

# Milltown Dam Collection, 1906-2007

## Overview of the Collection

<b>Title</b>	Milltown Dam Collection
<b>Dates</b>	1906-2007 (inclusive) 1906 2007
<b>Quantity</b>	19.75 linear feet
<b>Collection Number</b>	Mss 907
<b>Summary</b>	The Milltown Dam was a hydroelectric dam located seven miles east of Missoula, Montana, at the confluence of the Clark Fork River and Blackfoot River near Milltown and Bonner, Montana. This collection contains records from a variety of sources documenting the dam's operation and impact from 1906-2006. The dam was removed in 2008.
<b>Repository</b>	<a href="#">University of Montana, Mansfield Library, Archives and Special Collections</a> Archives and Special Collections Maureen and Mike Mansfield Library University of Montana 32 Campus Dr. #9936 59812-9936 Missoula, MT Telephone: 406-243-2053 Fax: 406-243-4067 <a href="mailto:library.archives@umontana.edu">library.archives@umontana.edu</a>
<b>Access Restrictions</b>	Researchers must use collection in accordance with the policies of Archives and Special Collections, the Maureen and Mike Mansfield Library, and The University of Montana-Missoula.
<b>Languages</b>	English

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## Historical Note

The Milltown Dam was a hydroelectric dam located seven miles east of Missoula, Montana, at the confluence of the Clark Fork and Blackfoot rivers near Milltown and Bonner, Montana. William A. Clark, a renowned copper mine investor and U.S. Senator, built the dam in 1908, to power his sawmill located in the town of Bonner, Montana before its electrical services were extended to the surrounding communities. In 1929, Montana Power Company purchased the dam from Clark and operated it until 2003, when Northwestern Energy assumed ownership of the dam as part of a collective purchase of Montana Power Company's electric and gas network.

A few months after the dam was built, a flood washed toxic mine waste from the Anaconda Copper Mining Company's work site near Butte, Montana, 126 miles downstream before it settled in the newly formed reservoir behind the Milltown Dam. The severity of the toxic waste accumulation was not realized until 1981, when the Montana Department of Health and Environmental Science conducted its bi-annual water quality study that found high concentrations of arsenic in four residential wells in Milltown, Montana. This led to approximately 120 miles of the Clark Fork River being added to the Environmental Protection Agency's (EPA) National Priorities List (NPL), commonly referred to as a

Superfund site, in September of 1983. The Milltown Dam was designated as one of three Operable Units (OU), a distinct area designated within a larger Superfund cleanup site, on the Clark Fork River. Over the next quarter of a century research and investigation into possible methods of containment, remediation, and restoration ensued as part of the most expensive Superfund cleanup operations in United States History at that time costing approximately \$100 million.

Following the Milltown Dam's 1983 listing, local, state, and federal resources were focused on the containment of harmful mining waste until 1996, when a severe ice jam on the Blackfoot River scoured the reservoir's toxic sediments leading to increased public safety concerns. As a result, the EPA decided that the complete removal of the dam was the best plan of action. In 2006, contaminated sediments were moved to a disposal site in Opportunity, Montana, and the dam was removed in 2008.

Following the dam's removal, efforts to restore the watershed at the confluence of the Blackfoot and Clark Fork rivers began, and the area was designated as the 500-acre Milltown State Park. The park offers interpretive sites, historical information, and outdoor recreation opportunities. In addition to public access, efforts were made to restore native vegetation in the Clark Fork and Blackfoot river flood plains.

## Content Description

The Milltown Dam Collection contains official and unofficial records about the dam and its operation from a variety of record creators. The collection includes reports, pamphlets, receipts, logbooks and photographs of energy output, construction, breakdowns, and maintenance work carried out on the dam. It also includes safety and licensing records required by the Federal Energy Regulatory Commission.

Records in the collection include those created by William A. Clark's affiliated companies between 1908 and 1929, the Montana Power Company, which owned and operated the dam between 1929 and 2003, and Northwestern Energy, which owned and operated the project from 2003 until its shutdown in 2006.

The collection also contains risk assessment and remedial action plan reports that were generated as part of the Superfund cleanup process. This includes reports generated by third party researchers, private businesses, and local, state, and federal government agencies. Also included in the collection is a record of public commentary surrounding the Superfund cleanup process. The removal of the dam is documented mainly in audiovisual formats. This includes photographs of the powerhouse shutdown, an audio recording conducted by Missoula County Environmental Health Supervisor Peter Nielson, and video footage created by Missoula Community Access Television. Missoula Community Access television and Montana Power Company videos concerning the dam's history, ice jams, and the cleanup process are also housed in this collection.

## Use of the Collection

### Restrictions on Use

Researchers are responsible for using in accordance with 17 U.S.C. and any other applicable statutes. Non-exclusive copyright in a portion of the collection material was transferred to the University of Montana.

### Preferred Citation

## Administrative Information

### Arrangement

This collection has been arranged into seven series, many with subseries.

Series I: Drawings and Prints, 1906-1998, 0.5 linear feet

Series II: Reports and Logbooks, 1929-2005, 9.75 linear feet

Sub-series I: Daily Reports and Logs, 1951-2002, 8.0 linear feet

Sub-series II: Monthly Reports and Logs, 1945-2005, 1.0 linear feet

Sub-series III: Hourly Logs, 1978-1986, 0.25 linear feet

Sub-series IV: Monthly Generation Reports, 1972-2002, 0.25 linear feet

Sub-series V: Generator Outage Reports, 1977-2005, 0.25 linear feet

Sub-series VI: Monthly Storage Battery Reports, 1987-2002, 0.1 linear feet

Series III: Parts Information and Maintenance Records, 1906-2005, 2.75 linear feet

Series IV: Dam Safety Records, 1972-2006, 2.0 linear feet

Series V: Environmental Protection Agency Superfund Cleanup Materials, 1970-2005, 3.75 linear feet

Series VI: Photographs, 1907-2007, 1.0 linear feet including 2 CDs

Sub-series I: Milltown Dam Photographs, 1907-2003, 0.75 linear feet

Sub-series II: Kristi Hager Photographs, Undated, 1 folder

Sub-series III: Dam and Powerhouse Shutdown, 2006, 2 CD's

Series VII: Audiovisual Materials, 1997-2006, 1 CD and 13 DVD's

Sub-series I: Audio Recordings, 2006, 1 CD

Sub-series II: Video Recordings, 1996-2006, 13 DVD's

### Custodial History

This collection contains materials from accessions 2007-019, 2007-020, 2008-015, 2010-007, 2012-030, 2012-050, and 2014-054. Contact the Archives for details.

