	411058.8072	Main River South Bank	2053	1215249	411537
Main River South Bank	2007	1222760.544	411099.4066	Main River South Bank	2054	1214945	411767.8
Main River South Bank	2008	1222552.15	411121.9351	Main River South Bank	2055	1214850	411868.5
Main River South Bank	2009	1222305.015	411104.2707	Main River South Bank	2056	1214707	411994.1
Main River South Bank	2010	1222109.116	411097.0211	Main River South Bank	2057	1214563	412127.2
Main River South Bank	2011	1221872.329	411013.5959	Main River South Bank	2058	1214447	412236.9
Main River South Bank	2012	1221586.723	410962.8596	Main River South Bank	2059	1214330	412339.1
Main River South Bank	2013	1221430.821	410902.3505	Main River South Bank	2060	1214222	412455.4
Main River South Bank	2014	1221260.938	410850.4997	Main River South Bank	2061	1214125	412527.3
Main River South Bank	2015	1221128.539	410817.2701	Main River South Bank	2062	1214022	412621.6
Main River South Bank	2016	1220997.954	410812.7635	Main River South Bank	2063	1213934	412722
Main River South Bank	2017	1220805.581	410740.3078	Main River South Bank	2064	1213829	412889
Main River South Bank	2018	1220694.199	410690.2235	Main River South Bank	2065	1213707	413047.5
Main River South Bank	2019	1220553.249	410627.5011	Main River South Bank	2066	1213625	413205

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Main River South Bank	2067	1213432.659	413434.3232	Main River South Bank	2114	1208439	420252
Main River South Bank	2068	1213287.672	413609.485	Main River South Bank	2115	1208398	420353.3
Main River South Bank	2069	1213182.864	413763.213	Main River South Bank	2116	1208374	420423.8
Main River South Bank	2070	1213042.587	414045.563	Main River South Bank	2117	1208376	420559.6
Main River South Bank	2071	1212923.303	414215.6936	Main River South Bank	2118	1208377	420686.9
Main River South Bank	2072	1212758.003	414493.4243	Main River South Bank	2119	1208382	421016.1
Main River South Bank	2073	1212606.262	414748.0722	Main River South Bank	2120	1208389	421312.6
Main River South Bank	2074	1212521.279	414975.9702	Main River South Bank	2121	1208424	421481.6
Main River South Bank	2075	1212461.397	415131.7566	Main River South Bank	2122	1208495	421647.6
Main River South Bank	2076	1212392.584	415308.15	Main River South Bank	2123	1208558	421771.4
Main River South Bank	2077	1212250.467	415468.7556	Main River South Bank	2124	1208680	422014
Main River South Bank	2078	1212102.446	415690.5794	Main River South Bank	2125	1208750	422156.2
Main River South Bank	2079	1211972.861	415882.9856	Main River South Bank	2126	1208854	422266.5
Main River South Bank	2080	1211833.781	416089.1736	Main River South Bank	2127	1208947	422368.2
Main River South Bank	2081	1211703.431	416275.1395	Main River South Bank	2128	1209036	422480.1
Main River South Bank	2082	1211562.245	416487.6533	Main River South Bank	2129	1209097	422565.4
Main River South Bank	2083	1211527.229	416540.7894	Main River South Bank	2130	1209142	422685.6
Main River South Bank	2084	1211385.007	416711.6598	Main River South Bank	2131	1209163	422831.3
Main River South Bank	2085	1211252.924	416884.5801	Main River South Bank	2132	1209174	422968.8
Main River South Bank	2086	1211112.714	417089.6611	Main River South Bank	2133	1209198	423143
Main River South Bank	2087	1210991.882	417298.2586	Main River South Bank	2134	1209197	423314.3
Main River South Bank	2088	1210850.761	417514.2474	Main River South Bank	2135	1209172	423430.7
Main River South Bank	2089	1210736.726	417675.0962	Main River South Bank	2136	1209190	423633.7
Main River South Bank	2090	1210662.24	417811.8645	Main River South Bank	2137	1209240	423753
Main River South Bank	2091	1210568.574	417979.3714	Main River South Bank	2138	1209286	423877.3
Main River South Bank	2092	1210503.565	418114.7363	Main River South Bank	2139	1209308	424055.9
Main River South Bank	2093	1210365.209	418275.0417	Main River South Bank	2140	1209307	424160.5
Main River South Bank	2094	1210306.58	418380.3134	Main River South Bank	2141	1209359	424289.1
Main River South Bank	2095	1210258.269	418471.7077	Main River South Bank	2142	1209419	424393.6
Main River South Bank	2096	1210174.368	418557.4557	Main River South Bank	2143	1209586	424631.3
Main River South Bank	2097	1210069.337	418692.2487	Main River South Bank	2144	1209646	424735.5
Main River South Bank	2098	1209941.428	418817.4968	Main River South Bank	2145	1209743	424865.5
Main River South Bank	2099	1209873.004	418887.1451	Main River South Bank	2146	1209866	425011.8
Main River South Bank	2100	1209747.464	418961.8196	Main River South Bank	2147	1209965	425108.4
Main River South Bank	2101	1209595.193	419039.2566	Main River South Bank	2148	1210012	425185.3
Main River South Bank	2102	1209481.909	419109.5535	Main River South Bank	2149	1210146	425293.2
Main River South Bank	2103	1209372.662	419171.2779	Main River South Bank	2150	1210260	425402.4
Main River South Bank	2104	1209268.008	419241.128	Main River South Bank	2151	1210376	425487.8
Main River South Bank	2105	1209176.853	419326.7317	Main River South Bank	2152	1210455	425533.5
Main River South Bank	2106	1209107.681	419397.6263	Main River South Bank	2153	1210605	425563.3
Main River South Bank	2107	1209051.694	419463.0643	Main River South Bank	2154	1210661	425586.9
Main River South Bank	2108	1208991.958	419550.316	Main River South Bank	2155	1210752	425607.2
Main River South Bank	2109	1208940.076	419593.7986	Main River South Bank	2156	1210856	425621.7
Main River South Bank	2110	1208837.283	419714.7153	Main River South Bank	2157	1210903	425602.9
Main River South Bank	2111	1208692.002	419886.7878	Main River South Bank	2158	1210908	425545.5
Main River South Bank	2112	1208607.15	420001.5112	Main River South Bank	2159	1210882	425481
Main River South Bank	2113	1208509.773	420134.3678	Main River South Bank	2160	1210816	425401.1

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Main River South Bank	2161	1210741.114	425331.8189	Main River South Bank	2208	1211695	424667.4
Main River South Bank	2162	1210673.824	425242.4003	Main River South Bank	2209	1211795	424758.2
Main River South Bank	2163	1210593.619	425173.5302	Main River South Bank	2210	1211881	424850.7
Main River South Bank	2164	1210534.183	425116.8212	Main River South Bank	2211	1211919	424966.1
Main River South Bank	2165	1210306.359	425003.3471	Main River South Bank	2212	1211935	425164.2
Main River South Bank	2166	1210182.433	424947.148	Main River South Bank	2213	1211944	425334.8
Main River South Bank	2167	1210041.337	424868.8268	Main River South Bank	2214	1211938	425491.9
Main River South Bank	2168	1209951.495	424810.0377	Main River South Bank	2215	1211967	425674.2
Main River South Bank	2169	1209865.021	424788.4754	Main River South Bank	2216	1211974	425811.2
Main River South Bank	2170	1209829.309	424725.1037	Main River South Bank	2217	1211971	426138
Main River South Bank	2171	1209741.449	424637.2766	Main River South Bank	2218	1211957	426257.5
Main River South Bank	2172	1209665.194	424567.856	Main River South Bank	2219	1211919	426379.7
Main River South Bank	2173	1209597.876	424487.8107	Main River South Bank	2220	1211881	426501.4
Main River South Bank	2174	1209551.752	424368.1145	Main River South Bank	2221	1211862	426630.5
Main River South Bank	2175	1209521.405	424256.5883	Main River South Bank	2222	1211822	426724.6
Main River South Bank	2176	1209522.581	424161.3448	Main River South Bank	2223	1211820	426823.7
Main River South Bank	2177	1209596.68	424041.2933	Main River South Bank	2224	1211746	426967.8
Main River South Bank	2178	1209709.467	423960.1985	Main River South Bank	2225	1211679	427087.8
Main River South Bank	2179	1209798.344	423947.4564	Main River South Bank	2226	1211622	427202
Main River South Bank	2180	1209901.667	423928.8274	Main River South Bank	2227	1211563	427307.3
Main River South Bank	2181	1209939.633	423849.063	Main River South Bank	2228	1211496	427413.2
Main River South Bank	2182	1209940.162	423739.5902	Main River South Bank	2229	1211442	427508.3
Main River South Bank	2183	1209866.617	423641.3317	Main River South Bank	2230	1211291	427637.4
Main River South Bank	2184	1209767.474	423535.8507	Main River South Bank	2231	1211235	427648.3
Main River South Bank	2185	1209630.39	423395.6759	Main River South Bank	2232	1211124	427688.3
Main River South Bank	2186	1209537.127	423299.4324	Main River South Bank	2233	1210895	427735.6
Main River South Bank	2187	1209454.216	423206.3527	Main River South Bank	2234	1210734	427756.9
Main River South Bank	2188	1209399.015	423082.7254	Main River South Bank	2235	1210625	427715.1
Main River South Bank	2189	1209371.076	422985.1874	Main River South Bank	2236	1210495	427621.9
Main River South Bank	2190	1209338.678	422892.5574	Main River South Bank	2237	1210317	427446.9
Main River South Bank	2191	1209381.01	422855.3855	Main River South Bank	2238	1210154	427231.8
Main River South Bank	2192	1209466.718	422924.3284	Main River South Bank	2239	1210085	427042.3
Main River South Bank	2193	1209570.739	423034.1624	Main River South Bank	2240	1209984	426784
Main River South Bank	2194	1209674.864	423143.9059	Main River South Bank	2241	1209928	426622.1
Main River South Bank	2195	1209767.559	423236.0046	Main River South Bank	2242	1209859	426484.9
Main River South Bank	2196	1209870.945	423336.1631	Main River South Bank	2243	1209744	426270.8
Main River South Bank	2197	1209934.658	423439.8563	Main River South Bank	2244	1209609	426015.5
Main River South Bank	2198	1210103.929	423548.3662	Main River South Bank	2245	1209515	425781
Main River South Bank	2199	1210265.177	423624.1306	Main River South Bank	2246	1209364	425508.3
Main River South Bank	2200	1210396.786	423707.5587	Main River South Bank	2247	1209301	425422.8
Main River South Bank	2201	1210527.69	423786.0906	Main River South Bank	2248	1209185	425266.1
Main River South Bank	2202	1210637.848	423857.024	Main River South Bank	2249	1209047	425082.6
Main River South Bank	2203	1210915.526	424041.7113	Main River South Bank	2250	1208731	424714
Main River South Bank	2204	1211014.897	424109.1683	Main River South Bank	2251	1208601	424567.4
Main River South Bank	2205	1211255.062	424273.04	Main River South Bank	2252	1208372	424324.1
Main River South Bank	2206	1211403.024	424398.2133	Main River South Bank	2253	1208326	424209.5
Main River South Bank	2207	1211563.621	424560.2891	Main River South Bank	2254	1208209	424043

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Main River South Bank	2255	1208075.453	423854.377	Main River South Bank	2302	1199699	420282.4
Main River South Bank	2256	1207817.989	423527.9587	Main River South Bank	2303	1199628	420330.3
Main River South Bank	2257	1207626.477	423366.7864	Main River South Bank	2304	1199523	420390.3
Main River South Bank	2258	1207454.677	423256.1618	Main River South Bank	2305	1199390	420414.4
Main River South Bank	2259	1207266.732	423137.1473	Main River South Bank	2306	1199258	420546.7
Main River South Bank	2260	1207089.988	423031.6372	Main River South Bank	2307	1199061	420712.9
Main River South Bank	2261	1206828.269	422775.9505	Main River South Bank	2308	1198880	420887.2
Main River South Bank	2262	1206765.532	422699.6378	Main River South Bank	2309	1198783	421036.1
Main River South Bank	2263	1206393.256	422343.0797	Main River South Bank	2310	1198668	421268.4
Main River South Bank	2264	1206261.643	422172.7028	Main River South Bank	2311	1198566	421396.1
Main River South Bank	2265	1206089.356	422000.2077	Main River South Bank	2312	1198461	421494.4
Main River South Bank	2266	1205916.248	421808.7294	Main River South Bank	2313	1198334	421626.4
Main River South Bank	2267	1205720.098	421561.4338	Main River South Bank	2314	1198155	421831.5
Main River South Bank	2268	1205542.783	421327.0525	Main River South Bank	2315	1198032	421941.2
Main River South Bank	2269	1205438.059	421172.1503	Main River South Bank	2316	1197907	422049.2
Main River South Bank	2270	1205296.476	420958.0069	Main River South Bank	2317	1197760	422180.5
Main River South Bank	2271	1205270.794	420842.2467	Main River South Bank	2318	1197623	422270.6
Main River South Bank	2272	1205131.613	420714.274	Main River South Bank	2319	1197453	422360
Main River South Bank	2273	1205014.837	420539.1309	Main River South Bank	2320	1197216	422514.1
Main River South Bank	2274	1204860.185	420357.8134	Main River South Bank	2321	1197028	422602.5
Main River South Bank	2275	1204709.254	420190.1529	Main River South Bank	2322	1196810	422722.7
Main River South Bank	2276	1204476.26	420002.9958	Main River South Bank	2323	1196620	422802.8
Main River South Bank	2277	1204240.566	419851.9758	Main River South Bank	2324	1196494	422866.5
Main River South Bank	2278	1204034.612	419759.6368	Main River South Bank	2325	1196352	422938.4
Main River South Bank	2279	1203700.523	419662.5949	Main River South Bank	2326	1196226	423010.1
Main River South Bank	2280	1203532.056	419588.9751	Main River South Bank	2327	1196063	423057.7
Main River South Bank	2281	1203384.974	419568.0866	Main River South Bank	2328	1195912	423136.7
Main River South Bank	2282	1203188.654	419540.2018	Main River South Bank	2329	1195745	423231.4
Main River South Bank	2283	1202963.987	419495.4889	Main River South Bank	2330	1195488	423356.8
Main River South Bank	2284	1202555.359	419410.3619	Main River South Bank	2331	1195362	423435
Main River South Bank	2285	1202221.803	419376.2051	Main River South Bank	2332	1195170	423544
Main River South Bank	2286	1201982.161	419373.0197	Main River South Bank	2333	1194986	423644.2
Main River South Bank	2287	1201659.581	419359.691	Main River South Bank	2334	1194793	423751.5
Main River South Bank	2288	1201445.494	419431.9508	Main River South Bank	2335	1194613	423826.3
Main River South Bank	2289	1201323.36	419482.8222	Main River South Bank	2336	1194333	423944.3
Main River South Bank	2290	1201097.329	419545.0568	Main River South Bank	2337	1194095	424062.2
Main River South Bank	2291	1201056.422	419570.0998	Main River South Bank	2338	1193797	424108.7
Main River South Bank	2292	1201013.577	419596.3019	Main River South Bank	2339	1193613	424154.9
Main River South Bank	2293	1200840.258	419682.6355	Main River South Bank	2340	1193408	424168.1
Main River South Bank	2294	1200711.744	419778.0125	Main River South Bank	2341	1193230	424184.5
Main River South Bank	2295	1200548.271	419856.1044	Main River South Bank	2342	1193091	424212.8
Main River South Bank	2296	1200445.225	419889.7071	Main River South Bank	2343	1192963	424272.6
Main River South Bank	2297	1200334.506	419953.458	Main River South Bank	2344	1192762	424369.6
Main River South Bank	2298	1200203.065	420000.2205	Main River South Bank	2345	1192638	424426.5
Main River South Bank	2299	1200094.08	420024.5204	Main River South Bank	2346	1192495	424473.6
Main River South Bank	2300	1199963.579	420070.0282	Main River South Bank	2347	1192347	424457.9
Main River South Bank	2301	1199833.851	420176.8688	Main River South Bank	2348	1192124	424412.9

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Main River South Bank	2349	1191949.246	424374.1116	Main River South Bank	2396	1183270	420461.7
Main River South Bank	2350	1191715.279	424304.5896	Main River South Bank	2397	1183235	420465.8
Main River South Bank	2351	1191495.129	424240.1952	Main River South Bank	2398	1183256	420337.5
Main River South Bank	2352	1191381.717	424197.6191	Main River South Bank	2399	1183289	420258.1
Main River South Bank	2353	1191322.168	424117.1605	Main River South Bank	2400	1183167	420291.1
Main River South Bank	2354	1191240.632	423996.2208	Main River South Bank	2401	1183067	420322.5
Main River South Bank	2355	1191109.127	423824.5082	Main River South Bank	2402	1182939	420373.5
Main River South Bank	2356	1190990.906	423714.5725	Main River South Bank	2403	1182796	420251.9
Main River South Bank	2357	1190877.294	423594.8022	Main River South Bank	2404	1182612	420061.1
Main River South Bank	2358	1190762.478	423481.0873	Main River South Bank	2405	1182421	419883.7
Main River South Bank	2359	1190637.269	423321.9485	Main River South Bank	2406	1182236	419674.1
Main River South Bank	2360	1190506.18	423208.4114	Main River South Bank	2407	1182098	419455.4
Main River South Bank	2361	1190403.408	423118.9757	Main River South Bank	2408	1181949	419298.7
Main River South Bank	2362	1190240.659	422977.1326	Main River South Bank	2409	1181837	419227.8
Main River South Bank	2363	1190078.929	422872.0286	Main River South Bank	2410	1181663	419084.8
Main River South Bank	2364	1189921.16	422843.17	Main River South Bank	2411	1181467	418838
Main River South Bank	2365	1189748.156	422807.3448	Main River South Bank	2412	1181317	418577.3
Main River South Bank	2366	1189526.718	422794.6093	Main River South Bank	2413	1181090	418179.4
Main River South Bank	2367	1189296.769	422766.4262	Main River South Bank	2414	1180917	417848.7
Main River South Bank	2368	1188974.164	422736.2966	Main River South Bank	2415	1180901	417829.3
Main River South Bank	2369	1188781.874	422726.3878	Main River South Bank	2416	1180748	417648.4
Main River South Bank	2370	1188593.675	422673.8711	Main River South Bank	2417	1180556	417476.1
Main River South Bank	2371	1188326.718	422598.1811	Main River South Bank	2418	1180386	417295.2
Main River South Bank	2372	1188172.939	422541.5105	Main River South Bank	2419	1180251	417160.3
Main River South Bank	2373	1187984.498	422487.6775	Main River South Bank	2420	1180001	416899.6
Main River South Bank	2374	1187839.928	422451.2435	Main River South Bank	2421	1179883	416766.8
Main River South Bank	2375	1187688.894	422421.4541	Main River South Bank	2422	1179784	416602.5
Main River South Bank	2376	1187520.295	422371.9364	Main River South Bank	2423	1179684	416374
Main River South Bank	2377	1187344.517	422336.7471	Main River South Bank	2424	1179578	416229.6
Main River South Bank	2378	1187119.39	422271.5148	Main River South Bank	2425	1179495	416004.6
Main River South Bank	2379	1186867.685	422200.4902	Main River South Bank	2426	1179444	415721.1
Main River South Bank	2380	1186655.686	422093.5279	Main River South Bank	2427	1179433	415550.9
Main River South Bank	2381	1186429.019	422008.3373	Main River South Bank	2428	1179447	415320.3
Main River South Bank	2382	1186091.026	421898.9577	Main River South Bank	2429	1179471	415140.3
Main River South Bank	2383	1185821.425	421808.0446	Main River South Bank	2430	1179493	414934.7
Main River South Bank	2384	1185715.111	421759.2238	Main River South Bank	2431	1179474	414653.9
Main River South Bank	2385	1185548.616	421686.0322	Main River South Bank	2432	1179452	414446.9
Main River South Bank	2386	1185333.692	421563.9321	Main River South Bank	2433	1179436	414272.9
Main River South Bank	2387	1185076.02	421459.5161	Main River South Bank	2434	1179434	414076.1
Main River South Bank	2388	1184840.849	421367.4502	Main River South Bank	2435	1179447	413726.4
Main River South Bank	2389	1184661.017	421296.3836	Main River South Bank	2436	1179439	413530
Main River South Bank	2390	1184403.404	421191.6342	Main River South Bank	2437	1179559	413337.6
Main River South Bank	2391	1184110.592	421134.1411	Main River South Bank	2438	1179683	413018.7
Main River South Bank	2392	1183831.236	420940.7901	Main River South Bank	2439	1179570	412701.8
Main River South Bank	2393	1183576.623	420632.6024	Main River South Bank	2440	1179609	412666
Main River South Bank	2394	1183500.032	420522.4518	Main River South Bank	2441	1179880	412493.5
Main River South Bank	2395	1183343.643	420539.8757	Main River South Bank	2442	1180003	412424.9

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Main River South Bank	2443	1180111.069	412364.714	Main River South Bank	2490	1183455	406819.4
Main River South Bank	2444	1180214.842	412266.9249	Main River South Bank	2491	1183552	406634.8
Main River South Bank	2445	1180301.297	412185.151	Main River South Bank	2492	1183652	406424.7
Main River South Bank	2446	1180408.414	412018.7087	Main River South Bank	2493	1183702	406310.8
Main River South Bank	2447	1180448.017	411890.34	Main River South Bank	2494	1183790	406155.5
Main River South Bank	2448	1180486.828	411803.548	Main River South Bank	2495	1183831	406056.8
Main River South Bank	2449	1180553.673	411655.566	Main River South Bank	2496	1183909	405857.2
Main River South Bank	2450	1180621.491	411497.712	Main River South Bank	2497	1183993	405676.1
Main River South Bank	2451	1180660.194	411370.0407	Main River South Bank	2498	1184023	405546.2
Main River South Bank	2452	1180691.844	411260.8117	Main River South Bank	2499	1184065	405413.8
Main River South Bank	2453	1180717.373	411173.6733	Main River South Bank	2500	1184091	405259.8
Main River South Bank	2454	1180765.88	410966.3741	Main River South Bank	2501	1184094	405161
Main River South Bank	2455	1180816.09	410801.6031	Main River South Bank	2502	1184065	404989.8
Main River South Bank	2456	1180818.061	410619.4361	Main River South Bank	2503	1184061	404829.2
Main River South Bank	2457	1180844.003	410461.419	Main River South Bank	2504	1184092	404732.9
Main River South Bank	2458	1180866.74	410312.1142	Main River South Bank	2505	1184127	404577
Main River South Bank	2459	1180814.752	410171.0306	Main River South Bank	2506	1184105	404411
Main River South Bank	2460	1180794.224	410001.5535	Main River South Bank	2507	1184096	404228.1
Main River South Bank	2461	1180766.35	409847.6218	Main River South Bank	2508	1184106	404116
Main River South Bank	2462	1180754.437	409720.2639	Main River South Bank	2509	1184083	403916.3
Main River South Bank	2463	1180735.722	409547.8898	Main River South Bank	2510	1184050	403750.5
Main River South Bank	2464	1180740.138	409398.5184	Main River South Bank	2511	1184042	403618.1
Main River South Bank	2465	1180720.107	409264.1057	Main River South Bank	2512	1184015	403521.4
Main River South Bank	2466	1180731.317	409163.2081	Main River South Bank	2513	1184000	403406.5
Main River South Bank	2467	1180753.183	409058.5545	Main River South Bank	2514	1183969	403315.1
Main River South Bank	2468	1180794.053	408912.4791	Main River South Bank	2515	1183948	403208.7
Main River South Bank	2469	1180866.213	408796.5125	Main River South Bank	2516	1183928	403074
Main River South Bank	2470	1180913.672	408691.7694	Main River South Bank	2517	1183895	402961.1
Main River South Bank	2471	1180949.693	408632.1592	Main River South Bank	2518	1183892	402851.7
Main River South Bank	2472	1181008.958	408538.6398	Main River South Bank	2519	1183868	402764.4
Main River South Bank	2473	1181061.456	408452.5959	Main River South Bank	2520	1183865	402687.7
Main River South Bank	2474	1181130.776	408344.2773	Main River South Bank	2521	1183848	402640.7
Main River South Bank	2475	1181260.418	408154.3196	Main River South Bank	2522	1183838	402591.7
Main River South Bank	2476	1181359.243	408046.5552	Main River South Bank	2523	1183804	402440.3
Main River South Bank	2477	1181500.876	407867.9656	Main River South Bank	2524	1183788	402363.8
Main River South Bank	2478	1181597.746	407786.8193	Main River South Bank	2525	1183763	402280.5
Main River South Bank	2479	1181751.514	407628.2885	Main River South Bank	2526	1183732	402197.7
Main River South Bank	2480	1181866.478	407548.4053	Main River South Bank	2527	1183708	402091.3
Main River South Bank	2481	1182019.085	407436.5703	Main River South Bank	2528	1183679	402027.3
Main River South Bank	2482	1182112.546	407368.422	Main River South Bank	2529	1183642	401955.3
Main River South Bank	2483	1182244.86	407296.0903	Main River South Bank	2530	1183609	401887.3
Main River South Bank	2484	1182418.323	407217.1005	Main River South Bank	2531	1183564	401845.5
Main River South Bank	2485	1182651.723	407146.3479	Main River South Bank	2532	1183530	401792.7
Main River South Bank	2486	1182771.171	407061.4233	Main River South Bank	2533	1183488	401735.6
Main River South Bank	2487	1182808.68	407051.5939	Main River South Bank	2534	1183453	401676.4
Main River South Bank	2488	1182818.18	407050.5073	Main River South Bank	2535	1183421	401621.6
Main River South Bank	2489	1183150.388	406849.4489	Main River South Bank	2536	1183351	401507.2

