

International Boundary Commission

United States and Canada

Joint Annual Report

2016



**The Honorable Rex W. Tillerson
The Secretary of State for the United States
Washington, D.C.**

**The Honorable Chrystia Freeland
Minister of Foreign Affairs
Ottawa**

Dear Mr. Tillerson and Ms Freeland:

We have the honor to submit herewith to each government a joint report of the Commissioners regarding the maintenance and regulatory work performed in the calendar year 2016 with respect to the International Boundary between the United States and Canada.

This is the 92nd annual joint report submitted by the Commissioners under the provision of Article IV of the Treaty of Washington, February 24, 1925. This report contains a complete account of all boundary inspection and maintenance work executed from January 1st to December 31st, 2016.

Respectfully submitted,

Kyle K. Hipsley
United States Commissioner

Jean Gagnon
Canadian Commissioner



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1.0 EXECUTIVE SUMMARY

The International Boundary Commission is a joint organization composed of two Commissioners duly appointed by Canada and the United States to maintain an effective boundary line between the two countries, as per the provisions of the Treaty of 1925.

The International Boundary Commission ensures the maintenance and integrity of a peaceful, well-defined boundary between Canada and the United States, contributing to the mutual safety and prosperity of the citizens of both countries.

To fulfill its mandate, the Commission carries out routine inspections, repairs or replaces damaged boundary monuments, maintains vistas open through woods and forests, and keeps boundary coordinates up to date by carrying out additional surveys as required.

The Commission is organized in two sections under the leadership of the Canadian and United States Commissioners. The maintenance work is shared equitably between the two sections, based on the long-term plan revised periodically by the two Commissioners.

Efforts were focused on vista clearing and survey of the Alaska/Yukon/British Columbia boundary, vista clearing and surveys along the 49th parallel, as well as inspection and maintenance of monuments along the Quebec/New York boundary, the St. Croix River and from Lake of the Woods to Lake Superior. In addition, we performed vista clearing and inspection of the N.E. Section of the Highlands (Maine/Quebec), demarcation and clearing along the St. Francis River, and a conventional survey along Halls Stream (Quebec/New Hampshire).

The Commission is now fully in line with the 15 year maintenance plan, and efforts are put towards updating the official maps and publication of updated official coordinates. The long-term plan is in the process of being re-designed to accommodate changes in the business processes as a result of the implementation of the GIS, and to address the mapping project.

The United States Commissioner is Kyle K. Hipsley, who has long served the United States section, most recently as Deputy Commissioner. Peter Sullivan is Surveyor General of Canada Lands and therefore pursuant to the International Boundary Commission Act (Canada) is also Canada's International Boundary Commissioner.



Kyle K. Hipsley, American Commissioner



Peter Sullivan, Canadian Commissioner



2.0 INTRODUCTION

This is the 92nd Annual Report on the maintenance of the International Boundary between the United States and Canada as set forth by the Treaty of 1925. This report sets out how the boundary between Canada and the United States – from Atlantic to Pacific Oceans, and from Pacific Ocean to Beaufort Sea – was maintained in 2016. It is a compilation of activities, and correlates maintenance activities with short and long-term maintenance plans.

The boundary between the United States and Canada came into being as a result of some 26 Treaties, Conventions, Protocols, Decisions and Awards between the 1783 *Treaty of Peace* (between Great Britain and the United States) and the 1925 *International Boundary Treaty* (between Canada and the United States). Although there were ad hoc boundary commissions over the years, the IBC dates to the *Treaty of 1908* which appointed two Commissioners to locate and mark the boundary between the two countries. The International Boundary Commission (IBC) was established on a permanent basis by the *Treaty of 1925*, with a mandate to maintain the boundary under the direction of the two Commissioners.

The IBC's mandate is thus found in the 1908 and 1925 treaties, and for the Canadian section, in the *International Boundary Commission Act, 1960*. The mandate states: “*The Commissioners appointed under the provisions of the Treaty of April 11, 1908, are hereby jointly empowered and directed: to inspect the various sections of the boundary line between the Dominion of Canada and the United States and between the Dominion of Canada and Alaska at such times as they shall deem necessary; to repair all damaged monuments and buoys; to relocate and rebuild monuments which have been destroyed; to keep the boundary vistas open; to move boundary monuments to new sites and establish such additional monuments and buoys as they shall deem desirable; to maintain at all times an effective boundary line between the Dominion of Canada and the United States and between the Dominion of Canada and Alaska*” (*International Boundary Treaty 1925*)¹

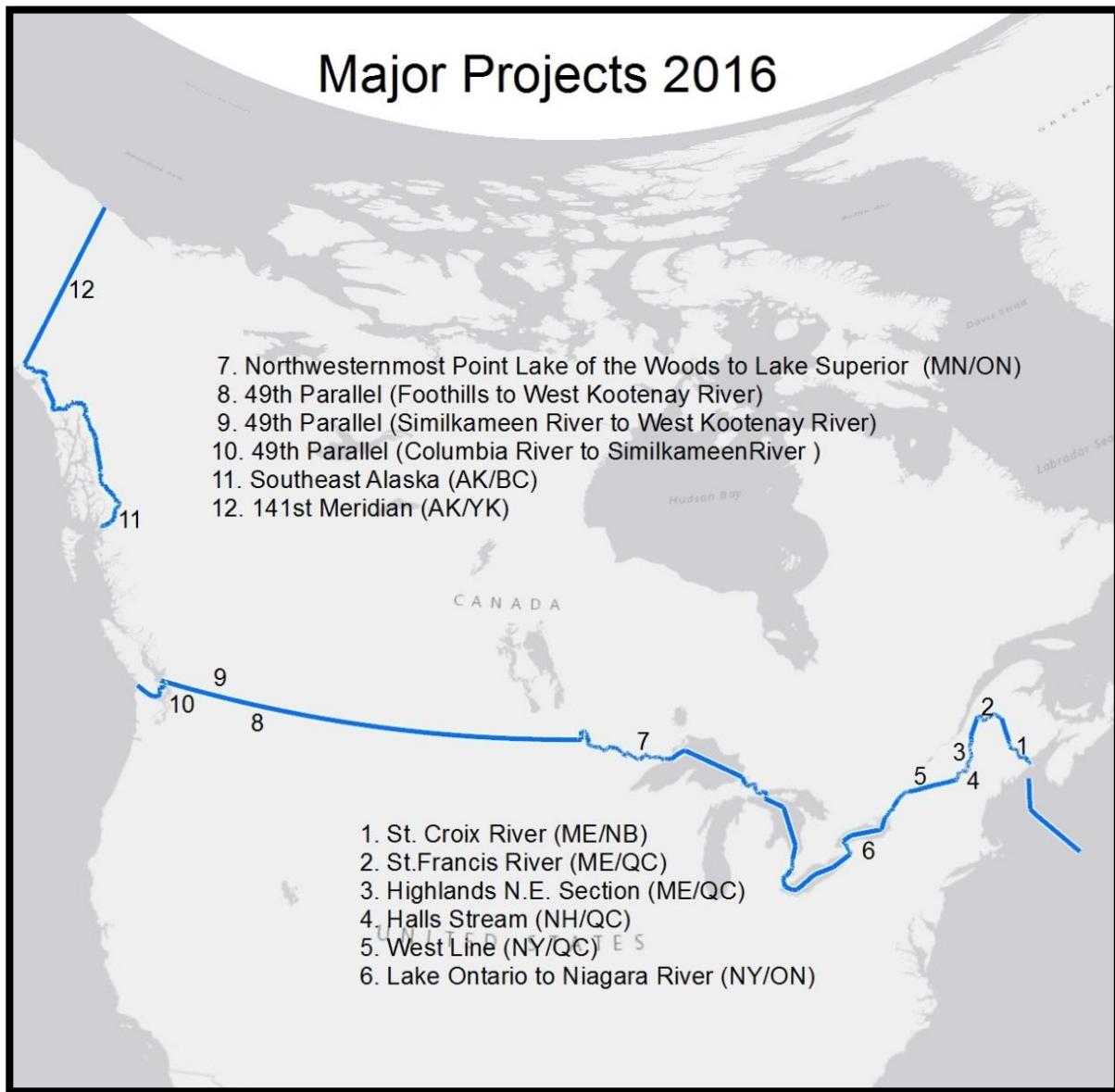
The IBC consists of a United States and a Canadian section, each of which reports to its respective governments. Appointed in the fall of 2014 by President Obama, the United States Commissioner is Kyle Hipsley; he has served the United States section for more than 32 years, most recently as Deputy Commissioner. The Canadian Commissioner is Peter Sullivan, who has been appointed by Order in Council by virtue of being the Surveyor General for Canada Lands in 2007. Technical, administrative and policy personnel within each section are supplemented by seasonal employees.

¹ Treaty between the United States of America and His Britannic Majesty, in respect of the Dominion of Canada to define more accurately at certain points and to complete the international boundary between the United States and Canada and to maintain the demarcation of that boundary, signed at Washington, February 24, 1925, ratifications exchanged at Washington, July 17, 1925.



3.0 MAJOR MAINTENANCE ACTIVITIES 2016

The 2016 field season began in May and ended in October. Major efforts were focused along the St. Croix River, the Saint Francis River, the Highlands, Halls Stream, the West Line, Lake of the Woods to Lake Superior, the 49th parallel, and the 141st meridian. The narrative section provides an overview of the work, while the technical appendices provide more detailed statistical information.



Major maintenance activities in 2016



3.1 St. Croix River Monument Recovery (Maine / New Brunswick)

From Passamaquoddy Bay the boundary follows a system of rivers and lakes to the Source of the St. Croix River, near Houlton, Maine. This 129 mile (210 km) section of the boundary is made up of 1090 straight-line boundary courses along the deepest channel of the waterway. The many turning points between boundary courses are referenced by 256 monuments. Much of the St. Croix River boundary passes through heavily forested countryside, thus making access to the boundary points and monuments difficult. The crew completed the recovery operations over a period of approximately 6 weeks.



From left to right: Graig Hill, Paul Roy, Dale Foley Jr., Stephen Ryan, Kevin Bagwell and Mike Carton

3.2 St. Francis River Demarcation and Clearing (Maine / Quebec)



New monument being poured at TP 418

land. This project was the continuation of previous years' efforts to maintain and mark the St. Francis River.

A separate crew surveyed 7 monuments between the St. John River and the north end of Beau Lake to provide quality control checks on previous surveys.

The St. Francis River, its source at Lake Pohenegamook, runs southerly for a distance of 43 Miles (70 km) to the St. John River. The boundary of the river consists of 485 turning points, which are referenced by 122 monuments. The United States side of the river is dense forested area and the Canadian side is low lying farm fields. North of Beau Lake the course has changed and what was once water is now long stretches of



3.3 Highlands Clearing, Inspection and Survey (N.E. Section, Maine/Quebec)

One of the most difficult and demanding sections of the boundary to maintain is the 175 mile (282 km) height-of-land boundary from Little Lake St. John to Halls Stream. The N.E. Section is 80 miles (129 Km) long and demarcated by 1,660 monuments between straight-line courses and a 20-foot (six-metre) vista through forests. The boundary follows the crests of mountains and ridges that divide the water flowing into the St. Lawrence from the water flowing eastward into the Atlantic. The mountains in the Highlands range upwards to 3,900 feet (1,200 metres) in elevation and are heavily forested. The objective was to re-survey certain traverses to improve precision and also to direct personnel resources to work on the inspection of the northeast section which was simultaneously being cleared under contract from Monument 314 to Monument 405.



Taking survey observations with the Trimble M3 total station

3.4 Halls Stream Conventional Survey

From the Highlands the boundary follows Halls Stream from its source until it intersects the 45th Parallel boundary. This water boundary follows a shallow stream through heavy forest along much of its length. As it approaches the 45th Parallel, however, the stream passes through low farmland where it has a tendency to change course during flood conditions. Consequently, in many areas where the boundary once followed the river, it now crosses land. The 27 mile (43 km) Halls Stream boundary is defined by 767 turning points which are referenced by 55 monuments.



Looking downstream on Halls Stream in the vicinity of MONTP302

The purpose of the survey was to provide positional accuracies of various Reference Monuments to strengthen the existing GPS network.



3.5 West Line Monument Maintenance (New York/Quebec)

The New York/Québec boundary approximates the 45th Parallel, and is a continuation of the Vermont/Québec boundary. The line passes through farmland and forests for a distance of 65 miles (105 km). This section of the line is easily accessible with many roads and trails crossing the boundary. Demarcation is by 156 monuments and a 20-foot (six-metre) cleared vista through forests. Maintenance was carried out between Mon 722 at Jamison Line and west to Mon 756. In total, seven monuments were reconstructed and one new monument 755A was established.



The International Hotel, Dundee/Fort Covington. Built in 1820 and closed in 1991. Still functions as a mail depot.

3.6 Lake of the Woods to Lake Superior Reference Monument Inspection (Minnesota/Ontario)



Reference monument 62 after cleaning and painting

The section of boundary from Lake Superior to Lake of the Woods, being almost entirely a water boundary, passes through 32 lakes and an equal number of connecting rivers. Because the boundary region between Lake Superior and Rainy River is remote and difficult to access, the area is restricted mainly to recreation activity. The 290 mile (467 km) section of boundary is defined by 1,562 turning points which are referenced by 1,100 monuments. Reference monuments are located along the shores of lakes and rivers and many are subject to erosion, ice action and vandalism.

3.7 49th Parallel Vista Clearing (Foothills to West Kootenay River, Washington-Idaho/ British Columbia)

The boundary line through the Foothills and westward across the summit of the Rocky Mountains represents the Montana/Idaho-Alberta/British Columbia section of the International boundary. It is one of the most difficult sections of line to maintain. The boundary traverses mountain ranges upwards to 10,000 feet (3,050 metres) in elevation and few roads give access to the line. The entire section of line is heavily forested, with the exception of a few mountain peaks, and the vista can be maintained only by clearing operations.



In 2016, a clearing contract was issued to Glacier National Park service to clear 3.1 miles (4.9 km) of vista from the South ridge of MT Alderson (0.6 miles west of Monument 274) to Monument 273.

3.8 49th Parallel (Similkameen River to West Kootenay River, Washington-Idaho/ British Columbia)

This 145 mile (233 km) section of the line is marked by 97 monuments and a 20-foot (six-metre) vista through forests. The line traverses several mountain ranges that are predominantly forest covered. The objective was to install range towers on both shores along Lake Osoyoos and Lake Koocanusa. U.S. Coast Guard technicians provided invaluable support for placing the range towers by using one of their programs, to design illumination and visibility studies for each terrain. Their design ensured the optimum in distance and height difference between each of the range marks. Further details are provided in Appendix C.



Range Towers erected on the west side of Lake Koocanusa

3.9 49th Parallel (Columbia Valley to Similkameen River Monument Maintenance, Inspection and clearing (Washington/British Columbia)



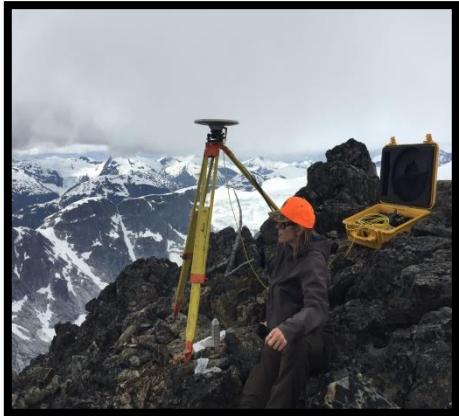
Monument 68 with GPS, Cascade Segment - 49th parallel

The British Columbia-Washington boundary traversing the mountain ranges inland from the Pacific, presents one of the more difficult sections of the line to maintain. Mountains are abrupt and densely forested. Only one road intersects the boundary which makes access to the line very difficult. This 106 mile (170 km) of remote and difficult boundary is marked by 67 monuments and a 20-foot (six-metre) vista. Survey and monument maintenance were performed along the Cascade segment. A clearing contract which had initially been started in 2015 was halted due to fire hazard but was completed in 2016.



3.10 Southeast Alaska GPS Surveys and Clearing (Alaska/British Columbia)

The Southeast Alaska boundary was first surveyed during the years 1904 to 1914. Until the 1970's no extensive maintenance had been completed since the original survey. The boundary line crosses Dixon Entrance and ascends the length of Portland Canal for a total distance of 180 miles (290 km). From the head of the canal the line follows a series of mountain peaks about 30 miles (48 km) from the coast until it intersects the 141st Meridian. While much of the line passes over perpetual snowfields, numerous rivers lined with heavy timber cross the boundary between mountain peaks. It is across these rivers that maintenance on a 10-year cycle is required to effectively mark the line. The Portland Canal water boundary is defined by 28 turning points which are referenced by 52 monuments. The 710 miles (1,142 km) of land boundary is defined by 90 mountain peaks with 97 intermediate monuments and a 20-foot (six-metre) vista through forests.



Bree Stefanson, GPS Survey Southeast Alaska

During July and August of this field season, Deputy Commissioner Moore performed GPS surveys along the Southeast Alaska/British Columbia boundary. He was aided by Stewart, BC resident Bree Stefanson who proved to be an outstanding assistant. Her skills working in this dangerous environment rivaled the most seasoned veterans the IBC has employed. It is noteworthy that she is likely the first woman to stand on some of these mountains. The goal of this project was to capture additional vectors between monuments that were not observed during the 2008 and 2009 campaigns. Weather is a huge factor in this area and again proved to be the largest barrier to completing the work. Many of the

boundary monuments are in need of minor repairs with a number also requiring major work. Some of the original control points were occupied during the visit to aid in computations of the unmarked boundary peaks.

The IBC also performed vista clearing from Mon 1 at the Hyder, AK / Stewart, BC point of entry to Mon 29. These 5 valleys were last cleared 10 years ago which is the preferred cycle in this region due to accelerated growth rates over the past several years. The Commission will continue clearing along this section in 2017.

3.11 141st Meridian GPS Surveys (Alaska/Yukon)

The 650 miles (1,045 km) of straight-line boundary along the 141st Meridian from Mount St. Elias to the Arctic Ocean, was originally surveyed during the years 1907-1913. The original survey established control, projected the line, established monumentation, and mapped a 4-mile (6-km) strip along the entire boundary. A total of 191 monuments and 373 miles (600 km) of cleared vista mark the 141st Meridian boundary. The objective of this project was to perform survey operations and monument maintenance from Monument 138 to 191. While setting up on Monument 189, the



Original concrete bags found from 1909



crew found stuffed into the rocks, the original concrete bags and a canvas tarp that was used to mix it with, from 1909. The stenciling on one of the bags was surprisingly still legible.

4.0 MINOR MAINTENANCE ACTIVITIES 2016

As a result of a 2015 bridge replacement in Buffalo, NY, reference monument RM 34-98 was destroyed and had to be replaced.

Warning signs were placed on Range Tower C in Boundary Bay (Washington/British Columbia). In addition, a survey was conducted to determine the placement of a proposed fence along Roosevelt Way for a Canadian landowner in Point Roberts.

An inventory of the power poles along 0th Avenue was compiled for future communications with BC Hydro.

5.0 COMMISSIONERS' ACTIVITIES

5.1 Field Inspections

The inspections carried out by the commissioners and their assistants ensure that the work performed in the field, under their direction, meets the standards of the Commission and is done in accordance with the Treaty.

Commissioners' inspection took place May 30th to June 6th along the 49th Parallel between Washington and British Columbia. Commissioner Hipsley and Commissioner Sullivan visited Lake Osoyoos and the site of new Range Towers being erected on the east side of the lake. Of note during the inspections was a retaining wall within the vista, encroaching power poles along Zero Ave, leaning boundary monuments, and clearing requirements. Additionally, the Commissioners visited Point Roberts to address and resolve a long standing issue with a landowner and the proximity of his fence with the boundary.

5.2 Commissioner Meetings

The Canadian and U.S. commissioners normally meet twice during the year to review the status of projects, approve upcoming projects, discuss and approve comparable expenditures, and discuss the various issues brought to their attention. The first meeting was held on April 19th-20th in Washington, D.C. However, due to unforeseen circumstances, the Commissioners could not meet face to face in the fall.



6.0 LIAISON AND COMMUNICATION

The Commission strives to remain in constant contact with the various stakeholders through a variety of communication activities. Following are the main communication activities carried out during this period.

6.1 Modernization of the Website

The Commission has committed to modernizing its website to make it its primary means of disseminating information and to promote communication with citizens and government agencies. The new website will allow users to download all documents and maps, obtain information regarding the geographical position of the boundary, and generally obtain useful information on our shared boundary. In addition, the new website will contain a map browser, which will facilitate access to information. The website design has been completed and the site is now being populated and assessed for quality control before release.