### Acquisition Information

The materials in this collection were transferred to the Archives by Missoula County Environmental Health Supervisor, Peter Nielson, and Northwestern Energy.

## Processing Note

These accessions were donated to the University of Montana's Archives and Special Collections with the understanding and intent that they would be brought together as the Milltown Dam Collection. Original creator is indicated within each series. Duplicates were removed from the collection. Original order, when it existed, was maintained within series and sub-series.

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## Detailed Description of the Collection

### Series I: Drawings and Prints, 1906-1998

0.5 linear feet

This series contains large drawings and prints used in construction and maintenance projects. These materials were created and stored by the owners and operators of the Milltown Dam. At times related materials are grouped together in this series, but because specialized knowledge is required to accurately organize the materials in this series, the prints and drawings have been left in their original order. A drawing number key, located in box two folder one of this series, corresponds with most of the early drawings in this series up through the 1930s. Later drawings possess similar numerical identifiers, but the University of Montana Archives and Special Collections does not have the corresponding key.

Series I contains materials from accession 2010-007. The content was picked up at the Milltown Dam site by Archives staff. It has been listed largely at the item level. Materials originally housed together were divided into separate folders for preservation purposes and to increase accessibility, but otherwise have been maintained in the order in which they were received. The contents of folder 8 were individually rolled drawings and prints that were originally housed together in a single folder.

Container(s)	Description	Dates
<b>Box/Folder</b>		
2/1	Drawing Number Key for Series I: Drawings and Prints, 1906-1998	Undated
<b>Drawer-folder</b>		
VIII-9/1	Scraps from Montana Power Company Drawings	1988
VIII-9/1	Plan for Power House	1906
VIII-9/1	Power House Sections and Floor Plans	1907
VIII-9/1	Wiring Diagram	1907
VIII-9/1	Conduit Wiring	1907
VIII-9/1	Toe of Dam	1909

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/1	Power House	1908
VIII-9/2	Bearing Details for Countershaft, Penstock Gates	1912
VIII-9/2	Sluice Gate for Dam	1906
VIII-9/2	Floor Plan Showing Reinforcements	1907
VIII-9/2	Flashboard Detail	1911
VIII-9/2	Flashboard Detail	1911
VIII-9/2	Penstock Gates for Exciter Turbines	1907
VIII-9/2	Steel Plate for Corners of Fore-bay Floor	1907
VIII-9/2	Emergency Flume Spillway	1909
VIII-9/2	Proposed Construction of South Abutment	1909
VIII-9/2	Exciter at Bonner Power House	Undated
VIII-9/2	Flashboard Detail	1917
VIII-9/2	2 Inch Pine Segments for Concrete Forms Against Turbine	1907
VIII-9/2	Segments for Concrete Arches	1906
VIII-9/2	2 Inch Pine Segments for Concrete Forms Against Turbine	Undated
VIII-9/2	Thimble in Concrete Wall	1907
VIII-9/2	Upstream Wall of Power House	Undated
VIII-9/2	Control Switches and Solenoid on 11000 Volt Line	1913
VIII-9/2	24 inch Crib Showing Steps	Undated
VIII-9/2	Floor Beams and Reinforcement Bars	1907
VIII-9/2	Downstream Toe of Dam	1908

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/3	Sounding at Toe of Dam	1976
VIII-9/3	Section of Power House	Undated
VIII-9/3	Proposed Modifications of Dam and Power Plant	1907
VIII-9/4	Clipping from a Drawing of Unit #7	Undated
VIII-9/4	Conduit Wiring	1907
VIII-9/4	Plan for Power House	1908
VIII-9/4	Drawing No. 8	1906
VIII-9/4	Elbow Attached to Thimble to be Used for Draining Pond	1907
VIII-9/4	Section Through Spillway at Break Showing Proposed Method of Reconstruction	1908
VIII-9/4	Wiring Diagram of Generating Station	Undated
VIII-9/4	Comparison of Bids for Equipment of Power House	1906
VIII-9/4	Elevations Along Breakwater	1914
VIII-9/4	Stability Diagram to Accompany Plan No. 2 for Reconstruction Work	1907
VIII-9/4	Stability Diagram of Concrete Wall Forming Upstream Side of Power House	1907
VIII-9/4	Forms and Tremie	1930
VIII-9/4	East End Power House	1907
VIII-9/4	Down Stream Elevation of Power House	1908
VIII-9/4	General Plan of Power House Walls	1907
VIII-9/4	Clark's Dam	1906
VIII-9/4	Penstock Gates for Power House	1907

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/4	Stability Diagram to Accompany Plan No. 2 for Reconstruction Work	1907
VIII-9/4	Sketch of New Breakwater Wall and Toe Reinforcement	1930
VIII-9/4	Penstock Gate	1958
VIII-9/4	Gate Slides and Seals for Penstock Tubes	1906
VIII-9/4	Drawing No. 42	Undated
VIII-9/5	Downstream Elevation of Power House	1908
VIII-9/5	Proposed Reconstruction	1908
VIII-9/5	Plan and Elevation Views	1965
VIII-9/5	Soundings	1930
VIII-9/5	Soundings	1929
VIII-9/5	Sluice pipes for Draining Dam	1907
VIII-9/5	Clark's Dam	1906
VIII-9/5	Reconstruction of Downstream Toe of Dam	1909
VIII-9/5	Abutment Wall Elevation and Cross Sections	1965
VIII-9/5	Steel Details for Penstock Gate	1958
VIII-9/5	Flashboard Detail	1911
VIII-9/5	Penstock Gate for Exciter Turbines	1959
VIII-9/5	End View Water Wheels of Exciter Unit	1909
VIII-9/5	Penstock Gate for Exciter Turbines	1907
VIII-9/5	Sketch Showing Improvements to be Made	1908
VIII-9/5	Proposed Concrete and Steel Plate Fillet for Fore-bay	1907