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Main River South Bank	2537	1183291.404	401433.7193	Main River North Bank	37	1461332	373634.1
Main River South Bank	2538	1183202.472	401328.5106	Main River North Bank	38	1461065	373718.9
Main River South Bank	2539	1183140.514	401251.0506	Main River North Bank	39	1460854	373786.8
Main River South Bank	2540	1183071.571	401164.6776	Main River North Bank	40	1460680	373896.4
Main River South Bank	2541	1182995.744	401108.4949	Main River North Bank	41	1460372	374035.4
Main River South Bank	2542	1182931.554	401033.2055	Main River North Bank	42	1460119	374114.6
Main River South Bank	2543	1182850.786	400966.5949	Main River North Bank	43	1459904	374234.2
Main River South Bank	2544	1182805.596	400925.0218	Main River North Bank	44	1459734	374387
Main River South Bank	2545	1182748.93	400853.6435	Main River North Bank	45	1459570	374532.6
Main River South Bank	2546	1182689.755	400799.7996	Main River North Bank	46	1459449	374596.5
Main River North Bank	0	1467054.598	371401.1948	Main River North Bank	47	1459283	374641.1
Main River North Bank	1	1467032.694	371429.848	Main River North Bank	48	1459127	374727.6
Main River North Bank	2	1466879.443	371580.8788	Main River North Bank	49	1459036	374825.5
Main River North Bank	3	1466733.24	371724.2381	Main River North Bank	50	1459011	374903.6
Main River North Bank	4	1466536.453	371863.845	Main River North Bank	51	1458943	374950.8
Main River North Bank	5	1466431.703	371955.0573	Main River North Bank	52	1458827	375030.6
Main River North Bank	6	1466206.796	372110.5622	Main River North Bank	53	1458710	375075.6
Main River North Bank	7	1466086.614	372174.8365	Main River North Bank	54	1458515	375218.8
Main River North Bank	8	1465953.182	372267.8119	Main River North Bank	55	1458299	375388.5
Main River North Bank	9	1465846.306	372302.6039	Main River North Bank	56	1458217	375453.5
Main River North Bank	10	1465748.61	372386.5534	Main River North Bank	57	1458097	375549.1
Main River North Bank	11	1465586.44	372481.7171	Main River North Bank	58	1457893	375778.4
Main River North Bank	12	1465256.086	372651.8982	Main River North Bank	59	1457726	375967.4
Main River North Bank	13	1465211.704	372674.7614	Main River North Bank	60	1457584	376198.9
Main River North Bank	14	1465006.579	372779.4487	Main River North Bank	61	1457476	376424
Main River North Bank	15	1464807.063	372848.2076	Main River North Bank	62	1457399	376644
Main River North Bank	16	1464658	372913.8719	Main River North Bank	63	1457315	376915.6
Main River North Bank	17	1464474.662	373024.4464	Main River North Bank	64	1457227	377187.8
Main River North Bank	18	1464317.948	373083.6551	Main River North Bank	65	1457152	377342.8
Main River North Bank	19	1464203.318	373111.9999	Main River North Bank	66	1457111	377504.3
Main River North Bank	20	1464104.662	373174.5393	Main River North Bank	67	1457118	377746.4
Main River North Bank	21	1464005.357	373222.9569	Main River North Bank	68	1457165	377891.7
Main River North Bank	22	1463965.676	373147.3037	Main River North Bank	69	1457257	377987.5
Main River North Bank	23	1463937.452	373007.0215	Main River North Bank	70	1457376	378095.1
Main River North Bank	24	1463778.291	373016.5652	Main River North Bank	71	1457487	378228.7
Main River North Bank	25	1463616.611	373125.802	Main River North Bank	72	1457554	378318.2
Main River North Bank	26	1463494.403	373147.3368	Main River North Bank	73	1457571	378342.3
Main River North Bank	27	1463279.998	373210.0707	Main River North Bank	74	1457632	378417.4
Main River North Bank	28	1463022.1	373268.2653	Main River North Bank	75	1457649	378511.9
Main River North Bank	29	1462746.688	373349.1045	Main River North Bank	76	1457666	378676
Main River North Bank	30	1462573.749	373402.7656	Main River North Bank	77	1457659	378806.1
Main River North Bank	31	1462422.494	373419.6541	Main River North Bank	78	1457643	378923.5
Main River North Bank	32	1462308.709	373462.2594	Main River North Bank	79	1457610	379059.2
Main River North Bank	33	1462164.877	373435.3873	Main River North Bank	80	1457581	379186.2
Main River North Bank	34	1461979.221	373459.1098	Main River North Bank	81	1457534	379305
Main River North Bank	35	1461775.322	373511.8608	Main River North Bank	82	1457463	379450.8
Main River North Bank	36	1461536.547	373580.6764	Main River North Bank	83	1457390	379571.1

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Main River North Bank	84	1457349.583	379637.5327	Main River North Bank	131	1455128	385766
Main River North Bank	85	1457134.536	379885.0802	Main River North Bank	132	1455084	385910
Main River North Bank	86	1457022.518	380006.6085	Main River North Bank	133	1455002	386158.1
Main River North Bank	87	1456896.566	380111.676	Main River North Bank	134	1454915	386315.6
Main River North Bank	88	1456846.238	380160.6376	Main River North Bank	135	1454832	386455.4
Main River North Bank	89	1456775.576	380229.616	Main River North Bank	136	1454760	386569.4
Main River North Bank	90	1456627.675	380335.3138	Main River North Bank	137	1454684	386691.9
Main River North Bank	91	1456496.381	380423.6491	Main River North Bank	138	1454596	386810
Main River North Bank	92	1456212.07	380609.1436	Main River North Bank	139	1454517	386941
Main River North Bank	93	1456063.307	380702.4661	Main River North Bank	140	1454442	387058.5
Main River North Bank	94	1455944.635	380785.9323	Main River North Bank	141	1454350	387193.5
Main River North Bank	95	1455813.821	380891.5281	Main River North Bank	142	1454233	387405.7
Main River North Bank	96	1455708.852	380987.0179	Main River North Bank	143	1454171	387522.8
Main River North Bank	97	1455597.238	381126.428	Main River North Bank	144	1454110	387647.9
Main River North Bank	98	1455486.246	381278.8493	Main River North Bank	145	1454048	387756.3
Main River North Bank	99	1455437.819	381450.1964	Main River North Bank	146	1454005	387834.7
Main River North Bank	100	1455399.221	381642.7453	Main River North Bank	147	1453949	387904.6
Main River North Bank	101	1455386.07	381730.1924	Main River North Bank	148	1453901	387974.5
Main River North Bank	102	1455367.389	381965.5422	Main River North Bank	149	1453827	388027.9
Main River North Bank	103	1455381.735	382073.4198	Main River North Bank	150	1453763	388055
Main River North Bank	104	1455389.355	382220.7377	Main River North Bank	151	1453723	388094.9
Main River North Bank	105	1455345.969	382318.0491	Main River North Bank	152	1453645	388165.7
Main River North Bank	106	1455318.274	382462.3978	Main River North Bank	153	1453578	388197.5
Main River North Bank	107	1455294.548	382598.0012	Main River North Bank	154	1453504	388268.5
Main River North Bank	108	1455318.528	382718.4746	Main River North Bank	155	1453396	388340.3
Main River North Bank	109	1455312.036	382860.2108	Main River North Bank	156	1453318	388398.6
Main River North Bank	110	1455310.354	382896.5602	Main River North Bank	157	1453265	388457
Main River North Bank	111	1455323.086	383052.1127	Main River North Bank	158	1453208	388519.8
Main River North Bank	112	1455317.685	383195.3545	Main River North Bank	159	1453130	388591.8
Main River North Bank	113	1455307.964	383339.1412	Main River North Bank	160	1453069	388641.6
Main River North Bank	114	1455291.34	383435.1275	Main River North Bank	161	1452977	388705.5
Main River North Bank	115	1455272.741	383574.3296	Main River North Bank	162	1452877	388760.9
Main River North Bank	116	1455246.706	383735.7751	Main River North Bank	163	1452750	388799.1
Main River North Bank	117	1455220.508	383892.6987	Main River North Bank	164	1452616	388864.6
Main River North Bank	118	1455208.004	384057.9716	Main River North Bank	165	1452525	388942.8
Main River North Bank	119	1455219.805	384187.259	Main River North Bank	166	1452459	389007.2
Main River North Bank	120	1455215.165	384334.6924	Main River North Bank	167	1452393	389062.9
Main River North Bank	121	1455217.966	384459.8568	Main River North Bank	168	1452289	389123.9
Main River North Bank	122	1455230.471	384675.7403	Main River North Bank	169	1452149	389163.7
Main River North Bank	123	1455223.667	384784.6012	Main River North Bank	170	1451978	389209
Main River North Bank	124	1455216.336	384884.1242	Main River North Bank	171	1451862	389212.2
Main River North Bank	125	1455195.904	384984.5573	Main River North Bank	172	1451751	389233.3
Main River North Bank	126	1455202.215	385092.492	Main River North Bank	173	1451670	389254
Main River North Bank	127	1455212.083	385260.8896	Main River North Bank	174	1451543	389294.2
Main River North Bank	128	1455200.925	385369.4828	Main River North Bank	175	1451447	389293.1
Main River North Bank	129	1455188.243	385525.675	Main River North Bank	176	1451391	389345.7
Main River North Bank	130	1455163.764	385630.6163	Main River North Bank	177	1451287	389329.1

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Main River North Bank	178	1451084.995	389268.9194	Main River North Bank	225	1445633	386035.3
Main River North Bank	179	1450951.48	389212.2406	Main River North Bank	226	1445532	386009.9
Main River North Bank	180	1450772.465	389125.4263	Main River North Bank	227	1445389	385980.1
Main River North Bank	181	1450641.969	389080.6337	Main River North Bank	228	1445223	385957.4
Main River North Bank	182	1450523.912	389029.5917	Main River North Bank	229	1445050	385916
Main River North Bank	183	1450395.793	388950.0494	Main River North Bank	230	1444835	385860.4
Main River North Bank	184	1450280.879	388886.177	Main River North Bank	231	1444671	385831.6
Main River North Bank	185	1450173.714	388803.2997	Main River North Bank	232	1444540	385803.9
Main River North Bank	186	1450087.048	388694.8407	Main River North Bank	233	1444379	385783.7
Main River North Bank	187	1449983.607	388605.8939	Main River North Bank	234	1444301	385799.8
Main River North Bank	188	1449902.27	388525.1963	Main River North Bank	235	1444262	385878.2
Main River North Bank	189	1449833.653	388432.53	Main River North Bank	236	1444219	385952.5
Main River North Bank	190	1449726.487	388342.4457	Main River North Bank	237	1444118	386023.5
Main River North Bank	191	1449623.199	388236.8784	Main River North Bank	238	1443983	386075.7
Main River North Bank	192	1449506.213	388110.862	Main River North Bank	239	1443867	386111.7
Main River North Bank	193	1449390.044	388003.3043	Main River North Bank	240	1443712	386155.4
Main River North Bank	194	1449303.982	387896.8686	Main River North Bank	241	1443601	386190.5
Main River North Bank	195	1449178.123	387764.4162	Main River North Bank	242	1443498	386234.1
Main River North Bank	196	1449105.318	387670.3948	Main River North Bank	243	1443392	386287.1
Main River North Bank	197	1448992.359	387541.179	Main River North Bank	244	1443290	386335.1
Main River North Bank	198	1448959.218	387474.1881	Main River North Bank	245	1443227	386366.7
Main River North Bank	199	1448919.581	387448.0287	Main River North Bank	246	1443122	386378.9
Main River North Bank	200	1448824.518	387335.2229	Main River North Bank	247	1443016	386364.8
Main River North Bank	201	1448710.578	387268.8131	Main River North Bank	248	1442886	386348
Main River North Bank	202	1448595.565	387229.4309	Main River North Bank	249	1442750	386342
Main River North Bank	203	1448456.856	387278.9821	Main River North Bank	250	1442662	386338.2
Main River North Bank	204	1448303.443	387195.7669	Main River North Bank	251	1442450	386367.5
Main River North Bank	205	1448223.406	387117.6829	Main River North Bank	252	1442056	386459.7
Main River North Bank	206	1448162.741	387090.1383	Main River North Bank	253	1441894	386526.7
Main River North Bank	207	1447979.328	386980.9359	Main River North Bank	254	1441717	386621.5
Main River North Bank	208	1447852.741	386908.3105	Main River North Bank	255	1441588	386689.7
Main River North Bank	209	1447718.513	386858.3292	Main River North Bank	256	1441468	386800.4
Main River North Bank	210	1447621.963	386795.3748	Main River North Bank	257	1441345	386906.9
Main River North Bank	211	1447495.568	386735.3798	Main River North Bank	258	1441199	386993.8
Main River North Bank	212	1447360.46	386676.1714	Main River North Bank	259	1441077	387069.9
Main River North Bank	213	1447242.101	386614.8168	Main River North Bank	260	1440935	387147.3
Main River North Bank	214	1447110.702	386554.7872	Main River North Bank	261	1440817	387218.5
Main River North Bank	215	1446960.837	386474.5897	Main River North Bank	262	1440669	387339.8
Main River North Bank	216	1446767.233	386394.0294	Main River North Bank	263	1440537	387489.9
Main River North Bank	217	1446678.989	386359.3857	Main River North Bank	264	1440421	387612.4
Main River North Bank	218	1446528.443	386299.7843	Main River North Bank	265	1440272	387776.3
Main River North Bank	219	1446398.938	386241.6563	Main River North Bank	266	1440182	387862
Main River North Bank	220	1446256.01	386193.382	Main River North Bank	267	1440136	387934.9
Main River North Bank	221	1446150.336	386157.0015	Main River North Bank	268	1440028	388051.9
Main River North Bank	222	1446094.071	386137.6678	Main River North Bank	269	1439884	388197.8
Main River North Bank	223	1445923.615	386104.949	Main River North Bank	270	1439780	388335.7
Main River North Bank	224	1445801.031	386067.8679	Main River North Bank	271	1439661	388444.7

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Main River North Bank	272	1439549.656	388565.8916	Main River North Bank	319	1440864	394446.1
Main River North Bank	273	1439443.69	388729.1652	Main River North Bank	320	1440886	394586.7
Main River North Bank	274	1439312.352	388928.5326	Main River North Bank	321	1440885	394711.6
Main River North Bank	275	1439222.784	389073.0405	Main River North Bank	322	1440876	394794.8
Main River North Bank	276	1439142.869	389250.2019	Main River North Bank	323	1440884	394886.8
Main River North Bank	277	1439086.524	389413.0001	Main River North Bank	324	1440899	394998.7
Main River North Bank	278	1439050.303	389561.3079	Main River North Bank	325	1440909	395105
Main River North Bank	279	1439041.558	389686.1363	Main River North Bank	326	1440930	395265.4
Main River North Bank	280	1439006.707	389836.3669	Main River North Bank	327	1440943	395400.9
Main River North Bank	281	1439003.86	390177.3066	Main River North Bank	328	1440943	395422.8
Main River North Bank	282	1439018.397	390303.321	Main River North Bank	329	1440929	395560.3
Main River North Bank	283	1439003.285	390396.0405	Main River North Bank	330	1440938	395689.7
Main River North Bank	284	1439029.921	390494.6586	Main River North Bank	331	1440946	395796.1
Main River North Bank	285	1439049.076	390633.2613	Main River North Bank	332	1440944	395981.7
Main River North Bank	286	1439073.732	390797.2813	Main River North Bank	333	1440931	396111.4
Main River North Bank	287	1439108.723	391000.3079	Main River North Bank	334	1440919	396307.6
Main River North Bank	288	1439104.404	391183.1852	Main River North Bank	335	1440900	396426.2
Main River North Bank	289	1439115.569	391329.9608	Main River North Bank	336	1440881	396566.5
Main River North Bank	290	1439125.335	391446.8745	Main River North Bank	337	1440851	396685.8
Main River North Bank	291	1439128.231	391507.8217	Main River North Bank	338	1440827	396809.3
Main River North Bank	292	1439131.748	391554.6694	Main River North Bank	339	1440802	396932.9
Main River North Bank	293	1439177.487	391693.718	Main River North Bank	340	1440758	397118.9
Main River North Bank	294	1439222.591	391825.9499	Main River North Bank	341	1440737	397186.9
Main River North Bank	295	1439271.086	391902.3135	Main River North Bank	342	1440696	397285.1
Main River North Bank	296	1439339.922	392045.24	Main River North Bank	343	1440661	397425.4
Main River North Bank	297	1439409.824	392154.2806	Main River North Bank	344	1440632	397542.7
Main River North Bank	298	1439465.645	392247.2295	Main River North Bank	345	1440591	397651
Main River North Bank	299	1439536.911	392322.1481	Main River North Bank	346	1440568	397788.5
Main River North Bank	300	1439617.391	392442.0972	Main River North Bank	347	1440513	397951.7
Main River North Bank	301	1439743.756	392565.4444	Main River North Bank	348	1440504	398049.5
Main River North Bank	302	1439838.596	392667.8236	Main River North Bank	349	1440502	398070.8
Main River North Bank	303	1439943.993	392764.1383	Main River North Bank	350	1440479	398220.6
Main River North Bank	304	1440021.447	392842.9001	Main River North Bank	351	1440445	398382.6
Main River North Bank	305	1440049.736	392871.7245	Main River North Bank	352	1440416	398516.5
Main River North Bank	306	1440120.35	392974.8174	Main River North Bank	353	1440410	398662.7
Main River North Bank	307	1440191.601	393089.4158	Main River North Bank	354	1440400	398813.9
Main River North Bank	308	1440247.983	393159.8305	Main River North Bank	355	1440391	398985.6
Main River North Bank	309	1440276.324	393236.6576	Main River North Bank	356	1440369	399183.9
Main River North Bank	310	1440349.848	393388.3584	Main River North Bank	357	1440353	399264.5
Main River North Bank	311	1440393.786	393523.735	Main River North Bank	358	1440348	399345.5
Main River North Bank	312	1440454.952	393662.4201	Main River North Bank	359	1440345	399380.2
Main River North Bank	313	1440530.564	393843.197	Main River North Bank	360	1440331	399489.7
Main River North Bank	314	1440594.897	393947.9549	Main River North Bank	361	1440319	399616.1
Main River North Bank	315	1440657.915	394036.26	Main River North Bank	362	1440320	399780.5
Main River North Bank	316	1440710.474	394135.4184	Main River North Bank	363	1440304	399916.9
Main River North Bank	317	1440773.434	394222.7127	Main River North Bank	364	1440277	400059.8
Main River North Bank	318	1440840.039	394357.5395	Main River North Bank	365	1440254	400160.8

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Main River North Bank	366	1440230.952	400267.4594	Main River North Bank	413	1430431	405646.8
Main River North Bank	367	1440213.247	400296.7245	Main River North Bank	414	1430146	405695.9
Main River North Bank	368	1440173.921	400361.9771	Main River North Bank	415	1429906	405719.8
Main River North Bank	369	1440076.836	400445.7603	Main River North Bank	416	1429557	405740.9
Main River North Bank	370	1439985.984	400540.3689	Main River North Bank	417	1429407	405724
Main River North Bank	371	1439829.573	400674.9073	Main River North Bank	418	1429194	405701.6
Main River North Bank	372	1439684.384	400808.109	Main River North Bank	419	1428894	405683.5
Main River North Bank	373	1439556.746	400949.2544	Main River North Bank	420	1428602	405665.5
Main River North Bank	374	1439385.59	401115.4988	Main River North Bank	421	1428342	405669.6
Main River North Bank	375	1439225.618	401274.0326	Main River North Bank	422	1428002	405670.1
Main River North Bank	376	1439113.771	401384.4273	Main River North Bank	423	1427730	405645
Main River North Bank	377	1438970.47	401529.1304	Main River North Bank	424	1427524	405647.3
Main River North Bank	378	1438838.001	401661.2009	Main River North Bank	425	1427276	405613.3
Main River North Bank	379	1438710.326	401775.5818	Main River North Bank	426	1427053	405593.5
Main River North Bank	380	1438333.367	402171.3751	Main River North Bank	427	1426870	405579
Main River North Bank	381	1438249.241	402108.1005	Main River North Bank	428	1426631	405574.7
Main River North Bank	382	1437834.18	402122.1202	Main River North Bank	429	1426396	405531.3
Main River North Bank	383	1437575.677	402122.3357	Main River North Bank	430	1426265	405521.7
Main River North Bank	384	1437263.918	402092.7941	Main River North Bank	431	1426134	405535.3
Main River North Bank	385	1436936.515	402024.5391	Main River North Bank	432	1425943	405551.7
Main River North Bank	386	1436761.199	402125.3059	Main River North Bank	433	1425791	405589.1
Main River North Bank	387	1436568.252	402237.3364	Main River North Bank	434	1425544	405577.3
Main River North Bank	388	1436355.421	402382.0667	Main River North Bank	435	1425320	405571.7
Main River North Bank	389	1436101.22	402571.3892	Main River North Bank	436	1425113	405581.2
Main River North Bank	390	1435932.353	402706.9739	Main River North Bank	437	1424823	405617.5
Main River North Bank	391	1435750.696	402874.7613	Main River North Bank	438	1424675	405593.8
Main River North Bank	392	1435533.499	403078.2485	Main River North Bank	439	1424410	405655.3
Main River North Bank	393	1435369.181	403213.7219	Main River North Bank	440	1424081	405656.5
Main River North Bank	394	1435292.064	403276.6563	Main River North Bank	441	1423894	405636.5
Main River North Bank	395	1435078.238	403453.319	Main River North Bank	442	1423700	405614.6
Main River North Bank	396	1434693.705	403802.2868	Main River North Bank	443	1423583	405591.3
Main River North Bank	397	1434435.297	404006.9233	Main River North Bank	444	1423406	405605.7
Main River North Bank	398	1434240.144	404141.5503	Main River North Bank	445	1423217	405606.4
Main River North Bank	399	1433418.853	404663.6077	Main River North Bank	446	1423115	405612.7
Main River North Bank	400	1432976.1	404860.5431	Main River North Bank	447	1422938	405633.7
Main River North Bank	401	1432713.945	404928.0096	Main River North Bank	448	1422829	405664.3
Main River North Bank	402	1432503.959	404984.0562	Main River North Bank	449	1422695	405690.7
Main River North Bank	403	1432302.394	405054.404	Main River North Bank	450	1422573	405725.3
Main River North Bank	404	1432130.533	405115.1615	Main River North Bank	451	1422481	405735.2
Main River North Bank	405	1432007.087	405212.4725	Main River North Bank	452	1422307	405793.8
Main River North Bank	406	1431828.664	405296.1592	Main River North Bank	453	1422130	405855.4
Main River North Bank	407	1431634.531	405380.2704	Main River North Bank	454	1421972	405895.7
Main River North Bank	408	1431460.412	405425.0847	Main River North Bank	455	1421801	405947.2
Main River North Bank	409	1431387.578	405440.4066	Main River North Bank	456	1421648	405990.8
Main River North Bank	410	1431193.977	405480.9145	Main River North Bank	457	1421550	406025.4
Main River North Bank	411	1430906.093	405568.4591	Main River North Bank	458	1421308	406100.2
Main River North Bank	412	1430608.205	405633.0578	Main River North Bank	459	1421178	406148.3

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Main River North Bank	460	1421063.888	406172.3495	Main River North Bank	507	1422039	408913.8
Main River North Bank	461	1420921.62	406207.1612	Main River North Bank	508	1422083	408969
Main River North Bank	462	1420782.071	406238.6812	Main River North Bank	509	1422133	409064.7
Main River North Bank	463	1420627.698	406263.1543	Main River North Bank	510	1422207	409187.7
Main River North Bank	464	1420454.926	406268.7212	Main River North Bank	511	1422261	409257
Main River North Bank	465	1420305.18	406272.6435	Main River North Bank	512	1422321	409337.4
Main River North Bank	466	1420161.629	406282.4752	Main River North Bank	513	1422406	409436.9
Main River North Bank	467	1420033.282	406306.0362	Main River North Bank	514	1422486	409510.6
Main River North Bank	468	1419978.803	406309.878	Main River North Bank	515	1422544	409562.6
Main River North Bank	469	1419796.517	406345.6356	Main River North Bank	516	1422592	409629.3
Main River North Bank	470	1419572.135	406396.5506	Main River North Bank	517	1422639	409721.8
Main River North Bank	471	1419387.544	406436.3984	Main River North Bank	518	1422708	409848.1
Main River North Bank	472	1419251.118	406461.1536	Main River North Bank	519	1422738	409909.6
Main River North Bank	473	1419064.165	406504.7494	Main River North Bank	520	1422777	410054.5
Main River North Bank	474	1418829.484	406561.2639	Main River North Bank	521	1422815	410213.3
Main River North Bank	475	1418677.371	406605.758	Main River North Bank	522	1422846	410395.5
Main River North Bank	476	1418526.199	406608.6661	Main River North Bank	523	1422856	410547.1
Main River North Bank	477	1418367.832	406641.0434	Main River North Bank	524	1422861	410682
Main River North Bank	478	1418238.142	406685.4371	Main River North Bank	525	1422864	410828.2
Main River North Bank	479	1417947.978	406738.591	Main River North Bank	526	1422853	410935.1
Main River North Bank	480	1417795.221	406864.3967	Main River North Bank	527	1422849	411027
Main River North Bank	481	1417774.068	407027.5549	Main River North Bank	528	1422858	411129.9
Main River North Bank	482	1417794.637	407148.4564	Main River North Bank	529	1422865	411212.7
Main River North Bank	483	1417810.173	407215.6421	Main River North Bank	530	1422879	411404.2
Main River North Bank	484	1417979.38	407392.7898	Main River North Bank	531	1422876	411545.1
Main River North Bank	485	1418155.419	407422.5129	Main River North Bank	532	1422864	411761.1
Main River North Bank	486	1418398.643	407416.5942	Main River North Bank	533	1422830	412024
Main River North Bank	487	1418618.363	407393.8534	Main River North Bank	534	1422809	412243.2
Main River North Bank	488	1418940.193	407392.7704	Main River North Bank	535	1422792	412390.5
Main River North Bank	489	1419185.334	407400.6307	Main River North Bank	536	1422787	412479.5
Main River North Bank	490	1419414.301	407425.1746	Main River North Bank	537	1422765	412718.6
Main River North Bank	491	1419649.73	407457.8255	Main River North Bank	538	1422782	412858.4
Main River North Bank	492	1420145.57	407580.3738	Main River North Bank	539	1422776	413007.8
Main River North Bank	493	1420314.658	407669.0716	Main River North Bank	540	1422770	413117.1
Main River North Bank	494	1420401.538	407717.6405	Main River North Bank	541	1422753	413361.4
Main River North Bank	495	1420606.597	407833.3216	Main River North Bank	542	1422731	413534.7
Main River North Bank	496	1420669.202	407862.3708	Main River North Bank	543	1422734	413640.6
Main River North Bank	497	1420849.178	407962.9377	Main River North Bank	544	1422728	413718.2
Main River North Bank	498	1420939.699	408030.0719	Main River North Bank	545	1422715	413779.2
Main River North Bank	499	1421087.928	408125.8459	Main River North Bank	546	1422704	414025.8
Main River North Bank	500	1421240.981	408212.2625	Main River North Bank	547	1422691	414155.6
Main River North Bank	501	1421362.38	408298.0434	Main River North Bank	548	1422678	414268
Main River North Bank	502	1421480.087	408372.2448	Main River North Bank	549	1422668	414368.4
Main River North Bank	503	1421632.122	408484.9466	Main River North Bank	550	1422644	414475.7
Main River North Bank	504	1421741.934	408571.0545	Main River North Bank	551	1422599	414655.6
Main River North Bank	505	1421826.313	408667.523	Main River North Bank	552	1422577	414753.8
Main River North Bank	506	1421913.911	408769.9988	Main River North Bank	553	1422555	414852.4