6.2 Landowner Consultations

IBC personnel visited local landowners along the St. Francis River to explain upcoming field operations and to answer any questions. They also consulted with landowners and border officials near the Champlain border crossing to address unauthorized dumping on the Canadian side of the vista.

6.3 Border Agencies Relation

Both US and Canadian border officials were contacted and/or visited during the winter months to notify them of upcoming projects. In turn, the Commission gets feedback on where it might need to focus some attention.

Bryan Cloutier from the CRFO attended a meeting regarding construction to replace the Rainy River/Baudette bridge. Commissioner Hipsley and Phillip Hargrove from the WRFO gave a presentation at the Border Patrol office in Sweetgrass MT to various US stakeholders as part of ongoing information and education surrounding the activities of the Commission.

7.0 REGULATORY ITEMS

The Commission monitors the construction of all works within 10 feet (3 metres) of the boundary. Thus, all construction—whether a ditch, a building, a surface or underground structure (telephone, cable, electrical line or gas pipeline), line of communication, or other—must first be authorized by the Commission. In 2016, the commissioners did not receive any applications for consideration.



8.0 PLANNING FOR 2017

The Commission plans to undertake the following activities in 2017. These activities are in line with the long-term plan.

8.1 Canadian Section

The Canadian section's maintenance activities will focus on the following sections of the boundary:

1. **141st Meridian (YK/Alaska)** – Survey monuments 1-81
2. **Highlands S.W. Section (QC/ME)** – Vista clearing and inspection
3. **Highlands S.W. Section (QC/ME)** – Survey/Monument refurbishing
4. **49th Parallel (Pacific to Columbia Valley)** - Vista Clearing and monument refurbishing
5. **West Line (QC/NH)** – Monument refurbishing; Range Marks at Lake Champlain and Richelieu River
6. **Straits of Georgia and Juan De Fuca (BC/WA)** - Reference Monuments enhancement

8.2 United States Section

The U.S. section will be responsible for the following projects:

1. **Passamaquoddy Bay (ME/NB)** - Range Marks maintenance contract
2. **St. John River (ME/NB)** - Inspection and monument maintenance
3. **North Line - North half (ME/NB)** - Inspection and monument maintenance
4. **Southeast Alaska (AK/NB)** - Vista clearing (5 valleys) new contract. Completion of IBC 01-16
5. **49th Parallel** - Cleanup of GPS Surveys. From MON 281 heading east
6. **Northwesternmost Point Lake of the Woods to Lake Superior (MA/ON)** - Reference Monument Maintenance TP 1 to TP 1796

9.0 15 YEAR PLAN

The 15-year maintenance plan is critical to the IBC for budgetary requests and performance measurements. The plan includes details of boundary maintenance cycles and additional tools to help visualize and track progress and changes as needed. The current 15-year plan is included in Appendix D.

10.0 REPORT ON COMPARABLE EXPENDITURES

This report shows the total amount spent by both sections of the Commission as of March 31, 2016, for maintenance of the boundary line under section IV of the *Treaty of Washington 1925*.

The cumulative total represents the total spending of each section, since 1925, on expenditures deemed comparable. Comparable expenditures are the subject of an agreement by both Commissioners as to the interpretation of section IV of the *Treaty of 1925*, and is revised regularly. The current agreement has been in effect since April 1, 1999. Under the agreement, and according to the



Treaty, the expenditures do not include salary of or expenditures by the Commissioner and the Commissioner's assistants, including administrative staff, i.e. the permanent staff of each section. Therefore, this expenditure report is not a financial report, as it does not include all of the expenditures incurred by each section.

The purpose of compiling cumulative expenditures since the Commission's origins is to demonstrate that the efforts by both governments are shared equally. Although the cumulative total shows a lag in terms of the expenditures of the U.S. section, this gap is not a concern, as the U.S. section budget is currently exceeding the Canadian budget. This is expected to continue, so that the U.S. section should catch up and close the gap within four or five years.

Given that each country's fiscal year spans into two calendar years, the divisible expenditure report does not always reflect all costs associated to current year projects and shows some costs associated with the previous year projects.

Expenditures are shown in each country's respective currency.



International
Boundary
Commission



Commission
de la frontière
internationale



CERTIFIED STATEMENT OF COMPARATIVE EXPENDITURES

**MADE BY
CANADA AND THE UNITED STATES
JOINTLY INCURRED BY THE COMMISSIONERS IN
MAINTAINING THE DEMARCATON OF THE BOUNDARY LINE
IN ACCORDANCE WITH THE PROVISIONS OF
THE TREATY OF 1925, AS OF MARCH 31, 2016**

	Expended By United States Section (US \$)	Expended By Canadian Section (Can \$)
Total to March 31, 2015	21,288,328.71	\$ 23,789,040.07
<u>From April 1, 2015 to March 31, 2016</u>		
West Line (QC/VT) - Vista Clearing contract from monuments 572 to 631 (65.8 km/40.9 miles)	61,852.00	\$
141st Meridian (YK/AK) - Vista Clearing contract & inspection from mon 64 to 76 (64.2 km/40.0 miles)	719,052.00	\$
49th Parallel – Pacific to Columbia Valley (BC/WA) vista clearing from monuments 5 to 26 (27 km/16.8 mi.)	19,040.00	\$
West Line (QC/NY) - Renewal and boundary marking enhancement from monuments 525A to 753 (212 km/132 mi.)	198,637.99	\$
49th Parallel – Pacific to Columbia Valley (BC/WA) maintenance from monuments 5 to 76 (121 km/75.6 mi.)	107,059.02	\$
49th Parallel – Columbia Valley to Similkameen River (BC/WA) IBC 01-15 = 63.4 mi / 102.0 km Mon 72 to Mon 111A (26.4 mi / 42.5 km completed 40% from Mon 72 to Mon 88)	132,527.20	\$
St. Francis River (ME/QC-NB) - Monument maintenance TP 716 to TP 352	143,987.75	\$
49th Parallel (MT/BC) - Survey from Mon 76 to 264	28,827.52	\$
49th Parallel (MT/BC) - Vista Clearing Glacier National Park and inspection of all zones for negotiations of new MOU (2.6 mi/4.2 km)	27,222.32	\$
49th Parallel (MT/BC) - In-house vista clearing from Monument 261 west toward Mount Hefty. Special request from Whitefish, MT Border Patrol Station 1.7 mi / 2.8 km	7,623.85	\$
Southeast AK (AK/BC) - Monument 0 at the Port of Entry in Stewart, BC & Hyder, AK. Perform a GPS survey	25,656.27	\$

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141st Meridian (AK/YK) - GPS surveys from Mon 79 to Mon 148	348,490.54 \$
141st Meridian (AK/YK) - Inhouse Vista Clearing from Mon 26 to Mon 37 = from Mon 26 to Mon 37 = 35.3 mi / 56.8 km	209,853.80 \$
141st Meridian (AK/YK) - Inhouse Vista Clearing from 63 to Mon 64 = 4.2 mi / 6.8 km	25,098.89 \$
141st Meridian (AK/YK) - Vista Clearing Contract IBC 02-14 completed this Vista inspection for upcoming clearing operations Southeast AK/ BC	131,400.00 \$
Lake of the Woods (MN/MB) - Vista Clearing of portages	10,144.45 \$
	25,747.56 \$

Other Expenditures

Vehicle Purchase	66,531.00 \$	34,373.00 \$
Freight		4,250.00 \$
Special clothing	2,921.00 \$	1,912.00 \$
Mapping/GIS Development	83,099.94 \$	5,892.00 \$
Survey Equipment - GPS	71,586.90 \$	

Sub-total for 2015-16	1,340,718.99 \$	1,152,068.01 \$
Total as of March 31, 2016	22,629,047.70 \$	24,941,108.08 \$

NOTE: It is recognized that fluctuations in exchange rates are not reflected in the total expenditures by each country.

I hereby certify that the above amount of **22,629,047.70 \$** is an accurate statement of the total amount expended to March 31, 2016 on the part of the United States in the joint maintenance of the International Boundary Line under the Article IV of the Treaty of 1925.



 Kyle Hipsley, United States Commissioner

Washington, DC
Place Date

I hereby certify that the above amount of **24,941,108.08 \$** is an accurate statement of the total amount expended to March 31, 2016 on the part of the United States in the joint maintenance of the International Boundary Line under the Article IV of the Treaty of 1925.



 Peter Sullivan, Canadian Commissioner

Washington DC
Place Date *April 19/2017*



11.0 CERTIFICATION

We certify that the foregoing is a true record of the work done by the Commissioners during the year ending December 31, 2016 on the maintenance of the International Boundary Line between Canada and the United States of America, and that the plats and tables submitted herein show the true location and geodetic position of all monuments moved and all additional monuments and marks established within the year, in accordance with the provisions of Article IV of the Treaty between the United States of America and His Britannic Majesty in respect of Canada signed at Washington, February 24, 1925.

Jean Gagnon
Canadian Commissioner

Kyle K. Hipsley
United States Commissioner



IN MEMORIAM

Mr. Hartley G. Dwyer

Mr. Hartley G Dwyer began his career with International Boundary Commission United States and Canada (IBC) in 1952 as an axman on a summer field crew. Hartley chose to retire in 1988 as Senior Field Engineer with over 35 years of service, after being involved in a helicopter crash on the Alaska/Yukon boundary in 1985, from which he never fully recovered. He was quite proud of being hired by and working with Nelson Smith one of the original engineers of the commission whom had worked on the original demarcation of the U.S. Canadian boundary.

Throughout his career he worked on projects spanning the entire 5525 miles of boundary between the US and Canada and his knowledge of the boundary was second to none. It would be impossible to list in this space all of his accomplishments.

One of Hartley's biggest contributions to the IBC was a boundary vista grooming project that consisted of bulldozing the vegetation and trees inside the vista and then reseeding the bulldozed area with vegetation that starved out tree growth. Hartley proposed the project, found 4 military surplus D7 bulldozers to do the project with and worked with the Department of Agriculture and the University of Maine to develop the type of vegetation to be seeded once the clearing was complete. This work spanned approximately 150 miles of boundary in Maine/ New Brunswick-Quebec and 150 miles of boundary along the 45th Parallel Vermont-New York/Quebec. The reduced costs of maintaining the US Canadian boundary in these areas is still benefiting the IBC today.

Even after his "official" retirement Hartley continued to contribute to the IBC. As his health improved, he bid on and won two small Range Mark clearing and maintenance contracts along Passamaquoddy Bay. Throughout his retirement years, when planning summer field seasons as part of my duties as Deputy Commissioner, I would frequently contact him seeking information and advice, which he was always willing to share.

Hartley was born in Houlton, Maine and was always a "Mainer". He was a registered Maine Guide prior to his career with the IBC and was an avid fisherman and loved to hunt, spending most of his vacations in Maine. In 2000 he returned to Maine with his wife "Tina" to be near family. His new home was approximately 20 miles south of our Houlton Maine field office in an area locally known as "Million Dollar View", from his front window he could see five lakes that makeup the boundary between the United States and Canada. Hartley was a frequent visitor of the Engineers assigned to the IBC field office where he loved to share information and stories about the boundary.

Hartley G. Dwyer passed away on October 4th 2016 at age 86. The IBC not only lost a colleague but a friend and a part of our family. "Hart" was a true ambassador of the IBC and touched many lives. He will always be remembered.

Kyle K. Hipsley, United States Commissioner



Dr. Alexander 'Alec' Campbell McEwen, LL.M., PhD, CGeog, OLS# 784

Dr. McEwen began his career with the International Boundary Commission in 1976 when he was appointed by Federal Order-in-Council to the position of Commissioner, Canada/United States International Boundary Commission. As Canadian Commissioner, he was responsible for surveying and mapping the land and water boundary area; maintenance of the boundary vista and demarcation; regulation of transboundary construction; submission of joint reports to the two national governments; and gathering, storing and disseminating technical and other data. He also wrote and published many historical papers on various topics pertaining to the international boundary. While serving as Commissioner, he remained active with various land surveying societies and found time to finish his Ph.D. He retired from the Commission in 1991 after serving for a total of 15 years.

Dr. McEwen's career in cadastral surveying is nothing short of inspiring. Prior to his appointment as Commissioner in 1976, he got his start surveying in Ontario. After immigrating to Canada from England he articled to become an Ontario Land Surveyor, receiving this commission in 1952 and the Dominion Land Surveyor commission the following year. In 1954 he left a job as Director of Town Planning with the city of Sault St Marie to take a two-year assignment in North Borneo. Upon returning to Toronto he was engaged in a variety of urban and rural land development projects, including Chief Surveyor for the Toronto Transit Commission and consultant for subway route surveys. From 1958-1961 he provided technical assistance in the Seychelles on behalf of the United Nations, taking his young family with him to this island paradise. Subsequently he worked in Dar es Salaam, Tanzania for the Canadian government from 1964-1970. During this time he taught surveying at the Survey Training Centre, and qualified as a certified land surveyor in East Africa as well as a licenced Tanzanian land surveyor. A student of law, he completed his Masters' degree and his thesis, *International Boundaries of East Africa*, was published by Oxford: Clarendon Press. Returning to Canada in 1970, he engaged in private practice as a surveying and land administration consultant to governments and the private sector. In 1972 he was appointed Director of Lands and Surveys for the Government of Newfoundland, a position he held for four years, prior to his appointment as International Boundary Commissioner for Canada.

After his retirement from the Commission in 1991, he began a full Professorship of Cadastral Studies in the Geomatics department, Faculty of Engineering at the University of Calgary. From 1991-1995 he taught many of today's Alberta Land Surveyors and in 2008 was made an honorary member of their professional society. It was during this time he met and married his second wife, Sherry. After his retirement from the university in 1996 he was appointed Professor Emeritus in recognition of his contributions. While at the university and following his retirement, Alec consulted all over the world in matters of land tenure, land title registration, and geomatics. His assignments included donor-sponsored projects in Tunisia, Moldova, Mongolia, Uzbekistan, Tajikistan, Afghanistan, Algeria, Trinidad and Tobago, Bolivia, Peru, Ukraine, Cambodia, Nigeria, Russian Federation, Palestine (West Bank), and Zanzibar. By his retirement in 2014 at the age of 86, he had worked in over 24 countries.

Throughout his travels, he developed his love of languages. Along with fluency in English and French, he learned to read, write and speak Malay, along with a smattering of Kiswahili. He also gained a



working knowledge of Italian and Spanish. He remained an active member of nine (9) various professional societies and was published in books, and many articles and reports. Some readers may be familiar with his long-running column in Geomatica, "Geomatics and the Law".

Upon his passing on March 29, 2015, the president of the University of Calgary praised his 'dedication, knowledge and vision' which 'still serve as an inspiring model of success in cadastral surveying' and whose 'leadership in the community and significant contributions in land tenure systems across the world has made a true difference'.

Whenever there becomes a vacancy regarding the position of International Boundary Commissioner, Article 4 of the 1925 International Treaty between the United States and Canada stipulates that each country '...shall appoint an Expert Geographer or Surveyor as Commissioner...', There has never been any doubt, either domestically or internationally, that Dr. McEwen was an 'Expert Surveyor'.

Al Arseneault, Deputy Commissioner, Canada (retired)



APPENDIX A - DETAILS OF MAINTENANCE AND SURVEY WORK

DETAILS OF MAINTENANCE AND SURVEY WORK

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Legend

Boundary Monument Type:	MON	Boundary Monument or Boundary Turning Point
	RM	Reference Monument or Marker
	RM	Reference Monument or Marker
Reconnaissance:	G	Recovered In Good Condition
	F	Recovered in Fair condition (requires minor repair)
	PO	Recovered in Poor condition (requires major repair)
	D	Destroyed (evidence found but Monument not in place)
	NR	Not Recovered (no evidence found or inadequate search)
Established:	NM	New Monument constructed (in new location)
	R	Renewed (in same location)
Repairs:	MI	Minor repairs to base (cracks patched, plumbed, dirt packed at base, etc)
	MA	Major repairs (new marker installed, base partially replaced or recapped)
Painted:	MP	Monument Painted
Description:	DU	Description Updated
	ND	New Description (newly established monuments only)
Photo:	P	Photographed
	NP	Not Photographed
Monument Surveyed:	S	Survey performed to position the monument

St. Croix River

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 2	PO					P	
RM 3	NR						
RM 4	NR						
RM 5	NR						
RM 6	NR						
RM 7	NR						
RM 8	NR						
RM 9	NR						
RM 10	NR						
RM 11	NR						
RM 12	PO					P	
RM 13	NR						
RM 14	G					P	
RM 15	PO					P	
RM 16	NR						
RM 17	NR						
RM 18	G					P	
RM 19	G					P	
RM 20	PO					P	
RM 21	G					P	
RM 22	G					P	
RM 23	G					P	
RM 24	G					P	
RM 25	PO					P	
RM 26	PO					P	
RM 27	G					P	
RM 28	D						
RM 29	G					P	
RM 30	G					P	
RM 31	PO					P	
RM 31A	G					P	
RM 32	G					P	
RM 33	G					P	
RM 34	G					P	
RM 35	G					P	
RM 36	G					P	
RM 37	G					P	
RM 38	G					P	
RM 39	G					P	
RM 40	G					P	
RM 41	G					P	
RM 42	G					P	

St. Croix River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 43	G					P	
RM 44	PO					P	
RM 45	PO					P	
RM 46	G					P	
RM 47	G					P	
RM 48	G					P	
RM 49	G					P	
RM 50	G					P	
RM 51	G					P	
RM 52	G					P	
RM 53	PO					P	
RM 54	PO					P	
RM 55	G					P	
RM 56	G					P	
RM 57	G					P	
RM 58	G					P	
RM 59	G					P	
RM 60	G					P	
RM 61	G					P	
RM 62	PO					P	
RM 63	G					P	
RM 64	NR?						
RM 65	G					P	
RM 66	G					P	
RM 67	G					P	
RM 68	G					P	
RM 69	G					P	
RM 70	G					P	
RM 71	G					P	
RM 72	NR						
RM 73	G					P	
RM 74	NR						
RM 75	G					P	
RM 76	G					P	
RM 77	G					P	
RM 78	G					P	
RM 79	PO					P	
RM 80	G					P	
RM 81	PO					P	
RM 82	G					P	
RM 83	PO					P	
RM 84	G					P	
RM 85	G					P	

St. Croix River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 86	PO					P	
RM 87	G					P	
RM 88	G					P	
RM 89	PO					P	
RM 90	G					P	
RM 91	PO					P	
RM 92	NR						
RM 93	NR						
RM 94	G					P	
RM 95	PO					P	
RM 96	NR						
RM 97	G					P	
RM 98	G					P	
RM 100	G					P	
RM 101	NR						
RM 102	PO					P	
RM 102A	PO					P	
RM 103	G					P	
RM 104	PO					P	
RM 105	PO					P	
RM 106	NR						
RM 107	G					P	
RM 108	PO					P	
RM 109	G					P	
RM 110	NR						
RM 111	G					P	
RM 112	NR						
RM 113	G					P	
RM 114	NR						
RM 115	G					P	
RM 116	G					P	
RM 117	G					P	
RM 118	NR						
RM 119	NR						
RM 119A	G					P	
RM 120	G					P	
RM 121	G					P	
RM 122	G					P	
RM 123	NR						
RM 124	G					P	
RM 125	NR						
RM 126	NR						
RM 127	NR						

St. Croix River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 128	NR						
RM 129	NR						
RM 130	G					P	
RM 131	PO					P	
RM 132	G					P	
RM 133	G					P	
RM 134	G					P	
RM 135	NR						
RM 135A	G					P	
RM 136	G					P	
RM 137	G					P	
RM 137A	NR						
RM 137B	G					P	
RM 138	PO					P	
RM 139	G					P	
RM 140	D						
RM 141	PO					P	
RM 142	G					P	
RM 143	G					P	
RM 144	G					P	
RM 145	NR						
RM 146	G					P	
RM 147	G					P	
RM 148	G					P	
RM 149	G					P	
RM 150	PO					P	
RM 151	PO					P	
RM 152	PO					P	
RM 153	PO					P	
RM 154	G					P	
RM 154A	G					P	
RM 155	PO					P	
RM 156	G					P	
RM 157	NR						
RM 158	NR						
RM 159	G					P	
RM 160	NR						
RM 161	G					P	
RM 162	NR						
RM 163	NR						
RM 164	NR						
RM 165	G					P	
RM 166	PO					P	