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/5	Wing Cribs Upstream Side of Dam and on Sides of Fore-bay	1907
VIII-9/5	General Scheme of Reconstruction	1909
VIII-9/5	Abutment Wall-Clark's Dam as Constructed	1930
VIII-9/5	Construction at Toe Dam	1931
VIII-9/5	Cut-off Wall Clark's Dam North Side Fore-bay	1931
VIII-9/5	Cross Sections Abutment Wall	1931
VIII-9/6	Tail Race Walls and Reconstruction South End	1931
VIII-9/6	Sketch Showing Rock Pile to be Removed from Clark's Dam	Undated
VIII-9/6	Sounding Clark's Dam Elevations and Toe	1930
VIII-9/6	Section through Gap at South End of Dam	1909
VIII-9/6	Section Through Roof Showing Lumber and Ruberoid Required	1907
VIII-9/6	Details of Brick Work	1907
VIII-9/6	Sections of Milltown (Clark) Dam	1938
VIII-9/6	Summation Quantities	1930
VIII-9/6	Details of Grid Bars and Scheme of Holding Them Together	1906
VIII-9/6	Concrete Wall from Upstream Side of Power House	1906
VIII-9/6	Downstream Elevation of Power House Walls	1906
VIII-9/6	Section Through Power House	1908
VIII-9/6	Supplement to Conduit Drawing No.1	1907
VIII-9/6	Conduits in Power House	1912
VIII-9/6	Grid Bar Supports	1906



<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/6	West End Elevation of Power House	1906
VIII-9/6	Crest of Spillway	Undated
VIII-9/6	Field Modification to 230-D-45 Tower	1976
VIII-9/6	Detail of Stem Guide and Bracket	Undated
VIII-9/6	Unlabeled Drawing	Undated
VIII-9/6	Exit Stem for 9x14 Sluice Gate	Undated
VIII-9/6	Stability Diagram of Proposed Concrete Wall for Upstream Side of Power House	1907
VIII-9/7	Arrangement of Entrance Panels	1907
VIII-9/7	Busbar Compartment at H.T. Wiring	1907
VIII-9/7	Wooden Segments for Circular Openings Through Concrete Wall Segments	1906
VIII-9/7	Stability Diagram of Concrete Wall Upstream Side of Break in Dam	1908
VIII-9/7	Elevation of Points on Top of Breakwater to Determine Settlement and Soundings in Cribs	1909
VIII-9/7	Steel Details Penstock Gate for Exciter Turbines	1959
VIII-9/7	Gate Hoist Frame	1957
VIII-9/7	Operating Mechanism Gate 7 and 8	1912
VIII-9/7	Penstock Gates	1907
VIII-9/7	Wiring Diagram of Generating Station	1907
VIII-9/7	Downstream Elevation of Power House	1908
VIII-9/7	Design of Cribwork Toe of Dam	1909

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
VIII-9/7	Gate Hoist Instalation	1957
VIII-9/7	Gate with Steel Frame Attached for Lifting with Hydraulic Jack	1906
VIII-9/7	Detail of Form for Toe Reinforcing	1925
VIII-9/7	Roof Plan of Power House	1911
VIII-9/7	Pockets to be Cut in Concrete Wall for Steel Brace	1907
VIII-9/7	Arrangement of Transformers and Wiring	1907
VIII-9/7	Flashboard Detail	1911
VIII-9/7	Flashboard Detail	1917
VIII-9/7	Transformers and Busbar Compartments and Wiring	1907
VIII-9/7	Diagram of Switchboard Wiring in Power House	1907
VIII-9/7	Windows for Monitor of Power house	1907
VIII-9/8	Project Boundry	1989
VIII-9/8	General Plan of Dam and Plant	Undated
VIII-9/8	Toe Sounding	1975
VIII-9/8	Rehabilitation Power House	Undated
VIII-9/8	Milltown Plant Power Wiring Diagrams	1953
VIII-9/9	Spillway Repair 4 drawings	1983
VIII-10/10	Dif Metering 4 drawings	1975
VIII-10/11	One Line Diagram 3 drawings	1998
VIII-10/12	Spillway Repair	1983

Container(s)	Description	Dates
	16 drawings	
VIII-10/13	Spillway Light, Project Area, Dividing Block Fore-bay 35 drawings	Undated
VIII-10/14	Slueway Structure Intake Gates and Trash Rack 11 drawings	Undated
VIII-10/15	Exhibit L License Application 6 Drawings	Undated
VIII-10/16	Rehabilitation Prints 8 drawings	Undated
VIII-10/17	Milltown Project 9 drawings	Undated
VIII-10/18	Rehabilitation 56 drawings	1985

## Series II: Reports and Logbooks, 1929-2005

9.75 linear feet

This series contains reports, records, and logs of the Milltown Dam's operations created and stored by the owners and operators of the Milltown Dam, and it is divided into six sub-series. These materials contain information on the dams energy output, weather conditions, water levels and flows, and general operation notes.

Each sub series is arranged chronologically reflecting original order. Duplicated reports and logs were removed in processing. Series II is divided into six sub-series processed at the folder. All of the sub-series contain materials from accession 2010-007 and are arranged chronologically.