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Main River North Bank	554	1422507.836	414958.0568	Main River North Bank	601	1416830	420334.3
Main River North Bank	555	1422472.036	415065.8928	Main River North Bank	602	1416660	420403.9
Main River North Bank	556	1422420.022	415231.6054	Main River North Bank	603	1416491	420483
Main River North Bank	557	1422380.383	415387.3655	Main River North Bank	604	1416377	420544.5
Main River North Bank	558	1422342.435	415519.9925	Main River North Bank	605	1416216	420603.9
Main River North Bank	559	1422316.703	415624.0729	Main River North Bank	606	1416071	420690.7
Main River North Bank	560	1422286.277	415728.813	Main River North Bank	607	1415924	420749.2
Main River North Bank	561	1422242.589	415848.0188	Main River North Bank	608	1415811	420812.8
Main River North Bank	562	1422200.545	415990.2008	Main River North Bank	609	1415788	420825.6
Main River North Bank	563	1422169.689	416090.1375	Main River North Bank	610	1415619	420865.3
Main River North Bank	564	1422146.941	416170.6378	Main River North Bank	611	1415416	420928.4
Main River North Bank	565	1422087.382	416267.7005	Main River North Bank	612	1415203	420960.1
Main River North Bank	566	1422030.133	416397.0237	Main River North Bank	613	1414925	420948.6
Main River North Bank	567	1421971.469	416507.4387	Main River North Bank	614	1414751	420887.1
Main River North Bank	568	1421921.689	416608.4912	Main River North Bank	615	1414566	420787.9
Main River North Bank	569	1421895.872	416712.7061	Main River North Bank	616	1414412	420695.8
Main River North Bank	570	1421805.158	417040.8212	Main River North Bank	617	1414186	420576.4
Main River North Bank	571	1421753.518	417183.8705	Main River North Bank	618	1413972	420486.9
Main River North Bank	572	1421685.753	417300.3353	Main River North Bank	619	1413744	420428.5
Main River North Bank	573	1421532.013	417477.6349	Main River North Bank	620	1413549	420308.9
Main River North Bank	574	1421360.693	417674.4869	Main River North Bank	621	1413340	420160.1
Main River North Bank	575	1421235.246	417779.9649	Main River North Bank	622	1412972	419831.1
Main River North Bank	576	1420989.889	417973.1126	Main River North Bank	623	1412823	419680.3
Main River North Bank	577	1420902.519	418041.9689	Main River North Bank	624	1412674	419537.6
Main River North Bank	578	1420744.032	418213.5269	Main River North Bank	625	1412525	419379.6
Main River North Bank	579	1420629.332	418337.6677	Main River North Bank	626	1412386	419298.4
Main River North Bank	580	1420441.153	418492.98	Main River North Bank	627	1412249	419209.7
Main River North Bank	581	1420297.332	418604.125	Main River North Bank	628	1412105	419115.4
Main River North Bank	582	1420099.14	418750.607	Main River North Bank	629	1411936	419039.7
Main River North Bank	583	1419990.427	418821.7445	Main River North Bank	630	1411781	418992.8
Main River North Bank	584	1419853.81	418899.6864	Main River North Bank	631	1411639	418960
Main River North Bank	585	1419726.266	418972.2625	Main River North Bank	632	1411539	418927.7
Main River North Bank	586	1419548.449	419070.6923	Main River North Bank	633	1411418	418934.4
Main River North Bank	587	1419347.408	419175.3143	Main River North Bank	634	1411316	418919.3
Main River North Bank	588	1419146.442	419279.9889	Main River North Bank	635	1411199	418902.7
Main River North Bank	589	1418986.946	419368.6385	Main River North Bank	636	1411038	418894.2
Main River North Bank	590	1418840.587	419442.4669	Main River North Bank	637	1410698	418898.5
Main River North Bank	591	1418571.92	419593.4085	Main River North Bank	638	1410513	418918.2
Main River North Bank	592	1418443.802	419657.1178	Main River North Bank	639	1410402	418939.7
Main River North Bank	593	1418155.603	419800.416	Main River North Bank	640	1410215	418980.4
Main River North Bank	594	1417957.645	419882.1703	Main River North Bank	641	1410076	419018.2
Main River North Bank	595	1417787.041	419948.4475	Main River North Bank	642	1409861	419043.7
Main River North Bank	596	1417653.211	419998.3252	Main River North Bank	643	1409638	419058.3
Main River North Bank	597	1417496.485	420058.7618	Main River North Bank	644	1409519	419063.5
Main River North Bank	598	1417372.131	420107.9508	Main River North Bank	645	1409317	419083
Main River North Bank	599	1417140.92	420186.1391	Main River North Bank	646	1409152	419095
Main River North Bank	600	1416995.839	420273.856	Main River North Bank	647	1408929	419122.1

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Main River North Bank	648	1408764.802	419128.0509	Main River North Bank	695	1400438	420914.1
Main River North Bank	649	1408516.823	419149.421	Main River North Bank	696	1400299	420975.1
Main River North Bank	650	1408098.243	419171.8393	Main River North Bank	697	1400061	421038.4
Main River North Bank	651	1407824.09	419202.6657	Main River North Bank	698	1399999	421092.4
Main River North Bank	652	1407621.287	419238.2297	Main River North Bank	699	1399911	421144.7
Main River North Bank	653	1407394.75	419279.3353	Main River North Bank	700	1399709	421196.2
Main River North Bank	654	1407170.989	419322.0187	Main River North Bank	701	1399493	421241
Main River North Bank	655	1406960.529	419351.4702	Main River North Bank	702	1399309	421272.9
Main River North Bank	656	1406729.082	419384.858	Main River North Bank	703	1399134	421260.5
Main River North Bank	657	1406429.992	419401.4994	Main River North Bank	704	1399051	421254.6
Main River North Bank	658	1406185.511	419396.8291	Main River North Bank	705	1398908	421161.4
Main River North Bank	659	1406037.993	419397.584	Main River North Bank	706	1398809	421043.2
Main River North Bank	660	1405839.495	419399.0893	Main River North Bank	707	1398721	420935.7
Main River North Bank	661	1405607.957	419403.0502	Main River North Bank	708	1398565	420859.6
Main River North Bank	662	1405499.23	419401.9902	Main River North Bank	709	1398428	420856
Main River North Bank	663	1405310.434	419419.0148	Main River North Bank	710	1398245	420877.5
Main River North Bank	664	1405220.091	419457.9042	Main River North Bank	711	1398142	420908.5
Main River North Bank	665	1405101.654	419522.9003	Main River North Bank	712	1397980	420970.6
Main River North Bank	666	1405007.962	419594.9784	Main River North Bank	713	1397863	421048.2
Main River North Bank	667	1404872.205	419673.7412	Main River North Bank	714	1397694	421119.9
Main River North Bank	668	1404764.842	419764.8757	Main River North Bank	715	1397583	421175.2
Main River North Bank	669	1404652.728	419838.817	Main River North Bank	716	1397284	421342.2
Main River North Bank	670	1404547.95	419894.5401	Main River North Bank	717	1397081	421468
Main River North Bank	671	1404429.549	419969.2382	Main River North Bank	718	1396977	421555.7
Main River North Bank	672	1404325.654	420036.8058	Main River North Bank	719	1396870	421631
Main River North Bank	673	1404137.081	420118.0391	Main River North Bank	720	1396719	421733.7
Main River North Bank	674	1404015.532	420163.463	Main River North Bank	721	1396516	421852.4
Main River North Bank	675	1403849.481	420228.1414	Main River North Bank	722	1396368	421962.3
Main River North Bank	676	1403674.666	420266.4908	Main River North Bank	723	1396246	422032.9
Main River North Bank	677	1403546.518	420313.1237	Main River North Bank	724	1396079	422125.1
Main River North Bank	678	1403378.098	420324.5702	Main River North Bank	725	1395881	422211.5
Main River North Bank	679	1403266.053	420313.294	Main River North Bank	726	1395616	422326.6
Main River North Bank	680	1403166.709	420306.6103	Main River North Bank	727	1395321	422461.9
Main River North Bank	681	1402898.927	420356.1175	Main River North Bank	728	1395155	422526.9
Main River North Bank	682	1402754.59	420371.1336	Main River North Bank	729	1394960	422593.7
Main River North Bank	683	1402595.676	420399.6454	Main River North Bank	730	1394825	422640.6
Main River North Bank	684	1402372.824	420412.2855	Main River North Bank	731	1394666	422696.4
Main River North Bank	685	1402201.26	420445.0141	Main River North Bank	732	1394401	422810.4
Main River North Bank	686	1402007.259	420471.0611	Main River North Bank	733	1394169	422904.2
Main River North Bank	687	1401801.758	420513.837	Main River North Bank	734	1393984	422958.2
Main River North Bank	688	1401599.4	420562.6628	Main River North Bank	735	1393798	423031.2
Main River North Bank	689	1401446.062	420601.1664	Main River North Bank	736	1393519	423181.1
Main River North Bank	690	1401292.514	420637.5325	Main River North Bank	737	1393499	423192.1
Main River North Bank	691	1401057.196	420715.3029	Main River North Bank	738	1393284	423279.8
Main River North Bank	692	1400944.453	420762.5181	Main River North Bank	739	1393094	423385.4
Main River North Bank	693	1400821.109	420796.6952	Main River North Bank	740	1392926	423470.5
Main River North Bank	694	1400692.16	420843.8088	Main River North Bank	741	1392683	423579.5

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Main River North Bank	742	1392526.626	423658.25	Main River North Bank	789	1384753	420850
Main River North Bank	743	1392352.867	423744.2963	Main River North Bank	790	1384654	420762.4
Main River North Bank	744	1392190.557	423823.7605	Main River North Bank	791	1384533	420668.3
Main River North Bank	745	1391992.567	423899.3416	Main River North Bank	792	1384460	420605.5
Main River North Bank	746	1391829.606	423966.3209	Main River North Bank	793	1384352	420515.4
Main River North Bank	747	1391566.479	424046.7566	Main River North Bank	794	1384245	420442.2
Main River North Bank	748	1391443.172	424074.1463	Main River North Bank	795	1384097	420346.2
Main River North Bank	749	1391278.689	424110.9436	Main River North Bank	796	1383955	420270.7
Main River North Bank	750	1391155.199	424138.0929	Main River North Bank	797	1383888	420224.9
Main River North Bank	751	1391049.262	424158.4521	Main River North Bank	798	1383777	420168.6
Main River North Bank	752	1390895.909	424181.6467	Main River North Bank	799	1383666	420100.2
Main River North Bank	753	1390761.359	424222.0223	Main River North Bank	800	1383529	420033.1
Main River North Bank	754	1390584.372	424232.7969	Main River North Bank	801	1383384	419974.8
Main River North Bank	755	1390389.682	424250.544	Main River North Bank	802	1383264	419919.3
Main River North Bank	756	1390200.078	424255.8301	Main River North Bank	803	1383093	419849.9
Main River North Bank	757	1389998.18	424255.3327	Main River North Bank	804	1382929	419772.4
Main River North Bank	758	1389743.557	424270.2805	Main River North Bank	805	1382756	419683.4
Main River North Bank	759	1389606.207	424246.8255	Main River North Bank	806	1382607	419630.1
Main River North Bank	760	1389397.375	424208.0735	Main River North Bank	807	1382549	419604.5
Main River North Bank	761	1389188.512	424162.4423	Main River North Bank	808	1382357	419545.8
Main River North Bank	762	1388979.419	424104.5909	Main River North Bank	809	1382183	419502.5
Main River North Bank	763	1388678.176	423957.0689	Main River North Bank	810	1382005	419463.4
Main River North Bank	764	1388467.81	423868.0853	Main River North Bank	811	1381910	419450.7
Main River North Bank	765	1388287.269	423790.0387	Main River North Bank	812	1381833	419440.6
Main River North Bank	766	1388159.681	423709.3675	Main River North Bank	813	1381558	419419.5
Main River North Bank	767	1387960.1	423607.4311	Main River North Bank	814	1381358	419419
Main River North Bank	768	1387802.18	423515.5735	Main River North Bank	815	1381137	419431.9
Main River North Bank	769	1387637.748	423411.522	Main River North Bank	816	1380955	419446.9
Main River North Bank	770	1387539.876	423341.5755	Main River North Bank	817	1380761	419474.4
Main River North Bank	771	1387404.277	423223.1739	Main River North Bank	818	1380554	419494.9
Main River North Bank	772	1387268.969	423116.6792	Main River North Bank	819	1380423	419510.9
Main River North Bank	773	1387090.926	422991.5397	Main River North Bank	820	1380326	419528.1
Main River North Bank	774	1386912.222	422858.8671	Main River North Bank	821	1380285	419535.2
Main River North Bank	775	1386794.29	422761.2448	Main River North Bank	822	1380087	419563.5
Main River North Bank	776	1386639.058	422640.2835	Main River North Bank	823	1379953	419591.9
Main River North Bank	777	1386508.24	422517.979	Main River North Bank	824	1379789	419626
Main River North Bank	778	1386353.284	422357.8964	Main River North Bank	825	1379633	419647.5
Main River North Bank	779	1386193.02	422199.2477	Main River North Bank	826	1379423	419684.9
Main River North Bank	780	1386093.95	422090.2835	Main River North Bank	827	1379258	419698.9
Main River North Bank	781	1385915.452	421921.1329	Main River North Bank	828	1379119	419715.6
Main River North Bank	782	1385881.884	421889.6552	Main River North Bank	829	1378957	419725.6
Main River North Bank	783	1385710.326	421718.5161	Main River North Bank	830	1378872	419742.9
Main River North Bank	784	1385481.6	421504.545	Main River North Bank	831	1378814	419754.7
Main River North Bank	785	1385305.193	421345.6628	Main River North Bank	832	1378698	419843
Main River North Bank	786	1385136.208	421187.4613	Main River North Bank	833	1378556	419969.3
Main River North Bank	787	1385025.024	421090.5732	Main River North Bank	834	1378441	420033
Main River North Bank	788	1384873.81	420962.4488	Main River North Bank	835	1378366	420102.6

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Main River North Bank	836	1378232.393	420196.8573	Main River North Bank	883	1373020	424049.3
Main River North Bank	837	1378105.7	420322.6933	Main River North Bank	884	1372786	424164.9
Main River North Bank	838	1378028.038	420421.1903	Main River North Bank	885	1372460	424336.1
Main River North Bank	839	1377958.728	420519.2733	Main River North Bank	886	1372412	424363.5
Main River North Bank	840	1377919.844	420623.2969	Main River North Bank	887	1372259	424449.2
Main River North Bank	841	1377895.658	420808.6424	Main River North Bank	888	1371837	424599.3
Main River North Bank	842	1377872.174	420957.9354	Main River North Bank	889	1371561	424627.9
Main River North Bank	843	1377819.062	421065.6933	Main River North Bank	890	1371219	424693.4
Main River North Bank	844	1377795.802	421112.709	Main River North Bank	891	1371011	424740
Main River North Bank	845	1377738.311	421251.2481	Main River North Bank	892	1370760	424783.5
Main River North Bank	846	1377678.965	421361.1437	Main River North Bank	893	1370592	424823.2
Main River North Bank	847	1377602.007	421472.457	Main River North Bank	894	1370327	424864.6
Main River North Bank	848	1377536.476	421557.3445	Main River North Bank	895	1370186	424898.8
Main River North Bank	849	1377449.34	421652.3937	Main River North Bank	896	1370005	424939.6
Main River North Bank	850	1377345.165	421769.6523	Main River North Bank	897	1369912	424968.5
Main River North Bank	851	1377191.724	421865.1995	Main River North Bank	898	1369779	424985.3
Main River North Bank	852	1377054.109	421921.4272	Main River North Bank	899	1369687	425002.8
Main River North Bank	853	1376855.11	421956.9958	Main River North Bank	900	1369539	425018.3
Main River North Bank	854	1376682.021	421973.6329	Main River North Bank	901	1369400	425043.5
Main River North Bank	855	1376416.149	422026.1549	Main River North Bank	902	1369196	425072.6
Main River North Bank	856	1376335.767	422044.3284	Main River North Bank	903	1369054	425093.1
Main River North Bank	857	1376254.71	422062.7185	Main River North Bank	904	1368907	425113.7
Main River North Bank	858	1376119.718	422109.9141	Main River North Bank	905	1368804	425110.8
Main River North Bank	859	1376035.107	422214.9876	Main River North Bank	906	1368655	425147.9
Main River North Bank	860	1375964.334	422338.5696	Main River North Bank	907	1368552	425179.7
Main River North Bank	861	1375894.114	422448.2927	Main River North Bank	908	1368391	425144.2
Main River North Bank	862	1375834.41	422522.8022	Main River North Bank	909	1368281	425117.4
Main River North Bank	863	1375716.719	422637.4275	Main River North Bank	910	1368123	425072.1
Main River North Bank	864	1375622.311	422715.832	Main River North Bank	911	1367928	425054.3
Main River North Bank	865	1375506.209	422795.9141	Main River North Bank	912	1367771	425024.7
Main River North Bank	866	1375370.117	422908.6969	Main River North Bank	913	1367554	425032.4
Main River North Bank	867	1375207.202	423006.3931	Main River North Bank	914	1367305	425135.9
Main River North Bank	868	1374997.738	423121.6975	Main River North Bank	915	1367144	425168
Main River North Bank	869	1374779.055	423228.54	Main River North Bank	916	1366984	425207.7
Main River North Bank	870	1374615.033	423308.8924	Main River North Bank	917	1366882	425242.9
Main River North Bank	871	1374396.284	423415.9105	Main River North Bank	918	1366748	425277.8
Main River North Bank	872	1374219.29	423497.0223	Main River North Bank	919	1366613	425308.9
Main River North Bank	873	1374113.681	423540.9472	Main River North Bank	920	1366460	425327.7
Main River North Bank	874	1373982.319	423586.9613	Main River North Bank	921	1366334	425340.3
Main River North Bank	875	1373859.563	423632.0364	Main River North Bank	922	1366188	425355
Main River North Bank	876	1373744.939	423667.5768	Main River North Bank	923	1366024	425367.9
Main River North Bank	877	1373723.984	423671.8731	Main River North Bank	924	1365969	425363
Main River North Bank	878	1373633.974	423690.4334	Main River North Bank	925	1365858	425352.8
Main River North Bank	879	1373397.086	423775.1568	Main River North Bank	926	1365676	425349.5
Main River North Bank	880	1373275.89	423846.0745	Main River North Bank	927	1365478	425330.1
Main River North Bank	881	1373162.79	423907.1732	Main River North Bank	928	1365302	425308.6
Main River North Bank	882	1373071.658	423975.4108	Main River North Bank	929	1365201	425266.2

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Main River North Bank	930	1365061.051	425213.1352	Main River North Bank	977	1359054	424644.6
Main River North Bank	931	1364933.601	425190.5453	Main River North Bank	978	1358901	424669
Main River North Bank	932	1364838.322	425178.4948	Main River North Bank	979	1358770	424695.4
Main River North Bank	933	1364775.472	425181.0899	Main River North Bank	980	1358658	424714
Main River North Bank	934	1364671.256	425194.1306	Main River North Bank	981	1358526	424740.6
Main River North Bank	935	1364559.94	425204.5112	Main River North Bank	982	1358353	424756.3
Main River North Bank	936	1364403.544	425222.7293	Main River North Bank	983	1358106	424755.5
Main River North Bank	937	1364296.117	425239.2457	Main River North Bank	984	1357963	424767.3
Main River North Bank	938	1364188.292	425249.1936	Main River North Bank	985	1357868	424779.8
Main River North Bank	939	1364062.439	425250.5286	Main River North Bank	986	1357708	424792.8
Main River North Bank	940	1363926.336	425256.1309	Main River North Bank	987	1357529	424778.9
Main River North Bank	941	1363766.111	425267.7175	Main River North Bank	988	1357409	424768.2
Main River North Bank	942	1363626.131	425266.8183	Main River North Bank	989	1357333	424762.3
Main River North Bank	943	1363478.95	425263.3415	Main River North Bank	990	1357232	424726.8
Main River North Bank	944	1363344.925	425247.8491	Main River North Bank	991	1357160	424682.6
Main River North Bank	945	1363168.991	425242.6119	Main River North Bank	992	1357083	424659.2
Main River North Bank	946	1363027.827	425240.6053	Main River North Bank	993	1357009	424618.5
Main River North Bank	947	1362900.568	425234.0361	Main River North Bank	994	1356913	424575.9
Main River North Bank	948	1362773.137	425223.6706	Main River North Bank	995	1356821	424536.3
Main River North Bank	949	1362617.503	425212.004	Main River North Bank	996	1356737	424503.3
Main River North Bank	950	1362522.312	425208.7749	Main River North Bank	997	1356601	424480.3
Main River North Bank	951	1362362.5	425183.3025	Main River North Bank	998	1356519	424485.4
Main River North Bank	952	1362188.714	425158.4167	Main River North Bank	999	1356432	424473.5
Main River North Bank	953	1362086.118	425148.5991	Main River North Bank	1000	1356301	424464.4
Main River North Bank	954	1361965.046	425123.4295	Main River North Bank	1001	1356177	424472.1
Main River North Bank	955	1361855.324	425110.9022	Main River North Bank	1002	1356032	424477.6
Main River North Bank	956	1361742.114	425099.0555	Main River North Bank	1003	1355874	424487.6
Main River North Bank	957	1361610.539	425074.2963	Main River North Bank	1004	1355733	424496.6
Main River North Bank	958	1361460.149	425027.2113	Main River North Bank	1005	1355520	424458.7
Main River North Bank	959	1361322.378	424999.1106	Main River North Bank	1006	1355324	424416.1
Main River North Bank	960	1361171.521	424967.7238	Main River North Bank	1007	1355152	424375.4
Main River North Bank	961	1361024.613	424929.0725	Main River North Bank	1008	1354969	424321.5
Main River North Bank	962	1360870.549	424873.357	Main River North Bank	1009	1354842	424281.5
Main River North Bank	963	1360709.895	424817.5929	Main River North Bank	1010	1354714	424234.6
Main River North Bank	964	1360594.5	424773.2517	Main River North Bank	1011	1354612	424206.9
Main River North Bank	965	1360473.44	424753.167	Main River North Bank	1012	1354506	424168.9
Main River North Bank	966	1360365.297	424714.94	Main River North Bank	1013	1354352	424127.1
Main River North Bank	967	1360229.23	424664.9793	Main River North Bank	1014	1354232	424090
Main River North Bank	968	1360098.322	424649.2438	Main River North Bank	1015	1354078	424048.6
Main River North Bank	969	1359983.201	424604.5824	Main River North Bank	1016	1354044	424039.4
Main River North Bank	970	1359866.596	424598.2162	Main River North Bank	1017	1353917	424004.1
Main River North Bank	971	1359788.435	424606.9826	Main River North Bank	1018	1353781	423978.3
Main River North Bank	972	1359698.833	424591.8973	Main River North Bank	1019	1353608	423965.7
Main River North Bank	973	1359613.797	424597.4157	Main River North Bank	1020	1353487	423966.9
Main River North Bank	974	1359487.325	424591.7159	Main River North Bank	1021	1353353	423982.8
Main River North Bank	975	1359398.755	424594.2398	Main River North Bank	1022	1353254	424003.4
Main River North Bank	976	1359219.033	424613.0788	Main River North Bank	1023	1353124	424067.6