St. Croix River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 167-21	D						
RM 167-46	G					P	
RM 168	G					P	
RM 169A	NR						
RM 170	NR						
RM 170A	PO					P	
RM 171	NR						
RM 172	PO					P	
RM 173	PO					P	
RM 174	NR						
RM 175	G					P	
RM 176	NR						
RM 178	NR						
RM 179	NR						
RM 180	PO					P	
RM 181	G					P	
RM 182	G					P	
RM 183	G					P	
RM 184	G					P	
RM 185	PO					P	
RM 186	G					P	
RM 187	NR						
RM 188	G					P	
RM 189	PO					P	
RM 190	G					P	
RM 191	G					P	
RM 192	NR						
RM 193	NR						
RM 194	NR						
RM 195	G					P	
RM 196	NR						
RM 197	G					P	
RM 198	PO					P	
RM 199	G					P	
RM 200	G					P	
RM 201	G					P	
RM 202	G					P	
RM 203	G					P	
RM 204	NR						
RM 205	PO					P	
RM 206	NR						
RM 207	G					P	
RM 208	NR						

St. Croix River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 209	PO					P	
RM 210	G					P	
RM 211	PO					P	
RM 212	PO					P	
RM 213	PO					P	
RM 214	NR						
RM 215	NR						
RM 216	D						
RM 217	NR						
RM 218	NR						
RM 219	G					P	
RM 220	G					P	
RM 221	NR						
RM 222	NR						
RM 223	NR						
RM 224	NR						
RM 225	NR						
RM 226	P					P	
RM 227	NR						
RM 228	NR						
RM 229	NR						
RM 230	G					P	
RM 231	NR						
RM 232	NR						
RM 233	G					P	
RM 234	NR						
RM 235	G					P	
RM 236	NR						
RM 237	G					P	
RM 238	G					P	
RM 239	G					P	
RM 240	NR						
RM 241	PO					P	
RM 242	G					P	
RM 243	PO					P	
RM 244	G					P	
RM 245	G					P	
RM 246	G					P	

St. Francis River

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S-137A-50	G						S
RM S-145	G						S
RM S-149	G						S
RM S-151	G						S
RM S-152	G						S
RM S-156	G						S
RM S-159A	G						S
RM S-161A	G						S
RM S-166	G						S
RM C-132	G						S
RM C-141	G						S
RM C-143	G						S
RM C-154A	G						S
RM C-160	G						S
RM C-161	G						S
TP 358	D						
TP 359	G						S
TP 369	G						S
TP 386	G						S
TP 392	G						S
TP 407	G						S
TP 418	G			MP			S
TP 430	G						S
TP 433	G						S
TP 439	G						S
TP 441	G						S
TP 454	G						S
TP 455	G						S
TP 500	G						S
TP 513	G						S
TP 515	G						S
TP 525	G						S
TP 532	G						S
TP 572	G						S
TP 581	G						S
TP 589	G						S
TP 592	G						S
TP 606	G						S
TP 620	G						S
TP 621	G						S

St. Francis River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
TP 628	G						S
TP 642	G						S
LM 358A	G			MP			S
LM 369A	G						S
LM 385A	D						
LM 392A	G			MP			S
LM 407A	G						S
LM 417A	G						S
LM 428A	G			MP			S
LM 428B	G			MP			S
LM 429A	G			MP			S
LM 433A	G						S
LM 438A	G						S
LM 440A	G						S
LM 453A	G						S
LM 453B	D						
LM 455A	G						S
LM 493B	D						
LM 499A	G			MP			S
LM 509A	G						S
LM 509B	G						S
LM 513A	G						S
LM 514A	G						S
LM 515A	G						S
LM 516A	G						S
LM 516B	G						S
LM 525A	G						S
LM 526A	G						S
LM 526B	G						S
LM 530B	G						S
LM 530C	G						S
LM 532A	G						S
LM 537A	D						
LM 541B	G						S
LM 542B	G						S
LM 543A	G			MP			S
LM 543B	G						S
LM 571A	G			MP			S
LM 572A	G						S
LM 573A	G						S
LM 574A	G			MP			S
LM 574B	G			MP			S

St. Francis River (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
LM 579A	G			MP			S
LM 579B	G			MP			S
LM 580A	G			MP			S
LM 583A	G						S
LM 584A	G			MP			S
LM 584B	G						S
LM 588A	G			MP			S
LM 589A	G			MP			S
LM 591A	G			MP			S
LM 594A	G			MP			S
LM 603A	G			MP			S
LM 603B	G			MP			S
LM 619A	G			MP			S
LM 620B	G			MP			S
LM 621A	G			MP			S
LM 623A	G						S
LM 623B	G						S
LM 627A	G						S
LM 637A	G						S
LM 637B	G						S
LM 641A	G						S
LM 699A	G						S
LM 699B	G						S

St. John and St. Francis Rivers

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM C-105	P					P	S
CP C-106-77-RM1	G					P	S
RM C107	G					P	
RM C108	P					P	
RM C109	P					P	S
RM C112	G					P	S
RM C125	G					P	S
RM C-126	D					P	
RM C-127	G					P	
RM C-128	G					P	
RM C-130	G					P	S
RM C131A	G					P	S
RM C132	G					P	S
RM C-133	G					P	S
RM C-134A	G					NP	S

Highlands (NE Section)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 314	U					P	
MON 314.1	G					P	
MON 314.2	G					P	
MON 314.3	F					P	
MON 314.4	G					P	
MON 314.5	F					P	
MON 314.6	D					P	
MON 314.7	P					P	
MON 314.8	G					P	
MON 314.9	G					P	
MON 314.10	G					P	
MON 314.11	G					P	
MON 315	P			MP		P	
MON 315.1	P					P	
MON 315.2	G					P	
MON 315.3	G					P	
MON 315.4	G					P	
MON 315.5	G					P	
MON 315.6	G					P	
MON 316	G			MP		P	
MON 316.1	P					P	
MON 316.2	G					P	
MON 316.3	G					P	
MON 316.4	P					P	
MON 317	G			MP		P	
MON 317.1	G					P	
MON 317.2	G					P	
MON 317.3	G					P	
MON 318	G			MP		P	
MON 318.1	G					P	
MON 318.2	G					P	
MON 318.3	G					P	
MON 318.4	G					P	
MON 318.5	G					P	
MON 318.6	G					P	
MON 318.7	P					P	
MON 318.8	G					P	
MON 318A	P					P	
MON 318B	G			MP		P	
MON 318.9	G					P	
MON 318.10	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 318.11	G					P	
MON 319	G			MP		P	
MON 319.1	G					P	
MON 319.2	G					P	
MON 319.3	G					P	
MON 319.4	G					P	
MON 319.5	P					P	
MON 319.6	G					P	
MON 319.7	G					P	
MON 319.8	G					P	
MON 319.9	P					P	
MON 319.10	G					P	
MON 319.11	G					P	
MON 319.12	G					P	
MON 319.13	G					P	
MON 319.14	P					P	
MON 319.15	P					P	
MON 319.16	G					P	
MON 319.17	F					P	
MON 319.18	G					P	
MON 319.19	F					P	
MON 319.20	P					P	
MON 319.21	F					P	
MON 319.22	F					P	
MON 319.23	G					P	
MON 319.24	G					P	
MON 319.25	G					P	
MON 319.26	G					P	
MON 319.27	G					P	
MON 319.28	F					P	
MON 319.29	G					P	
MON 319.30	G					P	
MON 319.31	G					P	
MON 319.32	G					P	
MON 320	D					P	
MON 320.1	G					P	
MON 320.2	G					P	
MON 320.3	G					P	
MON 320.4	G					P	
MON 320.5	G					P	
MON 320.6	G					P	
MON 320.7	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 320.8	G					P	
MON 320.9	P					P	
MON 320.10	G					P	
MON 320.11	G					P	
MON 320.12	F					P	
MON 320.13	G					P	
MON 320.14	F					P	
MON 320.15	D					P	
MON 320.16	G					P	
MON 320.17	F					P	
MON 320.18	F					P	
MON 320.19	F					P	
MON 320.20	G					P	
MON 320.21	G					P	
MON 320.22	G					P	
MON 320.23	P					P	
MON 320.24	G					P	
MON 320.25	G					P	
MON 320.26	G					P	
MON 320.27	P					P	
MON 320.28	G					P	
MON 321	G			MP		P	
MON 321.1	P					P	
MON 321.2	G					P	
MON 321.3	G					P	
MON 321.4	G					P	
MON 321.5	G					P	S
MON 321.6	P					P	S
MON 321.7	G					P	S
MON 321.8	G					P	S
MON 321.9	G					P	S
MON 321.10	G					P	S
MON 321.11	P					P	S
MON 321.12	G					P	S
MON 321.13	G					P	S
MON 321.14	G					P	S
MON 321.15	G					P	S
MON 321.16	G					P	S
MON 321.17	G					P	S
MON 321.18	P					P	S
MON 321.19	P					P	S
MON 321.20	G					P	S

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 321.21	G					P	S
MON 321.22	G					P	S
MON 321.23	G					P	S
MON 321.24	G					P	S
MON 321.25	G					P	S
MON 321.26	G					P	S
MON 321.27	G					P	S
MON 322	G					P	S
MON 322.1	G					P	S
MON 322.2	G					P	S
MON 322.3	G					P	S
MON 322.4	G					P	S
MON 322.5	G					P	
MON 322.6	G					P	
MON 322.7	G					P	
MON 322.8	G					P	
MON 322.9	G					P	
MON 322.10	G					P	
MON 322.11	G					P	
MON 322.12	P					P	
MON 322.13	G					P	
MON 322.14	G					P	
MON 322.15	F					P	
MON 322.16	P					P	
MON 322.17	G					P	
MON 322.18	F					P	
MON 322.19	G					P	
MON 322.20	P					P	
MON 322.21	G					P	
MON 322.22	G					P	
MON 322.23	F					P	
MON 322.24	G					P	
MON 322.25	G					P	
MON 323	G					P	
MON 323.1	G					P	
MON 323.2	G					P	
MON 323.3	G					P	
MON 323.4	G					P	S
MON 323.5	G					P	S
MON 323.6	P					P	S
MON 323.7	G					P	S
MON 323.8	F					P	S