Container(s)	Description	Dates
	<b>Sub-series 1: Daily Reports and Logs</b> 8.0 linear feet This sub-series contains records of A.C. amps, D.C. amps, and Kilowatt output for the dam's five generators and two exciters as well as records of water flow, reservoir elevation, and weather recorded daily. Contents are arranged chronologically.	<b>1951-2002</b>
<b>Box</b>		
OS 1	Daily Report	July 21- August 16, 1951

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
OS 1	Daily Report	April 20-June 19, 1952
OS 1	Daily Report	March 23-June 30, 1953
OS 1	Daily Report	July 1-September 29, 1953
OS 1	Daily Report	September 30-December 31, 1953
OS 1	Daily Report	January-April, 1954
OS 1	Daily Report	May-December, 1954
2	Daily Report	January, 1983
2	Daily Report	February, 1983
2	Daily Report	March, 1983
2	Daily Report	April, 1983
2	Daily Report	May, 1983
2	Daily Report	June, 1983
2	Daily Report	July, 1983
2	Daily Report	August, 1983
2	Daily Report	September, 1983
2	Daily Report	October, 1983
2	Daily Report	November, 1983
2	Daily Report	December, 1983

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
3	Daily Report	January, 1986
3	Daily Report	February, 1986
3	Daily Report	March, 1986
3	Daily Report	April, 1986
3	Daily Report	May, 1986
3	Daily Report	June, 1986
3	Daily Report	July, 1986
3	Daily Report	August, 1986
3	Daily Report	September, 1986
3	Daily Report	October, 1986
3	Daily Report	November, 1986
3	Daily Report	December, 1986
3	Daily Report	Undated
4	Daily Report	May-August, 1987
4	Daily Report	September- December, 1987
4	Daily Report	January-April, 1988
4	Daily Report	May-August, 1988
5	Daily Report	September- December, 1988
5	Daily Report	January-April, 1989

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
5	Daily Report	May-August, 1989
5	Daily Report	September-December, 1989
6	Daily Report	January-April, 1990
6	Daily Report	May-August, 1990
6	Daily Report	September-December, 1990
6	Daily Report	January-April, 1991
7	Daily Report	May-August, 1991
7	Daily Report	September-December, 1991
7	Daily Report	January-April, 1992
7	Daily Report	May-August, 1992
8	Daily Report	September-December, 1992
8	Daily Report	January-April 1993
8	Daily Report	May-August, 1993
8	Daily Report	September-December, 1993
9	Daily Report	January-April, 1994

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
9	Daily Report	May-August, 1994
9	Daily Report	September-December, 1994
9	Daily Report	January-April, 1995
10	Daily Report	May-August, 1995
10	Daily Report	September-December, 1995
10	Daily Report	January-April, 1996
10	Daily Report	May-August, 1996
11	Daily Report	September-December, 1996
11	Daily Report	January-April, 1997
11	Daily Report	May-August, 1997
11	Daily Report	September-December, 1997
12	Daily Report	January-March, 1998
12	Daily Report	April-June, 1998
12	Daily Report	July-September, 1998
12	Daily Report	October-December, 1998

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
13	Daily Report	January-March, 1999
13	Daily Report	April-June, 1999
13	Daily Report	July-September, 1999
13	Daily Report	October-December, 1999
13	Daily Report	January-March, 2000
14	Daily Report	April-June, 2000
14	Daily Report	July-September, 2000
14	Daily Report	October-December, 2000
14	Daily Report	January-March, 2001
14	Daily Report	April-June, 2001
15	Daily Report	July-September, 2001
15	Daily Report	October-December, 2001
15	Daily Report	January-March, 2002
15	Daily Report	April-June, 2002
15	Daily Report	July-September, 2002
16	Daily Report	October-December, 2002



<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
16	Daily Report	January-April, 2003
16	Daily Report	May-August, 2003
16	Daily Report	September-December, 2003
17	Daily Report	January-April, 2004
17	Daily Report	May-August, 2004
17	Daily Report	September-December, 2004
17	Daily Report	January-April, 2005
17	Daily Report	May-August, 2005
17	Daily Report	September-December, 2005
17	Daily Report	January-April, 2006
18	Daily Report	May-August, 2006
18	Daily Report	September-December, 2006
18	Daily Report	January-April, 2007
18	Daily Report	May-August, 2007
18	Daily Report	September-December, 2007

Container(s)	Description	Dates
18	Daily Report	January-February, 2008
19	Milltown Plant Daily Log Book	July 27, 1995-October 1, 1999
19	Milltown Plant Daily Log Book	October 2, 1999-November 10, 2000
19	Milltown Plant Daily Log Book	November 11, 2000-May 14, 2002
<b>Sub-series 2: Monthly Reports and Logs</b> 1.0 linear feet This sub-series contains records of temperature, water data, meter readings, and generation data. Contents are arranged chronologically.		<b>1945-2005</b>
<b>Box</b>		
OS 20	Weather, Water, and Electrical Record Book	November 1929-May 1945
OS 20	Weather, Water, and Electrical Record Book	June 1945-June 1997
OS 21	Monthly Log	1955-1959
OS 21	Monthly Log	1960-1963
OS 21	Monthly Log	1964-1967
OS 21	Monthly Log	1968-1971
OS 21	Monthly Log	1972-1975
OS 21	Monthly Log	1976-1979
22	Monthly Log	1980
22	Monthly Log	1981

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
22	Monthly Log	1982
22	Monthly Log	1983
22	Monthly Log	1984
22	Monthly Log	1985
22	Monthly Log	1986
22	Monthly Log	1987
22	Monthly Log	1988
22	Monthly Log	1989
22	Monthly Log	1990
22	Monthly Log	1991
22	Monthly Log	1992
22	Monthly Log	1993
22	Monthly Log	1994
22	Monthly Log	1995
22	Monthly Log	1996
22	Monthly Log	1997
22	Monthly Log	1998
22	Monthly Log	1999
22	Monthly Log	2000
22	Monthly Log	2001
23	Monthly Log	2002