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Main River North Bank	1024	1352982.259	424129.2671	Main River North Bank	1071	1347016	424995.4
Main River North Bank	1025	1352867.977	424181.6903	Main River North Bank	1072	1346900	424927.4
Main River North Bank	1026	1352746.858	424242.3635	Main River North Bank	1073	1346729	424852.9
Main River North Bank	1027	1352723.768	424253.7638	Main River North Bank	1074	1346617	424794.8
Main River North Bank	1028	1352596.947	424328.3517	Main River North Bank	1075	1346456	424719.7
Main River North Bank	1029	1352497.378	424397.4013	Main River North Bank	1076	1346222	424649.5
Main River North Bank	1030	1352400.867	424462.9508	Main River North Bank	1077	1346021	424601.3
Main River North Bank	1031	1352361.366	424489.8042	Main River North Bank	1078	1345845	424561.6
Main River North Bank	1032	1352177.149	424574.65	Main River North Bank	1079	1345710	424515.7
Main River North Bank	1033	1352020.99	424661.2592	Main River North Bank	1080	1345563	424487.9
Main River North Bank	1034	1351881.228	424729.001	Main River North Bank	1081	1345444	424475.5
Main River North Bank	1035	1351745.415	424800.0122	Main River North Bank	1082	1345303	424447.1
Main River North Bank	1036	1351555.817	424884.9872	Main River North Bank	1083	1345211	424425.6
Main River North Bank	1037	1351413.599	424911.1598	Main River North Bank	1084	1345057	424405
Main River North Bank	1038	1351290.661	424970.9793	Main River North Bank	1085	1344819	424366
Main River North Bank	1039	1351155.785	425059.1053	Main River North Bank	1086	1344737	424340.5
Main River North Bank	1040	1351059.31	425155.0154	Main River North Bank	1087	1344582	424306
Main River North Bank	1041	1350975.086	425277.7644	Main River North Bank	1088	1344434	424271.3
Main River North Bank	1042	1350919.753	425512.2779	Main River North Bank	1089	1344277	424250.7
Main River North Bank	1043	1350874.554	425704.6125	Main River North Bank	1090	1344124	424246.9
Main River North Bank	1044	1350795.024	425815.9728	Main River North Bank	1091	1343956	424230.1
Main River North Bank	1045	1350724.486	425905.9022	Main River North Bank	1092	1343802	424222.9
Main River North Bank	1046	1350521.736	426007.0066	Main River North Bank	1093	1343614	424211.3
Main River North Bank	1047	1350400.949	426031.4889	Main River North Bank	1094	1343511	424228.3
Main River North Bank	1048	1350246.223	426071.9692	Main River North Bank	1095	1343396	424228.9
Main River North Bank	1049	1350177.448	426081.1263	Main River North Bank	1096	1343280	424219.4
Main River North Bank	1050	1350044.792	426098.3753	Main River North Bank	1097	1343192	424197.8
Main River North Bank	1051	1349856.164	426110.2959	Main River North Bank	1098	1342987	424171.1
Main River North Bank	1052	1349687.719	426110.8901	Main River North Bank	1099	1342799	424167.5
Main River North Bank	1053	1349465.236	426090.728	Main River North Bank	1100	1342576	424111.1
Main River North Bank	1054	1349302.596	426074.127	Main River North Bank	1101	1342377	424068.9
Main River North Bank	1055	1349145.571	426032.7881	Main River North Bank	1102	1342181	424073
Main River North Bank	1056	1348926.98	425958.0085	Main River North Bank	1103	1342056	424072.8
Main River North Bank	1057	1348844.371	425924.7713	Main River North Bank	1104	1341526	424003
Main River North Bank	1058	1348758.069	425889.7346	Main River North Bank	1105	1341134	423862.7
Main River North Bank	1059	1348528.916	425805.4636	Main River North Bank	1106	1340909	423767
Main River North Bank	1060	1348389.007	425749.1949	Main River North Bank	1107	1340658	423617.9
Main River North Bank	1061	1348255.918	425689.2638	Main River North Bank	1108	1340610	423585.5
Main River North Bank	1062	1348140.94	425638.7149	Main River North Bank	1109	1340357	423417.7
Main River North Bank	1063	1348058.337	425602.7031	Main River North Bank	1110	1340090	423254.2
Main River North Bank	1064	1347964.335	425550.7923	Main River North Bank	1111	1339797	423045.8
Main River North Bank	1065	1347603.335	425358.4009	Main River North Bank	1112	1339561	422880.3
Main River North Bank	1066	1347492.025	425307.2139	Main River North Bank	1113	1339367	422751.6
Main River North Bank	1067	1347419.187	425257.1345	Main River North Bank	1114	1339204	422621
Main River North Bank	1068	1347303.395	425189.1454	Main River North Bank	1115	1339042	422513.8
Main River North Bank	1069	1347205.658	425130.5279	Main River North Bank	1116	1338976	422439.4
Main River North Bank	1070	1347117.878	425063.9223	Main River North Bank	1117	1338876	422320.7

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Main River North Bank	1118	1338629.611	422101.5043	Main River North Bank	1165	1336641	428839.3
Main River North Bank	1119	1338545.989	422129.7553	Main River North Bank	1166	1336531	428925.1
Main River North Bank	1120	1338435.745	422229.6224	Main River North Bank	1167	1336418	428963.9
Main River North Bank	1121	1338381.928	422365.0791	Main River North Bank	1168	1336304	428994.9
Main River North Bank	1122	1338312.387	422493.9813	Main River North Bank	1169	1336137	429029.4
Main River North Bank	1123	1338253.042	422660.6352	Main River North Bank	1170	1335987	429078.5
Main River North Bank	1124	1338227.019	422872.1568	Main River North Bank	1171	1335778	429076.2
Main River North Bank	1125	1338201.375	423099.9652	Main River North Bank	1172	1335678	429091.3
Main River North Bank	1126	1338203.636	423279.146	Main River North Bank	1173	1335525	429130.5
Main River North Bank	1127	1338183.66	423475.709	Main River North Bank	1174	1335388	429157
Main River North Bank	1128	1338191.804	423623.4475	Main River North Bank	1175	1335234	429196.1
Main River North Bank	1129	1338214.467	423754.7484	Main River North Bank	1176	1335086	429240.9
Main River North Bank	1130	1338249.934	423838.4879	Main River North Bank	1177	1334903	429275.9
Main River North Bank	1131	1338258.72	423994.4269	Main River North Bank	1178	1334700	429288.1
Main River North Bank	1132	1338286.434	424335.9413	Main River North Bank	1179	1334487	429324.5
Main River North Bank	1133	1338295.481	424483.9059	Main River North Bank	1180	1334355	429356
Main River North Bank	1134	1338328.545	424645.5788	Main River North Bank	1181	1334217	429387.8
Main River North Bank	1135	1338368	424783.4666	Main River North Bank	1182	1334098	429430.5
Main River North Bank	1136	1338453.789	424926.7769	Main River North Bank	1183	1333936	429463.7
Main River North Bank	1137	1338471.85	425081.3944	Main River North Bank	1184	1333831	429469.9
Main River North Bank	1138	1338502.744	425196.2894	Main River North Bank	1185	1333529	429511.3
Main River North Bank	1139	1338474.377	425338.5646	Main River North Bank	1186	1333413	429529.7
Main River North Bank	1140	1338461.775	425503.3904	Main River North Bank	1187	1333242	429528.1
Main River North Bank	1141	1338449.119	425676.4216	Main River North Bank	1188	1333107	429547.3
Main River North Bank	1142	1338443.195	425818.1112	Main River North Bank	1189	1332965	429549.4
Main River North Bank	1143	1338416.465	425968.2261	Main River North Bank	1190	1332811	429557.8
Main River North Bank	1144	1338409.082	426171.8835	Main River North Bank	1191	1332638	429561.2
Main River North Bank	1145	1338415.544	426257.8721	Main River North Bank	1192	1332243	429569.4
Main River North Bank	1146	1338419.597	426312.3425	Main River North Bank	1193	1332009	429543.9
Main River North Bank	1147	1338430.483	426460.2326	Main River North Bank	1194	1331773	429474.3
Main River North Bank	1148	1338403.541	426618.5765	Main River North Bank	1195	1331369	429309.3
Main River North Bank	1149	1338392.972	426792.0085	Main River North Bank	1196	1331089	429208
Main River North Bank	1150	1338341.628	426936.4984	Main River North Bank	1197	1330859	429151
Main River North Bank	1151	1338298.351	427088.3343	Main River North Bank	1198	1330630	429103.9
Main River North Bank	1152	1338156.557	427380.5056	Main River North Bank	1199	1329968	429030.2
Main River North Bank	1153	1338088.794	427518.3616	Main River North Bank	1200	1329559	429014.8
Main River North Bank	1154	1337996.301	427634.3369	Main River North Bank	1201	1329436	428991.9
Main River North Bank	1155	1337913.025	427773.6719	Main River North Bank	1202	1329287	428980.4
Main River North Bank	1156	1337779.028	427963.0489	Main River North Bank	1203	1329129	428979.9
Main River North Bank	1157	1337679.194	428087.3776	Main River North Bank	1204	1328887	428991.4
Main River North Bank	1158	1337540.919	428214.6345	Main River North Bank	1205	1328628	428946.4
Main River North Bank	1159	1337431.811	428316.003	Main River North Bank	1206	1328220	428794.8
Main River North Bank	1160	1337315.015	428417.8684	Main River North Bank	1207	1328022	428708.6
Main River North Bank	1161	1337182.866	428520.7277	Main River North Bank	1208	1327808	428633.7
Main River North Bank	1162	1337034.326	428608.9452	Main River North Bank	1209	1327479	428562.2
Main River North Bank	1163	1336894.035	428704.479	Main River North Bank	1210	1327277	428537.2
Main River North Bank	1164	1336775.778	428783.3091	Main River North Bank	1211	1326998	428510.5

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Main River North Bank	1212	1326741.379	428472.0459	Main River North Bank	1259	1317450	426296.1
Main River North Bank	1213	1326637.062	428462.8714	Main River North Bank	1260	1317269	426273.4
Main River North Bank	1214	1326400.388	428442.5538	Main River North Bank	1261	1317067	426255.7
Main River North Bank	1215	1326219.486	428426.602	Main River North Bank	1262	1316895	426280.1
Main River North Bank	1216	1325883.828	428382.7795	Main River North Bank	1263	1316623	426277.2
Main River North Bank	1217	1325584.93	428333.3799	Main River North Bank	1264	1316408	426270.3
Main River North Bank	1218	1325431.882	428281.939	Main River North Bank	1265	1316272	426265.4
Main River North Bank	1219	1325241.721	428236.0958	Main River North Bank	1266	1316031	426264
Main River North Bank	1220	1325086.279	428201.2746	Main River North Bank	1267	1315868	426274.4
Main River North Bank	1221	1324932.434	428190.6388	Main River North Bank	1268	1315638	426238.2
Main River North Bank	1222	1324718.908	428203.8658	Main River North Bank	1269	1315334	426207.2
Main River North Bank	1223	1324576.045	428205.7179	Main River North Bank	1270	1314917	426159.2
Main River North Bank	1224	1324467.823	428212.42	Main River North Bank	1271	1314610	426135
Main River North Bank	1225	1324433.63	428214.5361	Main River North Bank	1272	1314402	426114.6
Main River North Bank	1226	1324208.496	428259.3389	Main River North Bank	1273	1313974	426087.8
Main River North Bank	1227	1324097.688	428283.0699	Main River North Bank	1274	1313643	426041
Main River North Bank	1228	1323957.541	428325.4918	Main River North Bank	1275	1313319	425993.8
Main River North Bank	1229	1323866.884	428344.6952	Main River North Bank	1276	1313155	425956.5
Main River North Bank	1230	1323818.846	428388.4262	Main River North Bank	1277	1312916	425883.5
Main River North Bank	1231	1323647.75	428426.2254	Main River North Bank	1278	1312481	425785.2
Main River North Bank	1232	1323553.495	428442.3799	Main River North Bank	1279	1312236	425739.6
Main River North Bank	1233	1323388.311	428418.4885	Main River North Bank	1280	1312037	425727.9
Main River North Bank	1234	1323246.436	428386.9731	Main River North Bank	1281	1311827	425703.3
Main River North Bank	1235	1323002.784	428313.6316	Main River North Bank	1282	1311627	425712.2
Main River North Bank	1236	1322873.462	428267.3455	Main River North Bank	1283	1311395	425756.6
Main River North Bank	1237	1322642.655	428136.0138	Main River North Bank	1284	1311275	425780.7
Main River North Bank	1238	1322513.252	428042.0138	Main River North Bank	1285	1311131	425799.5
Main River North Bank	1239	1322389.975	427937.771	Main River North Bank	1286	1311003	425830.9
Main River North Bank	1240	1322272.234	427816.334	Main River North Bank	1287	1310868	425876.3
Main River North Bank	1241	1322056.898	427568.5745	Main River North Bank	1288	1310727	425925.2
Main River North Bank	1242	1321974.305	427461.8724	Main River North Bank	1289	1310583	425970.6
Main River North Bank	1243	1321853.565	427347.2785	Main River North Bank	1290	1310562	425978.4
Main River North Bank	1244	1321567.586	427165.2789	Main River North Bank	1291	1310512	425995.7
Main River North Bank	1245	1321314.889	427021.5033	Main River North Bank	1292	1310228	426110.1
Main River North Bank	1246	1321038.065	426876.3537	Main River North Bank	1293	1310075	426157.5
Main River North Bank	1247	1320690.922	426751.9885	Main River North Bank	1294	1309933	426204.6
Main River North Bank	1248	1320325.483	426608.6014	Main River North Bank	1295	1309797	426224.2
Main River North Bank	1249	1319876.539	426439.9495	Main River North Bank	1296	1309647	426257.9
Main River North Bank	1250	1319576.897	426353.2608	Main River North Bank	1297	1309551	426254.7
Main River North Bank	1251	1319262.407	426295.0053	Main River North Bank	1298	1309272	426231.1
Main River North Bank	1252	1319087.129	426275.4364	Main River North Bank	1299	1309215	426217.2
Main River North Bank	1253	1318966.205	426252.1214	Main River North Bank	1300	1309053	426178.1
Main River North Bank	1254	1318785.146	426246.5049	Main River North Bank	1301	1308847	426128.2
Main River North Bank	1255	1318702.216	426252.4711	Main River North Bank	1302	1308365	426027
Main River North Bank	1256	1318418.959	426272.5354	Main River North Bank	1303	1307691	425796.1
Main River North Bank	1257	1318059.754	426298.6152	Main River North Bank	1304	1307401	425664.9
Main River North Bank	1258	1317563.583	426309.1184	Main River North Bank	1305	1307037	425487.7

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Main River North Bank	1306	1306847.297	425338.1162	Main River North Bank	1353	1300053	419060.9
Main River North Bank	1307	1306618.166	425142.8488	Main River North Bank	1354	1300009	418986.7
Main River North Bank	1308	1306443.01	424974.0318	Main River North Bank	1355	1299948	418893.8
Main River North Bank	1309	1306287.258	424844.4764	Main River North Bank	1356	1299854	418734.4
Main River North Bank	1310	1305882.875	424407.6516	Main River North Bank	1357	1299824	418688.4
Main River North Bank	1311	1305692.143	424243.5276	Main River North Bank	1358	1299797	418633.9
Main River North Bank	1312	1305488.727	424138.3025	Main River North Bank	1359	1299759	418583.1
Main River North Bank	1313	1305247.023	424021.6188	Main River North Bank	1360	1299723	418538.7
Main River North Bank	1314	1305213.729	423983.0991	Main River North Bank	1361	1299701	418497.9
Main River North Bank	1315	1304996.061	423827.9849	Main River North Bank	1362	1299624	418332.7
Main River North Bank	1316	1304769	423680.1995	Main River North Bank	1363	1299487	418131
Main River North Bank	1317	1304637.126	423584.1824	Main River North Bank	1364	1299328	417859.3
Main River North Bank	1318	1304531.206	423520.1805	Main River North Bank	1365	1299075	417565.7
Main River North Bank	1319	1304361.899	423365.6149	Main River North Bank	1366	1298906	417372.4
Main River North Bank	1320	1304238.222	423231.4311	Main River North Bank	1367	1298856	417279.5
Main River North Bank	1321	1303968.214	422917.815	Main River North Bank	1368	1298806	417227.8
Main River North Bank	1322	1303825.644	422744.7248	Main River North Bank	1369	1298798	417159.5
Main River North Bank	1323	1303624.484	422494.354	Main River North Bank	1370	1298741	416940.8
Main River North Bank	1324	1303440.186	422297.0551	Main River North Bank	1371	1298657	416660.7
Main River North Bank	1325	1303296.462	422154.4948	Main River North Bank	1372	1298568	416427
Main River North Bank	1326	1303057.153	421994.5889	Main River North Bank	1373	1298476	416156
Main River North Bank	1327	1302890.415	421918.0296	Main River North Bank	1374	1298388	415983.5
Main River North Bank	1328	1302643.297	421853.4656	Main River North Bank	1375	1298293	415693.3
Main River North Bank	1329	1302445.848	421772.0919	Main River North Bank	1376	1298273	415635.5
Main River North Bank	1330	1302286.515	421651.3212	Main River North Bank	1377	1298193	415447.4
Main River North Bank	1331	1302115.99	421510.8567	Main River North Bank	1378	1298109	415275.6
Main River North Bank	1332	1302004.251	421393.4767	Main River North Bank	1379	1298001	415105.1
Main River North Bank	1333	1301881.227	421256.3967	Main River North Bank	1380	1297863	414917.2
Main River North Bank	1334	1301751.361	421116.521	Main River North Bank	1381	1297742	414728.4
Main River North Bank	1335	1301618.976	420990.7379	Main River North Bank	1382	1297648	414593.2
Main River North Bank	1336	1301542.571	420897.5975	Main River North Bank	1383	1297615	414287.4
Main River North Bank	1337	1301424.23	420780.6506	Main River North Bank	1384	1297605	414188.5
Main River North Bank	1338	1301306.328	420670.6119	Main River North Bank	1385	1297562	414066.1
Main River North Bank	1339	1301180.02	420530.3435	Main River North Bank	1386	1297506	413866.7
Main River North Bank	1340	1301042.372	420367.3613	Main River North Bank	1387	1297453	413724.7
Main River North Bank	1341	1300955.702	420268.128	Main River North Bank	1388	1297362	413515.1
Main River North Bank	1342	1300886.803	420184.8714	Main River North Bank	1389	1297291	413386.3
Main River North Bank	1343	1300813.822	420091.5574	Main River North Bank	1390	1297176	413211
Main River North Bank	1344	1300729.682	419981.6844	Main River North Bank	1391	1297069	413022.8
Main River North Bank	1345	1300620.484	419849.9958	Main River North Bank	1392	1296958	412855.7
Main River North Bank	1346	1300540.96	419742.5745	Main River North Bank	1393	1296857	412692.1
Main River North Bank	1347	1300531.941	419730.4187	Main River North Bank	1394	1296709	412502
Main River North Bank	1348	1300391.697	419549.5532	Main River North Bank	1395	1296526	412211.6
Main River North Bank	1349	1300310.569	419449.9006	Main River North Bank	1396	1296366	411981
Main River North Bank	1350	1300255.403	419338.1864	Main River North Bank	1397	1296258	411726
Main River North Bank	1351	1300163.364	419235.4863	Main River North Bank	1398	1296199	411574.4
Main River North Bank	1352	1300098.196	419133.4347	Main River North Bank	1399	1296141	411490.4

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Main River North Bank	1400	1296106.387	411404.7291	Main River North Bank	1447	1300009	406113.5
Main River North Bank	1401	1296036.074	411312.6116	Main River North Bank	1448	1300232	405836.2
Main River North Bank	1402	1295863.178	411137.898	Main River North Bank	1449	1300363	405661.3
Main River North Bank	1403	1295729.358	411033.4013	Main River North Bank	1450	1300495	405449.8
Main River North Bank	1404	1295625.833	410930.8114	Main River North Bank	1451	1300625	405197.7
Main River North Bank	1405	1295514.054	410829.153	Main River North Bank	1452	1300776	404968.6
Main River North Bank	1406	1295441.72	410757.5024	Main River North Bank	1453	1300878	404783.1
Main River North Bank	1407	1295331.279	410599.735	Main River North Bank	1454	1300999	404645.3
Main River North Bank	1408	1295253.379	410185.0404	Main River North Bank	1455	1301114	404520.4
Main River North Bank	1409	1295237.101	410074.0408	Main River North Bank	1456	1301221	404403.8
Main River North Bank	1410	1295227.608	409942.7419	Main River North Bank	1457	1301300	404292.7
Main River North Bank	1411	1295199.836	409760.3469	Main River North Bank	1458	1301379	404170.1
Main River North Bank	1412	1295180.613	409601.9187	Main River North Bank	1459	1301455	404002.7
Main River North Bank	1413	1295168.877	409367.0913	Main River North Bank	1460	1301491	403895.1
Main River North Bank	1414	1295189.693	409170.5529	Main River North Bank	1461	1301521	403767.3
Main River North Bank	1415	1295201.564	409042.1956	Main River North Bank	1462	1301541	403656.7
Main River North Bank	1416	1295244.615	408861.4164	Main River North Bank	1463	1301536	403539.8
Main River North Bank	1417	1295285.051	408708.3852	Main River North Bank	1464	1301527	403410.9
Main River North Bank	1418	1295328.6	408551.1687	Main River North Bank	1465	1301541	403324.6
Main River North Bank	1419	1295378.795	408433.276	Main River North Bank	1466	1301565	403217.8
Main River North Bank	1420	1295451.254	408346.152	Main River North Bank	1467	1301593	403114.9
Main River North Bank	1421	1295471.204	408326.8895	Main River North Bank	1468	1301598	402960.6
Main River North Bank	1422	1295622.364	408181.8652	Main River North Bank	1469	1301585	402827.6
Main River North Bank	1423	1295723.307	408064.545	Main River North Bank	1470	1301563	402691.1
Main River North Bank	1424	1295932.159	407841.3134	Main River North Bank	1471	1301547	402582.6
Main River North Bank	1425	1296098.301	407700.09	Main River North Bank	1472	1301515	402475.1
Main River North Bank	1426	1296234.519	407596.3203	Main River North Bank	1473	1301456	402361.1
Main River North Bank	1427	1296339.437	407510.5568	Main River North Bank	1474	1301397	402267.6
Main River North Bank	1428	1296528.26	407391.9417	Main River North Bank	1475	1301219	402051.5
Main River North Bank	1429	1296678.978	407327.8134	Main River North Bank	1476	1301099	401941.1
Main River North Bank	1430	1296891.788	407244.153	Main River North Bank	1477	1300985	401846.9
Main River North Bank	1431	1297068.951	407178.8082	Main River North Bank	1478	1300856	401761.6
Main River North Bank	1432	1297436.101	407116.6641	Main River North Bank	1479	1300712	401645
Main River North Bank	1433	1297638.149	407102.2832	Main River North Bank	1480	1300621	401545.3
Main River North Bank	1434	1297848.708	407091.4387	Main River North Bank	1481	1300542	401444.5
Main River North Bank	1435	1298011.304	407070.6845	Main River North Bank	1482	1300473	401323.1
Main River North Bank	1436	1298246.43	407046.4696	Main River North Bank	1483	1300399	401234.4
Main River North Bank	1437	1298470.941	407030.544	Main River North Bank	1484	1300374	401163.2
Main River North Bank	1438	1298743.752	407000.1412	Main River North Bank	1485	1300322	401101.2
Main River North Bank	1439	1298914.824	406962.7855	Main River North Bank	1486	1300200	400963
Main River North Bank	1440	1299058.887	406882.3416	Main River North Bank	1487	1300098	400819.4
Main River North Bank	1441	1299217.725	406789.0995	Main River North Bank	1488	1299966	400641
Main River North Bank	1442	1299390.29	406670.6874	Main River North Bank	1489	1299884	400561
Main River North Bank	1443	1299499.014	406563.779	Main River North Bank	1490	1299783	400417.4
Main River North Bank	1444	1299618.384	406443.7865	Main River North Bank	1491	1299677	400278.1
Main River North Bank	1445	1299788.492	406312.5657	Main River North Bank	1492	1299569	400167.2
Main River North Bank	1446	1299893.089	406213.6779	Main River North Bank	1493	1299459	400072.8

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Main River North Bank	1494	1299312.058	399981.1694	Main River North Bank	1541	1292195	400091.6
Main River North Bank	1495	1299174.12	399900.989	Main River North Bank	1542	1291995	400051.4
Main River North Bank	1496	1299046.108	399848.6668	Main River North Bank	1543	1291819	400021.8
Main River North Bank	1497	1298919.104	399812.3607	Main River North Bank	1544	1291647	399971.2
Main River North Bank	1498	1298818.927	399754.0224	Main River North Bank	1545	1291466	399913.1
Main River North Bank	1499	1298670.031	399686.3994	Main River North Bank	1546	1291230	399777.8
Main River North Bank	1500	1298510.548	399575.1687	Main River North Bank	1547	1291013	399638.4
Main River North Bank	1501	1298423.569	399531.942	Main River North Bank	1548	1290811	399502.5
Main River North Bank	1502	1298333.309	399501.2721	Main River North Bank	1549	1290686	399409.9
Main River North Bank	1503	1298195.934	399489.5772	Main River North Bank	1550	1290542	399338.9
Main River North Bank	1504	1298036.378	399442.3905	Main River North Bank	1551	1290408	399287.9
Main River North Bank	1505	1297857.308	399404.4955	Main River North Bank	1552	1290290	399231.5
Main River North Bank	1506	1297718.555	399368.1684	Main River North Bank	1553	1290129	399145.8
Main River North Bank	1507	1297560.87	399353.0664	Main River North Bank	1554	1290025	399084.4
Main River North Bank	1508	1297438.86	399327.9302	Main River North Bank	1555	1289910	399024.5
Main River North Bank	1509	1297293.211	399311.9247	Main River North Bank	1556	1289864	398973.1
Main River North Bank	1510	1297188.7	399313.755	Main River North Bank	1557	1289815	398917.4
Main River North Bank	1511	1296934.283	399291.8088	Main River North Bank	1558	1289577	398703.3
Main River North Bank	1512	1296728.296	399266.5779	Main River North Bank	1559	1289463	398582.6
Main River North Bank	1513	1296648.349	399271.0037	Main River North Bank	1560	1289384	398447.4
Main River North Bank	1514	1296484.125	399272.1766	Main River North Bank	1561	1289327	398367.5
Main River North Bank	1515	1296307.459	399261.5365	Main River North Bank	1562	1289297	398232.3
Main River North Bank	1516	1296135.025	399250.5641	Main River North Bank	1563	1289250	398073.7
Main River North Bank	1517	1295975.531	399259.0861	Main River North Bank	1564	1289174	397746.7
Main River North Bank	1518	1295785.276	399289.4483	Main River North Bank	1565	1289116	397593.2
Main River North Bank	1519	1295658.248	399304.0375	Main River North Bank	1566	1289012	397468.2
Main River North Bank	1520	1295460.688	399342.9693	Main River North Bank	1567	1288932	397389.8
Main River North Bank	1521	1295286.538	399364.4643	Main River North Bank	1568	1288848	397214.1
Main River North Bank	1522	1295134.513	399428.8866	Main River North Bank	1569	1288786	397074.5
Main River North Bank	1523	1294915.241	399488.755	Main River North Bank	1570	1288672	396730.2
Main River North Bank	1524	1294782.082	399515.6048	Main River North Bank	1571	1288558	396420.4
Main River North Bank	1525	1294618.796	399564.1153	Main River North Bank	1572	1288263	396033.4
Main River North Bank	1526	1294479.67	399615.5782	Main River North Bank	1573	1288120	395816.3
Main River North Bank	1527	1294367.937	399661.8781	Main River North Bank	1574	1287984	395678.3
Main River North Bank	1528	1294229.265	399718.3863	Main River North Bank	1575	1287665	395257.5
Main River North Bank	1529	1294118.211	399777.9666	Main River North Bank	1576	1287516	394960.3
Main River North Bank	1530	1294003.653	399845.7632	Main River North Bank	1577	1287429	394704.1
Main River North Bank	1531	1293907.411	399892.2258	Main River North Bank	1578	1287362	394424.3
Main River North Bank	1532	1293850.198	399907.3515	Main River North Bank	1579	1287262	394158
Main River North Bank	1533	1293727.467	399939.9056	Main River North Bank	1580	1287212	394084.7
Main River North Bank	1534	1293605.229	399968.0766	Main River North Bank	1581	1287094	393907.8
Main River North Bank	1535	1293225.062	400039.006	Main River North Bank	1582	1286812	393654.3
Main River North Bank	1536	1292991.365	400056.4181	Main River North Bank	1583	1286514	393493
Main River North Bank	1537	1292794.572	400087.7741	Main River North Bank	1584	1286114	393179
Main River North Bank	1538	1292613.204	400084.3341	Main River North Bank	1585	1285753	392942
Main River North Bank	1539	1292463.052	400091.0264	Main River North Bank	1586	1285427	392702.2
Main River North Bank	1540	1292316.954	400092.088	Main River North Bank	1587	1285090	392474.3