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 323.9	G					P	S
MON 323.10	G					P	S
MON 323.11	G					P	S
MON 323.12	G					P	S
MON 323.13	G					P	S
MON 323.14	G					P	S
MON 323.15	G					P	S
MON 323.16	G					P	S
MON 323.17	G					P	S
MON 323.18	F					P	S
MON 323.19	G					P	
MON 324	G			MP		P	S
MON 324.1	G					P	S
MON 324.2	G					P	S
MON 324.3	G					P	S
MON 324.4	G					P	S
MON 324.5	G					P	S
MON 324.6	G					P	S
MON 324.7	F					P	S
MON 324.8	G					P	
MON 324.9	D					P	
MON 324.10	G					P	
MON 324.11	F					P	
MON 324.12	P					P	
MON 324.13	P					P	
MON 324.14	G					P	
MON 324.15	P					P	
MON 324.16	F					P	
MON 324.17	F					P	
MON 324.18	P					P	
MON 324.19	G					P	
MON 324.20	G					P	
MON 324.21	P					P	
MON 324.22	F					P	
MON 324.23	F					P	
MON 324.24	P					P	
MON 324.25	D					P	
MON 324.26	G					P	
MON 324.27	G					P	
MON 324.28	G					P	
MON 324.29	G					P	
MON 324.30	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 324.31	G					P	
MON 324.32	P					P	
MON 325	G					P	
MON 325.1	G					P	
MON 325.2	G					P	
MON 325.3	F					P	S
MON 325.4	G					P	S
MON 325.5	G					P	S
MON 325.6	G					P	S
MON 325.7	P					P	S
MON 325.8	G					P	S
MON 325.9	G					P	S
MON 325.10	G					P	S
MON 325.11	G					P	S
MON 325.12	G					P	S
MON 325.13	G					P	S
MON 325.14	G					P	S
MON 325.15	G					P	S
MON 325.16	G					P	S
MON 325.17	F					P	S
MON 325.18	G					P	S
MON 325.19	G					P	S
MON 325.20	F					P	S
MON 325.21	F					P	S
MON 325.22	G					P	S
MON 325.23	G					P	S
MON 325.24	G					P	S
MON 326	G					P	S
MON 326.1	F					P	S
MON 326.2	G					P	S
MON 326.3	G					P	S
MON 326.4	G					P	S
MON 326.5	G					P	S
MON 326.6	G					P	S
MON 326.7	G					P	S
MON 326.8	F					P	S
MON 326.9	G					P	
MON 326.10	NR					NP	
MON 326.11	G					P	
MON 326.12	G					P	
MON 326.13	G					P	
MON 326.14	P					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 326.15	G					P	
MON 326.16	G					P	
MON 326.17	G					P	
MON 326.18	G					P	
MON 326.19	P					P	
MON 326.20	P					P	
MON 326.21	P					P	
MON 326.22	F					P	
MON 326.23	F					P	
MON 327	G					P	
MON 327.1	P					P	
MON 327.2	G					P	
MON 327.3	G					P	
MON 327.4	P					P	
MON 327.5	G					P	
MON 327.6	F					P	
MON 327.7	F					P	
MON 327.8	G					P	
MON 327.9	G					P	
MON 327.10	G					P	
MON 327.11	F					P	
MON 327.12	G					P	
MON 327.13	G					P	
MON 327.14	G					P	
MON 327.15	G					P	
MON 327.16	G					P	
MON 327.17	G					P	
MON 327.18	G					P	
MON 327.19	G					P	
MON 327.20	G					P	
MON 327.21	F					P	
MON 327.22	F					P	
MON 327.23	G					P	
MON 327.24	G					P	
MON 327.25	G					P	
MON 327.26	G					P	
MON 327.27	G					P	
MON 327.28	G					P	
MON 327.29	G					P	
MON 327.30	F					P	
MON 328	G					P	
MON 328.1	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 328.2	G					P	
MON 328.3	G					P	
MON 328.4	G					P	
MON 328.5	G					P	
MON 328.6	G					P	
MON 328.7	F					P	
MON 328.8	F					P	
MON 328.9	F					P	
MON 328.10	G					P	
MON 328.11	G					P	
MON 328.12	G					P	
MON 328.13	G					P	
MON 328.14	G					P	
MON 328.15	G					P	
MON 328.16	G					P	
MON 328.17	P					P	
MON 328.18	G					P	
MON 328.19	G					P	
MON 328.20	G					P	
MON 328.21	G					P	
MON 328.22	G					P	
MON 328.23	G					P	
MON 328.24	F					P	
MON 328.25	F					P	
MON 328.26	G					P	
MON 328.27	G					P	
MON 328.28	G					P	
MON 328.29	G					P	
MON 328.30	G					P	
MON 328.31	G					P	
MON 328.32	F					P	
MON 328.33	G					P	
MON 328.34	G					P	
MON 328.35	P					P	
MON 328.36	G					P	
MON 329	G					P	
MON 329.1	G					P	
MON 329.2	F					P	
MON 329.3	G					P	
MON 329.4	G					P	
MON 329.5	G					P	
MON 329.6	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 329.7	G					P	
MON 329.8	G					P	
MON 329.9	G					P	
MON 329.10	G					P	
MON 329.11	G					P	
MON 329.12	G					P	
MON 329.13	G					P	
MON 329.14	F					P	
MON 329.15	F					P	
MON 329.16	G					P	
MON 329.17	G					P	
MON 329.18	G					P	
MON 329.19	F					P	
MON 329.20	F					P	
MON 329.21	P					P	
MON 329.22	F					P	
MON 329.23	G					P	
MON 329.24	G					P	
MON 329.25	G					P	
MON 329.26	G					P	
MON 329.27	G					P	
MON 329.28	G					P	
MON 329.34	F					P	
MON 329.35	G					P	
MON 329.36	G					P	
MON 329.37	G					P	
MON 329.38	G					P	
MON 329.39	G					P	
MON 329.40	G					P	
MON 329.41	P					P	
MON 329.42	F					P	
MON 330	G					P	
MON 330.1	NR					NP	
MON 330.2	G					P	
MON 330.3	G					P	
MON 330.4	G					P	
MON 330.5	P					P	
MON 330.6	D					P	
MON 330.7	G					P	
MON 330.8	P					P	
MON 330.9	G					P	
MON 330.10	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 330.11	P					P	
MON 330.12	P					P	
MON 330.13	G					P	
MON 330.14	G					P	
MON 330.15	F					P	
MON 330.16	G					P	
MON 330.17	G					P	
MON 330.18	P					P	
MON 330.19	G					P	
MON 330.20	P					P	
MON 330.21	P					P	
MON 330.22	P					P	
MON 330.23	G					P	
MON 330.24	G					P	
MON 330.25	G					P	
MON 330.26	G					P	
MON 330.27	G					P	
MON 330.28	P					P	
MON 330.29	G					P	
MON 330.30	F					P	
MON 330.31	P					P	
MON 330.32	G					P	
MON 331	G					P	
MON 331.1	G					P	
MON 331.2	G					P	
MON 331.3	P					P	
MON 331.4	F					P	
MON 331.5	F					P	
MON 331.6	F					P	
MON 331.7	F					P	
MON 331.8	F					P	
MON 331.9	P					P	
MON 331.10	P					P	
MON 331.11	F					P	
MON 331.12	F					P	
MON 331.13	G					P	
MON 331.14	G					P	
MON 331.16	F					P	
MON 331.17	P					P	
MON 331.18	F					P	
MON 331.19	F					P	
MON 331.20	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 331.21	P					P	
MON 331.22	G					P	
MON 331.23	G					P	
MON 331.24	G					P	
MON 331.25	G					P	
MON 331.26	G					P	
MON 331.27	F					P	
MON 331.28	G					P	
MON 331.29	G					P	
MON 332	P					P	
MON 332.1	G					P	
MON 332.2	G					P	
MON 332.3	G					P	
MON 332.4	G					P	
MON 332.5	G					P	
MON 332.6	G					P	
MON 332.7	G					P	
MON 332.8	F					P	
MON 332.9	G					P	
MON 332.10	G					P	
MON 332.11	G					P	
MON 332.12	G					P	
MON 332.13	F					P	
MON 332.14	G					P	
MON 332.15	G					P	
MON 332.16	G					P	
MON 332.17	G					P	
MON 332.18	G					P	
MON 332.19	P					P	
MON 332.20	G					P	
MON 332.21	G					P	
MON 332.22	G					P	
MON 332.23	G					P	
MON 332.24	D					P	
MON 332.25	G					P	
MON 332.26	G					P	
MON 332.27	F					P	
MON 332.28	G					P	
MON 332.29	F					P	
MON 332.30	P					P	
MON 332.31	G					P	
MON 332.32	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 332.33	G					P	
MON 332.34	F					P	
MON 332.35	G					P	
MON 332.36	G					P	
MON 332.37	G					P	
MON 332.38	G					P	
MON 332.39	G					P	
MON 332.40	G					P	
MON 332.41	G					P	
MON 332.42	G					P	
MON 332.43	G					P	
MON 333	G					P	
MON 333.1	F					P	
MON 333.2	G					P	
MON 333.3	G					P	
MON 333.4	G					P	
MON 333.5	G					P	
MON 333.6	G					P	S
MON 333.7	G					P	S
MON 333.8	G					P	S
MON 333.9	G					P	S
MON 333.10	G					P	S
MON 333.11	G					P	S
MON 333.12	G					P	S
MON 333.13	G					P	S
MON 333.14	F					P	S
MON 333.15	G					P	S
MON 333.16	G					P	S
MON 333.17	G					P	S
MON 333.18	G					P	S
MON 333.19	G					P	S
MON 333.20	F					P	S
MON 333.21	F					P	S
MON 333.22	G					P	S
MON 333.23	F					P	S
MON 333.24	G					P	S
MON 333.25	P					P	S
MON 333.26	P					P	S
MON 333.27	G					P	S
MON 333.28	F					P	S
MON 333.29	G					P	S
MON 334	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 334.1	G					P	
MON 334.2	F					P	
MON 334.3	F					P	
MON 334.4	G					P	
MON 334.5	G					P	
MON 334.6	G					P	
MON 334.7	G					P	
MON 334.8	G					P	
MON 334.9	G					P	
MON 334.10	G					P	
MON 334.11	G					P	
MON 334.12	G					P	
MON 334.13	F					P	
MON 334.14	G					P	
MON 334.15	G					P	
MON 334.16	F					P	
MON 334.17	P					P	
MON 334.18	F					P	
MON 334.19	P					P	
MON 334.20	G					P	
MON 334.21	G					P	
MON 334.22	G					P	
MON 334.23	G					P	
MON 334.24	G					P	
MON 334.25	G					P	
MON 334.26	F					P	
MON 334.27	G					P	
MON 334.28	G					P	
MON 334.29	G					P	
MON 334.30	G					P	
MON 334.31	F					P	
MON 334.32	G					P	
MON 335	G					P	
MON 335.1	G					P	
MON 335.2	G					P	
MON 335.3	G					P	
MON 335.4	P					P	
MON 335.5	G					P	
MON 335.6	G					P	
MON 335.7	G					P	
MON 335.8	F					P	
MON 335.9	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 335.10	G					P	
MON 335.11	G					P	
MON 335.12	G					P	
MON 335.13	G					P	
MON 335.14	G					P	
MON 335.15	F					P	
MON 335.16	P					P	
MON 335.17	G					P	
MON 335.18	G					P	
MON 335.19	G					P	
MON 335.20	F					P	
MON 335.21	P					P	
MON 335.22	G					P	
MON 335.23	P					P	
MON 336	G					P	
MON 336.1	F					P	
MON 336.2	P					P	
MON 336.3	G					P	
MON 336.4	G					P	
MON 336.5	G					P	
MON 336.6	F					P	
MON 336.7	G					P	
MON 336.8	G					P	
MON 336.9	G					P	
MON 336.10	G					P	
MON 336.11	P					P	
MON 336.12	G					P	
MON 336.13	F					P	
MON 337	P					P	
MON 337.1	G					P	
MON 337.2	G					P	
MON 337.3	P					P	
MON 337.4	G					P	
MON 337.5	G					P	
MON 337.6	G					P	
MON 337.7	G					P	
MON 337.8	G					P	
MON 338	F					P	
MON 338.1	G					P	
MON 338.2	G					P	
MON 338.3	G					P	
MON 338.4	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 338.5	G					P	
MON 338.6	G					P	
MON 338.7	G					P	
MON 338.8	F					P	S
MON 338.9	G					P	S
MON 339	P					P	S
MON 339.1	G					P	S
MON 339.2	G					P	S
MON 339.3	G					P	S
MON 339.4	G					P	S
MON 339.5	G					P	S
MON 339.6	G					P	S
MON 340	G					P	S
MON 340.1	G					P	S
MON 340.2	G					P	S
MON 340.3	G					P	S
MON 340.4	G					P	S
MON 340.5	G					P	S
MON 340.6	G					P	
MON 340.7	G					P	
MON 340.8	D					P	
MON 340.9	F					P	
MON 340.10	P					P	
MON 340.11	D				DU	P	
MON 340.12	G					P	
MON 340.13	G					P	
MON 340.14	F					P	
MON 340.15	G					P	
MON 340.16	G					P	
MON 340.17	G					P	
MON 340.18	P					P	
MON 340.19	F					P	
MON 340.20	G					P	
MON 340.21	F					P	
MON 340.22	G					P	
MON 340.23	G					P	
MON 340.24	G					P	
MON 340.25	G					P	
MON 340.26	G					P	
MON 341	P					P	
MON 341.1	P					P	
MON 341.2	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 341.3	G					P	
MON 341.4	G					P	
MON 341.5	G					P	
MON 341.6	G					P	
MON 341.7	G					P	
MON 341.8	G					P	
MON 341.9	G					P	
MON 341.10	P					P	
MON 341.11	G					P	
MON 341.12	G					P	
MON 341.13	G					P	
MON 341.14	G					P	
MON 341.15	G					P	
MON 341.16	G					P	
MON 341.17	P					P	
MON 341.18	G					P	
MON 341.19	F					P	
MON 341.20	G					P	
MON 341.21	G					P	
MON 341.22	G					P	
MON 341.23	P					P	
MON 341.24	F					P	
MON 341.25	G					P	
MON 341.26	F					P	
MON 341.27	G					P	
MON 341.28	G					P	
MON 341.29	G					P	
MON 341.30	P					P	
MON 341.31	G					P	
MON 341.32	F					P	
MON 341.33	G					P	
MON 341.34	G					P	
MON 341.35	G					P	
MON 341.36	G					P	
MON 342	F					P	
MON 342.1	F					P	
MON 342.2	G					P	
MON 342.3	P					P	
MON 342.4	F					P	
MON 342.5	G					P	
MON 342.6	P					P	
MON 342.7	P					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 342.8	F					P	
MON 342.9	G					P	
MON 342.10	G					P	
MON 342.11	G					P	
MON 342.12	G					P	
MON 342.13	G					P	
MON 342.14	P					P	
MON 342.15	P					P	
MON 342.16	G					P	
MON 342.17	G					P	
MON 342.18	G					P	
MON 342.19	G					P	
MON 342.20	G					P	
MON 342.21	G					P	
MON 342.22	G					P	
MON 342.23	G					P	
MON 342.24	G					P	
MON 342.25	G					P	
MON 342.26	G					P	
MON 342.27	G					P	
MON 342.28	G					P	
MON 342.29	G					P	
MON 342.30	D					P	
MON 342.31	G					P	
MON 342.32	F					P	
MON 343	G					P	
MON 343.1	F					P	
MON 343.2	P					P	
MON 343.3	P					P	
MON 343.4	G					P	
MON 343.5	G					P	
MON 343.6	G					P	
MON 343.7	F					P	
MON 343.8	G					P	
MON 343.9	G					P	
MON 343.10	G					P	
MON 343.11	P					P	
MON 343.12	G					P	
MON 343.13	G					P	
MON 343.14	G					P	
MON 343.15	P					P	
MON 343.16	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 343.17	G					P	
MON 343.18	P					P	
MON 343.19	G					P	
MON 343.20	F					P	
MON 343.21	F					P	
MON 344	G					P	
MON 344.1	G					P	
MON 344.2	G					P	
MON 344.3	G					P	
MON 344.4	F					P	
MON 344.5	G					P	
MON 344.6	F					P	
MON 344.7	P					P	
MON 344.8	G					P	
MON 344.9	G					P	
MON 344.10	G					P	
MON 344.11	P					P	
MON 344.12	G					P	
MON 344.13	G					P	
MON 344.14	G					P	
MON 344.15	G					P	
MON 344.16	G					P	
MON 344.17	G					P	
MON 344.18	G					P	
MON 344.19	G					P	
MON 344.20	P					P	
MON 344.21	P					P	
MON 345	G					P	
MON 345.1	G					P	
MON 345.2	G					P	
MON 345.3	G					P	
MON 345.4	G					P	
MON 345.5	G					P	
MON 345.6	P					P	
MON 345.7	G					P	
MON 345.8	P					P	
MON 345.9	G					P	
MON 345.10	G					P	
MON 345.11	G					P	
MON 345.12	G					P	
MON 345.13	G					P	
MON 345.14	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 345.15	G					P	
MON 345.16	P					P	
MON 345.17	G					P	
MON 345.18	G					P	
MON 345.19	G					P	
MON 345.20	G					P	
MON 345.21	G					P	
MON 345.22	P					P	
MON 345.23	G					P	
MON 345.24	G					P	
MON 345.25	G					P	
MON 345.26	P					P	
MON 345.27	F					P	
MON 345.28	G					P	
MON 345.29	F					P	
MON 345.30	G					P	
MON 345.31	G					P	
MON 345.32	G					P	
MON 345.33	F					P	
MON 345.34	P					P	
MON 345.35	P					P	
MON 345.36	G					P	
MON 345.37	P					P	
MON 345.38	F					P	
MON 346	G					P	
MON 346.1	P					P	
MON 346.2	G					P	
MON 346.3	G					P	
MON 346.4	G					P	
MON 346.5	F					P	
MON 346.6	G					P	
MON 346.7	P					P	
MON 346.8	G					P	
MON 346.9	G					P	
MON 346.10	F					P	
MON 346.11	P					P	
MON 346.12	P					P	
MON 346.12A	NR					NP	
MON 346.13	G					P	
MON 346.14	P					P	
MON 346.15	G					P	
MON 346.16	F					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 346.17	P					P	
MON 347	D					P	
MON 347.1	P					P	
MON 347.2	G					P	
MON 347.3	G					P	
MON 347.4	G					P	
MON 347.5	D					P	
MON 347.6	P					P	
MON 347.7	G					P	
MON 347.8	G					P	
MON 347.9	P					P	
MON 347.10	P					P	
MON 347.11	G					P	
MON 347.12	G					P	
MON 347.13	F					P	
MON 347.14	G					P	
MON 347.15	G					P	
MON 347.16	P					P	
MON 347.17	P					P	
MON 347.18	G					P	
MON 347.19	P					P	
MON 347.20	G					P	
MON 347.21	G					P	
MON 347.22	G					P	
MON 347.23	G					P	
MON 347.24	P					P	
MON 347.25	P					P	
MON 347.26	D					P	
MON 347.27	P					P	
MON 347.28	G					P	
MON 347.29	F					P	
MON 347.30	G					P	
MON 347.31	G					P	
MON 347.32	F					P	
MON 347.33	F					P	
MON 347.34	G					P	
MON 348	G					P	
MON 348.1	G					P	
MON 348.2	G					P	
MON 348.3	P					P	
MON 348.4	G					P	
MON 348.5	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 348.6	G					P	
MON 348.7	P					P	
MON 348.8	F					P	
MON 348.9	G					P	
MON 348.10	P					P	
MON 348.11	F					P	
MON 348.12	G					P	
MON 348.13	F					P	
MON 348.14	G					P	
MON 348.15	P					P	
MON 348.16	G					P	
MON 348.17	P					P	
MON 348.18	P					P	
MON 348.19	P					P	
MON 348.20	G					P	
MON 348.21	G					P	
MON 348.22	G					P	
MON 348.23	G					P	
MON 348.24	G					P	
MON 348.25	G					P	
MON 348.26	P					P	
MON 348.27	P					P	
MON 348.28	D					P	
MON 348.29	P					P	
MON 348.30	F					P	
MON 348.31	G					P	
MON 348.32	F					P	
MON 348.33	F					P	
MON 348.34	G					P	
MON 348.35	F					P	
MON 348.36	G					P	
MON 348.37	G					P	
MON 348.38	G					P	
MON 349	G					P	
MON 349.1	G					P	
MON 349.2	G					P	
MON 349.3	P					P	
MON 349.4	G					P	
MON 349.5	G					P	
MON 349.6	F					P	
MON 349.7	G					P	
MON 349.8	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 349.9	G					P	
MON 349.10	F					P	
MON 349.11	G					P	
MON 349.12	G					P	
MON 350	P			MP		P	
MON 350.1	G					P	
MON 350.2	G					P	
MON 350.3	F					P	
MON 350.4	G					P	
MON 350.5	G					P	
MON 350.6	G					P	
MON 350.7	G					P	
MON 351	G			MP		P	S
MON 351A	D					P	
MON 351B	P					P	S
MON 352	G			MP		P	S
MON 352.1	G					P	S
MON 353.1	G					P	S
MON 353AA	G			MP		P	S
MON 353B	G			MP		P	S
MON 353.2	G					P	S
MON 353.3	G					P	
MON 353.4	G					P	S
MON 353.5	G					P	S
MON 353.6	G					P	S
MON 353.7	G					P	S
MON 354	G			MP		P	S
MON 354.1	G					P	S
MON 354.2	G					P	S
MON 354.3	P					P	S
MON 354.4	F					P	S
MON 354.5	G					P	S
MON 355	G			MP		P	S
MON 355.1	G					P	S
MON 355.2	G					P	S
MON 355.3	G					P	S
MON 355.4	F					P	S
MON 355.5	G					P	S
MON 355.6	G					P	S
MON 355.7	G					P	S
MON 356	G					P	
MON 356.1	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 356.2	G					P	
MON 356.3	G					P	
MON 356.4	G					P	
MON 356.5	G					P	
MON 356.6	G					P	
MON 356.7	G					P	
MON 356.8	G					P	
MON 357	D					P	
MON 357.1	F					P	
MON 357.2	F					P	
MON 357.3	G					P	
MON 357.4	G					P	
MON 357.5	G					P	
MON 358	G			MP		P	
MON 358.1	G					P	
MON 358.2	G					P	
MON 358.3	G					P	
MON 358.4	F					P	
MON 358.5	F					P	
MON 358.6	G					P	
MON 358.7	P					P	
MON 358.8	G					P	
MON 358.9	G					P	
MON 359	G			MP		P	
MON 359.1	F					P	
MON 359.2	G					P	
MON 359.3	G					P	
MON 359.4	G					P	
MON 359.5	G					P	
MON 359.6	G					P	
MON 359.7	G					P	
MON 359.8	P					P	
MON 359.9	G					P	
MON 359.10	P					P	
MON 360	D					P	
MON 360.1	G					P	
MON 360.2	F					P	
MON 360.3	G					P	
MON 360.4	G					P	
MON 360.5	G					P	
MON 360.6	G					P	
MON 360.7	G					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 360.8	G					P	
MON 360.9	F					P	
MON 360.10	G					P	
MON 360.11	F					P	
MON 360.12	G					P	
MON 361	G					P	
MON 361.1	F					P	
MON 361.2	P					P	
MON 361.3	G					P	
MON 361.4	P					P	
MON 361.5	G					P	
MON 362	G					P	
MON 362.1	G					P	
MON 362.2	G					P	
MON 362.3	G					P	
MON 362.4	G					P	
MON 362.5	G					P	
MON 362.6	G					P	
MON 362.7	G					P	
MON 362.8	F					P	
MON 362.9	G					P	
MON 363	G					P	
MON 363.1	G					P	
MON 363.2	G					P	
MON 363.3	G					P	
MON 363.4	F					P	
MON 363.5	D					P	
MON 363.6	G					P	
MON 363.7	G					P	
MON 363.8	G					P	
MON 363.9	F					P	
MON 363.10	F					P	
MON 364	G					P	
MON 364.1	G					P	
MON 364.2	F					P	
MON 364.3	D					P	
MON 364.4	G					P	
MON 364.5	G					P	
MON 365	G					P	
MON 365.1	G					P	
MON 365.2	P					P	
MON 365.3	D					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 365.4	G					P	
MON 365.5	G					P	
MON 365.6	F					P	
MON 365.7	F					P	
MON 365.8	G					P	
MON 366	P					P	
MON 366.1	G					P	
MON 366.2	G					P	
MON 366.3	G					P	
MON 366.4	G					P	
MON 366.5	G					P	
MON 366.6	G					P	
MON 366.7	G					P	
MON 366.8	F					P	
MON 366.9	D					NP	
MON 366.10	G					P	
MON 366.11	G					P	
MON 366.12	G					P	
MON 367	G					P	
MON 367.1	F					P	
MON 373	G					P	
MON 373.1	G					P	
MON 373.2	G					P	
MON 373.3	G					P	
MON 373.4	P					P	
MON 373.5	P					P	
MON 373.6	P					P	
MON 373.7	P					P	
MON 381.16	G					P	
MON 381.17	G					P	
MON 381.18	G					P	
MON 381.19	G					P	
MON 381.20	G					P	
MON 382	G					P	
MON 382.1	G					P	
MON 382.2	F					P	
MON 382.3	G					P	
MON 382.4	G					P	
MON 382.5	G					P	
MON 382.6	F					P	
MON 382.7	G					P	
MON 382.8	F					P	

Highlands (NE Section) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 382.9	G					P	
MON 382.10	G					P	
MON 382.11	G					P	
MON 382.12	G					P	
MON 382.13	G					P	
MON 383.27	F					P	S
MON 383.28	G					P	S
MON 383.29	G				DU	P	S
MON 387.25	G					P	
MON 387.26	G					P	
MON 387.27	G					P	
MON 388	G					P	
MON 403.4	G					P	
MON 403.5	F					P	
MON 403.6	G					P	
MON 403.7	G					P	
MON 403.10	P					P	
MON 404	F			MP		P	
MON 404.1	G					P	
MON 404.2	G					P	
MON 404.3	G					P	
MON 404.4	G					P	
MON 404.5	G					P	
MON 404.6	G					P	
MON 404.7	G					P	
MON 404.8	G					P	

Halls Stream

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 510	F					NP	S
RM 510-1	NR					NP	
RM 510-5	G					P	S
RM 510-8	G					P	S
RM 510-9	D					P	
RM 510-10	D					NP	
RM 510-14	F					P	S
RM 510-15	G					P	S
RM 510-18	F					P	S
MON TP333	G					NP	
MON TP334	G					NP	
MON TP335	G					NP	
MON TP336	G					NP	
MON TP337	G					NP	
MON TP338	NR					NP	
MON TP339	G					NP	
MON TP341	D					NP	
RM 511-1	G					P	S
RM 511-2-39	NR					NP	
RM 511-4	G					P	S
RM 511-6	G					P	S
MON TP417	G					P	
RM 511-10	G					P	S
RM 511-11	F					P	S
MON TP572	G					P	S
RM 511-15	G					P	S
MON TP574	G					NP	S
MON TP614	G					NP	
RM 512-49	PO					P	S

45th Parallel (West Line)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 518	G					NP	S
MON 518A	G					NP	S
MON 519AA	G					NP	S
MON 723	PO	R				P	
MON 724	PO	R				P	
MON 725	PO					P	
MON 726	G			MP		P	
MON 728	PO	R				P	
MON 729	G			MP		P	
MON 730	PO	R				P	
MON 731	PO	R				P	
MON 737	G			MP		P	
MON 738	G			MP		P	
MON 739	G					P	
MON 753	PO					NP	
DISK UNKNOWN	F					NP	
SITE OF MON 754	NR					NP	
MON 754A	PO	R				P	
MON 755	G	R		MP	DU	P	S
MON 755A	G	NM			DU	P	S
MON 756	G					P	S

St. Lawrence River and the Great Lakes

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 33-98	G					P	S
RM 35-41	G					P	S
RM 34-98	G					P	S
RM 34-16		NM			ND	P	S

Northwesternmost Point of Lake of the Woods to Lake Superior

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1	PO			MP	DU	P	
RM 2	PO			MP	DU	P	
RM 3	NR				DU		
RM 4	G			MP	DU	P	
RM 5	NR				DU		
RM 6	PO				DU	P	
RM 7	G				DU	P	
RM 8	G				DU	P	
RM 9	G				DU	P	
RM 10	NR				DU		
RM 11	G			MP	DU	P	
RM 12	PO				DU	P	
RM 13	G			MP	DU	P	
RM 14-37	NR				DU		
RM 15	G			MP	DU	P	
RM 16	F				DU	P	
RM 17	F			MP	DU	P	
RM 18	F			MP	DU	P	
RM 19	G			MP	DU	P	
RM 20	G			MP	DU	P	
RM 21	F			MP	DU	P	
RM 22	NR				DU		
RM 23	F			MP	DU	P	
RM 24	G			MP	DU	P	
RM 25	G			MP	DU	P	
RM 26	G			MP	DU	P	
RM 27	F			MP	DU	P	
RM 28	G			MP	DU	P	
RM 29	F			MP	DU	P	
RM 30	G			MP	DU	P	
RM 31	G			MP	DU	P	
RM 32	G			MP	DU	P	
RM 33	F			MP	DU	P	
RM 34	G			MP	DU	P	
RM 35	G			MP	DU	P	
RM 36	G			MP	DU	P	
RM 37	G			MP	DU	P	
RM 38	G			MP	DU	P	
RM 39	PO				DU	P	
RM 39-95	PO				DU	P	
RM 40-95	G			MP	DU	P	
RM 41	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 42	G			MP	DU	P	
RM 43-37	G			MP	DU	P	
RM 44	G			MP	DU	P	
RM 45	F			MP	DU	P	
RM 46	F			MP	DU	P	
RM 47	G			MP	DU	P	
RM 48	NR				DU		
RM 49-95	NR				DU		
RM 50-47	NR				DU		
RM 51	NR				DU		
RM 52-68	G			MP	DU	P	
RM 53-68	G			MP	DU	P	
RM 54-68	NR				DU		
RM 55	G			MP	DU	P	
RM 56-37	G			MP	DU	P	
RM 57	G			MP	DU	P	
RM 58	G			MP	DU	P	
RM 59-68	G			MP	DU	P	
RM 59-95 ECC	G			MP	DU	P	
RM 59-09	G			MP	DU	P	
RM 60-68	G			MP	DU	P	
RM 61-68	G			MP	DU	P	
RM 62	G			MP	DU	P	
RM 63-37	G			MP	DU	P	
RM 64-68	G			MP	DU	P	
RM 65	F			MP	DU	P	
RM 66-37	G				DU	P	
RM 67	G			MP	DU	P	
RM 68-68	F			MP	DU	P	
RM 69-68	G			MP	DU	P	
RM 69-95 ECC	NR				DU		
RM 70	G			MP	DU	P	
RM 71	G			MP	DU	P	
RM 72-68	G			MP	DU	P	
RM 73-47	G			MP	DU	P	
RM 74-68	G			MP	DU	P	
RM 75	G			MP	DU	P	
RM 76	F			MP	DU	P	
RM 77	G			MP	DU	P	
RM 78-68	G			MP	DU	P	
RM 79-68	F			MP	DU	P	
RM 79A	NR				DU		
RM 80	NR				DU		