Container(s)	Description	Dates
23	Monthly Summary of Daily Readings	2003
23	Monthly Summary of Daily Readings	2004
23	Monthly Summary of Daily Readings	2005
	<b>Sub-series 3: Hourly Logs</b> 0.25 linear feet This sub-series consists of eight handwritten logbooks of data collected hourly. The contents are not clearly labeled. Contents are arranged chronologically.	<b>1978-1986</b>
<b>Box</b>		
23	Hourly Log Book	1978-1979
23	Hourly Log Book	1980-1981
23	Hourly Log Book	1981-1982
23	Hourly Log Book	1983
23	Hourly Log Book	1984
23	Hourly Log Book	1985
23	Hourly Log Book	1986
23	Hourly Log Book	undated
	<b>Sub-series 4: Monthly Generation Reports</b> 0.25 linear feet This sub-series contains monthly reports of water data, operation data, and total energy generated by the Milltown Dam. It also provides information about plant shutdowns and the daily average load measured in Kilowatts. Contents are arranged chronologically.	<b>1972-2002</b>
<b>Box</b>		
23	Monthly Generation Reports	1972-1979
23	Monthly Generation Reports	1980-1989

Container(s)	Description	Dates
23	Monthly Generation Reports	1990-1999
24	Monthly Generation Reports	2000-2005
24	Miscellaneous Monthly Generation Reports	1992-2002
	<b>Sub-series 5: Generator Outage Reports</b> 0.25 linear feet This sub-series contains log sheets showing the time, date, and cause of generator shutdowns. Contents are arranged chronologically.	<b>1977-2005</b>
<b>Box</b>		
24	Generator Outage Report	1970s
24	Generator Outage Report	1980s
24	Generator Outage Report	1990s
24	Generator Outage Report	2000s
24	Generator Outage Report	undated
	<b>Sub-series 6: Monthly Storage Battery Reports</b> 0.1 linear feet This sub-series contains data sheets showing storage battery volts and amps collected monthly. Contents are arranged chronologically.	<b>1987-2002</b>
<b>Box</b>		
24	Monthly Storage Battery Report	1987-1989
24	Monthly Storage Battery Report	1990-1999
24	Monthly Storage Battery Report	2000-2002

### Series III: Parts Information and Maintenance Records, 1929-1998

2.75 linear feet

This series contains drawings, prints, receipts, reports and logs related to maintenance, upkeep, and construction on the Milltown Dam. The owners and operators of the Milltown Dam generated and stored these records.

Materials are arranged alphabetically, which reflects the original order of these records. Photographs were removed and incorporated into Series VI, Sub series I: Milltown Dam Photographs. Series III contains materials from accession 2010-007 and is arranged alphabetically reflecting original order.

Container(s)	Description	Dates
<b>Box/Folder</b>		
24 / 11	Alignment Survey Data Report	1994
25 / 1	Annunciator Prints	1968
25 / 2	Ballast Wiring Shop	Undated
25 / 3	Battery Information	1987-1988 and Undated
25 / 4	Bearings	1971, 1977, 1981 and Undated
25 / 5	Bearing #1	1966-1967 and 1970-1971
25 / 6	Bearing #2	1972-1973
25 / 7	Bearings #2-5	1971-1972
25 / 8	Boat Restraints	1995 and undated
25 / 9	Brushes	1962, 1965, 1995 and 2000
25 / 10	Camp Well	Undated
25 / 11	Commutator and Slip Ring Information	Undated
25 / 12	Commutator and Slip Ring Maintenance Handbook	1949
25 / 13	Dam Reconstruction Information	1984-1985

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
25 / 14	Differential Relays	1953 and Undated
25 / 15	Diving Inspection	1983
25 / 16	Drains Information	1983 and Undated
25 / 17	Exciter Bearings	1963, 1982, 1991 and Undated
25 / 18	Exciter Bearing Transparency	Undated
26 / 1	Exciter Information	1906, 1941 and 1957
26 / 2	Exciter #1 Reconditioning	1974
26 / 3	Exhaust Fan Information	1988 and 1990
26 / 4	Federal Energy Regulatory Commission Inspections	1980, 1993 and 2003
26 / 5	Federal Energy Regulatory Commission Licensing	1968-2000
26 / 6	Federal Energy Regulatory Commission Monitoring Data	1984
26 / 7	Federal Energy Regulatory Commission Security Checklist	2002
26 / 8	Field Switch Information	Undated
26 / 9	Fisheries Mitigation Annual Report	2000
26 / 10	Fixed Wheel Prints	1986
26 / 11	Generation Power Factor	1969 and undated
26 / 12	Generator Controls and Relays	Undated
26 / 13	Generator Schematic, Alarm Panel, and Exciter Panel Layout and Wiring Diagrams	1953 and 1975

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
26 / 14	Governor Information (1 of 2)	1951, 1955, 1957, 1960 and 1962
26 / 15	Governor Information (2 of 2)	1951, 1955, 1957, 1960 and 1962
26 / 16	Governor Wiring #4	Undated
26 / 17	Gravity Wall Seepage Report	1997
26 / 18	High Water Information	1972
26 / 19	High Water Information	1974
26 / 20	High Water Information	1981
27 / 1	High Water News Reports	1975
27 / 2	High Water Stream Flow Data	1997
27 / 3	Insurance Map of Milltown	Undated
27 / 4	Leads and Field Reconductoring	Undated
27 / 5	Lights Overhead	Undated
27 / 6	Maintenance Annual Reports	1993-2002
27 / 7	Maintenance Major Rehabilitation	1980
27 / 8	Maintenance Schedules	1979-1980 and 1982
27 / 9	Miscellaneous Notes	1971
27 / 10	Monitoring Log and photographs	2000
27 / 11	Panel Hoist Inspection	1994
27 / 12	Panel Hoist Prints	Undated