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Main River North Bank	1588	1284803.432	392300.2843	Main River North Bank	1635	1273556	391830.5
Main River North Bank	1589	1284559.735	392247.406	Main River North Bank	1636	1273526	391918.8
Main River North Bank	1590	1284242.036	392278.7298	Main River North Bank	1637	1273459	392056.2
Main River North Bank	1591	1283983.384	392340.1488	Main River North Bank	1638	1273396	392146.7
Main River North Bank	1592	1283726.132	392424.0822	Main River North Bank	1639	1273239	392134.1
Main River North Bank	1593	1283471.885	392553.5195	Main River North Bank	1640	1273084	392134.5
Main River North Bank	1594	1283182.394	392673.9955	Main River North Bank	1641	1272973	392213.4
Main River North Bank	1595	1283024.289	392706.3646	Main River North Bank	1642	1272909	392404.1
Main River North Bank	1596	1282670.029	392716.3791	Main River North Bank	1643	1272879	392600
Main River North Bank	1597	1282370.647	392689.0933	Main River North Bank	1644	1272993	392689.1
Main River North Bank	1598	1281956.75	392657.0326	Main River North Bank	1645	1273120	392663.3
Main River North Bank	1599	1281590.187	392644.7026	Main River North Bank	1646	1273454	392587.4
Main River North Bank	1600	1281233.454	392597.8955	Main River North Bank	1647	1273640	392531.2
Main River North Bank	1601	1280836.055	392621.6724	Main River North Bank	1648	1273651	392733
Main River North Bank	1602	1280575.558	392637.34	Main River North Bank	1649	1273638	393098
Main River North Bank	1603	1280414.058	392628.0831	Main River North Bank	1650	1273611	393349.6
Main River North Bank	1604	1280188.74	392614.7911	Main River North Bank	1651	1273577	393575
Main River North Bank	1605	1279709.87	392563.693	Main River North Bank	1652	1273504	393829.2
Main River North Bank	1606	1279421.934	392478.3961	Main River North Bank	1653	1273463	394054.7
Main River North Bank	1607	1279099.357	392383.3912	Main River North Bank	1654	1273362	394303.4
Main River North Bank	1608	1278882.957	392299.8545	Main River North Bank	1655	1273294	394503.3
Main River North Bank	1609	1278738.62	392241.0005	Main River North Bank	1656	1273169	394848.9
Main River North Bank	1610	1278472.524	392168.5848	Main River North Bank	1657	1273069	395044.1
Main River North Bank	1611	1278272.674	392073.0999	Main River North Bank	1658	1272938	395329.9
Main River North Bank	1612	1278011.926	391955.5352	Main River North Bank	1659	1272773	395576.3
Main River North Bank	1613	1277745.283	391852.4732	Main River North Bank	1660	1272624	395767.9
Main River North Bank	1614	1277450.338	391713.281	Main River North Bank	1661	1272503	395965.7
Main River North Bank	1615	1277246.939	391661.5913	Main River North Bank	1662	1272294	396223.4
Main River North Bank	1616	1277062.011	391574.6766	Main River North Bank	1663	1272148	396438.1
Main River North Bank	1617	1276870.193	391482.1192	Main River North Bank	1664	1272049	396666.7
Main River North Bank	1618	1276651.513	391384.5585	Main River North Bank	1665	1271853	396940
Main River North Bank	1619	1276453.466	391298.8912	Main River North Bank	1666	1271622	397215.8
Main River North Bank	1620	1276195.391	391224.1064	Main River North Bank	1667	1271393	397465.7
Main River North Bank	1621	1275895.665	391125.4332	Main River North Bank	1668	1271070	397829.5
Main River North Bank	1622	1275487.534	391006.6078	Main River North Bank	1669	1270778	398021.1
Main River North Bank	1623	1275152.413	390875.0185	Main River North Bank	1670	1270588	398157
Main River North Bank	1624	1274865.505	390779.6101	Main River North Bank	1671	1270398	398268.3
Main River North Bank	1625	1274605.509	390688.5395	Main River North Bank	1672	1270156	398373.5
Main River North Bank	1626	1274400.694	390627.7288	Main River North Bank	1673	1270031	398438.8
Main River North Bank	1627	1274188.492	390553.2364	Main River North Bank	1674	1270014	398447.5
Main River North Bank	1628	1273901.121	390456.3538	Main River North Bank	1675	1269964	398484.1
Main River North Bank	1629	1273750.193	390398.448	Main River North Bank	1676	1269862	398543.6
Main River North Bank	1630	1273701.402	390534.4844	Main River North Bank	1677	1269796	398645.2
Main River North Bank	1631	1273630.52	390791.487	Main River North Bank	1678	1269668	398763.3
Main River North Bank	1632	1273568.744	391094.5015	Main River North Bank	1679	1269476	398928.6
Main River North Bank	1633	1273534.618	391390.2495	Main River North Bank	1680	1269356	399033.7
Main River North Bank	1634	1273520.151	391658.3574	Main River North Bank	1681	1269189	399142.1

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Main River North Bank	1682	1268983.762	399245.1277	Main River North Bank	1729	1262616	396130.5
Main River North Bank	1683	1268833.932	399265.945	Main River North Bank	1730	1262658	396065.3
Main River North Bank	1684	1268655.383	399279.9798	Main River North Bank	1731	1262745	395939.5
Main River North Bank	1685	1268522.894	399306.1015	Main River North Bank	1732	1262824	395849.5
Main River North Bank	1686	1268378.619	399326.9998	Main River North Bank	1733	1262860	395805.1
Main River North Bank	1687	1268124.822	399378.6707	Main River North Bank	1734	1262919	395751
Main River North Bank	1688	1267787.403	399428.029	Main River North Bank	1735	1262985	395676.9
Main River North Bank	1689	1267516.976	399458.9473	Main River North Bank	1736	1263062	395613.1
Main River North Bank	1690	1267206.594	399482.0201	Main River North Bank	1737	1263157	395532.7
Main River North Bank	1691	1266896.265	399521.9808	Main River North Bank	1738	1263257	395453.4
Main River North Bank	1692	1266692.432	399527.7636	Main River North Bank	1739	1263351	395390.6
Main River North Bank	1693	1266471.285	399544.8928	Main River North Bank	1740	1263519	395267.4
Main River North Bank	1694	1266255.483	399538.4896	Main River North Bank	1741	1263651	395174
Main River North Bank	1695	1266016.624	399508.7252	Main River North Bank	1742	1263793	395096.7
Main River North Bank	1696	1265831.913	399465.5434	Main River North Bank	1743	1263986	394977.1
Main River North Bank	1697	1265657.934	399423.4985	Main River North Bank	1744	1264133	394893.4
Main River North Bank	1698	1265506.017	399362.8886	Main River North Bank	1745	1264283	394836.9
Main River North Bank	1699	1265241.709	399314.2862	Main River North Bank	1746	1264494	394735.2
Main River North Bank	1700	1265070.101	399250.0867	Main River North Bank	1747	1264578	394676.9
Main River North Bank	1701	1264881.905	399198.1248	Main River North Bank	1748	1264706	394617.2
Main River North Bank	1702	1264691.572	399147.7826	Main River North Bank	1749	1264856	394528
Main River North Bank	1703	1264402.667	399026.5559	Main River North Bank	1750	1265109	394384.7
Main River North Bank	1704	1264204.141	398946.7931	Main River North Bank	1751	1265246	394347.3
Main River North Bank	1705	1264036.34	398892.8167	Main River North Bank	1752	1265419	394290.5
Main River North Bank	1706	1263746.428	398762.8177	Main River North Bank	1753	1265550	394238.3
Main River North Bank	1707	1263588.343	398665.3092	Main River North Bank	1754	1265810	394151.1
Main River North Bank	1708	1263474.771	398577.905	Main River North Bank	1755	1265979	394109.4
Main River North Bank	1709	1263333.065	398494.3088	Main River North Bank	1756	1266079	394064
Main River North Bank	1710	1263182.947	398429.7711	Main River North Bank	1757	1266254	394027.8
Main River North Bank	1711	1263058.321	398360.7383	Main River North Bank	1758	1266381	393992.7
Main River North Bank	1712	1262914.811	398311.0464	Main River North Bank	1759	1266497	393960.2
Main River North Bank	1713	1262790.909	398217.031	Main River North Bank	1760	1266639	393930.8
Main River North Bank	1714	1262666.827	398059.1205	Main River North Bank	1761	1266826	393901.1
Main River North Bank	1715	1262576.786	397965.486	Main River North Bank	1762	1266997	393871.6
Main River North Bank	1716	1262475.681	397846.6497	Main River North Bank	1763	1267145	393839.8
Main River North Bank	1717	1262388.082	397736.9965	Main River North Bank	1764	1267329	393798.4
Main River North Bank	1718	1262359.116	397594.6494	Main River North Bank	1765	1267495	393742.6
Main River North Bank	1719	1262350.778	397479.3262	Main River North Bank	1766	1267629	393691.5
Main River North Bank	1720	1262335.851	397369.1297	Main River North Bank	1767	1267743	393633
Main River North Bank	1721	1262327.945	397103.9962	Main River North Bank	1768	1267867	393569.9
Main River North Bank	1722	1262338.269	396996.4962	Main River North Bank	1769	1267957	393521.1
Main River North Bank	1723	1262336.354	396898.156	Main River North Bank	1770	1268055	393455.8
Main River North Bank	1724	1262365.425	396841.8551	Main River North Bank	1771	1268161	393390.5
Main River North Bank	1725	1262386.835	396717.0821	Main River North Bank	1772	1268250	393321
Main River North Bank	1726	1262429.475	396573.9614	Main River North Bank	1773	1268433	393205.8
Main River North Bank	1727	1262493.193	396381.071	Main River North Bank	1774	1268535	393142.9
Main River North Bank	1728	1262544.25	396254.3213	Main River North Bank	1775	1268628	393083.5

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Main River North Bank	1776	1268702.805	393035.8348	Main River North Bank	1823	1265487	395215.6
Main River North Bank	1777	1268816.042	392965.092	Main River North Bank	1824	1265358	395339.4
Main River North Bank	1778	1268898.05	392901.1901	Main River North Bank	1825	1265167	395502.1
Main River North Bank	1779	1268979.483	392829.36	Main River North Bank	1826	1265037	395624.5
Main River North Bank	1780	1269081.908	392764.9034	Main River North Bank	1827	1264812	395801.6
Main River North Bank	1781	1269195.178	392689.2761	Main River North Bank	1828	1264678	395962.1
Main River North Bank	1782	1269283.542	392628.4982	Main River North Bank	1829	1264561	396139.9
Main River North Bank	1783	1269374.283	392559.2603	Main River North Bank	1830	1264487	396288.8
Main River North Bank	1784	1269430.28	392532.5172	Main River North Bank	1831	1264419	396408.1
Main River North Bank	1785	1269480.02	392497.9568	Main River North Bank	1832	1264374	396473.2
Main River North Bank	1786	1269513.362	392477.7314	Main River North Bank	1833	1264292	396576.8
Main River North Bank	1787	1269555.105	392453.9575	Main River North Bank	1834	1264220	396695.7
Main River North Bank	1788	1269588.616	392436.5448	Main River North Bank	1835	1264155	396813.2
Main River North Bank	1789	1269620.235	392435.3203	Main River North Bank	1836	1264067	396955.3
Main River North Bank	1790	1269640.511	392437.36	Main River North Bank	1837	1263976	397192.8
Main River North Bank	1791	1269667.003	392447.2213	Main River North Bank	1838	1263941	397306.1
Main River North Bank	1792	1269691.305	392468.0638	Main River North Bank	1839	1263900	397434
Main River North Bank	1793	1269710.582	392500.0064	Main River North Bank	1840	1263887	397616.4
Main River North Bank	1794	1269712.844	392535.4394	Main River North Bank	1841	1263899	397845.1
Main River North Bank	1795	1269710.13	392581.9801	Main River North Bank	1842	1263925	398002.5
Main River North Bank	1796	1269677.72	392657.1324	Main River North Bank	1843	1264054	398156.2
Main River North Bank	1797	1269610.384	392766.361	Main River North Bank	1844	1264109	398182
Main River North Bank	1798	1269524.464	392854.4765	Main River North Bank	1845	1264220	398228.8
Main River North Bank	1799	1269478.3	392932.7134	Main River North Bank	1846	1264441	398305.9
Main River North Bank	1800	1269370.529	393032.8394	Main River North Bank	1847	1264550	398315.3
Main River North Bank	1801	1269317.221	393090.049	Main River North Bank	1848	1264689	398317.5
Main River North Bank	1802	1269189.186	393224.1556	Main River North Bank	1849	1264840	398335.4
Main River North Bank	1803	1269087.527	393324.5723	Main River North Bank	1850	1265052	398371.3
Main River North Bank	1804	1268955.827	393442.7761	Main River North Bank	1851	1265388	398430.7
Main River North Bank	1805	1268763.216	393583.7672	Main River North Bank	1852	1265637	398449
Main River North Bank	1806	1268519.763	393720.4995	Main River North Bank	1853	1265841	398491.9
Main River North Bank	1807	1268389.234	393827.0343	Main River North Bank	1854	1266039	398488.1
Main River North Bank	1808	1268258.321	393901.3515	Main River North Bank	1855	1266257	398516.2
Main River North Bank	1809	1268121.734	394011.9237	Main River North Bank	1856	1266543	398576.9
Main River North Bank	1810	1267962.971	394105.7058	Main River North Bank	1857	1266661	398599.1
Main River North Bank	1811	1267792.823	394207.7997	Main River North Bank	1858	1266889	398610.1
Main River North Bank	1812	1267597.468	394323.1999	Main River North Bank	1859	1266985	398625.3
Main River North Bank	1813	1267265.906	394475.9837	Main River North Bank	1860	1267121	398644.3
Main River North Bank	1814	1267039.522	394544.3302	Main River North Bank	1861	1267170	398614.2
Main River North Bank	1815	1266754.801	394643.9217	Main River North Bank	1862	1267236	398558.8
Main River North Bank	1816	1266553.278	394761.2137	Main River North Bank	1863	1267295	398498
Main River North Bank	1817	1266321.065	394848.6123	Main River North Bank	1864	1267345	398449.5
Main River North Bank	1818	1266118.262	394926.1159	Main River North Bank	1865	1267430	398412.4
Main River North Bank	1819	1265974.795	394980.8282	Main River North Bank	1866	1267540	398389.1
Main River North Bank	1820	1265840.095	395017.9165	Main River North Bank	1867	1267732	398387.1
Main River North Bank	1821	1265740.979	395067.5805	Main River North Bank	1868	1268048	398382
Main River North Bank	1822	1265597.863	395147.8089	Main River North Bank	1869	1268346	398362.6

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Main River North Bank	1870	1268492.238	398359.51	Main River North Bank	1917	1272251	394065.5
Main River North Bank	1871	1268578.581	398352.7806	Main River North Bank	1918	1272326	393784.3
Main River North Bank	1872	1268649.028	398329.089	Main River North Bank	1919	1272412	393445.5
Main River North Bank	1873	1268734.165	398283.651	Main River North Bank	1920	1272492	393107.7
Main River North Bank	1874	1268810.936	398235.9243	Main River North Bank	1921	1272519	392843.2
Main River North Bank	1875	1268896.559	398187.359	Main River North Bank	1922	1272511	392701.2
Main River North Bank	1876	1268972.864	398157.3784	Main River North Bank	1923	1272416	392556.4
Main River North Bank	1877	1269152.612	398081.5946	Main River North Bank	1924	1272488	392439.4
Main River North Bank	1878	1269255.678	398066.0372	Main River North Bank	1925	1272632	392568.5
Main River North Bank	1879	1269349.688	398041.9985	Main River North Bank	1926	1272782	392661.4
Main River North Bank	1880	1269464.994	397999.1855	Main River North Bank	1927	1272839	392655.2
Main River North Bank	1881	1269587.199	397929.2399	Main River North Bank	1928	1272856	392640.5
Main River North Bank	1882	1269665.124	397866.8951	Main River North Bank	1929	1272850	392610
Main River North Bank	1883	1269750.298	397827.8791	Main River North Bank	1930	1272832	392563.5
Main River North Bank	1884	1269831.894	397771.5103	Main River North Bank	1931	1272816	392554.8
Main River North Bank	1885	1269913.411	397708.1914	Main River North Bank	1932	1272791	392377.8
Main River North Bank	1886	1269984.634	397660.6815	Main River North Bank	1933	1272821	392299
Main River North Bank	1887	1270047.275	397607.1064	Main River North Bank	1934	1272853	392232.8
Main River North Bank	1888	1270210.57	397477.7856	Main River North Bank	1935	1272889	392175.9
Main River North Bank	1889	1270303.009	397403.051	Main River North Bank	1936	1272920	392123.7
Main River North Bank	1890	1270375.807	397337.6638	Main River North Bank	1937	1272955	392084
Main River North Bank	1891	1270451.898	397282.1812	Main River North Bank	1938	1273024	392035.7
Main River North Bank	1892	1270528.013	397226.4886	Main River North Bank	1939	1273073	392016.6
Main River North Bank	1893	1270626.224	397135.026	Main River North Bank	1940	1273126	392006.8
Main River North Bank	1894	1270716.717	397073.4873	Main River North Bank	1941	1273182	392016.8
Main River North Bank	1895	1270806.105	396974.4873	Main River North Bank	1942	1273234	392027
Main River North Bank	1896	1270892.916	396887.7406	Main River North Bank	1943	1273281	392034.9
Main River North Bank	1897	1270964.534	396783.7941	Main River North Bank	1944	1273313	392019
Main River North Bank	1898	1271025.6	396718.1599	Main River North Bank	1945	1273342	391996.3
Main River North Bank	1899	1271071.394	396638.2212	Main River North Bank	1946	1273364	391954.7
Main River North Bank	1900	1271131.097	396554.9158	Main River North Bank	1947	1273386	391908.2
Main River North Bank	1901	1271195.502	396477.7213	Main River North Bank	1948	1273404	391842.6
Main River North Bank	1902	1271255.191	396392.1645	Main River North Bank	1949	1273415	391795.4
Main River North Bank	1903	1271306.77	396286.4211	Main River North Bank	1950	1273428	391739.9
Main River North Bank	1904	1271365.312	396172.3522	Main River North Bank	1951	1273430	391697.7
Main River North Bank	1905	1271419.245	396076.1852	Main River North Bank	1952	1273431	391660.8
Main River North Bank	1906	1271500.424	395973.6589	Main River North Bank	1953	1273431	391612.9
Main River North Bank	1907	1271543.235	395855.3013	Main River North Bank	1954	1273430	391576.2
Main River North Bank	1908	1271596.828	395765.2114	Main River North Bank	1955	1273427	391514.7
Main River North Bank	1909	1271630.463	395672.7875	Main River North Bank	1956	1273424	391456.8
Main River North Bank	1910	1271688.764	395543.2245	Main River North Bank	1957	1273436	391401.5
Main River North Bank	1911	1271802.022	395306.55	Main River North Bank	1958	1273438	391353.6
Main River North Bank	1912	1271852.823	395180.6763	Main River North Bank	1959	1273450	391212.5
Main River North Bank	1913	1271922.439	395042.7537	Main River North Bank	1960	1273468	391077.8
Main River North Bank	1914	1271972.95	394879.7373	Main River North Bank	1961	1273471	391009.1
Main River North Bank	1915	1272067.906	394624.6399	Main River North Bank	1962	1273488	390942.2
Main River North Bank	1916	1272198.231	394347.0346	Main River North Bank	1963	1273503	390870.9

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Main River North Bank	1964	1273520.24	390815.3791	Main River North Bank	2011	1262419	388092
Main River North Bank	1965	1273552.687	390701.1776	Main River North Bank	2012	1261979	388192.2
Main River North Bank	1966	1273591.167	390592.7423	Main River North Bank	2013	1261700	388261
Main River North Bank	1967	1273589.682	390554.9381	Main River North Bank	2014	1261465	388312.7
Main River North Bank	1968	1273590.555	390504.3748	Main River North Bank	2015	1261280	388346.7
Main River North Bank	1969	1273609.01	390465.465	Main River North Bank	2016	1261151	388358.6
Main River North Bank	1970	1273621.901	390430.9303	Main River North Bank	2017	1260812	388442.9
Main River North Bank	1971	1273636.198	390357.1954	Main River North Bank	2018	1260624	388480.7
Main River North Bank	1972	1273510.007	390336.1652	Main River North Bank	2019	1260393	388558.9
Main River North Bank	1973	1273471.215	390366.4217	Main River North Bank	2020	1260201	388661
Main River North Bank	1974	1273401.616	390373.1265	Main River North Bank	2021	1259836	388803.1
Main River North Bank	1975	1273313.374	390340.1501	Main River North Bank	2022	1259656	388918.6
Main River North Bank	1976	1273191.06	390311.8863	Main River North Bank	2023	1259313	389140.3
Main River North Bank	1977	1273136.31	390297.8036	Main River North Bank	2024	1259291	389153.3
Main River North Bank	1978	1272944.879	390244.8312	Main River North Bank	2025	1259114	389253.5
Main River North Bank	1979	1272730.887	390171.1379	Main River North Bank	2026	1258894	389411.1
Main River North Bank	1980	1272427.623	390032.5143	Main River North Bank	2027	1258650	389580.8
Main River North Bank	1981	1271989.701	389834.8584	Main River North Bank	2028	1258393	389683.4
Main River North Bank	1982	1271663.739	389716.3702	Main River North Bank	2029	1258182	389854.7
Main River North Bank	1983	1271164.818	389559.0451	Main River North Bank	2030	1258043	389988.4
Main River North Bank	1984	1270642.676	389457.7429	Main River North Bank	2031	1257902	390092.3
Main River North Bank	1985	1270296.296	389380.8272	Main River North Bank	2032	1257736	390179.5
Main River North Bank	1986	1269833.463	389237.0677	Main River North Bank	2033	1257539	390275.4
Main River North Bank	1987	1269480.663	389026.6747	Main River North Bank	2034	1257443	390336
Main River North Bank	1988	1269344.04	388852.1553	Main River North Bank	2035	1257294	390481.7
Main River North Bank	1989	1269142.689	388731.8814	Main River North Bank	2036	1256723	390861.5
Main River North Bank	1990	1268879.49	388611.6314	Main River North Bank	2037	1256545	390954.4
Main River North Bank	1991	1268662.994	388535.5166	Main River North Bank	2038	1256325	391117.7
Main River North Bank	1992	1268354.112	388413.4706	Main River North Bank	2039	1256158	391229.6
Main River North Bank	1993	1267852.945	388285.9559	Main River North Bank	2040	1255991	391296.8
Main River North Bank	1994	1267408.514	388154.2813	Main River North Bank	2041	1255778	391389.3
Main River North Bank	1995	1267118.219	388145.3932	Main River North Bank	2042	1255611	391448.8
Main River North Bank	1996	1266772.508	388155.5917	Main River North Bank	2043	1255400	391522.8
Main River North Bank	1997	1266381.233	388197.6908	Main River North Bank	2044	1255216	391549.9
Main River North Bank	1998	1266204.462	388184.5625	Main River North Bank	2045	1254974	391603.5
Main River North Bank	1999	1265988.353	388160.0897	Main River North Bank	2046	1254793	391626.7
Main River North Bank	2000	1265792.929	388116.9293	Main River North Bank	2047	1254585	391644.4
Main River North Bank	2001	1265603.532	388085.3361	Main River North Bank	2048	1254533	391651.6
Main River North Bank	2002	1265339.568	388017.4729	Main River North Bank	2049	1254285	391676.2
Main River North Bank	2003	1265020.652	388005.5983	Main River North Bank	2050	1254111	391706.4
Main River North Bank	2004	1264755.054	387966.7164	Main River North Bank	2051	1253846	391720.8
Main River North Bank	2005	1264465.867	387976.7259	Main River North Bank	2052	1253421	391772.1
Main River North Bank	2006	1264298.966	387949.6649	Main River North Bank	2053	1253195	391768.4
Main River North Bank	2007	1264056.949	387956.6504	Main River North Bank	2054	1252932	391800.6
Main River North Bank	2008	1263904.269	387972.9467	Main River North Bank	2055	1252749	391789.3
Main River North Bank	2009	1263415.524	387983.1619	Main River North Bank	2056	1252431	391782.2
Main River North Bank	2010	1262941.533	388032.3489	Main River North Bank	2057	1252030	391805.6