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 81	G			MP	DU	P	
RM 82-47	G			MP	DU	P	
RM 83-95	PO			MP	DU	P	
RM 84-68	G			MP	DU	P	
RM 85	G			MP	DU	P	
RM 86-95	G			MP	DU	P	
RM 87-61	G			MP	DU	P	
RM 88-68	G			MP	DU	P	
RM 89	NR				DU		
RM 90-95	G				DU	P	
RM 91	G			MP	DU	P	
RM 92-68	G			MP	DU	P	
RM 93	G			MP	DU	P	
RM 94-95	G			MP	DU	P	
RM 95-96	G			MP	DU	P	
RM 96-68	F			MP	DU	P	
RM 96A	NR				DU		
RM 97	G			MP	DU	P	
RM 98	G			MP	DU	P	
RM 99-69	G			MP	DU	P	
RM 100-47	G			MP	DU	P	
RM 101-69	G			MP	DU	P	
RM 102	G			MP	DU	P	
RM 103-72	PO				DU	P	
RM 104-37	NR				DU		
RM 105	G				DU	P	
RM 106	G			MP	DU	P	
RM 107-69	G			MP	DU	P	
RM 108	G			MP	DU	P	
RM 109	G			MP	DU	P	
RM 110-69	G			MP	DU	P	
RM 111-69	NR				DU		
RM 112	NR				DU		
RM 112-69	G			MP	DU	P	
RM 113-69	G			MP	DU	P	
RM 114	G			MP	DU	P	
RM 115	G			MP	DU	P	
RM 116-68	G			MP	DU	P	
RM 117-95	G			MP	DU	P	
RM 118-69	G			MP	DU	P	
RM 119-18	G			MP	DU	P	
RM 120-68	G			MP	DU	P	
RM 120A	NR				DU		

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 121	G			MP	DU	P	
RM 122	G			MP	DU	P	
RM 123-69	G			MP	DU	P	
RM 124-47	G			MP	DU	P	
RM 125-69	G			MP	DU	P	
RM 126	G			MP	DU	P	
RM 127	G			MP	DU	P	
RM 128	G			MP	DU	P	
RM 129-47	G			MP	DU	P	
RM 130	G			MP	DU	P	
RM 131-69	G			MP	DU	P	
RM 132	G			MP	DU	P	
RM 133	G			MP	DU	P	
RM 134-69	G			MP	DU	P	
RM 134A	NR				DU		
RM 135	G			MP	DU	P	
RM 136	G			MP	DU	P	
RM 137-69	G			MP	DU	P	
RM 138-69	G			MP	DU	P	
RM 139-69	G			MP	DU	P	
RM 140	G			MP	DU	P	
RM 141	G			MP	DU	P	
RM 142-69	G			MP	DU	P	
RM 143-68	G			MP	DU	P	
RM 144-69	G			MP	DU	P	
RM 145-69	G			MP	DU	P	
RM 146	G			MP	DU	P	
RM 147	G			MP	DU	P	
RM 148	G			MP	DU	P	
RM 149	G			MP	DU	P	
RM 150-69	G			MP	DU	P	
RM 151-69	G			MP	DU	P	
RM 152-69	G			MP	DU	P	
RM 153	G			MP	DU	P	
RM 154-69	G			MP	DU	P	
RM 155-69	G			MP	DU	P	
RM 156	G			MP	DU	P	
RM 157-69	G			MP	DU	P	
RM 158	G			MP	DU	P	
RM 159	G			MP	DU	P	
RM 160	NR				DU		
RM 161	G			MP	DU	P	
RM 162	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 163	F			MP	DU	P	
RM 164-69	G			MP	DU	P	
RM 165-69	F			MP	DU	P	
RM 166	G			MP	DU	P	
RM 167-95	G			MP	DU	P	
RM 168	G			MP	DU	P	
RM 169	G			MP	DU	P	
RM 170	G			MP	DU	P	
RM 171-37	PO			MP	DU	P	
RM 172	PO			MP	DU	P	
RM 173	G			MP	DU	P	
RM 174	G			MP	DU	P	
RM 175	G			MP	DU	P	
RM 176-95	G			MP	DU	P	
RM 177	G			MP	DU	P	
RM 178	PO			MP	DU	P	
RM 179	F			MP	DU	P	
RM 180	PO				DU	P	
RM 181-95	G			MP	DU	P	
RM 182	PO			MP	DU	P	
RM 183	NR				DU		
RM 184	NR				DU		
RM 185	G			MP	DU	P	
RM 186	F			MP	DU	P	
RM 187	G			MP	DU	P	
RM 188	NR				DU		
RM 189	G			MP	DU	P	
RM 190	G			MP	DU	P	
RM 191	PO			MP	DU	P	
RM 192	G			MP	DU	P	
RM 193	G			MP	DU	P	
RM 194	G			MP	DU	P	
RM 195	G			MP	DU	P	
RM 196-47	G			MP	DU	P	
RM 197-37	NR				DU		
RM 198	G			MP	DU	P	
RM 199-95	G			MP	DU	P	
RM 200	PO			MP	DU	P	
RM 201	G			MP	DU	P	
RM 202	G			MP	DU	P	
RM 203	G			MP	DU	P	
RM 204	G			MP	DU	P	
RM 205	NR				DU		

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 206	NR				DU		
RM 207	G			MP	DU	P	
RM 207-95 ECC	NR				DU		
RM 208	G			MP	DU	P	
RM 209	G			MP	DU	P	
RM 210	PO			MP	DU	P	
RM 211	G			MP	DU	P	
RM 212	G			MP	DU	P	
RM 213	G			MP	DU	P	
RM 214	G			MP	DU	P	
RM 215	G			MP	DU	P	
RM 216	G			MP	DU	P	
RM 217	G			MP	DU	P	
RM 218	NR				DU		
RM 219-95	G			MP	DU	P	
RM 220-95	G			MP	DU	P	
RM 221	G			MP	DU	P	
RM 222	NR				DU		
RM 223	G			MP	DU	P	
RM 224	NR				DU		
RM 225	G			MP	DU	P	
RM 226	G			MP	DU	P	
RM 227-95	G			MP	DU	P	
RM 228-68	G			MP	DU	P	
RM 229-95	G			MP	DU	P	
RM 230-95	G			MP	DU	P	
RM 231	G			MP	DU	P	
RM 232	NR				DU		
RM 233	F			MP	DU	P	
RM 234	G			MP	DU	P	
RM 235	G			MP	DU	P	
RM 236	NR				DU		
RM 237-48	G			MP	DU	P	
RM 238	G			MP	DU	P	
RM 239	G			MP	DU	P	
RM 240	G			MP	DU	P	
RM 241-68	NR				DU		
RM 242	F			MP	DU	P	
RM 243	NR				DU		
RM 244	NR				DU		
RM 245	G			MP	DU	P	
RM 246	G				DU	P	
RM 247	NR				DU		