<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
27 / 13	Panel Layout Prints	1975
27 / 14	Penstock Gate Prints	1957 and 1959
27 / 15	Penstock Monitoring Program and Logs	1997-2006
27 / 16	Plant Wiring Diagrams	1953 and 1975
27 / 17	Plugging Switches	Undated
27 / 18	Pond Elevation Alarm	Undated
27 / 19	Pond Level Transducer	Undated
28 / 1	Project Maps	Undated
28 / 2	Project 2188 Exhibits F and G	1992
28 / 3	Pump Information	Undated
28 / 4	Radial Gate	1989, 1998, 2003-2004 and Undated
28 / 5	Recloser	1975 and Undated
28 / 6	Recreation Reports and Information	1975 and 1987-1989
28 / 7	Regulator Instructions and Prints	Undated
28 / 8	Rehabilitation Phase II Request for Proposals	1988
28 / 9	Rehabilitation Proposal Drawings	1985
28 / 10	Relay Monitoring	Undated
29 / 1	Reservoir Drawdowns	1980
29 / 2	Reservoir Drawdowns	1981

<b>Container(s)</b>	<b>Description</b>	<b>Dates</b>
29 / 3	Reservoir Drawdowns	1984
29 / 4	Reservoir Drawdowns	1985
29 / 5	Reservoir Drawdowns	1989
29 / 6	Reservoir Drawdowns	2001
29 / 7	Reservoir Drawdowns	2002
29 / 8	Reservoir Drawdowns	2003
29 / 9	Reservoir Drawdowns	2004
29 / 10	Reservoir Drawdowns	2005
29 / 11	Reservoir Drawdown Requirements	Undated
29 / 12	Screen Rake Hoist Inspection and Information	1994-1998
29 / 13	Sign Inventory	1995-2006
29 / 14	Silt Accumulation Chart	1979
29 / 15	Solid State Voltage Regulator	1980
29 / 16	Sounding and Leakage Tests	1977 and 1983
29 / 17	Spillway and Dividing Blocks Evaluation Graphs	1973-1982
29 / 18	Spillway Bridge Prints	1996
29 / 19	Spillway Emergency Repairs	1986
29 / 20	Spillway Gate Operation Certificate	1996, 2000-2007
30 / 1	Spillway Leveling Prints	1980
30 / 2	Spillway Rehabilitation General Construction Request for Proposals	1986
30 / 3	Tailrace Efficiency Curve	Undated

Container(s)	Description	Dates
30 / 4	Thermal Gun Readings	1998
30 / 5	Toe Sounding	1981
30 / 6	Toe Sounding Charts and Memorandum	1975 and 1977
30 / 7	Training Wall Prints	1973
30 / 8	Transformers	Undated
30 / 9	Trash Boom	1971-1972
30 / 10	Turbine Alignment	1980-1981
30 / 11	Turbine Bearings	1970
30 / 12	Turbine Gate Control Schematic	1969
30 / 13	Turbines, Miscellaneous	Undated
30 / 14	Turbine Water Wheel Specifications and Proposal	1927
30 / 15	Turbines # 3 and 4	1954
30 / 16	Turbine # 5	1972
30 / 17	Water Safety Boom	1970 and 1972
30 / 18	Water Supply Outlook for Montana	1975
30 / 19	Water Wheels, Turbines, and Generator Cost Sheet	1937
30 / 20	Water Utilization Factor	1996-2002
30 / 21	12.5kv Feeder Circuit Map for Missoula, Montana	Undated

## Series IV: Dam Safety Records, 1972-2006

2.0 linear feet

This series contains reports and emergency procedure documents from the Milltown Dam related to Federal Energy Regulatory Commission (FERC) standards. This includes documents from both the

Montana Power Company and Northwestern Energy. In this series, the Milltown Dam is also referred to as the Milltown Hydroelectric Project and the FERC Project #2543.

Series IV contains materials from accessions 2012-050 and 2014-054, and is arranged chronologically. Materials housed in binders were rehoused in acid free folders during processing.

Container(s)	Description	Dates
Box/Folder		
31 / 1	Dam Safety Investigations	1972
31 / 2	Water Resource and Hazard Planning Report for the Clark Fork River Valley above Missoula	1974
31 / 3	Milltown Hydroelectric Project Engineering Evaluation	1984
31 / 4	Inspection of Project Works	1991
32 / 1	Draft Safety Analysis Report	1995
32 / 2	Community Action Plan for the Bonner Area Communities	1996
32 / 3	Inspection of Project Works	1996
32 / 4	Overtopping Evaluation	2000
32 / 5	Ice Jam Evaluation	2000
32 / 6	Alignment Survey Data Report	2000
33 / 1	Alignment Survey Data Report	2001
33 / 2	Spillway Leakage Evaluation	2001
33 / 3	Missoula County Public Opinion survey Regarding the Milltown Superfund Site	2001
33 / 4	Inspection of Project Works (1 of 3)	2001
33 / 5	Inspection of Project Works (2 of 3)	2001
33 / 6	Inspection of Project Works (3 of 3)	2001
33 / 7	Inspection of Project Works Appendix D (1 of 4)	2001

Container(s)	Description	Dates
33 / 8	Inspection of Project Works Appendix D (2 of 4)	2001
34 / 1	Inspection of Project Works Appendix D (3 of 4)	2001
34 / 2	Inspection of Project Works Appendix D (4 of 4)	2001
34 / 3	Inspection of Project Works Appendix E (1 of 2)	2001
34 / 4	Inspection of Project Works Appendix E (2 of 2)	2001
34 / 5	Drilling Contract bid documents and geophysical testing proposal	2002
34 / 6	Inspection of Right Bank Seepage Conditions	2002
34 / 7	Emergency Action Plan	2003
34 / 8	Alignment Survey Data Report	2003
34 / 9	Dam Foundation Exploration Addendum 1 to 2001 Inspection Project Works	2003
35 / 1	Addendum 2 to 2001 Inspection of Project Works	2004
35 / 2	Alignment Survey Data Report	2004
35 / 3	Alignment Survey Data Report	2005
35 / 4	Alignment Survey Data Report	2006
35 / 5	Emergency Action Plan Updated Replacement	2006
35 / 6	Emergency Action Plan	Undated

## Series V: Environmental Protection Agency Superfund Cleanup Materials, 1970-2005

3.75 linear feet

This series contains research materials and reports related to the Milltown Dam's NPL status and the Superfund cleanup process. The documents were collected by Peter Nielson, Environmental Health Supervisor for Missoula County, Montana, from 1992 to 2018.