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Main River North Bank	2058	1251654.772	391823.78	Main River North Bank	2105	1243097	387407.1
Main River North Bank	2059	1251420.674	391820.8561	Main River North Bank	2106	1242821	387018.4
Main River North Bank	2060	1251234.645	391804.0936	Main River North Bank	2107	1242417	386440.3
Main River North Bank	2061	1251053.321	391805.0356	Main River North Bank	2108	1242152	386091.4
Main River North Bank	2062	1250858.991	391781.1983	Main River North Bank	2109	1241800	385571.4
Main River North Bank	2063	1250714.089	391709.6924	Main River North Bank	2110	1241559	385311.1
Main River North Bank	2064	1250525.768	391674.819	Main River North Bank	2111	1241445	385203
Main River North Bank	2065	1250333.38	391640.3256	Main River North Bank	2112	1241154	384925.2
Main River North Bank	2066	1250066.082	391566.4818	Main River North Bank	2113	1240882	384609.6
Main River North Bank	2067	1249908.598	391481.6543	Main River North Bank	2114	1240550	384280.1
Main River North Bank	2068	1249718.609	391361.6898	Main River North Bank	2115	1240459	384200
Main River North Bank	2069	1249552.802	391258.6849	Main River North Bank	2116	1240323	384080.4
Main River North Bank	2070	1249421.173	391149.5333	Main River North Bank	2117	1240147	384007.8
Main River North Bank	2071	1249187.301	391032.7554	Main River North Bank	2118	1239800	383864.2
Main River North Bank	2072	1249071.513	390981.2308	Main River North Bank	2119	1239372	383758.9
Main River North Bank	2073	1248951.145	390927.6061	Main River North Bank	2120	1238997	383738.2
Main River North Bank	2074	1248808.472	390867.4647	Main River North Bank	2121	1238671	383713.7
Main River North Bank	2075	1248658.096	390796.8971	Main River North Bank	2122	1238306	383589.8
Main River North Bank	2076	1248479.685	390676.1996	Main River North Bank	2123	1238065	383425.7
Main River North Bank	2077	1248333.432	390594.3249	Main River North Bank	2124	1237810	383232.1
Main River North Bank	2078	1248179.329	390426.9175	Main River North Bank	2125	1237559	383088.8
Main River North Bank	2079	1248037.101	390299.0356	Main River North Bank	2126	1237491	383016.5
Main River North Bank	2080	1247899.958	390140.8528	Main River North Bank	2127	1237339	382853.6
Main River North Bank	2081	1247753.13	389956.6819	Main River North Bank	2128	1237010	382766.3
Main River North Bank	2082	1247612.645	389756.5362	Main River North Bank	2129	1236376	382771.3
Main River North Bank	2083	1247559.469	389688.9769	Main River North Bank	2130	1236149	382836.7
Main River North Bank	2084	1247400.087	389486.6333	Main River North Bank	2131	1235967	382827.8
Main River North Bank	2085	1247379.487	389458.3955	Main River North Bank	2132	1235832	382885
Main River North Bank	2086	1247264.634	389300.7006	Main River North Bank	2133	1235689	382972.7
Main River North Bank	2087	1247088.979	389136.8085	Main River North Bank	2134	1235480	383120.9
Main River North Bank	2088	1246899.947	388932.238	Main River North Bank	2135	1235303	383289.7
Main River North Bank	2089	1246648.415	388683.3174	Main River North Bank	2136	1235118	383504.3
Main River North Bank	2090	1246340.97	388509.4214	Main River North Bank	2137	1234953	383725
Main River North Bank	2091	1246243.466	388448.554	Main River North Bank	2138	1234794	383925.8
Main River North Bank	2092	1246079.311	388336.3115	Main River North Bank	2139	1234588	384174.2
Main River North Bank	2093	1245899.14	388277.3525	Main River North Bank	2140	1234463	384312.4
Main River North Bank	2094	1245746.372	388310.1842	Main River North Bank	2141	1234345	384450.4
Main River North Bank	2095	1245511.403	388355.4959	Main River North Bank	2142	1234185	384635.9
Main River North Bank	2096	1245163.875	388405.0149	Main River North Bank	2143	1234053	384789.6
Main River North Bank	2097	1244902.998	388373.9841	Main River North Bank	2144	1233937	384946.5
Main River North Bank	2098	1244739.964	388340.1521	Main River North Bank	2145	1233801	385108.1
Main River North Bank	2099	1244429.285	388252.0372	Main River North Bank	2146	1233662	385273.5
Main River North Bank	2100	1244165.05	388150.3561	Main River North Bank	2147	1233595	385356.2
Main River North Bank	2101	1243790.609	388016.2292	Main River North Bank	2148	1233420	385568.9
Main River North Bank	2102	1243475.353	387858.5231	Main River North Bank	2149	1233265	385792
Main River North Bank	2103	1243348.897	387697.9112	Main River North Bank	2150	1233117	386056.2
Main River North Bank	2104	1243307.189	387649.6783	Main River North Bank	2151	1233027	386268.1

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Main River North Bank	2152	1232967.477	386425.6832	Main River North Bank	2199	1227144	393152.2
Main River North Bank	2153	1232929.051	386487.7367	Main River North Bank	2200	1227078	393176.2
Main River North Bank	2154	1232700.008	386948.2482	Main River North Bank	2201	1226919	393205.7
Main River North Bank	2155	1232608.563	387089.0851	Main River North Bank	2202	1226799	393240.4
Main River North Bank	2156	1232515.542	387267.2633	Main River North Bank	2203	1226668	393268.4
Main River North Bank	2157	1232420.827	387419.7557	Main River North Bank	2204	1226512	393282.6
Main River North Bank	2158	1232248.987	387700.9473	Main River North Bank	2205	1226389	393264.3
Main River North Bank	2159	1232150.012	387850.0736	Main River North Bank	2206	1226255	393243.1
Main River North Bank	2160	1232045.933	387980.7226	Main River North Bank	2207	1226059	393221.9
Main River North Bank	2161	1231907.18	388114.3482	Main River North Bank	2208	1225891	393191.4
Main River North Bank	2162	1231798.472	388234.8601	Main River North Bank	2209	1225752	393162.4
Main River North Bank	2163	1231742.956	388276.4135	Main River North Bank	2210	1225407	393146.9
Main River North Bank	2164	1231599.842	388406.9273	Main River North Bank	2211	1225256	393137.9
Main River North Bank	2165	1231518.265	388491.4559	Main River North Bank	2212	1225131	393113.4
Main River North Bank	2166	1231350.772	388643.554	Main River North Bank	2213	1224801	393091.4
Main River North Bank	2167	1231218.716	388766.5238	Main River North Bank	2214	1224558	393065.3
Main River North Bank	2168	1231082.078	388878.5992	Main River North Bank	2215	1224273	393037.7
Main River North Bank	2169	1230840.179	389043.7721	Main River North Bank	2216	1224068	393016.5
Main River North Bank	2170	1230683.847	389150.3558	Main River North Bank	2217	1223896	392978.5
Main River North Bank	2171	1230455.196	389345.6596	Main River North Bank	2218	1223724	392940.1
Main River North Bank	2172	1230278.445	389497.3653	Main River North Bank	2219	1223609	392905.8
Main River North Bank	2173	1230126.713	389545.2364	Main River North Bank	2220	1223359	392891.2
Main River North Bank	2174	1229987.087	389593.2541	Main River North Bank	2221	1223083	392886.3
Main River North Bank	2175	1229816.4	389692.6242	Main River North Bank	2222	1222852	392893.2
Main River North Bank	2176	1229717.709	389772.174	Main River North Bank	2223	1222618	392889.3
Main River North Bank	2177	1229552.355	389882.8384	Main River North Bank	2224	1222287	392872.3
Main River North Bank	2178	1229495.034	389943.8728	Main River North Bank	2225	1221948	392844.2
Main River North Bank	2179	1229354.426	390075.3637	Main River North Bank	2226	1221681	392841.5
Main River North Bank	2180	1229177.939	390289.6629	Main River North Bank	2227	1221440	392844.8
Main River North Bank	2181	1229060.784	390469.0569	Main River North Bank	2228	1221199	392867
Main River North Bank	2182	1228894.983	390700.6701	Main River North Bank	2229	1221004	392893.6
Main River North Bank	2183	1228818.368	390838.3099	Main River North Bank	2230	1220924	392909.7
Main River North Bank	2184	1228739.948	390991.0352	Main River North Bank	2231	1220702	392937.8
Main River North Bank	2185	1228689.925	391201.7728	Main River North Bank	2232	1220495	392957.5
Main River North Bank	2186	1228593.872	391411.7669	Main River North Bank	2233	1220318	392967.7
Main River North Bank	2187	1228539.932	391626.6419	Main River North Bank	2234	1220162	392999.4
Main River North Bank	2188	1228507.883	391787.3413	Main River North Bank	2235	1220018	393026.3
Main River North Bank	2189	1228467.237	391895.8089	Main River North Bank	2236	1219805	393072.5
Main River North Bank	2190	1228344.27	392151.1996	Main River North Bank	2237	1219635	393100.8
Main River North Bank	2191	1228326.052	392189.1012	Main River North Bank	2238	1219458	393137.2
Main River North Bank	2192	1228228.06	392411.861	Main River North Bank	2239	1219273	393181.7
Main River North Bank	2193	1228035.436	392606.9591	Main River North Bank	2240	1219104	393221.2
Main River North Bank	2194	1227845.214	392730.0539	Main River North Bank	2241	1218983	393254.2
Main River North Bank	2195	1227683.865	392827.9306	Main River North Bank	2242	1218774	393329.9
Main River North Bank	2196	1227559	392900.8761	Main River North Bank	2243	1218487	393390.5
Main River North Bank	2197	1227405.109	392994.9578	Main River North Bank	2244	1218399	393398.6
Main River North Bank	2198	1227282.733	393101.5861	Main River North Bank	2245	1218264	393451

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Main River North Bank	2246	1218136.37	393494.7541	Main River North Bank	2293	1216667	401447.9
Main River North Bank	2247	1217807.209	393600.7593	Main River North Bank	2294	1216942	401774.5
Main River North Bank	2248	1217617.79	393662.6228	Main River North Bank	2295	1217184	402054.2
Main River North Bank	2249	1217494.37	393721.5621	Main River North Bank	2296	1217389	402267.1
Main River North Bank	2250	1217299.331	393773.0405	Main River North Bank	2297	1217589	402423.8
Main River North Bank	2251	1217123.806	393820.5792	Main River North Bank	2298	1217803	402585.9
Main River North Bank	2252	1216971.543	393878.8374	Main River North Bank	2299	1218014	402793.3
Main River North Bank	2253	1216838.264	393940.135	Main River North Bank	2300	1218212	402995.7
Main River North Bank	2254	1216698.571	394021.5822	Main River North Bank	2301	1218458	403245.6
Main River North Bank	2255	1216548.556	394131.7587	Main River North Bank	2302	1218682	403453.2
Main River North Bank	2256	1216422.069	394223.5818	Main River North Bank	2303	1218977	403688.3
Main River North Bank	2257	1216242.882	394377.3285	Main River North Bank	2304	1219355	404020
Main River North Bank	2258	1216057.127	394526.7941	Main River North Bank	2305	1219627	404276.7
Main River North Bank	2259	1215848.409	394713.9086	Main River North Bank	2306	1219691	404380.9
Main River North Bank	2260	1215689.487	394901.6829	Main River North Bank	2307	1219872	404516.3
Main River North Bank	2261	1215413.372	395244.3177	Main River North Bank	2308	1220297	404805.9
Main River North Bank	2262	1215243.511	395467.4496	Main River North Bank	2309	1220446	404939.7
Main River North Bank	2263	1215148.346	395563.9982	Main River North Bank	2310	1220615	405101.8
Main River North Bank	2264	1215060.797	395796.0421	Main River North Bank	2311	1220716	405178.9
Main River North Bank	2265	1214977.634	395990.3292	Main River North Bank	2312	1220918	405275.3
Main River North Bank	2266	1214878.428	396229.551	Main River North Bank	2313	1221231	405504.8
Main River North Bank	2267	1214802.227	396428.8476	Main River North Bank	2314	1221470	405702.7
Main River North Bank	2268	1214730.278	396590.4279	Main River North Bank	2315	1221721	405892.8
Main River North Bank	2269	1214652.607	396758.8128	Main River North Bank	2316	1221911	406106.8
Main River North Bank	2270	1214619.607	396935.4368	Main River North Bank	2317	1222134	406279.6
Main River North Bank	2271	1214579.817	397100.5251	Main River North Bank	2318	1222264	406440.2
Main River North Bank	2272	1214591.346	397279.8728	Main River North Bank	2319	1222467	406670.1
Main River North Bank	2273	1214584.697	397467.3807	Main River North Bank	2320	1222581	406882.1
Main River North Bank	2274	1214577.227	397736.6648	Main River North Bank	2321	1222749	407105.1
Main River North Bank	2275	1214592.417	398001.5273	Main River North Bank	2322	1222876	407328.5
Main River North Bank	2276	1214620.322	398198.3384	Main River North Bank	2323	1223037	407621.8
Main River North Bank	2277	1214671.109	398396.1126	Main River North Bank	2324	1223119	407753.9
Main River North Bank	2278	1214736.565	398530.5497	Main River North Bank	2325	1223214	407877.4
Main River North Bank	2279	1214853.527	398782.1238	Main River North Bank	2326	1223282	407986.4
Main River North Bank	2280	1215004.519	398980.9066	Main River North Bank	2327	1223368	408129.3
Main River North Bank	2281	1215115.058	399137.8453	Main River North Bank	2328	1223470	408313.9
Main River North Bank	2282	1215181.428	399291.2183	Main River North Bank	2329	1223560	408463.8
Main River North Bank	2283	1215239.836	399419.9466	Main River North Bank	2330	1223610	408546.1
Main River North Bank	2284	1215333.067	399602.8636	Main River North Bank	2331	1223705	408711.4
Main River North Bank	2285	1215481.794	399775.3741	Main River North Bank	2332	1223762	408835.6
Main River North Bank	2286	1215560.509	399926.6753	Main River North Bank	2333	1223826	409009.5
Main River North Bank	2287	1215712.001	400129.1297	Main River North Bank	2334	1223882	409411
Main River North Bank	2288	1215864.24	400337.2114	Main River North Bank	2335	1223920	409558.5
Main River North Bank	2289	1215963.435	400498.9995	Main River North Bank	2336	1223942	409699.2
Main River North Bank	2290	1216106.07	400740.0332	Main River North Bank	2337	1223960	409935.2
Main River North Bank	2291	1216271.765	400947.988	Main River North Bank	2338	1223975	410094.9
Main River North Bank	2292	1216508.974	401270.5008	Main River North Bank	2339	1224043	410239.9

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Main River North Bank	2340	1224137.986	410398.6835	Main River North Bank	2387	1218671	414334.1
Main River North Bank	2341	1224203.825	410573.9617	Main River North Bank	2388	1218565	414405.8
Main River North Bank	2342	1224209.853	410714.9256	Main River North Bank	2389	1218434	414494.2
Main River North Bank	2343	1224208.512	410859.6133	Main River North Bank	2390	1218276	414584.2
Main River North Bank	2344	1224190.687	411044.0745	Main River North Bank	2391	1218136	414657.8
Main River North Bank	2345	1224172.69	411171.1402	Main River North Bank	2392	1217927	414723.9
Main River North Bank	2346	1224150.36	411291.1779	Main River North Bank	2393	1217767	414783
Main River North Bank	2347	1224110.91	411385.6769	Main River North Bank	2394	1217625	414822.4
Main River North Bank	2348	1224063.733	411480.8308	Main River North Bank	2395	1217450	414870.9
Main River North Bank	2349	1224024.632	411582.9958	Main River North Bank	2396	1217251	414917.5
Main River North Bank	2350	1223975.029	411701.733	Main River North Bank	2397	1217189	414951.7
Main River North Bank	2351	1223918.144	411828.6185	Main River North Bank	2398	1217036	415002.9
Main River North Bank	2352	1223859.136	411925.2281	Main River North Bank	2399	1216897	415034.5
Main River North Bank	2353	1223809.535	411990.1703	Main River North Bank	2400	1216774	415072.4
Main River North Bank	2354	1223742.309	412080.0788	Main River North Bank	2401	1216633	415130.9
Main River North Bank	2355	1223666.805	412162.4049	Main River North Bank	2402	1216487	415162.9
Main River North Bank	2356	1223558.533	412274.6513	Main River North Bank	2403	1216295	415201.5
Main River North Bank	2357	1223456.564	412367.0332	Main River North Bank	2404	1216130	415238.5
Main River North Bank	2358	1223164.667	412566.6566	Main River North Bank	2405	1215981	415285.9
Main River North Bank	2359	1223098.261	412614.5329	Main River North Bank	2406	1215839	415332.5
Main River North Bank	2360	1222959.597	412679.1881	Main River North Bank	2407	1215712	415371.2
Main River North Bank	2361	1222863.367	412744.3176	Main River North Bank	2408	1215593	415409.1
Main River North Bank	2362	1222714.511	412832.59	Main River North Bank	2409	1215399	415474.5
Main River North Bank	2363	1222521.276	412890.1329	Main River North Bank	2410	1215278	415503.1
Main River North Bank	2364	1222390.652	412900.0516	Main River North Bank	2411	1215055	415537.6
Main River North Bank	2365	1222232.2	412896.2629	Main River North Bank	2412	1214880	415528.3
Main River North Bank	2366	1222079.731	412865.4374	Main River North Bank	2413	1214672	415500.6
Main River North Bank	2367	1221922.285	412815.8639	Main River North Bank	2414	1214561	415385.4
Main River North Bank	2368	1221797.787	412798.2022	Main River North Bank	2415	1214431	415302
Main River North Bank	2369	1221638.678	412779.2963	Main River North Bank	2416	1214259	415343.8
Main River North Bank	2370	1221465.015	412772.5736	Main River North Bank	2417	1214111	415424.6
Main River North Bank	2371	1221442.772	412785.8314	Main River North Bank	2418	1213955	415536.5
Main River North Bank	2372	1221289.397	412793.2278	Main River North Bank	2419	1213717	415653.9
Main River North Bank	2373	1221183.4	412819.9046	Main River North Bank	2420	1213509	415759.2
Main River North Bank	2374	1220896.297	412897.7327	Main River North Bank	2421	1213332	415873.2
Main River North Bank	2375	1220675.831	412993.7323	Main River North Bank	2422	1213218	416003.4
Main River North Bank	2376	1220459.568	413093.3291	Main River North Bank	2423	1213094	416144.6
Main River North Bank	2377	1220150.6	413240.7271	Main River North Bank	2424	1212962	416307.9
Main River North Bank	2378	1220061.847	413292.5923	Main River North Bank	2425	1212498	416887
Main River North Bank	2379	1219918.058	413382.8629	Main River North Bank	2426	1212312	417169.9
Main River North Bank	2380	1219764.157	413493.1835	Main River North Bank	2427	1212158	417326.6
Main River North Bank	2381	1219586.238	413585.4177	Main River North Bank	2428	1212027	417523
Main River North Bank	2382	1219440.591	413702.4111	Main River North Bank	2429	1211922	417655.6
Main River North Bank	2383	1219232.257	413853.8767	Main River North Bank	2430	1211829	417808
Main River North Bank	2384	1219071.882	413975.2691	Main River North Bank	2431	1211718	418002.3
Main River North Bank	2385	1218894.126	414120.7576	Main River North Bank	2432	1211586	418197.4
Main River North Bank	2386	1218789.568	414215.6779	Main River North Bank	2433	1211481	418338.8

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Main River North Bank	2434	1211396.039	418478.2753	Main River North Bank	2481	1215112	425439.2
Main River North Bank	2435	1211202.191	418716.9895	Main River North Bank	2482	1215106	425572.8
Main River North Bank	2436	1211064.001	418890.3501	Main River North Bank	2483	1215119	425889.2
Main River North Bank	2437	1210931.567	419002.5217	Main River North Bank	2484	1215134	426073.1
Main River North Bank	2438	1210840.889	419133.1001	Main River North Bank	2485	1215110	426230
Main River North Bank	2439	1210710.183	419325.3281	Main River North Bank	2486	1215087	426410.8
Main River North Bank	2440	1210559.843	419495.8075	Main River North Bank	2487	1215037	426607.1
Main River North Bank	2441	1210403.735	419743.4078	Main River North Bank	2488	1215022	426682.8
Main River North Bank	2442	1210256.065	419976.2034	Main River North Bank	2489	1214930	426902.4
Main River North Bank	2443	1210125.828	420229.8078	Main River North Bank	2490	1214867	427072.3
Main River North Bank	2444	1210085.892	420550.401	Main River North Bank	2491	1214770	427290.6
Main River North Bank	2445	1210093.559	420851.1004	Main River North Bank	2492	1214698	427469.7
Main River North Bank	2446	1210162.59	421108.1736	Main River North Bank	2493	1214620	427607.7
Main River North Bank	2447	1210278.703	421352.6401	Main River North Bank	2494	1214518	427720.8
Main River North Bank	2448	1210406.303	421641.0102	Main River North Bank	2495	1214423	427796.5
Main River North Bank	2449	1210520.086	421825.397	Main River North Bank	2496	1214332	427836.1
Main River North Bank	2450	1210678.044	421928.7182	Main River North Bank	2497	1214196	427917.1
Main River North Bank	2451	1210748.44	422041.855	Main River North Bank	2498	1214112	428003.5
Main River North Bank	2452	1210875.754	422128.3711	Main River North Bank	2499	1214031	428062
Main River North Bank	2453	1211013.617	422207.1565	Main River North Bank	2500	1213975	428156
Main River North Bank	2454	1211118.672	422288.5893	Main River North Bank	2501	1213924	428254.2
Main River North Bank	2455	1211227.257	422366.3035	Main River North Bank	2502	1213864	428358.5
Main River North Bank	2456	1211380.068	422446.7372	Main River North Bank	2503	1213795	428473.8
Main River North Bank	2457	1211514.327	422528.6283	Main River North Bank	2504	1213720	428547.1
Main River North Bank	2458	1211629.109	422598.8494	Main River North Bank	2505	1213636	428654.3
Main River North Bank	2459	1211756.966	422633.4839	Main River North Bank	2506	1213552	428738
Main River North Bank	2460	1211876.155	422688.5358	Main River North Bank	2507	1213422	428854.4
Main River North Bank	2461	1212014.71	422745.9961	Main River North Bank	2508	1213320	428958.4
Main River North Bank	2462	1212153.068	422803.6211	Main River North Bank	2509	1213266	429001.4
Main River North Bank	2463	1212318.254	422834.4242	Main River North Bank	2510	1213179	429037.4
Main River North Bank	2464	1212443.16	422861.6821	Main River North Bank	2511	1213033	429093
Main River North Bank	2465	1212618.594	422892.0968	Main River North Bank	2512	1212876	429121.1
Main River North Bank	2466	1212691.081	422896.4905	Main River North Bank	2513	1212729	429157.8
Main River North Bank	2467	1212778.128	422902.9744	Main River North Bank	2514	1212518	429223.5
Main River North Bank	2468	1212885.513	422946.4564	Main River North Bank	2515	1212315	429245.1
Main River North Bank	2469	1212974.774	422988.6555	Main River North Bank	2516	1212088	429268.5
Main River North Bank	2470	1213041.976	423025.291	Main River North Bank	2517	1212019	429269.7
Main River North Bank	2471	1213139.213	423141.2845	Main River North Bank	2518	1211878	429272.2
Main River North Bank	2472	1213308.703	423203.8547	Main River North Bank	2519	1211610	429316.5
Main River North Bank	2473	1213494.595	423323.3307	Main River North Bank	2520	1211444	429329.8
Main River North Bank	2474	1213754.232	423515.6011	Main River North Bank	2521	1211113	429372.3
Main River North Bank	2475	1214153.259	423871.9229	Main River North Bank	2522	1210918	429345.7
Main River North Bank	2476	1214377.54	424153.1201	Main River North Bank	2523	1210723	429288.2
Main River North Bank	2477	1214533.395	424395.9866	Main River North Bank	2524	1210588	429218.9
Main River North Bank	2478	1214586.566	424497.5351	Main River North Bank	2525	1210435	429138.7
Main River North Bank	2479	1214832.419	424838.9839	Main River North Bank	2526	1210334	429084.3
Main River North Bank	2480	1215013.226	425117.8363	Main River North Bank	2527	1210205	429007.4

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Main River North Bank	2528	1210188.904	428996.6585	Main River North Bank	2575	1204706	422752.3
Main River North Bank	2529	1209949.359	428804.7238	Main River North Bank	2576	1204619	422673.4
Main River North Bank	2530	1209768.815	428668.0007	Main River North Bank	2577	1204456	422622.7
Main River North Bank	2531	1209633.656	428573.4232	Main River North Bank	2578	1204193	422484.9
Main River North Bank	2532	1209512.872	428465.8058	Main River North Bank	2579	1203979	422419.1
Main River North Bank	2533	1209350.689	428341.5827	Main River North Bank	2580	1203754	422364
Main River North Bank	2534	1209162.827	428153.5748	Main River North Bank	2581	1203512	422276.8
Main River North Bank	2535	1208949.961	427963.6355	Main River North Bank	2582	1203372	422239.4
Main River North Bank	2536	1208854.816	427856.4413	Main River North Bank	2583	1203178	422215.6
Main River North Bank	2537	1208707.447	427724.3566	Main River North Bank	2584	1203020	422179.9
Main River North Bank	2538	1208563.657	427578.0971	Main River North Bank	2585	1202771	422141.7
Main River North Bank	2539	1208419.416	427427.1034	Main River North Bank	2586	1202641	422132.8
Main River North Bank	2540	1208259.467	427267.7562	Main River North Bank	2587	1202413	422122
Main River North Bank	2541	1208125.393	427121.06	Main River North Bank	2588	1202189	422126
Main River North Bank	2542	1207999.635	427006.6483	Main River North Bank	2589	1202078	422138.8
Main River North Bank	2543	1207886.519	426872.8547	Main River North Bank	2590	1202065	422139.6
Main River North Bank	2544	1207786.441	426724.0765	Main River North Bank	2591	1201943	422144.2
Main River North Bank	2545	1207682.679	426542.6398	Main River North Bank	2592	1201802	422168.4
Main River North Bank	2546	1207652.064	426398.899	Main River North Bank	2593	1201719	422187.7
Main River North Bank	2547	1207580.994	426158.9177	Main River North Bank	2594	1201613	422202.4
Main River North Bank	2548	1207559.753	426057.065	Main River North Bank	2595	1201231	422191.3
Main River North Bank	2549	1207478.805	425821.8688	Main River North Bank	2596	1201167	422191
Main River North Bank	2550	1207404.89	425694.7024	Main River North Bank	2597	1201027	422204.9
Main River North Bank	2551	1207348.276	425590.0177	Main River North Bank	2598	1200806	422223.6
Main River North Bank	2552	1207288.317	425499.7615	Main River North Bank	2599	1200726	422237.7
Main River North Bank	2553	1207217.838	425404.854	Main River North Bank	2600	1200590	422261.7
Main River North Bank	2554	1207153.917	425324.1775	Main River North Bank	2601	1200460	422281.1
Main River North Bank	2555	1207047.172	425175.3035	Main River North Bank	2602	1200331	422305.3
Main River North Bank	2556	1206932.519	425045.624	Main River North Bank	2603	1200146	422340.5
Main River North Bank	2557	1206846.822	424951.9882	Main River North Bank	2604	1200039	422355.2
Main River North Bank	2558	1206729.644	424803.6595	Main River North Bank	2605	1199987	422387.9
Main River North Bank	2559	1206656.37	424690.4715	Main River North Bank	2606	1199895	422425.5
Main River North Bank	2560	1206519.643	424505.5112	Main River North Bank	2607	1199799	422474.9
Main River North Bank	2561	1206399.244	424376.6319	Main River North Bank	2608	1199682	422547.8
Main River North Bank	2562	1206305.215	424259.9734	Main River North Bank	2609	1199606	422588.1
Main River North Bank	2563	1206213.91	424124.4351	Main River North Bank	2610	1199497	422670
Main River North Bank	2564	1206134.686	424006.894	Main River North Bank	2611	1199474	422684.9
Main River North Bank	2565	1206051.504	423899	Main River North Bank	2612	1199406	422693.4
Main River North Bank	2566	1205861.352	423699.0765	Main River North Bank	2613	1199308	422730.5
Main River North Bank	2567	1205752.698	423592.9072	Main River North Bank	2614	1199195	422770.5
Main River North Bank	2568	1205685.813	423498.3097	Main River North Bank	2615	1199082	422796.4
Main River North Bank	2569	1205585.888	423382.2635	Main River North Bank	2616	1198978	422862.7
Main River North Bank	2570	1205455.409	423268.2385	Main River North Bank	2617	1198850	422942.2
Main River North Bank	2571	1205305.418	423164.8885	Main River North Bank	2618	1198726	423003.2
Main River North Bank	2572	1205151.021	423071.6322	Main River North Bank	2619	1198596	423095.7
Main River North Bank	2573	1204962.305	422909.4813	Main River North Bank	2620	1198480	423181
Main River North Bank	2574	1204830.065	422838.4452	Main River North Bank	2621	1198352	423286.4