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 248-37	G			MP	DU	P	
RM 249	F			MP	DU	P	
RM 250	G			MP	DU	P	
RM 251	G			MP	DU	P	
RM 252	G			MP	DU	P	
RM 253	G			MP	DU	P	
RM 254-74	NR				DU		
RM 255	NR				DU		
RM 256-75	NR				DU		
RM 257	G			MP	DU	P	
RM 258	NR				DU		
RM 259	G			MP	DU	P	
RM 260	NR				DU		
RM 261	G			MP	DU	P	
RM 262	NR				DU		
RM 263	G			MP	DU	P	
RM 263ECC	NR				DU		
RM 264	F			MP	DU	P	
RM 265	G			MP	DU	P	
RM 266	G			MP	DU	P	
RM 267	F			MP	DU	P	
RM 268-95	NR				DU		
RM 269	G			MP	DU	P	
RM 270	F			MP	DU	P	
RM 271	G			MP	DU	P	
RM 272	F			MP	DU	P	
RM 273	G			MP	DU	P	
RM 274	F			MP	DU	P	
RM 275	G			MP	DU	P	
RM 276	G			MP	DU	P	
RM 277	G			MP	DU	P	
RM 278	F			MP	DU	P	
RM 279	G			MP	DU	P	
RM 280	F			MP	DU	P	
RM 281	F			MP	DU	P	
RM 282	G			MP	DU	P	
RM 283	G			MP	DU	P	
RM 284	G			MP	DU	P	
RM 285	F			MP	DU	P	
RM 286	G			MP	DU	P	
RM 287	F			MP	DU	P	
RM 288	F			MP	DU	P	
RM 289	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 290	G			MP	DU	P	
RM 291	G			MP	DU	P	
RM 292	F			MP	DU	P	
RM 293	G			MP	DU	P	
RM 294	G			MP	DU	P	
RM 295	F			MP	DU	P	
RM 296	G			MP	DU	P	
RM 297	G			MP	DU	P	
RM 298	F			MP	DU	P	
RM 299	G			MP	DU	P	
RM 300	G			MP	DU	P	
RM 301	G			MP	DU	P	
RM 302	G			MP	DU	P	
RM 303	G			MP	DU	P	
RM 304	F			MP	DU	P	
RM 305	G			MP	DU	P	
RM 306	F			MP	DU	P	
RM 307	F			MP	DU	P	
RM 308	F			MP	DU	P	
RM 309	G			MP	DU	P	
RM 310	G			MP	DU	P	
RM 311	F			MP	DU	P	
RM 312	F			MP	DU	P	
RM 313	F			MP	DU	P	
RM 314	G			MP	DU	P	
RM 315	F			MP	DU	P	
RM 316	F			MP	DU	P	
RM 317	G			MP	DU	P	
RM 318	G			MP	DU	P	
RM 319	G			MP	DU	P	
RM 320	G			MP	DU	P	
RM 321	G			MP	DU	P	
RM 322	G			MP	DU	P	
RM 323	F			MP	DU	P	
RM 324	G			MP	DU	P	
RM 325	G				DU	P	
RM 326	G			MP	DU	P	
RM 327	NR				DU		
RM 328	NR				DU		
RM 329	G			MP	DU	P	
RM 330	G			MP	DU	P	
RM 331	G			MP	DU	P	
RM 332	PO				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 333	G			MP	DU	P	
RM 334	G			MP	DU	P	
RM 335	G			MP	DU	P	
RM 336	F			MP	DU	P	
RM 337	G			MP	DU	P	
RM 338	F			MP	DU	P	
RM 339	F			MP	DU	P	
RM 340	F			MP	DU	P	
RM 341	G			MP	DU	P	
RM 342	NR				DU		
RM 343	G			MP	DU	P	
RM 344	G			MP	DU	P	
RM 345	G			MP	DU	P	
RM 346	G			MP	DU	P	
RM 347	G			MP	DU	P	
RM 348	G			MP	DU	P	
RM 349	G			MP	DU	P	
RM 350	G			MP	DU	P	
RM 351	G			MP	DU	P	
RM 352	F			MP	DU	P	
RM 353	G			MP	DU	P	
RM 354	G			MP	DU	P	
RM 355	G			MP	DU	P	
RM 356	G			MP	DU	P	
RM 357	F			MP	DU	P	
RM 358	G			MP	DU	P	
RM 359	G			MP	DU	P	
RM 360	G			MP	DU	P	
RM 361	F			MP	DU	P	
RM 362	G			MP	DU	P	
RM 363	G			MP	DU	P	
RM 364	G			MP	DU	P	
RM 365	F			MP	DU	P	
RM 366	G			MP	DU	P	
RM 367	G			MP	DU	P	
RM 368	G			MP	DU	P	
RM 369	G			MP	DU	P	
RM 370	G			MP	DU	P	
RM 371	G			MP	DU	P	
RM 372	G			MP	DU	P	
RM 373	G			MP	DU	P	
RM 374	G			MP	DU	P	
RM 375	F			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 376	F			MP	DU	P	
RM 377	G			MP	DU	P	
RM 378	G			MP	DU	P	
RM 379	G			MP	DU	P	
RM 380	G			MP	DU	P	
RM 381	G			MP	DU	P	
RM 382	G			MP	DU	P	
RM 383	F			MP	DU	P	
RM 384	G			MP	DU	P	
RM 385	G			MP	DU	P	
RM 386	G			MP	DU	P	
RM 387	G			MP	DU	P	
RM 388	F			MP	DU	P	
RM 389	G			MP	DU	P	
RM 390	G			MP	DU	P	
RM 391	G			MP	DU	P	
RM 392	G			MP	DU	P	
RM 393	G			MP	DU	P	
RM 394	G			MP	DU	P	
RM 395	G			MP	DU	P	
RM 396	G			MP	DU	P	
RM 397	G			MP	DU	P	
RM 398	NR				DU		
RM 399	G			MP	DU	P	
RM 400	G			MP	DU	P	
RM 401	G			MP	DU	P	
RM 402	G			MP	DU	P	
RM 403	G			MP	DU	P	
RM 404	G			MP	DU	P	
RM 405	G			MP	DU	P	
RM 406	G			MP	DU	P	
RM 407	G				DU	P	
RM 408	G			MP	DU	P	
RM 409	G			MP	DU	P	
RM 410	G			MP	DU	P	
RM 411	G			MP	DU	P	
RM 412	G			MP	DU	P	
RM 413	PO			MP	DU	P	
RM 414	G			MP	DU	P	
RM 415	G			MP	DU	P	
RM 416	G			MP	DU	P	
RM 417	G			MP	DU	P	
RM 418	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 419-37	G			MP	DU	P	
RM 420	G			MP	DU	P	
RM 421	PO			MP	DU	P	
RM 422	PO			MP	DU	P	
RM 423	G			MP	DU	P	
RM 424	G			MP	DU	P	
RM 425	G			MP	DU	P	
RM 426-96	G			MP	DU	P	
RM 427-37	G			MP	DU	P	
RM 428	PO				DU	P	
RM 429-48	G			MP	DU	P	
RM 430	G			MP	DU	P	
RM 431	G			MP	DU	P	
RM 432-95	G			MP	DU	P	
RM 433-95	G			MP	DU	P	
RM 434	G			MP	DU	P	
RM 435	G			MP	DU	P	
RM 436	G			MP	DU	P	
RM 437	PO				DU	P	
RM 438-37	G			MP	DU	P	
RM 439-96	G			MP	DU	P	
RM 440	PO				DU	P	
RM 440RM1	NR				DU		
RM 441	PO				DU	P	
RM 442-37	PO				DU	P	
RM 443	G			MP	DU	P	
RM 444	G			MP	DU	P	
RM 445	PO				DU	P	
RM 446	NR				DU		
RM 447	NR				DU		
RM 447RM1	NR				DU		
RM 448	NR				DU		
RM 449	G				DU	P	
RM 450	G			MP	DU	P	
RM 451	F			MP	DU	P	
RM 452	G			MP	DU	P	
RM 453	G			MP	DU	P	
RM 454	G			MP	DU	P	
RM 455	G			MP	DU	P	
RM 456	PO				DU	P	
RM 457	NR				DU	P	
RM 458	NR				DU	P	
RM 459	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 460	G			MP	DU	P	
RM 461	G			MP	DU	P	
RM 462	G			MP	DU	P	
RM 463	F			MP	DU	P	
RM 464	F			MP	DU	P	
RM 465	G			MP	DU	P	
RM 466	G			MP	DU	P	
RM 467	G			MP	DU	P	
RM 468	G			MP	DU	P	
RM 469	G			MP	DU	P	
RM 470	G			MP	DU	P	
RM 471	G			MP	DU	P	
RM 472	F			MP	DU	P	
RM 473	G			MP	DU	P	
RM 474	NR				DU		
RM 475	G			MP	DU	P	
RM 476	G			MP	DU	P	
RM 477	G			MP	DU	P	
RM 478	G			MP	DU	P	
RM 479	G			MP	DU	P	
RM 480	G			MP	DU	P	
RM 481	G			MP	DU	P	
RM 482	G			MP	DU	P	
RM 483	G			MP	DU	P	
RM 484	G			MP	DU	P	
RM 485	G			MP	DU	P	
RM 486	G			MP	DU	P	
RM 487	G			MP	DU	P	
RM 488	G			MP	DU	P	
RM 489	G			MP	DU	P	
RM 490	G			MP	DU	P	
RM 491	G			MP	DU	P	
RM 492	G			MP	DU	P	
RM 493	NR				DU		
RM 494	G			MP	DU	P	
RM 495	G			MP	DU	P	
RM 496	G			MP	DU	P	
RM 497	G			MP	DU	P	
RM 498	G			MP	DU	P	
RM 499	G			MP	DU	P	
RM 500	G				DU	P	
RM 501	G			MP	DU	P	
RM 502	F			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 503	G			MP	DU	P	
RM 504	G			MP	DU	P	
RM 505	G			MP	DU	P	
RM 506	G			MP	DU	P	
RM 507	G			MP	DU	P	
RM 508	F			MP	DU	P	
RM 509	G			MP	DU	P	
RM 510	G			MP	DU	P	
RM 511	PO				DU	P	
RM 512	G			MP	DU	P	
RM 513	PO				DU	P	
RM 514	G			MP	DU	P	
RM 515	G			MP	DU	P	
RM 516	G			MP	DU	P	
RM 517	G			MP	DU	P	
RM 518	F			MP	DU	P	
RM 519	G			MP	DU	P	
RM 520	G			MP	DU	P	
RM 521	G			MP	DU	P	
RM 522	G			MP	DU	P	
RM 523	G			MP	DU	P	
RM 524	G			MP	DU	P	
RM 525	G			MP	DU	P	
RM 526	G			MP	DU	P	
RM 527	G			MP	DU	P	
RM 528	G			MP	DU	P	
RM 529	G			MP	DU	P	
RM 530	G			MP	DU	P	
RM 531	G			MP	DU	P	
RM 532	G			MP	DU	P	
RM 533	G			MP	DU	P	
RM 534	G			MP	DU	P	
RM 535	G			MP	DU	P	
RM 536	G			MP	DU	P	
RM 537	G			MP	DU	P	
RM 538	G			MP	DU	P	
RM 539	NR				DU		
RM 540	F			MP	DU	P	
RM 541	G			MP	DU	P	
RM 542	G			MP	DU	P	
RM 543	G			MP	DU	P	
RM 544	G			MP	DU	P	
RM 545	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 546	G			MP	DU	P	
RM 547	G			MP	DU	P	
RM 548	NR				DU		
RM 549	PO			MP	DU	P	
RM 549-96	G			MP	DU	P	
RM 550	G			MP	DU	P	
RM 551	G			MP	DU	P	
RM 552	G			MP	DU	P	
RM 553	G			MP	DU	P	
RM 554	F			MP	DU	P	
RM 555	G			MP	DU	P	
RM 556	NR				DU		
RM 557	G			MP	DU	P	
RM 558	G			MP	DU	P	
RM 559	G			MP	DU	P	
RM 560	G			MP	DU	P	
RM 561	G			MP	DU	P	
RM 562	G			MP	DU	P	
RM 563	G			MP	DU	P	
RM 564	G			MP	DU	P	
RM 565	NR				DU		
RM 566	G			MP	DU	P	
RM 567	G			MP	DU	P	
RM 568	G			MP	DU	P	
RM 569	F			MP	DU	P	
RM 570	G			MP	DU	P	
RM 571	G			MP	DU	P	
RM 572	G			MP	DU	P	
RM 573	G			MP	DU	P	
RM 574	G			MP	DU	P	
RM 575	G			MP	DU	P	
RM 576	F			MP	DU	P	
RM 577	G			MP	DU	P	
RM 578	F			MP	DU	P	
RM 579	G			MP	DU	P	
RM 580	F			MP	DU	P	
RM 581	G			MP	DU	P	
RM 582	G			MP	DU	P	
RM 583	G			MP	DU	P	
RM 584	F			MP	DU	P	
RM 585	F			MP	DU	P	
RM 586	G			MP	DU	P	
RM 587	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 588	G			MP	DU	P	
RM 589	G			MP	DU	P	
RM 590	F			MP	DU	P	
RM 591	G			MP	DU	P	
RM 592	G			MP	DU	P	
RM 593	G			MP	DU	P	
RM 594	F			MP	DU	P	
RM 595	F			MP	DU	P	
RM 596	G			MP	DU	P	
RM 597	G			MP	DU	P	
RM 598	F			MP	DU	P	
RM 599	F			MP	DU	P	
RM 600	G				DU	P	
RM 601	G				DU	P	
RM 602	G				DU	P	
RM 603	G				DU	P	
RM 604	G				DU	P	
RM 605	G				DU	P	
RM 606	F				DU	P	
RM 607	F				DU	P	
RM 608	G				DU	P	
RM 609	G				DU	P	
RM 610	G				DU	P	
RM 611	G				DU	P	
RM 612	G			MP	DU	P	
RM 613	G				DU	P	
RM 614	G			MP	DU	P	
RM 615	G				DU	P	
RM 616	G			MP	DU	P	
RM 617	G				DU	P	
RM 618	G			MP	DU	P	
RM 619	NR				DU		
RM 620	G			MP	DU	P	
RM 621	G				DU	P	
RM 622	G			MP	DU	P	
RM 623	G			MP	DU	P	
RM 624	F			MP	DU	P	
RM 625	G			MP	DU	P	
RM 626	G			MP	DU	P	
RM 627	G			MP	DU	P	
RM 628	F			MP	DU	P	
RM 629	G			MP	DU	P	
RM 630	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 631	G			MP	DU	P	
RM 632	G			MP	DU	P	
RM 633	G			MP	DU	P	
RM 634	G			MP	DU	P	
RM 635	G			MP	DU	P	
RM 636	G			MP	DU	P	
RM 637	G			MP	DU	P	
RM 638	G			MP	DU	P	
RM 639	G			MP	DU	P	
RM 640	G			MP	DU	P	
RM 641	G			MP	DU	P	
RM 642	G			MP	DU	P	
RM 643	G			MP	DU	P	
RM 644	G			MP	DU	P	
RM 645	F			MP	DU	P	
RM 646	G			MP	DU	P	
RM 647	G			MP	DU	P	
RM 648	F			MP	DU	P	
RM 649	G			MP	DU	P	
RM 650	G			MP	DU	P	
RM 651	G			MP	DU	P	
RM 652	F			MP	DU	P	
RM 653	G			MP	DU	P	
RM 654	F			MP	DU	P	
RM 655	G			MP	DU	P	
RM 656	PO				DU	P	
RM 657	G			MP	DU	P	
RM 658	G			MP	DU	P	
RM 659	G			MP	DU	P	
RM 660	G			MP	DU	P	
RM 661	G			MP	DU	P	
RM 662	G			MP	DU	P	
RM 663	G			MP	DU	P	
RM 664	G			MP	DU	P	
RM 665	G			MP	DU	P	
RM 666	G			MP	DU	P	
RM 667	G			MP	DU	P	
RM 668	G			MP	DU	P	
RM 669	G			MP	DU	P	
RM 670	G			MP	DU	P	
RM 671	G			MP	DU	P	
RM 672	G			MP	DU	P	
RM 673	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 674	G			MP	DU	P	
RM 675	G			MP	DU	P	
RM 676	G				DU	P	
RM 677	G			MP	DU	P	
RM 678	G			MP	DU	P	
RM 679	F			MP	DU	P	
RM 680	G			MP	DU	P	
RM 681	G			MP	DU	P	
RM 682	G			MP	DU	P	
RM 683	G			MP	DU	P	
RM 684	G			MP	DU	P	
RM 685	G			MP	DU	P	
RM 686	G				DU	P	
RM 687	G			MP	DU	P	
RM 688	G			MP	DU	P	
RM 689	G			MP	DU	P	
RM 690	G			MP	DU	P	
RM 691	NR				DU		
RM 692	G			MP	DU	P	
RM 693	G				DU	P	
RM 694	G			MP	DU	P	
RM 695	F			MP	DU	P	
RM 696	G			MP	DU	P	
RM 697	G			MP	DU	P	
RM 698	G			MP	DU	P	
RM 699	G				DU	P	
RM 700	G				DU	P	
RM 701	G			MP	DU	P	
RM 702	NR				DU		
RM 703	G			MP	DU	P	
RM 704	G			MP	DU	P	
RM 705	G			MP	DU	P	
RM 706	G			MP	DU	P	
RM 707	G			MP	DU	P	
RM 708	G				DU	P	
RM 709	G				DU	P	
RM 710	G			MP	DU	P	
RM 711	G				DU	P	
RM 712	G			MP	DU	P	
RM 713	G			MP	DU	P	
RM 714	G			MP	DU	P	
RM 715	G			MP	DU	P	
RM 716	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 717	G				DU	P	
RM 718	G			MP	DU	P	
RM 719	G			MP	DU	P	
RM 720	G			MP	DU	P	
RM 721	G			MP	DU	P	
RM 722	F			MP	DU	P	
RM 723	G			MP	DU	P	
RM 724	G			MP	DU	P	
RM 725	G			MP	DU	P	
RM 726	G			MP	DU	P	
RM 727	G			MP	DU	P	
RM 728	G			MP	DU	P	
RM 729	G			MP	DU	P	
RM 730	G			MP	DU	P	
RM 731	G			MP	DU	P	
RM 732	G			MP	DU	P	
RM 733	G			MP	DU	P	
RM 734	NR				DU		
RM 735	G				DU	P	
RM 736	G				DU	P	
RM 737	G			MP	DU	P	
RM 738	G			MP	DU	P	
RM 739	G			MP	DU	P	
RM 740	G			MP	DU	P	
RM 741	G			MP	DU	P	
RM 742	G			MP	DU	P	
RM 743	G			MP	DU	P	
RM 744	G			MP	DU	P	
RM 745	G			MP	DU	P	
RM 746	G			MP	DU	P	
RM 747	G			MP	DU	P	
RM 748	G			MP	DU	P	
RM 749	G			MP	DU	P	
RM 750	G			MP	DU	P	
RM 751	G			MP	DU	P	
RM 752	G			MP	DU	P	
RM 753	G			MP	DU	P	
RM 754	G			MP	DU	P	
RM 755	G			MP	DU	P	
RM 756	G				DU	P	
RM 757	G			MP	DU	P	
RM 758	F			MP	DU	P	
RM 759	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 760	G			MP	DU	P	
RM 761	G			MP	DU	P	
RM 762	G				DU	P	
RM 763	G			MP	DU	P	
RM 764	NR				DU		
RM 765	G			MP	DU	P	
RM 766	NR				DU		
RM 767	G			MP	DU	P	
RM 768	G				DU	P	
RM 769	G			MP	DU	P	
RM 770	G			MP	DU	P	
RM 771	G			MP	DU	P	
RM 772	G			MP	DU	P	
RM 773	G			MP	DU	P	
RM 774	G			MP	DU	P	
RM 775	F			MP	DU	P	
RM 776	G			MP	DU	P	
RM 777	G			MP	DU	P	
RM 778	G			MP	DU	P	
RM 779	G				DU	P	
RM 780	G				DU	P	
RM 781	G			MP	DU	P	
RM 782	G				DU	P	
RM 783	G			MP	DU	P	
RM 784	G			MP	DU	P	
RM 785	G			MP	DU	P	
RM 786	G			MP	DU	P	
RM 787	G			MP	DU	P	
RM 788	G			MP	DU	P	
RM 789	G			MP	DU	P	
RM 790	G			MP	DU	P	
RM 791	G				DU	P	
RM 792	G			MP	DU	P	
RM 793	G				DU	P	
RM 794	G			MP	DU	P	
RM 795	G			MP	DU	P	
RM 796	NR				DU		
RM 797	G			MP	DU	P	
RM 798	G			MP	DU	P	
RM 799	G			MP	DU	P	
RM 800	G			MP	DU	P	
RM 801	G			MP	DU	P	
RM 802	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 803	G			MP	DU	P	
RM 804	G			MP	DU	P	
RM 805	G			MP	DU	P	
RM 806	G			MP	DU	P	
RM 807	G			MP	DU	P	
RM 808	G			MP	DU	P	
RM 809	G			MP	DU	P	
RM 810	F			MP	DU	P	
RM 811	G			MP	DU	P	
RM 812	G			MP	DU	P	
RM 813	G			MP	DU	P	
RM 814	G			MP	DU	P	
RM 815	G			MP	DU	P	
RM 816	G			MP	DU	P	
RM 817	G			MP	DU	P	
RM 818	G			MP	DU	P	
RM 819	G			MP	DU	P	
RM 820	F			MP	DU	P	
RM 821	G			MP	DU	P	
RM 822	G			MP	DU	P	
RM 823-96	G			MP	DU	P	
RM 824	G			MP	DU	P	
RM 825	G			MP	DU	P	
RM 826	G			MP	DU	P	
RM 827	G			MP	DU	P	
RM 828	G			MP	DU	P	
RM 829	G			MP	DU	P	
RM 830	G			MP	DU	P	
RM 831	G			MP	DU	P	
RM 832	G			MP	DU	P	
RM 833	NR				DU		
RM 834	G			MP	DU	P	
RM 835-96	G			MP	DU	P	
RM 836	G			MP	DU	P	
RM 837	G			MP	DU	P	
RM 838	G				DU	P	
RM 839	G			MP	DU	P	
RM 840	G			MP	DU	P	
RM 841	G				DU	P	
RM 842	G				DU	P	
RM 843	G			MP	DU	P	
RM 844	NR				DU		
RM 845	F				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 846	G			MP	DU	P	
RM 847	F			MP	DU	P	
RM 848	G				DU	P	
RM 849	F			MP	DU	P	
RM 850	NR				DU		
RM 851	NR				DU		
RM 852	NR				DU		
RM 853	G			MP	DU	P	
RM 854	NR				DU		
RM 855	G				DU	P	
RM 856	G			MP	DU	P	
RM 857	G			MP	DU	P	
RM 858	G			MP	DU	P	
RM 859	G				DU	P	
RM 860	G			MP	DU	P	
RM 861	G			MP	DU	P	
RM 862	G			MP	DU	P	
RM 863	F				DU	P	
RM 864	G				DU	P	
RM 865	F			MP	DU	P	
RM 866	G				DU	P	
RM 867	G			MP	DU	P	
RM 868	G			MP	DU	P	
RM 869	G				DU	P	
RM 870	G				DU	P	
RM 871	G			MP	DU	P	
RM 872	NR				DU		
RM 873	G			MP	DU	P	
RM 874	G				DU	P	
RM 875	G				DU	P	
RM 876	G				DU	P	
RM 877	G			MP	DU	P	
RM 878	G			MP	DU	P	
RM 879	NR				DU		
RM 880	G			MP	DU	P	
RM 881	G			MP	DU	P	
RM 882	G			MP	DU	P	
RM 883	G				DU	P	
RM 884	G				DU	P	
RM 885	G			MP	DU	P	
RM 886	PO				DU	P	
RM 887	G			MP	DU	P	
RM 888	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 889-96	G			MP	DU	P	
RM 890	G			MP	DU	P	
RM 891	PO				DU	P	
RM 892	G			MP	DU	P	
RM 893	G			MP	DU	P	
RM 894	G				DU	P	
RM 895	NR				DU		
RM 896	G				DU	P	
RM 897	G			MP	DU	P	
RM 898	PO				DU		
RM 899	G			MP	DU	P	
RM 900	G			MP	DU	P	
RM 901	F			MP	DU	P	
RM 902	F			MP	DU	P	
RM 903	F			MP	DU	P	
RM 904	G			MP	DU	P	
RM 905	G			MP	DU	P	
RM 906	G				DU	P	
RM 907	F			MP	DU	P	
RM 908	G			MP	DU	P	
RM 909	G			MP	DU	P	
RM 910	G				DU	P	
RM 911	G				DU	P	
RM 912	G			MP	DU	P	
RM 913	G			MP	DU	P	
RM 914	G				DU	P	
RM 915	F			MP	DU	P	
RM 916	G				DU	P	
RM 917	G				DU	P	
RM 918	F				DU	P	
RM 919	G				DU	P	
RM 920	G				DU	P	
RM 921	G				DU	P	
RM 922	G				DU	P	
RM 923	G				DU	P	
RM 924	G			MP	DU	P	
RM 925	G				DU	P	
RM 926	NR				DU		
RM 927	G				DU	P	
RM 928	G			MP	DU	P	
RM 929	NR				DU		
RM 930	G			MP	DU	P	
RM 931	G				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 932	G			MP	DU	P	
RM 933	G			MP	DU	P	
RM 934	G			MP	DU	P	
RM 935	NR				DU		
RM 936	F			MP	DU	P	
RM 937	F			MP	DU	P	
RM 938	F			MP	DU	P	
RM 939	F			MP	DU	P	
Mon 1	G			MP	DU	P	
Mon 2	G			MP	DU	P	
Mon 3	G			MP	DU	P	
RM 940	G			MP	DU	P	
RM 941	F			MP	DU	P	
RM 942	G			MP	DU	P	
RM 943	PO				DU	P	
RM 944	G			MP	DU	P	
RM 945	NR				DU		
RM 946	G			MP	DU	P	
RM 947	G			MP	DU	P	
RM 948	G			MP	DU	P	
RM 949	NR				DU		
RM 950	G			MP	DU	P	
RM 951	G			MP	DU	P	
RM 952	NR				DU		
RM 953	G			MP	DU	P	
RM 954	G			MP	DU	P	
RM 955	NR				DU		
RM 956	NR				DU		
RM 957	G			MP	DU	P	
RM 958	G				DU	P	
RM 959	G			MP	DU	P	
RM 960	G			MP	DU	P	
RM 961	G			MP	DU	P	
RM 962	F				DU	P	
RM 963	G			MP	DU	P	
RM 964	NR				DU		
RM 965	G				DU	P	
RM 966	G			MP	DU	P	
RM 967	G			MP	DU	P	
RM 968	G			MP	DU	P	
RM 969	G			MP	DU	P	
RM 970	G			MP	DU	P	
RM 971	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 972	F			MP	DU	P	
RM 973	G			MP	DU	P	
RM 974	G			MP	DU	P	
RM 975	G			MP	DU	P	
RM 976	G			MP	DU	P	
RM 977	F			MP	DU	P	
RM 978	F			MP	DU	P	
RM 979	G			MP	DU	P	
RM 980	NR				DU		
RM 981	G			MP	DU	P	
RM 982	G			MP	DU	P	
RM 983	G			MP	DU	P	
RM 984	NR				DU		
RM 985	G			MP	DU	P	
RM 986	G			MP	DU	P	
RM 987	G			MP	DU	P	
RM 988	G			MP	DU	P	
RM 989	G			MP	DU	P	
RM 990	G			MP	DU	P	
RM 991	NR				DU		
RM 992	G			MP	DU	P	
RM 993	G			MP	DU	P	
RM 994	G				DU	P	
RM 995	G			MP	DU	P	
RM 996	G				DU	P	
RM 997	G				DU	P	
RM 998	G				DU	P	
RM 999	G				DU	P	
RM 1000	G				DU	P	
RM 1001	G			MP	DU	P	
RM 1002	G			MP	DU	P	
RM 1003	G			MP	DU	P	
RM 1004	G			MP	DU	P	
RM 1005	G			MP	DU	P	
RM 1006	G			MP	DU	P	
RM 1007	G				DU	P	
RM 1008	G			MP	DU	P	
RM 1009	G			MP	DU	P	
RM 1010	G				DU	P	
RM 1011	G				DU	P	
RM 1012	G				DU	P	
RM 1013	G				DU	P	
RM 1014	F				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1015	G				DU	P	
RM 1016	G			MP	DU	P	
RM 1017	G			MP	DU	P	
RM 1018	PO				DU	P	
RM 1019	G			MP	DU	P	
RM 1020	G			MP	DU	P	
RM 1021	G			MP	DU	P	
RM 1022	G			MP	DU	P	
RM 1023	G			MP	DU	P	
RM 1024	G			MP	DU	P	
RM 1025	G			MP	DU	P	
RM 1026	G			MP	DU	P	
RM 1027	G			MP	DU	P	
RM 1028	G			MP	DU	P	
RM 1029	G			MP	DU	P	
RM 1030	G			MP	DU	P	
RM 1031	G			MP	DU	P	
RM 1032	G			MP	DU	P	
RM 1033	G			MP	DU	P	
RM 1034	G			MP	DU	P	
RM 1035	NR				DU		
RM 1036	G				DU	P	
RM 1037	NR				DU		
RM 1038	G			MP	DU	P	
RM 1039	G				DU	P	
RM 1040	G			MP	DU	P	
RM 1041	G			MP	DU	P	
RM 1042	G				DU	P	
RM 1043	G			MP	DU	P	
RM 1044	G				DU	P	
RM 1045	G			MP	DU	P	
RM 1046	G			MP	DU	P	
RM 1047	G				DU	P	
RM 1048	G			MP	DU	P	
RM 1049	G			MP	DU	P	
RM 1050	G			MP	DU	P	
RM 1051	G				DU	P	
RM 1052	G			MP	DU	P	
RM 1053	G				DU	P	
RM 1054	G			MP	DU	P	
RM 1055	G			MP	DU	P	
RM 1056	G			MP	DU	P	
RM 1057	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1058	G				DU	P	
RM 1059	NR				DU		
RM 1060	G			MP	DU	P	
RM 1061	G			MP	DU	P	
RM 1062	G				DU	P	
RM 1063	G			MP	DU	P	
RM 1064	G				DU	P	
RM 1065	G			MP	DU	P	
RM 1066	NR				DU		
RM 1067	G				DU	P	
RM 1068	NR				DU		
RM 1069	G				DU	P	
RM 1070	G			MP	DU	P	
RM 1071	G			MP	DU	P	
RM 1072	NR				DU		
RM 1073	PO				DU	P	
RM 1074	G				DU	P	
RM 1075	G				DU	P	
RM 1076	G				DU	P	
RM 1077	NR				DU		
RM 1078	G				DU	P	
RM 1079	NR				DU		
RM 1080	G				DU	P	
RM 1081	NR				DU		
RM 1082	G			MP	DU	P	
RM 1083	G			MP	DU	P	
RM 1084	G			MP	DU	P	
RM 1085	G			MP	DU	P	
RM 1086	G			MP	DU	P	
RM 1087	G				DU	P	
RM 1088	G			MP	DU	P	
RM 1089	G				DU	P	
RM 1090	G			MP	DU	P	
RM 1091	G			MP	DU	P	
RM 1092	G			MP	DU	P	
RM 1093	G			MP	DU	P	
RM 1094	G			MP	DU	P	
RM 1095	G			MP	DU	P	
RM 1096	G			MP	DU	P	
RM 1097	NR				DU		
RM 1098	G			MP	DU	P	
RM 1099	G			MP	DU	P	
RM 1100	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1101	G			MP	DU	P	
RM 1102	G			MP	DU	P	
RM 1103	G			MP	DU	P	
RM 1104	G			MP	DU	P	
RM 1105	G			MP	DU	P	
RM 1106	G			MP	DU	P	
RM 1107	G			MP	DU	P	
RM 1108	NR				DU		
RM 1109	G			MP	DU	P	
RM 1110	G				DU	P	
RM 1111	G			MP	DU	P	
RM 1112	PO				DU	P	
RM 1113	G			MP	DU	P	
RM 1114	PO				DU	P	
RM 1115	G				DU	P	
RM 1116-49	PO				DU	P	
RM 1117	G			MP	DU	P	
RM 1118	G			MP	DU	P	
RM 1119	G			MP	DU	P	
RM 1120	G			MP	DU	P	
RM 1121	G			MP	DU	P	
RM 1122	PO				DU	P	
RM 1123	G			MP	DU	P	
RM 1124	G			MP	DU	P	
RM 1125	G			MP	DU	P	
RM 1126	G			MP	DU	P	
RM 1127	G			MP	DU	P	
RM 1128	NR				DU		
RM 1129	G			MP	DU	P	
RM 1130	G				DU	P	
RM 1131	NR				DU		
RM 1132	G				DU	P	
RM 1133	G				DU	P	
RM 1134	G				DU	P	
RM 1135	G			MP	DU	P	
RM 1136	G			MP	DU	P	
RM 1137	PO				DU	P	
RM 1138	G				DU	P	
RM 1139	G			MP	DU	P	
RM 1140	G			MP	DU	P	
RM 1141	G			MP	DU	P	
RM 1142	G			MP	DU	P	
RM 1143	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1144	PO				DU	P	
RM 1145	G			MP	DU	P	
RM 1146	PO				DU	P	
RM 1147	G			MP	DU	P	
RM 1148	F				DU	P	
RM 1149	G			MP	DU	P	
RM 1150	G			MP	DU	P	
RM 1151	NR				DU		
RM 1152	PO			MP	DU	P	
RM 1153	G				DU	P	
RM 1154	G			MP	DU	P	
RM 1155	G			MP	DU	P	
RM 1156	G			MP	DU	P	
Mon 4	G			MP	DU	P	
Mon 5	G			MP	DU	P	
Mon 6	G			MP	DU	P	
RM 1157	NR				DU		
RM 1158	G				DU	P	
RM 1159	G				DU	P	
RM 1160	NR				DU		
RM 1161	G				DU	P	
RM 1162	F				DU	P	
RM 1163	G			MP	DU	P	
RM 1164	G				DU	P	
RM 1165	G			MP	DU	P	
RM 1166	G			MP	DU	P	
RM 1167	G			MP	DU	P	
RM 1168	PO				DU	P	
RM 1169	G			MP	DU	P	
RM 1170	G			MP	DU	P	
RM 1171	G				DU	P	
RM 1172	G			MP	DU	P	
RM 1173	G			MP	DU	P	
RM 1174	G			MP	DU	P	
RM 1175	G			MP	DU	P	
RM 1176	G			MP	DU	P	
RM 1177	G			MP	DU	P	
RM 1178	G			MP	DU	P	
RM 1179	G			MP	DU	P	
RM 1180	G			MP	DU	P	
RM 1181	G			MP	DU	P	
RM 1182	G			MP	DU	P	
RM 1183	G				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1184	G			MP	DU	P	
RM 1185	G			MP	DU	P	
RM 1186	G			MP	DU	P	
RM 1187	G			MP	DU	P	
RM 1188	G			MP	DU	P	
RM 1189	G				DU	P	
RM 1190	G			MP	DU	P	
RM 1191	G				DU	P	
RM 1192	G			MP	DU	P	
RM 1193	G				DU	P	
RM 1194	G			MP	DU	P	
RM 1195	G			MP	DU	P	
RM 1196	G			MP	DU	P	
RM 1197	G			MP	DU	P	
RM 1198	PO				DU	P	
RM 1199	G			MP	DU	P	
RM 1200	G			MP	DU	P	
RM 1201	G			MP	DU	P	
RM 1202	NR				DU		
RM 1203	G			MP	DU	P	
RM 1204	G			MP	DU	P	
RM 1205	G			MP	DU	P	
RM 1206	NR				DU		
RM 1207	G			MP	DU	P	
RM 1208	G			MP	DU	P	
RM 1209	G			MP	DU	P	
RM 1210	G			MP	DU	P	
RM 1211	NR				DU		
RM 1212	G			MP	DU	P	
RM 1213	G				DU	P	
RM 1214	G			MP	DU	P	
RM 1215	PO				DU	P	
RM 1216	G			MP	DU	P	
RM 1217	F			MP	DU	P	
RM 1218	G			MP	DU	P	
RM 1219	G			MP	DU	P	
RM 1220	NR				DU		
RM 1221	G			MP	DU	P	
RM 1222	F				DU	P	
RM 1223	NR				DU		
RM 1224	G				DU	P	
RM 1225	NR				DU		
RM 1226	F				DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1227	PO			MP	DU	P	
RM 1228	NR				DU		
RM 1229	PO				DU	P	
RM 1230	G			MP	DU	P	
RM 1231	PO				DU	P	
RM 1232	G			MP	DU	P	
RM 1233	G				DU	P	
RM 1234	PO				DU	P	
RM 1235	PO				DU	P	
RM 1236	F			MP	DU	P	
RM 1237	G			MP	DU	P	
RM 1238	G			MP	DU	P	
Mon 7	G			MP	DU	P	
Mon 8	G			MP	DU	P	
Mon 9	G			MP	DU	P	
RM 1239	PO				DU	P	
RM 1240	G				DU	P	
RM 1241	PO				DU	P	
RM 1242	G			MP	DU	P	
RM 1243	PO				DU	P	
RM 1244	G				DU	P	
RM 1245	G				DU	P	
RM 1246	NR				DU		
RM 1247	F			MP	DU	P	
RM 1248	NR				DU		
RM 1249	PO				DU	P	
RM 1250	G				DU	P	
RM 1251	G			MP	DU	P	
RM 1252	NR				DU		
RM 1253	G				DU	P	
RM 1254	NR				DU		
RM 1255	G			MP	DU	P	
RM 1256	G			MP	DU	P	
RM 1257	F				DU	P	
RM 1258	NR				DU		
RM 1259	G			MP	DU	P	
RM 1260	G			MP	DU	P	
RM 1261	NR				DU		
RM 1262	G			MP	DU	P	
RM 1263	NR				DU		
RM 1264	G			MP	DU	P	
RM 1265	G			MP	DU	P	
RM 1266	F			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1267	NR				DU		
RM 1268	G			MP	DU	P	
RM 1269	NR				DU		
RM 1270	NR				DU		
RM 1271	G				DU	P	
RM 1272	G			MP	DU	P	
RM 1273	G			MP	DU	P	
RM 1274	G			MP	DU	P	
RM 1275	G			MP	DU	P	
RM 1276	PO				DU	P	
RM 1277	G			MP	DU	P	
RM 1278	G			MP	DU	P	
RM 1279	G			MP	DU	P	
RM 1280	F			MP	DU	P	
RM 1281	NR				DU		
RM 1282	F			MP	DU	P	
RM 1282A	G			MP	DU	P	
RM 1283	NR				DU		
RM 1284	F			MP	DU	P	
RM 1284A	NR				DU		
RM 1285	NR				DU		
RM 1286	G			MP	DU	P	
RM 1287	G			MP	DU	P	
RM 1288	G			MP	DU	P	
RM 1289	NR				DU		
RM 1290							
RM 1291	F			MP	DU	P	
RM 1292							
RM 1293	G				DU	P	
RM 1294							
RM 1295	G			MP	DU	P	
RM 1296							
RM 1297	G				DU	P	
RM 1298							
RM 1299	G			MP	DU	P	
RM 1300							
RM 1301	NR				DU		
RM 1302							
RM 1303	F			MP	DU	P	
RM 1304							
RM 1305							
RM 1306	G			MP	DU	P	
RM 1307	F			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1308	NR				DU		
RM 1309	G			MP	DU	P	
RM 1310	G			MP	DU	P	
RM 1311	G			MP	DU	P	
RM 1312	G			MP	DU	P	
RM 1313	G			MP	DU	P	
RM 1314	G			MP	DU	P	
RM 1315	G			MP	DU	P	
RM 1316	G			MP	DU	P	
RM 1317	NR				DU		
RM 1318	F			MP	DU	P	
RM 1318A	NR				DU		
RM 1319-97	G			MP	DU	P	
RM 1320	NR				DU		
RM 1321	F			MP	DU	P	
RM 1322	G			MP	DU	P	
RM 1322A	G			MP	DU	P	
RM 1323	G			MP	DU	P	
RM 1324	G			MP	DU	P	
RM 1325							
RM 1326							
RM 1327							
RM 1328							
RM 1329							
RM 1330							
RM 1331	NR						
RM 1332							
RM 1333							
RM 1334	G			MP	DU	P	
RM 1335	G			MP	DU	P	
RM 1336	NR				DU		
RM 1337	G			MP	DU	P	
RM 1338							
RM 1339	NR				DU		
RM 1340	G			MP	DU	P	
RM 1340-ECC	G			MP	DU	P	
RM 1341	NR				DU		
RM 1342	PO				DU	P	
RM 1343	G			MP	DU	P	
RM 1344	F			MP	DU	P	
RM 1345	NR				DU		
RM 1346	NR				DU		
RM 1347	G			MP	DU	P	