Materials were rehoused and placed into acid free folders during processing, but were left in the order in which they were received by the Archives. However the last folder in this series, titled "Save Our

Milltown Dam Collection, 1906-2007

<http://archiveswest.orbiscascade.org/ark:/80444/xv407867>

Bridge Campaign," contains materials related to the efforts of Bonner and Milltown residents to protect a walking bridge that was scheduled for removal in 2006. This is indirectly related to the Milltown Dam Superfund cleanup process and as a result was placed by the processor at the end of the series. Series V houses materials from accession 2014-054 and is processed at the folder level.

Container(s)	Description	Dates
<b>Box/Folder</b>		
36 / 1	Cultural Resource Report	1990
36 / 2	Sediments Investigations Sampling and Analysis Plan	1989
36 / 3	Continued Releases Risk Assessment	1994
36 / 4	Exposure Survey Plan	1990
36 / 5	Application for Amendment of License Milltown Supplemental Data Supporting Design Report	1985
36 / 6	Inflatable Rubber Dam Retrofit Preliminary Engineering Report	2001
36 / 7	Milltown Dam Conceptual Channel Design Report	2001
36 / 8	Revised Final Draft Focused Feasibility Study	2001
37 / 1	Two Rivers Maps	Undated
37 / 2	Milltown Feasibility Study (1 of 3)	2001
37 / 3	Milltown Feasibility Study (2 of 3)	2001
37 / 4	Milltown Feasibility Study (3 of 3)	2001
37 / 5	Milltown Focused Feasibility Study (1 of 3)	2001
37 / 6	Milltown Focused Feasibility Study (2 of 3)	2001
37 / 7	Milltown Focused Feasibility Study (3 of 3)	2001
37 / 8	Milltown Focused Feasibility Study Comments (1 of 3)	1999-2001
38 / 1	Milltown Focused Feasibility Study Comments (2 of 3)	1999-2001
38 / 2	Milltown Focused Feasibility Study Comments (3 of 3)	1999-2001

Container(s)	Description	Dates
38 / 3	Milltown Combined Feasibility Comments (1 of 2)	2001-2002
38 / 4	Milltown Combined Feasibility Comments (2 of 2)	2001-2002
38 / 5	Milltown Dam Federal Energy Regulatory Commission License Surrender	2005
38 / 6	Milltown Memorandum of Understanding	Undated
38 / 7	Public Service Commission (1 of 2)	1998-2002
39 / 1	Public Service Commission (2 of 2)	1998-2002
39 / 2	Milltown Superfund General Background	1982-1995
39 / 3	Risk Assessment Correspondence (1 of 2)	1970-2001
39 / 4	Risk Assessment Correspondence (2 of 2)	1970-2001
39 / 5	Milltown Federal Energy Regulatory Commission Relicensing (1 of 4)	1987 and 2000-2005
39 / 6	Milltown Federal Energy Regulatory Commission Relicensing (2 of 4)	1987 and 2000-2005
40 / 1	Milltown Federal Energy Regulatory Commission Relicensing (3 of 4)	1987 and 2000-2005
40 / 2	Milltown Federal Energy Regulatory Commission Relicensing (4 of 4)	1987 and 2000-2005
40 / 3	Environmental Protection Agency, Remedial Action Master Plan Draft	1983
40 / 4	Assessment of Damages to Anglers and other Recreators from Injuries to the Upper Clark Fork River Basin	1993
40 / 5	Draft Final Screening of Alternatives Summary Report	1995
40 / 6	Draft Addendum to the Draft Final Screening of Alternatives Summary Report	1995

Container(s)	Description	Dates
40 / 7	Addendum to the Draft Final Screening of Alternatives Summary Report	1995
41 / 1	Revised Community Relations Plan	1992
41 / 2	Public Health Evaluation Work Plan, Base Line Risk Assessment	1992
41 / 3	Proposed Plan for Interim Institutional Controls	1992
41 / 4	Milltown Air Quality Monitoring Program Draft Report, Volume I	1992
41 / 5	Milltown Air Quality Monitoring Program Draft Report, Volume II	1992
41 / 6	Milltown Air Quality Monitoring Program Draft Report, Volume III	1992
41 / 7	Institutional Controls Workshop	1992
41 / 8	Public Health Evaluation Exposure Survey Results Draft	1991
41 / 9	Endangerment Assessment Work Plan	1990
41 / 10	Data Management Plan	1990
42 / 1	Sediments Investigations Sampling and Analysis Plan	1990
42 / 2	Health and Safety Plan and Site Management Plan	1990
42 / 3	Quality Assurance Project Plan	1990
42 / 4	Discussion Points Wetland Work Plan	1990
42 / 5	Draft Work Plan Continued Releases Risk Assessment	1990
42 / 6	Sampling Program at Milltown and Bonner Junction Program Overview and QA/QC	1990
43 / 1	Work Plan Scoping Document	1989
43 / 2	Technical Comments on CERCLA Documents and Remedial Investigations and Feasibility Studies	1989



Container(s)	Description	Dates
43 / 3	Revised Work Plan For Negotiation Support and Oversight	1989
43 / 4	Feasibility Study Work Plan Final Draft	1989
43 / 5	Outline of the Endangerment Assessment Work Plan Draft	1989
43 / 6	Quality Assurance Project Plan	1989
43 / 7	Human Health Evaluation Work Plan Draft	1989
43 / 8	Remedial Investigation Completion and Feasibility Study Work Plan	1989
44 / 1	Cover Letter for Data Summary Report For Milltown Interim Groundwater Monitoring	1998
44 / 2	Clark Fork River Ecological Risk Assessment	1999
44 / 3	Sampling and Analysis Plan	1988
44 / 4	Ecological Risk Assessment Clark Fork River Operable Unit, Volume II	1999
44 / 5	Save Our Bridge Campaign	2006

## Series VI: Photographs, 1907-2007

1.0 linear feet

This series is a collection of photographs taken by Milltown Dam affiliates, photographer Kristi Hager, and other unknown photographers. It contains photographs from accessions 2010-007, 2007-019, 2007-020, and 2008-015 and is divided into three sub-series.