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Main River North Bank	2622	1198272.249	423366.6122	Main River North Bank	2669	1192759	426161.4
Main River North Bank	2623	1198210.191	423469.0571	Main River North Bank	2670	1192579	426134.7
Main River North Bank	2624	1198131.637	423610.8836	Main River North Bank	2671	1192428	426107.5
Main River North Bank	2625	1198064.655	423708.4288	Main River North Bank	2672	1192245	426096.7
Main River North Bank	2626	1197998.422	423811.1683	Main River North Bank	2673	1192105	426083.8
Main River North Bank	2627	1197916.373	423903.3652	Main River North Bank	2674	1191975	426088.7
Main River North Bank	2628	1197829.006	424041.5548	Main River North Bank	2675	1191774	426088.6
Main River North Bank	2629	1197733.166	424190.2458	Main River North Bank	2676	1191622	426097.2
Main River North Bank	2630	1197697.169	424280.8727	Main River North Bank	2677	1191431	426079.1
Main River North Bank	2631	1197656.276	424371.0784	Main River North Bank	2678	1191304	426042.9
Main River North Bank	2632	1197597.689	424481.7881	Main River North Bank	2679	1191169	425993.8
Main River North Bank	2633	1197556.734	424567.2389	Main River North Bank	2680	1191064	426004.1
Main River North Bank	2634	1197505.544	424648.4196	Main River North Bank	2681	1190888	425979.2
Main River North Bank	2635	1197428.422	424718.9807	Main River North Bank	2682	1190728	425955.8
Main River North Bank	2636	1197376.934	424794.8101	Main River North Bank	2683	1190634	425968.4
Main River North Bank	2637	1197301.736	424881.1362	Main River North Bank	2684	1190514	425967
Main River North Bank	2638	1197197.203	424972.1381	Main River North Bank	2685	1190340	425915
Main River North Bank	2639	1197139.256	425033.2382	Main River North Bank	2686	1190168	425852.8
Main River North Bank	2640	1196996.578	425140.0771	Main River North Bank	2687	1190021	425777.3
Main River North Bank	2641	1196918.791	425201.5519	Main River North Bank	2688	1189860	425655.4
Main River North Bank	2642	1196807.047	425273.3094	Main River North Bank	2689	1189657	425530.1
Main River North Bank	2643	1196734.512	425335.3648	Main River North Bank	2690	1189516	425408.6
Main River North Bank	2644	1196680.902	425387.4062	Main River North Bank	2691	1189358	425304.3
Main River North Bank	2645	1196549.357	425497.0597	Main River North Bank	2692	1189209	425185.2
Main River North Bank	2646	1196454.084	425576.1795	Main River North Bank	2693	1189113	425063.2
Main River North Bank	2647	1196324.203	425661.6253	Main River North Bank	2694	1189000	424966.9
Main River North Bank	2648	1196176.982	425732.9049	Main River North Bank	2695	1188834	424831.2
Main River North Bank	2649	1196048.755	425762.4643	Main River North Bank	2696	1188644	424676.1
Main River North Bank	2650	1195964.709	425812.4859	Main River North Bank	2697	1188506	424567.3
Main River North Bank	2651	1195853.343	425848.0023	Main River North Bank	2698	1188349	424479
Main River North Bank	2652	1195661.198	425881.0436	Main River North Bank	2699	1188141	424366.8
Main River North Bank	2653	1195583.097	425926.6168	Main River North Bank	2700	1187916	424280.9
Main River North Bank	2654	1195475.171	425941.9731	Main River North Bank	2701	1187745	424206.1
Main River North Bank	2655	1195297.194	426009.3583	Main River North Bank	2702	1187561	424153.1
Main River North Bank	2656	1195091.761	426075.2782	Main River North Bank	2703	1187455	424109.1
Main River North Bank	2657	1194932.937	426113.0167	Main River North Bank	2704	1187382	424033.1
Main River North Bank	2658	1194728.053	426147.1112	Main River North Bank	2705	1187248	423961.2
Main River North Bank	2659	1194465.808	426180.9387	Main River North Bank	2706	1187142	423919.1
Main River North Bank	2660	1194274.929	426204.5446	Main River North Bank	2707	1187040	423913.8
Main River North Bank	2661	1193949.911	426233.6329	Main River North Bank	2708	1186908	423909.1
Main River North Bank	2662	1193691.234	426243.4665	Main River North Bank	2709	1186815	423941.5
Main River North Bank	2663	1193547.231	426247.5115	Main River North Bank	2710	1186682	423912.9
Main River North Bank	2664	1193421.065	426267.377	Main River North Bank	2711	1186527	423893.2
Main River North Bank	2665	1193398.931	426266.5	Main River North Bank	2712	1186402	423884.9
Main River North Bank	2666	1193281.336	426256.1394	Main River North Bank	2713	1186217	423863.3
Main River North Bank	2667	1193119.287	426228.6929	Main River North Bank	2714	1186102	423853.6
Main River North Bank	2668	1192899.912	426179.7704	Main River North Bank	2715	1185966	423829.6

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Main River North Bank	2716	1185834.449	423820.2011	Main River North Bank	2763	1180793	419624.2
Main River North Bank	2717	1185711.47	423797.6782	Main River North Bank	2764	1180696	419505.8
Main River North Bank	2718	1185589.617	423789.3881	Main River North Bank	2765	1180537	419340.4
Main River North Bank	2719	1185441.451	423747.7093	Main River North Bank	2766	1180366	419146.7
Main River North Bank	2720	1185414.509	423736.5538	Main River North Bank	2767	1180300	419050.4
Main River North Bank	2721	1185369.123	423717.4652	Main River North Bank	2768	1180188	418925.7
Main River North Bank	2722	1185246.715	423660.3819	Main River North Bank	2769	1180015	418733.5
Main River North Bank	2723	1185081.917	423590.0774	Main River North Bank	2770	1179926	418634.9
Main River North Bank	2724	1185013.067	423514.6631	Main River North Bank	2771	1179603	418423.2
Main River North Bank	2725	1184909.32	423455.2228	Main River North Bank	2772	1179487	418242.1
Main River North Bank	2726	1184770.549	423385.6664	Main River North Bank	2773	1179323	418082.8
Main River North Bank	2727	1184652.696	423292.7074	Main River North Bank	2774	1179175	417920.7
Main River North Bank	2728	1184562.021	423203.4239	Main River North Bank	2775	1178774	417642.3
Main River North Bank	2729	1184412.146	423095.501	Main River North Bank	2776	1178621	417666.7
Main River North Bank	2730	1184229.904	423010.3822	Main River North Bank	2777	1178562	417621.4
Main River North Bank	2731	1184061.527	422812.3166	Main River North Bank	2778	1178490	417563.6
Main River North Bank	2732	1183910.373	422633.9141	Main River North Bank	2779	1177700	416739.6
Main River North Bank	2733	1183819.024	422491.604	Main River North Bank	2780	1177684	416725.4
Main River North Bank	2734	1183736.282	422404.3757	Main River North Bank	2781	1177643	416669.1
Main River North Bank	2735	1183594.496	422294.0223	Main River North Bank	2782	1177553	416488.6
Main River North Bank	2736	1183508.474	422201.0299	Main River North Bank	2783	1177361	415990
Main River North Bank	2737	1183320.125	422065.4685	Main River North Bank	2784	1177291	415825
Main River North Bank	2738	1183191.031	421981.9275	Main River North Bank	2785	1177222	415651.4
Main River North Bank	2739	1183039.497	421865.2605	Main River North Bank	2786	1177205	415443.1
Main River North Bank	2740	1182928.087	421776.7139	Main River North Bank	2787	1177187	415260.8
Main River North Bank	2741	1182831.077	421673.3504	Main River North Bank	2788	1177161	415017.7
Main River North Bank	2742	1182726.92	421472.4505	Main River North Bank	2789	1177118	414904.9
Main River North Bank	2743	1182684.156	421441.2051	Main River North Bank	2790	1177066	414653.1
Main River North Bank	2744	1182646.609	421415.7595	Main River North Bank	2791	1177040	414410.1
Main River North Bank	2745	1182611.625	421387.3242	Main River North Bank	2792	1177031	414149.7
Main River North Bank	2746	1182547.598	421416.9111	Main River North Bank	2793	1177074	413967.4
Main River North Bank	2747	1182466.721	421475.8248	Main River North Bank	2794	1177161	413550.7
Main River North Bank	2748	1182678.214	421780.5555	Main River North Bank	2795	1177132	413306.6
Main River North Bank	2749	1182723.305	421866.0853	Main River North Bank	2796	1177112	413295
Main River North Bank	2750	1182672.71	421814.8576	Main River North Bank	2797	1177124	413245.2
Main River North Bank	2751	1182632.362	421715.1628	Main River North Bank	2798	1177105	413080.8
Main River North Bank	2752	1182388.354	421414.8094	Main River North Bank	2799	1177089	412945.7
Main River North Bank	2753	1182463.44	421303.7989	Main River North Bank	2800	1177153	412681.7
Main River North Bank	2754	1182281.078	421091.2671	Main River North Bank	2801	1177240	412453.8
Main River North Bank	2755	1182071.394	420964.1913	Main River North Bank	2802	1177364	412034.3
Main River North Bank	2756	1181895.538	420780.4653	Main River North Bank	2803	1177370	412019.8
Main River North Bank	2757	1181625.999	420544.5889	Main River North Bank	2804	1177598	411477.3
Main River North Bank	2758	1181287.236	420136.5519	Main River North Bank	2805	1177648	411382.8
Main River North Bank	2759	1181179.092	420027.0607	Main River North Bank	2806	1177696	411292.8
Main River North Bank	2760	1181109.088	419948.4347	Main River North Bank	2807	1177782	411136.2
Main River North Bank	2761	1180976.845	419822.8304	Main River North Bank	2808	1178215	410139.9
Main River North Bank	2762	1180879.151	419725.276	Main River North Bank	2809	1178250	410109.5

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Main River North Bank	2810	1178692.883	409237.0857	Island 1	34	1455604	379045.6
Main River North Bank	2811	1178992.363	408377.7087	Island 1	35	1455682	378929.7
Main River North Bank	2812	1179604.344	407127.7064	Island 1	36	1455775	378798.1
Main River North Bank	2813	1179851.74	406359.4758	Island 1	37	1455884	378695.9
Main River North Bank	2814	1179929.865	405903.7455	Island 1	38	1455946	378572.9
Main River North Bank	2815	1179955.906	405565.2032	Island 1	39	1456010	378465.3
Main River North Bank	2816	1180099.136	405317.8068	Island 1	40	1456118	378340.4
Main River North Bank	2817	1180268.407	404992.2855	Island 1	41	1456165	378218.4
Main River North Bank	2818	1180450.699	404653.7432	Island 1	42	1456235	378102.8
Main River North Bank	2819	1180541.845	404341.2425	Island 1	43	1456336	377985.9
Main River North Bank	2820	1180593.929	403625.0952	Island 1	44	1456459	377838
Main River North Bank	2821	1180502.783	403026.1356	Island 1	45	1456566	377690.7
Main River North Bank	2822	1180437.678	402505.3013	Island 2	1	1234107	384355.2
Main River North Bank	2823	1180399.318	402351.858	Island 2	2	1234004	384412.7
Island 1	1	1456565.694	377690.6882	Island 2	3	1233936	384330.6
Island 1	2	1456657.555	377544.4474	Island 2	4	1233917	384193.5
Island 1	3	1456662.06	377949.7059	Island 2	5	1233909	384065.7
Island 1	4	1456685.267	378113.8447	Island 2	6	1233915	383937
Island 1	5	1456730.562	378262.0094	Island 2	7	1233952	383845.1
Island 1	6	1456753.026	378411.1521	Island 2	8	1233975	383762.8
Island 1	7	1456783.1	378560.3893	Island 2	9	1234013	383684.7
Island 1	8	1456788.205	378665.1281	Island 2	10	1234085	383600.4
Island 1	9	1456844.702	378888.1239	Island 2	11	1234169	383496.3
Island 1	10	1456903.973	379013.3752	Island 2	12	1234283	383400
Island 1	11	1456967.837	379078.223	Island 2	13	1234359	383315.4
Island 1	12	1456992.889	379280.2066	Island 2	14	1234445	383230.2
Island 1	13	1456939.965	379439.9109	Island 2	15	1234518	383173.8
Island 1	14	1456855.312	379571.244	Island 2	16	1234581	383113.4
Island 1	15	1456754.443	379680.8739	Island 2	17	1234653	383028.8
Island 1	16	1456667.625	379767.1344	Island 2	18	1234716	382968.3
Island 1	17	1456588.331	379853.1078	Island 2	19	1234829	382933.9
Island 1	18	1456488.139	379977.4595	Island 2	20	1234860	382961
Island 1	19	1456350.046	380103.8834	Island 2	21	1234843	383067.1
Island 1	20	1456212.214	380237.702	Island 2	22	1234763	383166.5
Island 1	21	1456123.77	380294.0612	Island 2	23	1234694	383279.6
Island 1	22	1455990.823	380375.1833	Island 2	24	1234628	383368.7
Island 1	23	1455843.359	380471.6619	Island 2	25	1234564	383486.3
Island 1	24	1455738.813	380514.1104	Island 2	26	1234486	383614.3
Island 1	25	1455602.249	380527.3292	Island 2	27	1234432	383745.3
Island 1	26	1455530.705	380470.0113	Island 2	28	1234360	383891.5
Island 1	27	1455486.262	380343.7833	Island 2	29	1234311	384027.1
Island 1	28	1455487.868	380223.348	Island 2	30	1234247	384144.3
Island 1	29	1455516.101	380026.3781	Island 2	31	1234181	384237.5
Island 1	30	1455530.246	379852.533	Island 2	32	1234107	384355.2
Island 1	31	1455521.174	379672.4231	Island 3	1	1241956	382867.5
Island 1	32	1455525.82	379461.7177	Island 3	2	1241885	382753.9
Island 1	33	1455545.985	379258.2459	Island 3	3	1241788	382631.9

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Island 3	4	1241690.671	382494.6255	Island 3	51	1237365	379886.6
Island 3	5	1241609.821	382391.0202	Island 3	52	1237468	379849.6
Island 3	6	1241488.163	382274.9441	Island 3	53	1237589	379796.1
Island 3	7	1241398.441	382195.992	Island 3	54	1237700	379793.6
Island 3	8	1241302.63	382102.4549	Island 3	55	1237880	379721.3
Island 3	9	1241196.415	382004.7016	Island 3	56	1238004	379702.7
Island 3	10	1241102.724	381946.3512	Island 3	57	1238154	379677.8
Island 3	11	1240997.295	381863.3296	Island 3	58	1238295	379683.1
Island 3	12	1240846.716	381778.5438	Island 3	59	1238355	379684.4
Island 3	13	1240745.014	381680.431	Island 3	60	1238457	379637.2
Island 3	14	1240686.468	381629.4382	Island 3	61	1238542	379626.5
Island 3	15	1240615.222	381539.0182	Island 3	62	1238729	379568.6
Island 3	16	1240563.846	381447.6012	Island 3	63	1238864	379559.5
Island 3	17	1240477.158	381353.2889	Island 3	64	1239030	379568.4
Island 3	18	1240396.156	381268.4287	Island 3	65	1239137	379581.4
Island 3	19	1240284.846	381180.7187	Island 3	66	1239259	379593
Island 3	20	1240173.114	381088.0655	Island 3	67	1239380	379600.1
Island 3	21	1240069.508	381040.0888	Island 3	68	1239510	379596.3
Island 3	22	1239981.186	380995.9759	Island 3	69	1239665	379581
Island 3	23	1239857.287	380944.4162	Island 3	70	1239871	379572.2
Island 3	24	1239686.963	380875.8352	Island 3	71	1239984	379609.9
Island 3	25	1239553.3	380829.8112	Island 3	72	1240173	379647.4
Island 3	26	1239435.972	380802.41	Island 3	73	1240355	379720.3
Island 3	27	1239322.215	380754.9729	Island 3	74	1240590	379840.1
Island 3	28	1239222.163	380691.3151	Island 3	75	1240772	379928
Island 3	29	1239194.57	380658.157	Island 3	76	1240900	380039.3
Island 3	30	1239078.187	380645.8017	Island 3	77	1241049	380159.4
Island 3	31	1238909.471	380606.8348	Island 3	78	1241188	380275.2
Island 3	32	1238744.92	380557.7184	Island 3	79	1241285	380368.8
Island 3	33	1238579.172	380493.4595	Island 3	80	1241416	380445.2
Island 3	34	1238453.739	380431.4605	Island 3	81	1241541	380511.8
Island 3	35	1238324.156	380380.0845	Island 3	82	1241665	380568
Island 3	36	1238148.692	380321.491	Island 3	83	1241811	380578
Island 3	37	1237999.764	380281.2535	Island 3	84	1241976	380566.4
Island 3	38	1237867.698	380264.9874	Island 3	85	1242150	380544
Island 3	39	1237745.637	380248.0481	Island 3	86	1242340	380520.9
Island 3	40	1237638.603	380230.1058	Island 3	87	1242515	380513.6
Island 3	41	1237533.148	380232.2626	Island 3	88	1242653	380544.2
Island 3	42	1237433.05	380239.0146	Island 3	89	1242741	380577.9
Island 3	43	1237331.809	380230.6012	Island 3	90	1242925	380700.5
Island 3	44	1237171.262	380189.0993	Island 3	91	1243036	380857.8
Island 3	45	1237110.361	380165.181	Island 3	92	1243158	381044.6
Island 3	46	1237067.193	380128.1068	Island 3	93	1243269	381202
Island 3	47	1237058.286	380078.4116	Island 3	94	1243337	381337.6
Island 3	48	1237090.526	380040.7817	Island 3	95	1243451	381555
Island 3	49	1237170.003	379964.9273	Island 3	96	1243573	381756.2
Island 3	50	1237268.532	379938.4949	Island 3	97	1243660	381954.5

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Island 3	98	1243762.415	382176.1809	Island 4	7	1232986	385049.1
Island 3	99	1243872.07	382446.7259	Island 4	8	1232894	385201.1
Island 3	100	1243973.899	382672.6951	Island 4	9	1232840	385327.2
Island 3	101	1244069.945	382889.1032	Island 4	10	1232768	385496.8
Island 3	102	1244209.9	383191.5904	Island 4	11	1232721	385665.5
Island 3	103	1244268.993	383380.2403	Island 4	12	1232684	385838.1
Island 3	104	1244320.164	383510.5313	Island 4	13	1232643	386029.8
Island 3	105	1244361.779	383650.842	Island 4	14	1232590	386184.1
Island 3	106	1244445.425	383833.3466	Island 4	15	1232544	386295.4
Island 3	107	1244503.9	384012.4473	Island 4	16	1232474	386417.8
Island 3	108	1244544.857	384138.4044	Island 4	17	1232412	386511.3
Island 3	109	1244600.349	384253.6435	Island 4	18	1232361	386613.6
Island 3	110	1244637.474	384404.7705	Island 4	19	1232270	386789.2
Island 3	111	1244674.146	384546.2246	Island 4	20	1232187	386936
Island 3	112	1244689.28	384654.2193	Island 4	21	1232136	387042.8
Island 3	113	1244678.003	384734.3532	Island 4	22	1232065	387156.1
Island 3	114	1244629.237	384762.5474	Island 4	23	1231963	387299.4
Island 3	115	1244504.274	384766.2987	Island 4	24	1231851	387458
Island 3	116	1244377.925	384740.4477	Island 4	25	1231725	387617.3
Island 3	117	1244270.427	384688.0838	Island 4	26	1231602	387743.8
Island 3	118	1244193.374	384643.7981	Island 4	27	1231509	387811.2
Island 3	119	1244075.5	384582.841	Island 4	28	1231390	387847.4
Island 3	120	1243918.811	384544.112	Island 4	29	1231265	387851.3
Island 3	121	1243796.741	384498.1186	Island 4	30	1231175	387885.7
Island 3	122	1243623.497	384425.6481	Island 4	31	1231065	387916.6
Island 3	123	1243485.66	384360.9241	Island 4	32	1230941	387948.5
Island 3	124	1243346.403	384266.7131	Island 4	33	1230821	387956.5
Island 3	125	1243242.979	384189.9516	Island 4	34	1230739	387939.1
Island 3	126	1243174.313	384110.3909	Island 4	35	1230566	387892.7
Island 3	127	1243107.351	384065.6298	Island 4	36	1230551	387798.7
Island 3	128	1243046.048	384035.4923	Island 4	37	1230561	387555.5
Island 3	129	1242948.537	383977.9428	Island 4	38	1230626	387418.1
Island 3	130	1242906.183	383926.6511	Island 4	39	1230677	387295.8
Island 3	131	1242857.727	383851.1111	Island 4	40	1230765	387143.2
Island 3	132	1242762.649	383739.2226	Island 4	41	1230853	386994.6
Island 3	133	1242622.742	383630.951	Island 4	42	1230992	386805.6
Island 3	134	1242501.685	383501.0848	Island 4	43	1231052	386683.1
Island 3	135	1242328.627	383330.784	Island 4	44	1231132	386559.8
Island 3	136	1242155.934	383170.1147	Island 4	45	1231232	386382.8
Island 3	137	1241991.454	382979.0861	Island 4	46	1231307	386264.4
Island 3	138	1241955.619	382867.5051	Island 4	47	1231387	386150.2
Island 4	1	1233345.039	384356.0363	Island 4	48	1231441	386094.9
Island 4	2	1233313.771	384466.7403	Island 4	49	1231547	385932.1
Island 4	3	1233269.655	384602.1038	Island 4	50	1231617	385814.1
Island 4	4	1233183.56	384758.3712	Island 4	51	1231715	385675.4
Island 4	5	1233097.864	384848.737	Island 4	52	1231779	385543.6
Island 4	6	1233032.284	384951.8584	Island 4	53	1231904	385384.7

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Island 4	54	1232010.602	385245.6209	Island 5	17	1425946	402896.2
Island 4	55	1232099.445	385126.6927	Island 5	18	1426068	402873.9
Island 4	56	1232179.225	385017.6501	Island 5	19	1426231	402817
Island 4	57	1232268.601	384908.4916	Island 5	20	1426396	402782.3
Island 4	58	1232415.764	384724.5294	Island 5	21	1426517	402732.7
Island 4	59	1232499.592	384605.9529	Island 5	22	1426664	402681.9
Island 4	60	1232589.403	384505.7754	Island 5	23	1426819	402663.9
Island 4	61	1232661.569	384430.591	Island 5	24	1427007	402682.2
Island 4	62	1232705.225	384361.8548	Island 5	25	1427202	402722.3
Island 4	63	1232848.824	384202.1895	Island 5	26	1427412	402734.7
Island 4	64	1232925.384	384121.906	Island 5	27	1427631	402724.6
Island 4	65	1232998.081	384056.0914	Island 5	28	1427877	402702.3
Island 4	66	1233040.121	383963.8158	Island 5	29	1428146	402712.1
Island 4	67	1233099.293	383912.988	Island 5	30	1428267	402794.8
Island 4	68	1233173.621	383799.8286	Island 5	31	1428382	402872.2
Island 4	69	1233231.235	383725.0428	Island 5	32	1428523	403019.7
Island 4	70	1233289.134	383655.5415	Island 5	33	1428649	403189.9
Island 4	71	1233342.245	383586.2918	Island 5	34	1428771	403381.8
Island 4	72	1233415.472	383529.8519	Island 5	35	1428919	403631.5
Island 4	73	1233480.068	383488.5527	Island 5	36	1428989	403791.8
Island 4	74	1233548.786	383437.259	Island 5	37	1428868	403753.9
Island 4	75	1233600.28	383415.8263	Island 5	38	1428749	403737.3
Island 4	76	1233657.824	383484.2249	Island 5	39	1428547	403736
Island 4	77	1233674.376	383587.7636	Island 5	40	1428321	403794.9
Island 4	78	1233649.724	383722.3384	Island 5	41	1428176	403834
Island 4	79	1233594.626	383834.8118	Island 5	42	1428027	403900.4
Island 4	80	1233515.838	383952.9765	Island 5	43	1427888	403955.7
Island 4	81	1233453.663	384031.9772	Island 5	44	1427768	404042.9
Island 4	82	1233401.433	384115.7475	Island 5	45	1427631	404125.5
Island 4	83	1233360.962	384231.8699	Island 5	46	1427466	404203.7
Island 4	84	1233345.039	384356.0363	Island 5	47	1427322	404265.1
Island 5	1	1426170.471	404300.4929	Island 5	48	1427167	404315.4
Island 5	2	1425987.346	404259.9171	Island 5	49	1426928	404348.1
Island 5	3	1425733.64	404183.4141	Island 5	50	1426661	404365.2
Island 5	4	1425444.259	404066.9292	Island 5	51	1426464	404363
Island 5	5	1425316.348	404007.4479	Island 5	52	1426326	404336.6
Island 5	6	1425205.994	403920.0716	Island 5	53	1426170	404300.5
Island 5	7	1425092.226	403876.2051	Island 6	1	1424366	404320.9
Island 5	8	1424985.817	403805.4463	Island 6	2	1424535	404297.4
Island 5	9	1424917.609	403671.2366	Island 6	3	1424663	404307.4
Island 5	10	1424959.058	403556.3902	Island 6	4	1424843	404331
Island 5	11	1425046.334	403476.0191	Island 6	5	1424960	404367.3
Island 5	12	1425152.841	403351.025	Island 6	6	1425104	404430.8
Island 5	13	1425281.135	403230.0854	Island 6	7	1425255	404484.6
Island 5	14	1425374.106	403154.3977	Island 6	8	1425394	404548.8
Island 5	15	1425525.77	403058.6648	Island 6	9	1425465	404605.9
Island 5	16	1425766.859	402962.109	Island 6	10	1425407	404640.9