Northwesternmost Point of Lake of the Woods to Lake Superior (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1347A	G			MP	DU	P	
RM 1348	PO				DU	P	
RM 1348A	G				DU	P	
RM 1349	PO				DU	P	
RM 1349A	NR				DU		
RM 1350	NR				DU		
RM 1351	PO				DU	P	
RM 1352	G			MP	DU	P	
RM 1353	NR				DU		
RM 1354	G				DU	P	
RM 1355	G			MP	DU	P	
RM 1356-64	G				DU	P	
RM 1357-64	G				DU	P	
RM 1358	G			MP	DU	P	
RM 1359	NR				DU		
RM 1360	NR				DU		
RM 1360-64	NR				DU		
RM 1361							
RM 1362	NR				DU		
RM 1363							
RM 1364	PO				DU	P	
RM 1365							
RM 1366							

49th Parallel (West Kootenay River to Similkameen River)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
Install Range Marks		TASK	1	16			
Mon 117-56	G			MP		P	S
Mon 118 A	G			MP		P	S
Range Mark by LM 117A		Raised 3 ft.		MP		P	
LM 117A	G			MP		P	S
Range Mark by LM 117B				MP		P	
LM 117B	F		MI	MP		P	S
Range Mark by LM 117C		NM		MP	ND	P	
LM 117C		NM		MP	ND	P	S
Range Mark by LM 117D		NM		MP	ND	P	
LM 117D		NM		MP	ND	P	S
Mon 243-88	G			MP	DU	P	S
Range Mark by LM 243A		NM		MP		P	
LM 243A		NM		MP	ND	P	S
Range Mark by LM 243B		NM		MP		P	
LM 243B		NM		MP	ND	P	S
Mon 244-2011	G			MP	DU	P	S
Range Mark by LM 244A		NM		MP	ND	P	
LM 244A		NM		MP	ND	P	S
Range Mark by LM 244B		NM		MP		P	
Install Range Marks		TASK	1	16			
LM 244B		NM		MP	ND	P	S
Mon 245	G			MP		P	S
49 th Parallel Maintenance		TASK	5	16			
Mon 329	G			MP		P	
Mon 330	G			MP		P	
49 th Parallel Maintenance		TASK	5	16			
LM 330A	G			MP		P	
Mon 332	G			MP		P	
Mon 333	G			MP		P	
Mon 333A	G			MP		P	
Mon 333AA	G			MP		P	
Mon 333AAA	G			MP		P	
Mon 334	G			MP		P	
Mon 335	G			MP		P	
Mon 336	G			MP		P	

49th Parallel (Columbia Valley to Similkameen River)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 60	G			MP		P	S
MON 59	G			MP		P	S
MON 58	F			MP		P	S
MON 57	F			MP		P	S
MON 56	P			MP		P	S
MON 55	G			MP		P	S
MON 54	G			MP		P	S
MON 53	G			MP		P	S
MON 52	G			MP		P	S
MON 51	G			MP		P	S
MON 50	G			MP		P	S
MON 49	G			MP		P	S
MON 48	G			MP		P	S
MON 47	G			MP		P	S
MON 46	F			MP		P	S
MON 45	G			MP		P	S
MON 44A	G			MP		P	S
MON 44	G			MP		P	S
RM C	G					P	
MON 4	G					P	
MON 3B	G			MP		P	
MON 3A	G			MP		P	
MON 3	G			MP		P	
MON 1	F					P	

Southeast Alaska (Alaska-British Columbia)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
Mon 0	G					P	S
Mon 1	G					P	S
Mon 2	G					NP	S
Mon 3	G					NP	S
Mon 4	G					NP	S
Mon 5	G					NP	S
Mon 6	G					NP	S
Mon 7	G					NP	S
Mon 8	G					NP	S
Mon 9	G					NP	S
Mon 10	G					NP	S
Mon 10A	G					P	S
Mon 11	G					NP	S
Mon 12A	G					NP	S
Mon 14	G					P	S
Mon 15	G					NP	S
Mon 15A	PO					NP	
Mon 17	PO					NP	S
Mon 19	G					NP	S
Mon 20	G					NP	S
Mon 21	G					NP	S
Mon 22	G					NP	
Mon 23	G					NP	S
Mon 24	F					NP	S
Mon 25	F					NP	S
Mon 26	G					NP	S
Mon 27	G					NP	S
Mon 29	G					NP	
Mon 30	G					NP	
Mon 31	G					NP	
Mon 32	G					NP	
Mon 33	G					NP	
Mon 34	G					NP	
Mon 35	G					NP	
Mon 36	G					NP	
Mon 37	PO					NP	
Mon 38	G					NP	
Mon 39	G					NP	
Mon 40	G					NP	
Mon 41	G					NP	
Mon 42	G					NP	S
Mon 43	F					NP	S

Southeast Alaska (Alaska-British Columbia) (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
Mon 44	G					NP	S
Mon 45	G					NP	S
Mon 46	G					NP	S
SEA 3	G					NP	
JES	G					NP	

141st Meridian

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
141 ST Survey		TASK	4	16			
Mon 139	G			MP	DU	P	S
Mon 140	G			MP	DU	P	S
Mon 141	G			MP	DU	P	S
Mon 142	G			MP	DU	P	S
Mon 143	G			MP	DU	P	S
Mon 144	G			MP	DU	P	S
Mon 145	G			MP	DU	P	S
Mon 146	G			MP	DU	P	S
Mon 147-85	G			MP	DU	P	S
Mon 148	G			MP	DU	P	S
Mon 149	G			MP	DU	P	S
Mon 150	G			MP	DU	P	S
Mon 151	G			MP	DU	P	S
Mon 152	G			MP	DU	P	S
Mon 153	G			MP	DU	P	S
Mon 154	G			MP	DU	P	S
Mon 155	G			MP	DU	P	S
Mon 156	G			MP	DU	P	S
Mon 157	G			MP	DU	P	S
Mon 158	G			MP	DU	P	S
Mon 159	G			MP	DU	P	S
Mon 160	G			MP	DU	P	S
Mon 161	G			MP	DU	P	S
Mon 162	G			MP	DU	P	S
Mon 162A	G			MP	DU	P	S
Mon 162B	G			MP	DU	P	S
Mon 163	G			MP	DU	P	S
Mon 164	G			MP	DU	P	S
Mon 165	G			MP	DU	P	S
Mon 166	G			MP	DU	P	S
Mon 167	G			MP	DU	P	S
Mon 168	G			MP	DU	P	S
Mon 169	G			MP	DU	P	S
Mon 170	G			MP	DU	P	S
Mon 171	G			MP	DU	P	S
Mon 172	G			MP	DU	P	S
141 ST Survey		TASK	4	16			
Mon 174	G			MP	DU	P	S
Mon 175	G			MP	DU	P	S
Mon 176	G			MP	DU	P	S
Mon 176A	G			MP	DU	P	S
Mon 177	G			MP	DU	P	S

141st Meridian (Continued)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
Mon 178	G			MP	DU	P	S
Mon 179	G			MP	DU	P	S
Mon 180	G			MP	DU	P	S
Mon 181	G			MP	DU	P	S
Mon 182	G			MP	DU	P	S
Mon 183	G			MP	DU	P	S
Mon 184	G			MP	DU	P	S
Mon 185	NR						
Mon 185A		NM		MP	ND	P	S
Mon 186	G			MP	DU	P	S
Mon 187	G			MP	DU	P	S
Mon 187A	G			MP	DU	P	S
Mon 189	PO				DU	P	S
Mon 190	NR				DU		
Mon 191	G			MP	DU	P	S
Mon 191A	NR						
Triangulation	Stations	Recovered	Along	141 st	Meridian	For	Control
Sheep	G					P	S
Rabbit	G					P	S
Scottie	G					P	S
Baltoff	G					P	S
N-Head	G					P	S
Flat	G					P	S
Missou	G					P	S
Summit	G					P	S
Ridge	G					P	S
Divide	G					P	
Craig	G					P	
Sawback	G					P	
Center	G					P	
Flat Top	G					P	

MONUMENT MAINTENANCE TOTALS

St. Croix River

(Maine / New Brunswick)

Reference Monuments recovered	176
Reference Monuments reported destroyed	4
Reference Monuments photographed	176

St. John and St. Francis Rivers

(Maine / Quebec)

Reference Monuments recovered	30
Turning points recovered	26
Turning points reported destroyed	1
Line Marks recovered	85
Line Marks reported destroyed	4
TP and LM painted	24
Monuments surveyed	110

Highlands

(Maine / Quebec)

Monuments recovered	218
Monuments recovered in poor condition	1
Monuments reported destroyed	1
Monuments surveyed	213

Halls Stream

(New Hampshire / Quebec)

Reference monuments recovered	13
Monuments(TP) recovered	10
Reference Monuments/Monuments destroyed	3
Reference Monuments/Monuments photographed	15
Reference Monuments/Monuments surveyed	15

West Line

(New York / Quebec)

Monuments recovered	17
Monuments repaired or re-established	7
Monuments established	1
Monuments painted	5
Monuments photographed	15
Monuments surveyed	3

St. Lawrence River and the Great Lakes

(New York / Ontario)

Monuments recovered	3
Monuments established	1
Monuments surveyed	4
Monuments photographed	4

***Northwesternmost Point of Lake of the Woods to Lake Superior
(Minnesota / Ontario)***

Reference Monuments recovered	1222
Reference Monuments painted/cleaned	1019
Reference Monuments photographed	1221
Monuments recovered	9
Monuments painted/cleaned	9
Monuments photographed	9

49th Parallel

(Washington, Idaho, Montana, North Dakota, Minnesota / British Columbia, Alberta, Saskatchewan, Manitoba)

Monuments recovered	38
Monuments painted	36
Monuments photographed	39
Monument surveyed	23
Line Marks recovered	3
Line Marks established	6
Line Marks repaired	1
Line Marks painted	9
Line Marks photographed	9
Line Marks surveyed	8
Range Marks recovered	1
Range Marks established	7
Range Marks painted	8
Range Marks photographed	9

Southeast Alaska

(Alaska / British Columbia)

Monuments recovered	47
Monuments photographed	4
Monuments surveyed	30

Arctic Ocean to Mount St. Elias (141st Meridian)

(Alaska / Yukon)

Monuments recovered	53
Monuments established	1
Monuments painted	54
Monuments photographed	54
Monuments surveyed	54
Triangulation stations recovered	14
Triangulation stations photographed	14
Triangulation stations surveyed	9

VISTA MAINTENANCE

Highlands N.E. Section (QC/ME)

Vista Cleared between Monument 314 and 405

Total distance = 77.8 mi (125.2 km)

49th Parallel

Vista Cleared between Monument 273 and Monument 275

Total distance = 3.1 mi (5.0 km)

West edge of Ross Lake to Monument 69

Total distance = 4.8 mi (7.7 km)

Southeast Alaska

(Alaska / British Columbia)

Vista Cleared between Monument 1 and Monument 15

Total distance = 12 mi. (19.3 km)



APPENDIX B - SUMMARY OF MAINTENANCE AND SURVEY WORK

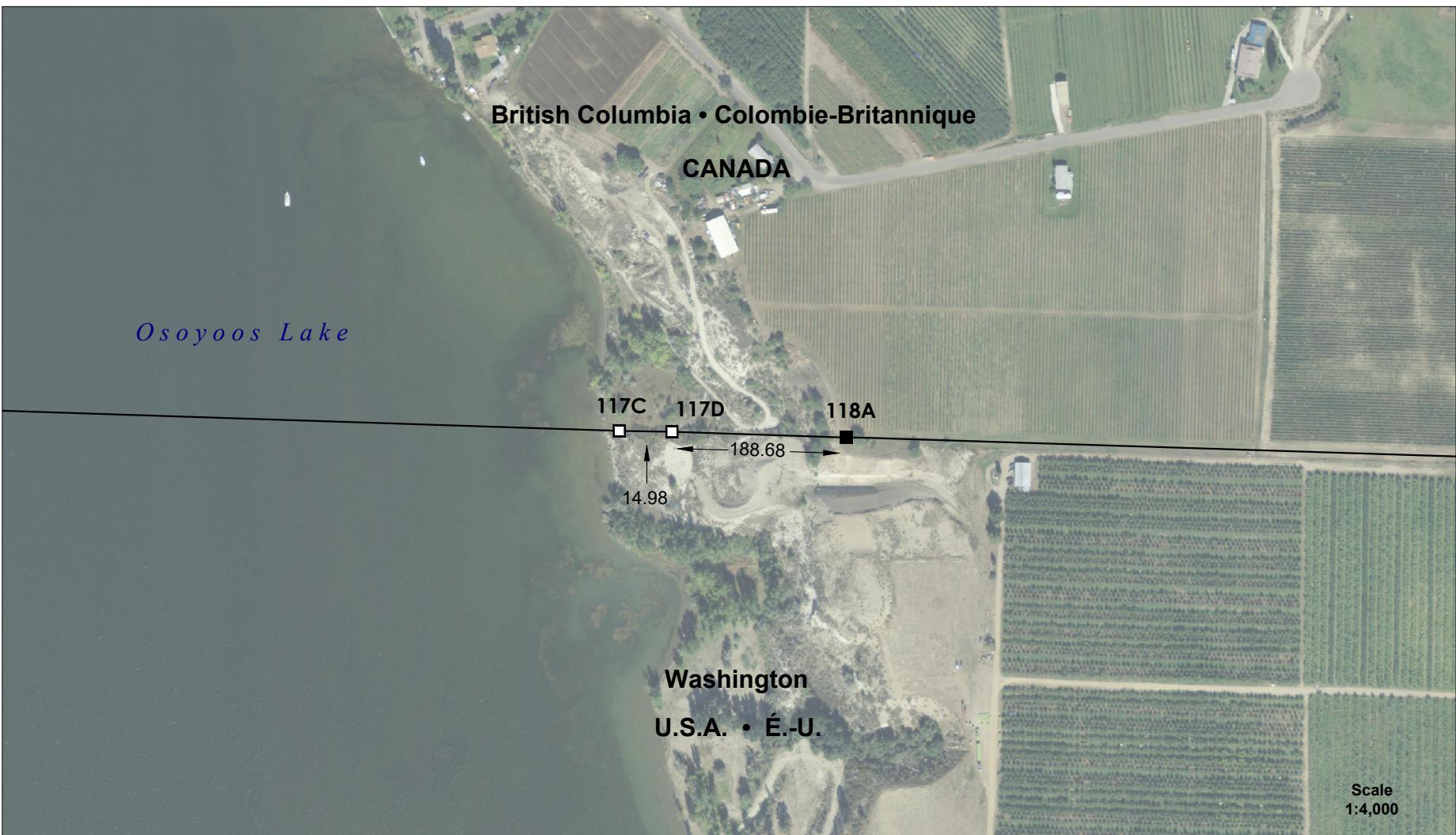
SUMMARY OF MAINTENANCE AND SURVEY WORK

Monuments recovered	1295
Monuments established	9
Monuments repaired/re-established	8
Monuments surveyed	382
Reference Monuments recovered	1441
Reference Monuments surveyed	15
Turning Points recovered	26
Range Marks recovered	1
Range Marks established	7
Triangulation Stations recovered	14
Triangulation Stations surveyed	9
Vista cleared	97.7 mi (157.2 km)



APPENDIX C – PLANS OF RANGE TOWERS ON THE SHORES OF LAKE OSOYOOS AND LAKE KOOCANUSA

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BOUNDARY MONUMENT ESTABLISHED
BORNE FRONTIÈRE POSÉE
Range Towers 117C & 117D

IBC SECTION SECTION CFI
49th Parallel 49ième parallèle
(Foothills to West) (Contreforts à la
Kootenay River) rivièrre West Kootenay)

LOCATION LOCALISATION
Osoyoos, BC - C.-B.
Oroville, WA

Scale 1:4,000
50 0 50 100 150 200 m

LEGEND LÉGENDE

- | | |
|----------------------------|----------------------------|
| Newly established monument | □ Nouvelle borne posée |
| Existing monument | ■ Borne existante |
| International Boundary | — Frontière internationale |

Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise).

Les distances apparaissant sur ce plan sont horizontales, réduites au niveau moyen du terrain et sont exprimées en mètres et décimales du mètre (sauf si indiqué autrement).

MONUMENTED & ARPENTÉE ET
SURVEYED BY BORNÉE PAR
Philip Hargrove
American Section Section américaine

DATE OF SURVEY DATE DE L'ARPENTAGE
May 2016 mai 2016



INTERNATIONAL BOUNDARY COMMISSION
COMMISSION DE LA FRONTIÈRE INTERNATIONALE

N
↗



BOUNDARY MONUMENT ESTABLISHED
BORNE FRONTIÈRE POSÉE
Range Towers 244A & 244B

IBC SECTION SECTION CFI
49th Parallel 49ième parallèle
(Foothills to West) (Contreforts à la
Kootenay River) rivièrre West Kootenay)

LOCATION LOCALISATION
Newgate, BC - C.-B.
Rexford, MT

Scale 1:4,000
50 0 50 100 150 200 m

LEGEND LÉGENDE

- | | |
|----------------------------|----------------------------|
| Newly established monument | □ Nouvelle borne posée |
| Existing monument | ■ Borne existante |
| International Boundary | — Frontière internationale |

Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise).

Les distances apparaissant sur ce plan sont horizontales, réduites au niveau moyen du terrain et sont exprimées en mètres et décimales du mètre (sauf si indiqué autrement).

MONUMENTED & ARPENTÉE ET
SURVEYED BY BORNÉE PAR
Philip Hargrove
American Section Section américaine

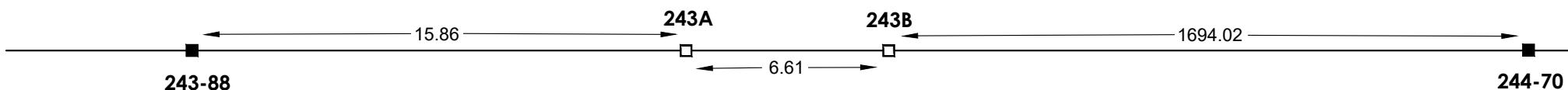
DATE OF SURVEY DATE DE L'ARPENTAGE
May 2016 mai 2016



INTERNATIONAL BOUNDARY COMMISSION
COMMISSION DE LA FRONTIÈRE INTERNATIONALE

British Columbia • Colombie-Britannique

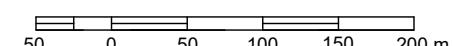
CANADA



Montana
U.S.A. • É.-U.

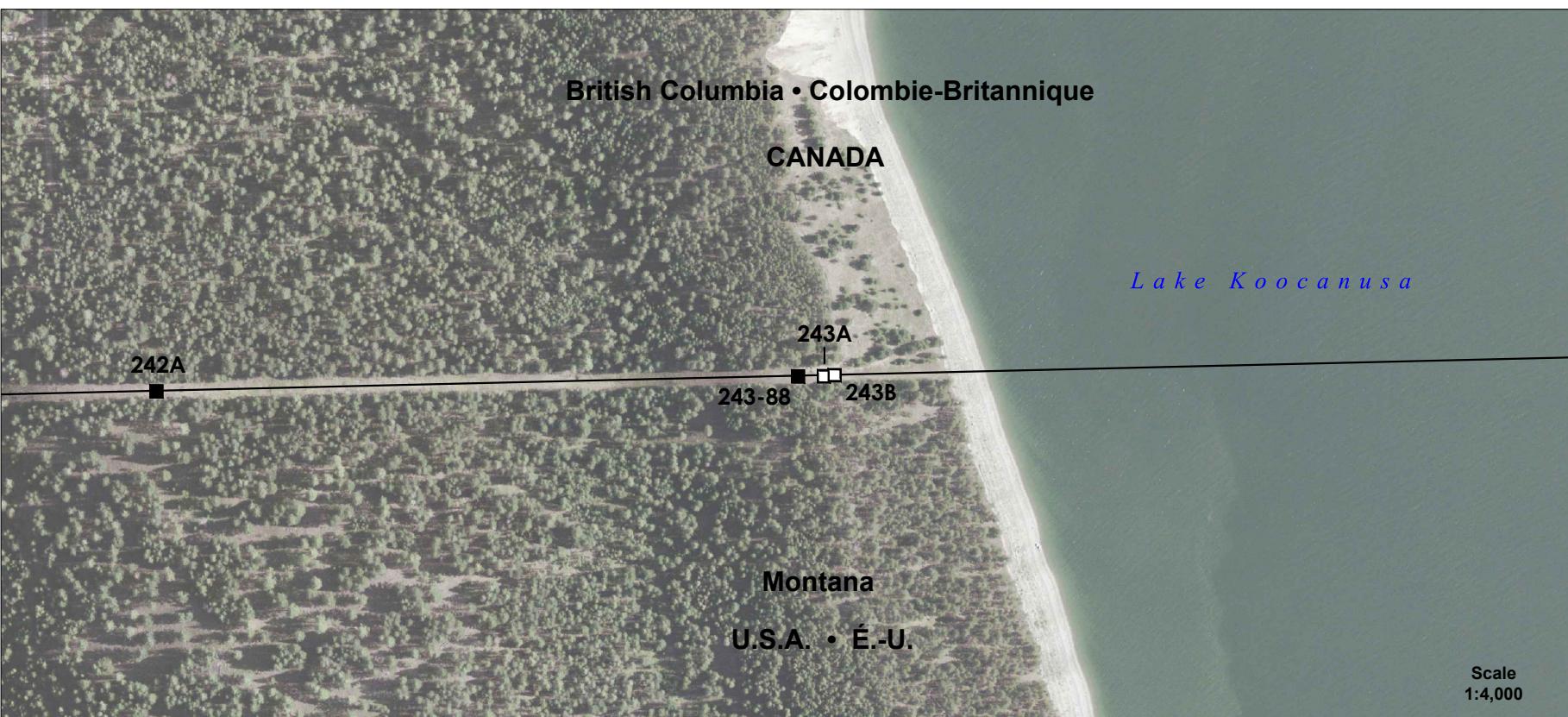
Survey Sketch
Not to Scale

Scale 1:4,000



LEGEND **LÉGENDE**

Newly established monument		<i>Nouvelle borne posée</i>
Existing monument		<i>Borne existante</i>
International Boundary		<i>Frontière internationale</i>



Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise).

Les distances apparaissant sur ce plan sont horizontales, réduites au niveau moyen du terrain et sont exprimées en mètres et décimales du mètre (sauf si indiqué autrement).

MONUMENTED & **ARPENTÉE ET**
SURVEYED BY **BORNÉE PAR**
Philip Hargrove
American Section Section américaine

DATE OF SURVEY **DATE DE L'ARPENTAGE**
May 2016 mai 2016



INTERNATIONAL BOUNDARY COMMISSION
COMMISSION DE LA FRONTIÈRE INTERNATIONALE

BOUNDARY MONUMENT ESTABLISHED

BORNE FRONTIÈRE POSÉE

Range Towers 243A & 243B

IBC SECTION **SECTION CFI**

49th Parallel
(Foothills to West Kootenay River)
*49ième parallèle
(Contreforts à la rivière West Kootenay)*

LOCATION **LOCALISATION**

Newgate, BC - C.-B.
Rexford, MT

Scale 1:4,000





APPENDIX D – 15-YEAR BOUNDARY MAINTENANCE PLAN

Long-term planning

2017-2031

Lvl	Major Task	Section	Cycle
Flag	Vista Clearing & Maintenance	Passamaquoddy Bay	3
Flag	Inspection & Maintenance	St. Croix River	8
Flag	Vista Clearing & Maintenance	North Line	6
Flag	Inspection & Maintenance	Saint John River	8
Flag	Inspection & Maintenance	St. Francis River	4
Flag	Vista Clearing & Maintenance	Southwest and South Lines	6
Flag	Inspection & Maintenance	Southwest Branch of the St. John River	8
Flag	Vista Clearing & Maintenance	Highlands N.E. Section	6
Flag	Vista Clearing & Maintenance	Highlands S.W. Section	6
Flag	Inspection & Maintenance	Halls Stream	4
Flag	Vista Clearing & Maintenance	West Line (QC/VT)	6
Flag	Vista Clearing & Maintenance	West Line (QC/NY)	6
Flag	Inspection & Maintenance	St. Lawrence River	8
Flag	Inspection & Maintenance	Lake Ontario and Niagara River	8
Flag	Inspection & Maintenance	Lake Erie, Detroit and St. Clair Rivers	8
Flag	Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior	8
Flag	Inspection & Maintenance	Lake Superior to Rainy River	8
Flag	Inspection & Maintenance	Rainy River and Lake of the Woods	8
Flag	Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)	5
Flag	Vista Clearing & Maintenance	49th Parallel (MB/ND)	5
Flag	Vista Clearing & Maintenance	49th Parallel (AB-SK-MB/MT- ND)	5
Flag	Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)	8
Flag	Vista Clearing & Maintenance	49th Parallel (Similkameen River to West Kootenay River)	8
Flag	Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)	8
Flag	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)	5
Flag	Inspection & Maintenance	Straits of Georgia and Juan De Fuca	8
Flag	Inspection & Maintenance	Portland Canal	8
Flag	Vista Clearing & Maintenance	Southeast Alaska	10
Flag	Vista Clearing & Maintenance	141st Meridian (YK/AK)	15

Long-term planning

2017-2031

2017

Task	Section	x 1000\$
Inspection & Maintenance	Passamaquoddy Bay	36
Inspection & Maintenance	Saint John River	175
Inspection & Maintenance	Highlands S.W. Section	120
Vista Clearing	Highlands S.W. Section	230
Inspection & Maintenance	West Line (QC/VT)	200
Inspection & Maintenance	Lake Superior to Rainy River	87
Inspection & Maintenance	Rainy River and Lake of the Woods	88
Inspection & Maintenance	49th Parallel (AB-SK-MB/MT- ND)	160
Survey	49th Parallel (Foothills to West Kootenay River)	20
Maintenance	49th Parallel (Pacific to Columbia Valley)	100
Vista Clearing	Southeast Alaska	300
Survey	141st Meridian (YK/AK)	250
Mapping		50
Contingency		50
TOTAL		1,866

2018

Task	Section	x 1000\$
Vista Clearing	North Line	80
Inspection & Maintenance	Saint John River	87
Inspection & Maintenance	St. Francis River	88
Vista Clearing	Southwest and South Lines	260
Inspection & Maintenance	Southwest Branch of the St. John River	175
Maintenance	Highlands N.E. Section	175
Vista Clearing	Highlands S.W. Section	230
Inspection & Maintenance	Halls Stream	50
Vista Clearing	West Line (QC/NY)	150
Inspection & Maintenance	Lake Ontario and Niagara River	50
Inspection	Meridian and 49th Parallel (MB/MN)	175
Maintenance	49th Parallel (AB-SK-MB/MT- ND)	175
Inspection & Maintenance	49th Parallel (Pacific to Columbia Valley)	43
Vista Clearing	Southeast Alaska	368
Mapping		50
Contingency		50
TOTAL		2,206

Long-term planning

2017-2031

2019

Task	Section	x 1000\$
Inspection & Maintenance	St. Croix River	87
Inspection & Maintenance	North Line	172
Maintenance	Highlands N.E. Section	185
Vista Clearing	West Line (QC/VT)	90
Inspection & Maintenance	St. Lawrence River	80
Inspection & Maintenance	Lake Erie, Detroit and St. Clair Rivers	88
Vista Clearing	Meridian and 49th Parallel (MB/MN)	140
Maintenance	49th Parallel (MB/ND)	175
Vista Clearing	49th Parallel (MB/ND)	90
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	39
Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)	370
Vista Clearing	49th Parallel (Pacific to Columbia Valley)	100
Vista Clearing	Southeast Alaska	375
Mapping		50
Contingency		50
TOTAL		2,091

2020

Task	Section	x 1000\$
Maintenance	Passamaquoddy Bay	40
Maintenance	St. Croix River	87
Maintenance	North Line	88
Vista Clearing	Highlands N.E. Section	195
Vista Clearing	West Line (QC/VT)	75
Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior	85
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	40
Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)	225
Vista Clearing	49th Parallel (Columbia Valley to Similkameen River)	300
Inspection & Maintenance	49th Parallel (Pacific to Columbia Valley)	88
Inspection & Maintenance	Straits of Georgia and Juan De Fuca	35
Vista Clearing	Southeast Alaska	400
Maintenance	Southeast Alaska	400
Capital	Truck replacement	100
Contingency		50
TOTAL		2,208

Long-term planning

2017-2031

Task	Section	x 1000\$
Maintenance	Highlands S.W. Section	210
Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)	253
Vista Clearing	49th Parallel (MB/ND)	58
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	450
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	466
Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)	150
Inspection & Maintenance	Portland Canal	117
Vista Clearing & Maintenance	Southeast Alaska	400
Contingency		50
TOTAL		2,154

Task	Section	x 1000\$
Inspection & Maintenance	St. Francis River	182
Vista Clearing	Highlands N.E. Section	250
Maintenance	Highlands S.W. Section	220
Inspection & Maintenance	Halls Stream	50
Maintenance	Meridian and 49th Parallel (MB/MN)	182
Maintenance	49th Parallel (AB-SK-MB/MT- ND)	182
Maintenance	49th Parallel (Foothills to West Kootenay River)	400
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	133
Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)	415
Contingency		50
TOTAL		2,064

Task	Section	x 1000\$
Survey	Passamaquoddy Bay	91
Maintenance	Passamaquoddy Bay	44
Survey	St. Croix River	91
Vista Clearing & Maintenance	Southwest and South Lines	280
Vista Clearing & Maintenance	Highlands S.W. Section	480
Vista Clearing	West Line (QC/NY)	165
Maintenance	Meridian and 49th Parallel (MB/MN)	183
Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)	376
Maintenance	49th Parallel (Similkameen River to West Kootenay River)	183
Contingency		50
TOTAL		1,943

Long-term planning

2017-2031

Task	Section	x 1000\$
2024	Vista Clearing	North Line
	Vista Clearing	Highlands S.W. Section
	Vista Clearing	West Line (QC/VT)
	Vista Clearing	Meridian and 49th Parallel (MB/MN)
	Maintenance	49th Parallel (MB/ND)
	Vista Clearing & Maintenance	141st Meridian (YK/AK)
	Vista Clearing & Maintenance	141st Meridian (YK/AK)
	Contingency	
	TOTAL	2,184

Task	Section	x 1000\$
2025	Vista Clearing & Maintenance	North Line
	Vista Clearing	West Line (QC/VT)
	Maintenance	St. Lawrence River
	Maintenance	Lake Superior to Rainy River
	Maintenance	Rainy River and Lake of the Woods
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)
	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing	141st Meridian (YK/AK)
	Vista Clearing	141st Meridian (YK/AK)
	Contingency	
	TOTAL	2,433

Task	Section	x 1000\$
2026	Vista Clearing & Maintenance	Passamaquoddy Bay
	Vista Clearing & Maintenance	North Line
	Maintenance	Saint John River
	Maintenance	St. Francis River
	Maintenance	Southwest Branch of the St. John River
	Inspection & Maintenance	Halls Stream
	Maintenance	Lake Ontario and Niagara River
	Vista Clearing	Meridian and 49th Parallel (MB/MN)
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	141st Meridian (YK/AK)
	Vista Clearing	141st Meridian (YK/AK)
	Contingency	
	TOTAL	2,632

Long-term planning

2017-2031

Task	Section	x 1000\$
Maintenance	St. Croix River	100
Maintenance	Lake Erie, Detroit and St. Clair Rivers	100
Vista Clearing	Meridian and 49th Parallel (MB/MN)	187
Inspection & Maintenance	49th Parallel (AB-SK-MB/MT- ND)	190
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	47
Vista Clearing & Maintenance	49th Parallel (Similkameen River to West Kootenay River)	430
Vista Clearing	141st Meridian (YK/AK)	573
Vista Clearing	141st Meridian (YK/AK)	555
Contingency		50
TOTAL		2,232

Task	Section	x 1000\$
Maintenance	St. Croix River	100
Vista Clearing & Maintenance	Southwest and South Lines	310
Vista Clearing	Highlands N.E. Section	275
Vista Clearing & Maintenance	West Line (QC/NY)	190
Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior	95
Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)	73
Vista Clearing & Maintenance	49th Parallel (MB/ND)	73
Maintenance	49th Parallel (AB-SK-MB/MT- ND)	210
Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)	667
Vista Clearing	141st Meridian (YK/AK)	600
Contingency		50
TOTAL		2,643

Task	Section	x 1000\$
Vista Clearing & Maintenance	Passamaquoddy Bay	52
Vista Clearing	Highlands S.W. Section	275
Vista Clearing	West Line (QC/VT)	125
Vista Clearing	Meridian and 49th Parallel (MB/MN)	295
Vista Clearing & Maintenance	49th Parallel (MB/ND)	189
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	49
Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)	550
Inspection & Maintenance	Portland Canal	155
Vista Clearing & Maintenance	Southeast Alaska	400
Contingency		50
TOTAL		2,140

Long-term planning 2017-2031

Task	Section	x 1000\$
2030	Vista Clearing & Maintenance	North Line
	Inspection & Maintenance	St. Francis River
	Vista Clearing	West Line (QC/VT)
	Inspection & Maintenance	Halls Stream
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing & Maintenance	Southeast Alaska
	Vista Clearing & Maintenance	Southeast Alaska
	Contingency	50
	TOTAL	1,785