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Island 6	11	1425283.677	404669.0598	Island 7	29	1181264	403492.7
Island 6	12	1425184.609	404673.6874	Island 7	30	1181280	403244.7
Island 6	13	1425078.136	404710.5116	Island 7	31	1181283	403041.1
Island 6	14	1425010.282	404748.7967	Island 7	32	1181349	402951.1
Island 6	15	1424923.615	404746.3262	Island 7	33	1181497	402785.1
Island 6	16	1424796.991	404768.5959	Island 7	34	1181584	402549.3
Island 6	17	1424702.721	404795.067	Island 7	35	1181676	402414.5
Island 6	18	1424566.998	404823.8981	Island 7	36	1181766	402236.6
Island 6	19	1424404.36	404841.2622	Island 7	37	1181817	402118.1
Island 6	20	1424285.52	404840.2393	Island 7	38	1181844	401825.4
Island 6	21	1424146.159	404791.5808	Island 7	39	1182010	401455
Island 6	22	1424053.632	404751.8052	Island 8	1	1180422	409520.1
Island 6	23	1423961.785	404695.7097	Island 8	2	1180508	409506.4
Island 6	24	1423893.982	404625.2537	Island 8	3	1180504	409800.2
Island 6	25	1423920.024	404526.4775	Island 8	4	1180487	410107.3
Island 6	26	1423983.172	404465.8761	Island 8	5	1180495	410222.5
Island 6	27	1424093.157	404395.6848	Island 8	6	1180413	410465.2
Island 6	28	1424224.17	404342.8459	Island 8	7	1180363	410770.9
Island 6	29	1424365.875	404320.8666	Island 8	8	1180298	411130.9
Island 7	1	1182010.263	401454.9568	Island 8	9	1180156	411602.3
Island 7	2	1182065.011	401409.1566	Island 8	10	1180002	411941.2
Island 7	3	1182165.646	401420.2983	Island 8	11	1179763	412189.4
Island 7	4	1182297.075	401473.8564	Island 8	12	1179396	412425.8
Island 7	5	1182446.264	401600.2609	Island 8	13	1179206	412648.1
Island 7	6	1182571.009	401800.2298	Island 8	14	1179079	412855.3
Island 7	7	1182879.623	402391.8154	Island 8	15	1179005	413027
Island 7	8	1183078.875	402898.5565	Island 8	16	1179018	413334.7
Island 7	9	1183167.372	403261.5473	Island 8	17	1179015	413571.8
Island 7	10	1183186.504	403765.8183	Island 8	18	1179031	414040.5
Island 7	11	1183166.07	404614.8702	Island 8	19	1179094	414430
Island 7	12	1183069.681	405097.0441	Island 8	20	1179131	414772.3
Island 7	13	1182953.347	405562.9381	Island 8	21	1179157	415014.1
Island 7	14	1182857.482	405893.1648	Island 8	22	1179136	415143.3
Island 7	15	1182845.685	405938.3213	Island 8	23	1178914	415000.9
Island 7	16	1182790.234	405965.1487	Island 8	24	1178730	414772.9
Island 7	17	1182715.908	405915.3341	Island 8	25	1178620	414613.1
Island 7	18	1182658.392	405686.3616	Island 8	26	1178669	414347.1
Island 7	19	1182689.125	405491.565	Island 8	27	1178703	414198.2
Island 7	20	1182668.594	405190.9811	Island 8	28	1178745	414016.2
Island 7	21	1182632.383	404949.6031	Island 8	29	1178780	413763.1
Island 7	22	1182510.114	404767.675	Island 8	30	1178813	413441.7
Island 7	23	1182244.84	404498.2655	Island 8	31	1178799	413101.7
Island 7	24	1182035.571	404307.1087	Island 8	32	1178889	412700.4
Island 7	25	1181831.352	404182.2908	Island 8	33	1179005	412456.3
Island 7	26	1181632.081	404102.6727	Island 8	34	1179075	412214.7
Island 7	27	1181398.881	403923.0464	Island 8	35	1179307	411686.4
Island 7	28	1181333.295	403736.7941	Island 8	36	1179505	411298.8

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Island 8	37	1179774.702	410922.422	Island 9	42	1409277	417572.1
Island 8	38	1179995.11	410459.6028	Island 9	43	1409546	417632.2
Island 8	39	1180137.977	410138.6677	Island 9	44	1409741	417679.4
Island 8	40	1180260.085	409841.7166	Island 9	45	1410393	417875.3
Island 8	41	1180355.23	409635.4968	Island 9	46	1410659	417986.2
Island 8	42	1180421.843	409520.0923	Island 9	47	1410875	418075
Island 9	1	1401307.216	418743.5607	Island 9	48	1411236	418206.7
Island 9	2	1401434.341	418713.0899	Island 9	49	1411495	418274.5
Island 9	3	1401481.461	418732.0699	Island 9	50	1411693	418365.6
Island 9	4	1401458.865	418826.0922	Island 9	51	1411835	418441.2
Island 9	5	1401408.146	418875.3783	Island 9	52	1412059	418512.4
Island 9	6	1401337.432	418938.6555	Island 9	53	1412275	418629.5
Island 9	7	1401296.298	419007.1939	Island 9	54	1412347	418708.6
Island 9	8	1401412.557	418938.421	Island 9	55	1412447	418799.7
Island 9	9	1401516.51	418875.5253	Island 9	56	1412486	418926.3
Island 9	10	1401652.7	418802.1431	Island 9	57	1412560	419027.2
Island 9	11	1401902.122	418694.4226	Island 9	58	1412726	419139.3
Island 9	12	1401976.791	418639.5706	Island 9	59	1412809	419228.4
Island 9	13	1402199.046	418511.69	Island 9	60	1412659	419206.9
Island 9	14	1402444.662	418367.002	Island 9	61	1412578	419123
Island 9	15	1402708.144	418297.443	Island 9	62	1412389	418993.8
Island 9	16	1403034.498	418239.8157	Island 9	63	1412262	418985.8
Island 9	17	1403351.926	418175.9528	Island 9	64	1412143	418984.9
Island 9	18	1403655.324	418093.7592	Island 9	65	1411933	418955.6
Island 9	19	1403874.331	417998.2619	Island 9	66	1411785	418910.3
Island 9	20	1404217.636	417870.4722	Island 9	67	1411553	418872
Island 9	21	1404373.573	417819.7061	Island 9	68	1411389	418838
Island 9	22	1404531.269	417792.5289	Island 9	69	1411062	418843.1
Island 9	23	1404757.254	417752.9318	Island 9	70	1410832	418818
Island 9	24	1404952.859	417700.4183	Island 9	71	1410700	418775.1
Island 9	25	1405198.149	417661.1582	Island 9	72	1410506	418808
Island 9	26	1405500.982	417629.9689	Island 9	73	1410148	418870.6
Island 9	27	1405813.264	417605.1349	Island 9	74	1409886	418903.8
Island 9	28	1406031.721	417578.6369	Island 9	75	1409628	418931.5
Island 9	29	1406252.811	417582.938	Island 9	76	1409368	418966.6
Island 9	30	1406467.665	417611.5778	Island 9	77	1409230	418978.6
Island 9	31	1406673.33	417628.8537	Island 9	78	1408852	419029.8
Island 9	32	1407138.165	417672.1073	Island 9	79	1408644	419058.1
Island 9	33	1407455.029	417693.8262	Island 9	80	1408433	419062.6
Island 9	34	1407812.238	417709.3137	Island 9	81	1408178	419082.5
Island 9	35	1408048.72	417709.4105	Island 9	82	1407908	419119.9
Island 9	36	1408224.875	417721.7064	Island 9	83	1407755	419126.1
Island 9	37	1408431.185	417705.2405	Island 9	84	1407351	419197.1
Island 9	38	1408597.226	417702.6313	Island 9	85	1407043	419231.7
Island 9	39	1408806.751	417638.5522	Island 9	86	1406796	419251.3
Island 9	40	1408956.523	417590.6598	Island 9	87	1406530	419252.7
Island 9	41	1409091.025	417556.3393	Island 9	88	1406319	419242

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Island 9	89	1406183.501	419248.3189	Island 9	136	1399814	419762.9
Island 9	90	1405729.752	419275.2815	Island 9	137	1399989	419664.5
Island 9	91	1405435.125	419295.833	Island 9	138	1400090	419565
Island 9	92	1405127.349	419367.1434	Island 9	139	1400201	419487.4
Island 9	93	1405021.843	419434.775	Island 9	140	1400318	419383.5
Island 9	94	1404905.079	419533.1802	Island 9	141	1400410	419292.5
Island 9	95	1404726.272	419628.672	Island 9	142	1400527	419185.6
Island 9	96	1404631.28	419693.0791	Island 9	143	1400635	419091.8
Island 9	97	1404244.232	419882.314	Island 9	144	1400793	418979.4
Island 9	98	1403893.298	419987.3531	Island 9	145	1400988	418858.6
Island 9	99	1403629.839	420072.1365	Island 9	146	1401196	418772.6
Island 9	100	1403529.546	420088.6244	Island 9	147	1401307	418743.6
Island 9	101	1403140.896	420244.3954	Island 10	1	1348454	423033.6
Island 9	102	1402799.419	420272.9836	Island 10	2	1348483	422902.7
Island 9	103	1402553.096	420293.5325	Island 10	3	1348512	422765.3
Island 9	104	1402325.851	420342.9167	Island 10	4	1348573	422650.1
Island 9	105	1402111.027	420408.1388	Island 10	5	1348622	422536.2
Island 9	106	1401881.261	420434.3255	Island 10	6	1348667	422453.1
Island 9	107	1401770.974	420452.566	Island 10	7	1348718	422381.7
Island 9	108	1401278.547	420582.6116	Island 10	8	1348828	422330.8
Island 9	109	1400959.848	420672.8642	Island 10	9	1348900	422282.9
Island 9	110	1400603.64	420790.6762	Island 10	10	1349011	422256.8
Island 9	111	1400263.513	420894.3619	Island 10	11	1349110	422249.8
Island 9	112	1400048.891	420967.7638	Island 10	12	1349241	422234.1
Island 9	113	1399945.806	421003.898	Island 10	13	1349334	422221.4
Island 9	114	1399802.777	421085.7366	Island 10	14	1349427	422208.7
Island 9	115	1399453.381	421175.8353	Island 10	15	1349512	422178.2
Island 9	116	1399210.557	421160.8199	Island 10	16	1349592	422154.3
Island 9	117	1399056.734	421046.2408	Island 10	17	1349709	422140.1
Island 9	118	1398872.603	420877.5355	Island 10	18	1349808	422127.2
Island 9	119	1398730.462	420740.4521	Island 10	19	1349876	422116.4
Island 9	120	1398501.089	420696.9242	Island 10	20	1349936	422087.4
Island 9	121	1398264.273	420748.5305	Island 10	21	1349991	422083.6
Island 9	122	1398124.633	420805.7087	Island 10	22	1350139	422061.4
Island 9	123	1398005.95	420854.5932	Island 10	23	1350248	422029.3
Island 9	124	1397916.128	420859.7218	Island 10	24	1350338	421979.8
Island 9	125	1397941.573	420725.42	Island 10	25	1350429	421955
Island 9	126	1398074.064	420563.1073	Island 10	26	1350576	421938.7
Island 9	127	1398259.636	420471.377	Island 10	27	1350747	421895.7
Island 9	128	1398488.382	420394.462	Island 10	28	1350881	421861.8
Island 9	129	1398670.797	420328.7533	Island 10	29	1351014	421821.8
Island 9	130	1398842.421	420248.8127	Island 10	30	1351117	421783.5
Island 9	131	1398999.937	420164.5686	Island 10	31	1351231	421732.5
Island 9	132	1399166.037	420079.6647	Island 10	32	1351346	421687.1
Island 9	133	1399310.991	420017.2507	Island 10	33	1351485	421628.2
Island 9	134	1399420.871	419965.5387	Island 10	34	1351587	421571.5
Island 9	135	1399605.621	419873.6188	Island 10	35	1351718	421500.3

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Island 10	36	1351827.92	421468.0401	Island 10	83	1356006	422606
Island 10	37	1351943.075	421428.8038	Island 10	84	1355835	422635.7
Island 10	38	1352101.791	421393.0752	Island 10	85	1355694	422644.8
Island 10	39	1352225.092	421384.4331	Island 10	86	1355523	422674.2
Island 10	40	1352409.513	421365.4134	Island 10	87	1355321	422699.6
Island 10	41	1352556.211	421336.775	Island 10	88	1355161	422710
Island 10	42	1352660.89	421329.5259	Island 10	89	1355020	422719.3
Island 10	43	1352865.586	421340.0086	Island 10	90	1354880	422753.1
Island 10	44	1353046.328	421364.5069	Island 10	91	1354761	422816.8
Island 10	45	1353183.206	421380.1532	Island 10	92	1354677	422853.6
Island 10	46	1353338.167	421388.0273	Island 10	93	1354559	422960.3
Island 10	47	1353488.755	421427.4452	Island 10	94	1354459	423029
Island 10	48	1353637.855	421441.9754	Island 10	95	1354404	423044.9
Island 10	49	1353774.276	421451.2428	Island 10	96	1354229	423099.7
Island 10	50	1353923.672	421472.4023	Island 10	97	1354084	423159
Island 10	51	1354073.054	421493.2015	Island 10	98	1353940	423218.4
Island 10	52	1354301.877	421502.5985	Island 10	99	1353838	423268.3
Island 10	53	1354573.654	421509.6441	Island 10	100	1353729	423306.8
Island 10	54	1354758.989	421515.9006	Island 10	101	1353566	423360.8
Island 10	55	1354967.726	421502.1792	Island 10	102	1353470	423410.8
Island 10	56	1355133.476	421491.3458	Island 10	103	1353347	423419
Island 10	57	1355298.1	421462.1559	Island 10	104	1353217	423409.3
Island 10	58	1355468.404	421426.0745	Island 10	105	1353110	423366.7
Island 10	59	1355651.722	421401.942	Island 10	106	1352992	423343.9
Island 10	60	1355779.806	421381.4	Island 10	107	1352818	423324.3
Island 10	61	1355860.585	421394.7218	Island 10	108	1352677	423346.1
Island 10	62	1356036.303	421451.7185	Island 10	109	1352508	423394.8
Island 10	63	1356174.421	421498.8212	Island 10	110	1352401	423470.2
Island 10	64	1356290.572	421590.4823	Island 10	111	1352294	423526.7
Island 10	65	1356382.201	421684.1208	Island 10	112	1352180	423590.1
Island 10	66	1356517.445	421786.9469	Island 10	113	1352060	423641.7
Island 10	67	1356647.274	421902.8832	Island 10	114	1351922	423712.8
Island 10	68	1356776.334	422006.1578	Island 10	115	1351809	423769.6
Island 10	69	1356937.829	422138.6536	Island 10	116	1351652	423835.7
Island 10	70	1357058.84	422211.6454	Island 10	117	1351536	423855.7
Island 10	71	1357167.578	422285.4147	Island 10	118	1351347	423886.8
Island 10	72	1357265.153	422378.7986	Island 10	119	1351221	423944.8
Island 10	73	1357361.239	422447.2172	Island 10	120	1351077	423923.7
Island 10	74	1357419.508	422499.0899	Island 10	121	1350973	423843.8
Island 10	75	1357360.506	422540.1641	Island 10	122	1350949	423752.9
Island 10	76	1357250.402	422547.0046	Island 10	123	1350990	423620.8
Island 10	77	1357103.6	422556.1254	Island 10	124	1351031	423482
Island 10	78	1356968.908	422564.4944	Island 10	125	1350972	423436.4
Island 10	79	1356741.205	422559.7451	Island 10	126	1350902	423503.1
Island 10	80	1356587.258	422557.0056	Island 10	127	1350877	423591.2
Island 10	81	1356366.643	422570.817	Island 10	128	1350849	423735.1
Island 10	82	1356152.789	422596.6191	Island 10	129	1350794	423849.6

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Island 10	130	1350694.535	423930.2697	Island 11	19	1302306	419626.4
Island 10	131	1350600.571	424004.2769	Island 11	20	1302407	419733.8
Island 10	132	1350479.149	424037.0843	Island 11	21	1302471	419809.1
Island 10	133	1350289.469	424067.71	Island 11	22	1302582	419930.5
Island 10	134	1350098.407	424079.9807	Island 11	23	1302663	420049.4
Island 10	135	1349907.304	424098.48	Island 11	24	1302708	420125.6
Island 10	136	1349744.656	424084.6926	Island 11	25	1302779	420250
Island 10	137	1349512.121	424057.0282	Island 11	26	1302818	420317.2
Island 10	138	1349329.158	424026.1769	Island 11	27	1302907	420474.9
Island 10	139	1349147.079	424007.9544	Island 11	28	1302993	420593.3
Island 10	140	1348939.432	423978.8599	Island 11	29	1303143	420711.9
Island 10	141	1348789.585	423976.8881	Island 11	30	1303229	420815.1
Island 10	142	1348591.512	424002.7704	Island 11	31	1303265	420871.7
Island 10	143	1348456.707	424043.0939	Island 11	32	1303300	420924.7
Island 10	144	1348327.762	424076.4859	Island 11	33	1303405	421031.5
Island 10	145	1348217.819	424115.106	Island 11	34	1303550	421136
Island 10	146	1348014.957	424071.8527	Island 11	35	1303645	421233.7
Island 10	147	1347981.185	424026.4111	Island 11	36	1303749	421316
Island 10	148	1348011.052	423907.6654	Island 11	37	1303849	421408.4
Island 10	149	1348056.116	423830.6667	Island 11	38	1303949	421515.5
Island 10	150	1348126.721	423764.1503	Island 11	39	1304038	421594
Island 10	151	1348182.185	423655.4118	Island 11	40	1304117	421672.7
Island 10	152	1348213.567	423560.9967	Island 11	41	1304216	421740.6
Island 10	153	1348262.791	423453.1185	Island 11	42	1304358	421800.3
Island 10	154	1348289.492	423383.5318	Island 11	43	1304497	421895.5
Island 10	155	1348402.01	423289.6903	Island 11	44	1304674	421962.6
Island 10	156	1348448.503	423237.1211	Island 11	45	1304837	422031.3
Island 10	157	1348455.363	423150.5584	Island 11	46	1305062	422080.4
Island 10	158	1348454.053	423033.5574	Island 11	47	1305194	422131
Island 11	1	1299824.041	418029.2933	Island 11	48	1305313	422222.4
Island 11	2	1299829.872	417924.0056	Island 11	49	1305455	422297.3
Island 11	3	1299965.463	417925.896	Island 11	50	1305583	422363.5
Island 11	4	1300118.585	417955.898	Island 11	51	1305728	422403.3
Island 11	5	1300271.708	417986.2159	Island 11	52	1305965	422411.7
Island 11	6	1300396.845	418042.9498	Island 11	53	1306341	422450.7
Island 11	7	1300554.346	418127.6116	Island 11	54	1306507	422513.6
Island 11	8	1300681.499	418214.1674	Island 11	55	1306684	422591
Island 11	9	1300840.145	418323.7861	Island 11	56	1306858	422703
Island 11	10	1300978.373	418434.2733	Island 11	57	1306975	422779.4
Island 11	11	1301097.14	418556.2694	Island 11	58	1307085	422886.4
Island 11	12	1301233.939	418656.8334	Island 11	59	1307358	423100.4
Island 11	13	1301336.119	418764.9935	Island 11	60	1307478	423211.5
Island 11	14	1301446.252	418847.0542	Island 11	61	1307652	423333.4
Island 11	15	1301597.577	418951.8731	Island 11	62	1307836	423449.3
Island 11	16	1301698.834	419054.666	Island 11	63	1307934	423531.9
Island 11	17	1302071.975	419378.1929	Island 11	64	1308142	423636.4
Island 11	18	1302178.845	419500.5302	Island 11	65	1308565	423788.2

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Island 11	66	1308845.261	423890.816	Island 11	113	1307495	424582.1
Island 11	67	1308987.703	423933.9905	Island 11	114	1307360	424552.1
Island 11	68	1309158.173	424004.482	Island 11	115	1307160	424421.9
Island 11	69	1309296.703	424042.8852	Island 11	116	1307003	424263.8
Island 11	70	1309453.624	424109.5263	Island 11	117	1306841	424100.6
Island 11	71	1309750.872	424211.0118	Island 11	118	1306651	423914.4
Island 11	72	1309980.328	424278.5633	Island 11	119	1306514	423769.5
Island 11	73	1310122.731	424332.6611	Island 11	120	1306400	423682.6
Island 11	74	1310300.526	424409.7602	Island 11	121	1306320	423603.2
Island 11	75	1310548.304	424473.1155	Island 11	122	1306216	423520.5
Island 11	76	1310739.443	424510.5919	Island 11	123	1306127	423437.2
Island 11	77	1310904.305	424529.8068	Island 11	124	1305989	423366.7
Island 11	78	1311092.072	424528.0345	Island 11	125	1305893	423263.7
Island 11	79	1311204.713	424570.7228	Island 11	126	1305797	423215.5
Island 11	80	1311332.122	424612.541	Island 11	127	1305656	423105.2
Island 11	81	1311441.094	424670.6867	Island 11	128	1305499	422966.5
Island 11	82	1311565.493	424737.3642	Island 11	129	1305375	422885.2
Island 11	83	1311829.124	424875.6555	Island 11	130	1305261	422803.2
Island 11	84	1311741.033	424950.3534	Island 11	131	1305112	422708.9
Island 11	85	1311658.992	424975.0204	Island 11	132	1304975	422653.5
Island 11	86	1311544.366	425021.7661	Island 11	133	1304847	422587.4
Island 11	87	1311449.687	425067.2992	Island 11	134	1304731	422545.5
Island 11	88	1311344.68	425103.6004	Island 11	135	1304577	422466.3
Island 11	89	1311223.648	425120.7562	Island 11	136	1304421	422417.3
Island 11	90	1311122.42	425136.7129	Island 11	137	1304322	422334.5
Island 11	91	1310996.265	425144.3429	Island 11	138	1304161	422221.4
Island 11	92	1310879.691	425151.4406	Island 11	139	1304007	422127.7
Island 11	93	1310745.307	425174.4236	Island 11	140	1303744	421961.9
Island 11	94	1310634.95	425191.4679	Island 11	141	1303610	421881.5
Island 11	95	1310491.197	425220.1043	Island 11	142	1303444	421753.8
Island 11	96	1310293.306	425242.8389	Island 11	143	1303324	421667.5
Island 11	97	1310096.89	425231.7254	Island 11	144	1303190	421572.4
Island 11	98	1309889.676	425211.4255	Island 11	145	1303055	421472.4
Island 11	99	1309694.218	425200.5486	Island 11	146	1302879	421340.4
Island 11	100	1309508.434	425175.2198	Island 11	147	1302722	421207.1
Island 11	101	1309316.787	425130.4042	Island 11	148	1302629	421148.6
Island 11	102	1309084.93	425075.0476	Island 11	149	1302514	421042.5
Island 11	103	1308951.476	425036.5791	Island 11	150	1302385	420961.9
Island 11	104	1308845.033	425015.6864	Island 11	151	1302292	420899
Island 11	105	1308712.934	424982.1532	Island 11	152	1302183	420807.3
Island 11	106	1308554.97	424930.8868	Island 11	153	1302074	420725.3
Island 11	107	1308357.408	424877.7428	Island 11	154	1301975	420642.7
Island 11	108	1308199.801	424825.6762	Island 11	155	1301876	420560
Island 11	109	1308079.445	424805.7907	Island 11	156	1301777	420487.6
Island 11	110	1307908.104	424764.3803	Island 11	157	1301663	420390.8
Island 11	111	1307780.814	424714.7589	Island 11	158	1301542	420275.1
Island 11	112	1307653.317	424659.9905	Island 11	159	1301451	420161.7

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Island 11	160	1301351.279	420069.0971
Island 11	161	1301276.459	419979.6345
Island 11	162	1301180.378	419866.8849
Island 11	163	1301100.46	419777.6756
Island 11	164	1301031.021	419697.5975
Island 11	165	1300953.633	419573.5535
Island 11	166	1300880.028	419508.5109
Island 11	167	1300815.903	419438.2858
Island 11	168	1300692.318	419297.0246
Island 11	169	1300622.609	419221.7221
Island 11	170	1300514.695	419099.0066
Island 11	171	1300412.437	418991.0716
Island 11	172	1300303.735	418868.2041
Island 11	173	1300176.359	418706.8078
Island 11	174	1300103.93	418616.5437
Island 11	175	1300006.041	418522.9863
Island 11	176	1299945.442	418456.6979
Island 11	177	1299881.485	418290.9574
Island 11	178	1299835.607	418163.7113
Island 11	179	1299824.041	418029.2933



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