The majority of photos are processed at the folder level. Materials in each sub-series are arranged alphabetically by folder title.

Container(s)	Description	Dates
	<p><b>Sub-series 1: Milltown Dam Photographs</b></p> <p>0.75 linear feet</p> <p>This sub-series contains images collected by the owners and operators of the Milltown Dam from 1907-2003. It includes images of the dam's construction, maintenance, function, and recreation activities.</p> <p>Contents are arranged alphabetically by folder title.</p>	<b>1907-2003</b>

Container(s)	Description	Dates
<b>Box</b>		
VIII-10	Aerial Photographs	Undated
<b>Box/Folder</b>		
45 / 1	Dam Construction	Circa 1907
46 / 1	Cement Cutting	1980
46 / 2	Crest of Dam After 17 Board Break	1973
46 / 3	Dam	1997
46 / 4	Dam	1998
46 / 5	Dam Break Pictures	1972
46 / 6	Dam Exterior and Recreation	2003
46 / 7	Dam Inspection	Undated
46 / 8	Dam Flashboard Failure due to Ice and Debris	1986
46 / 9	Dam Interior, Exterior, Reservoir and Maintenance	Undated
46 / 10	Drawdown	2002
46 / 11	Exciter #1 Overhaul	2001
46 / 12	Exciter #2	1996
46 / 13	Exciter #2 Broken Yoke	1980
46 / 14	Exciter #2 Clutch Assembly	1982
46 / 15	High Water	Undated
46 / 16	High Water	1997
46 / 17	High Water and Debris	1975

Container(s)	Description	Dates
46 / 18	Ice	Undated
46 / 19	Ice Breakup	1989
46 / 20	Ice Breakup	1996
46 / 21	Plant and Unit #4	1971
46 / 22	Plant Pictures After Interior Paining	1974
46 / 23	Sewer	1968
46 / 24	Sluice Gate, Exciter Gate, and Unlabeled Photographs	1968 and 1970
47 / 1	Spillway Repair	1981
47 / 2	Turning Down #2 Shaft After Buildup	1972
47 / 3	Unit #1 Generator Rewind	1958
47 / 4	Unit #2	1997
47 / 5	Unit #2 Downstream Turbine	Undated
47 / 6	Unit #2 Shaft Buildup at Packing Area	1980
47 / 7	Unit #2 Upstream Bearing	1972
47 / 8	Unit #3 Overhaul	1970
47 / 9	Unit #3 Overhaul	2002
47 / 10	Unit #4 Maintenance	1998
47 / 11	Unit #5 Shaft Turning and Bearing with Cap	1972
47 / 12	Unit #5 Turning Shaft Packing Area for Buildup	1981
47 / 13	Various Pictures including #1 Overhaul	1969
47 / 14	Loose Photos	Undated

Container(s)	Description	Dates
	<p><b>Sub-series 2: Kristi Hager Photographs</b>            1 folder (18 photographs and 18 negatives)            This sub-series is a collection of photographs taken by photographer Kristi Hager. It contains six color and twelve black and white photographs of the dam, powerhouse and spillway as well as the photonegatives.</p>	<b>circa 2005</b>
<b>Box/Folder</b>		
47 / 15	Dam, Power House, and Spillway	2006
	<p><b>Sub-series 3: Dam and Powerhouse Shutdown</b>            2 CD's            This sub-series contains images from the powerhouse and dam shutdown.            Contents are arranged alphabetically by folder title.</p>	<b>2006</b>
<b>Electronic_file</b>		
digital images	Milltown Project Final Plant Shutdown	2006
digital images	Milltown Dam Shutdown	2006

## Series VII: Audiovisual Materials, 1997-2006

1 CD and 13 DVDs

This series contains audiovisual records concerning the Milltown Dam's history, ice jams, and removal. It includes audio and video recordings created by Missoula Community Access Television, Peter Nielson, Northwestern Energy, and the Montana Power Company. Both digital and physical copies of these materials are available. Series VII contains materials from accessions 2007-020 and 2012-030.

This series is arranged chronologically.

Container(s)	Description	Dates
<b>Drawer</b>		
DVD cabinet	Milltown Ice Jam Moving image on DVD	1996
DVD cabinet	Milltown Dam Ice Flow/Jam Event Moving image on DVD	1996

Container(s)	Description	Dates
DVD cabinet	Milltown Reservoir: An educational Experience Moving image on DVD	1997
DVD cabinet	EPA Milltown Cleanup Plan Moving image on DVD	2003
DVD cabinet	Groundwater Pollution in Milltown Moving image on DVD	2003
DVD cabinet	Milltown Dam Shutdown Audio recorded by Peter Nielson on CD	April 7, 2006
DVD cabinet	Milltown Dam Construction and Safety Moving image on DVD	2003
DVD cabinet	Milltown Dam Power Plant Shut Down Moving image on DVD	April 7, 2006
DVD cabinet	The Confluence of Two Rivers (2 copies) Moving image on DVD	2006
DVD cabinet	Milltown Dam Power Plant Shut Down (2 copies) Moving image on DVD	2006
DVD cabinet	Montana Power Company Ice Jam Moving image on DVD	Undated

## Names and Subjects

### Subject Terms :

Dam failures--Risk assessment  
 Dam retirement--Environmental aspects  
 Environmental policy--Montana--Milltown  
 Hazardous waste site remediation--Montana--Milltown  
 Sediment transport--Clark Fork Watershed (Mont. and Idaho)

### Geographical Names :

Blackfoot River Watershed (Mont.)  
 Clark Fork Watershed (Mont. and Idaho)  
 Milltown (Mont.)--Environmental conditions  
 Milltown Dam (Mont.)  
 Missoula (Mont.)--Politics and government

### Other Creators :

#### Personal Names :

Nielson, Peter

(creator)

**Corporate Names :**

Missoula Community Access Television

(creator)

Montana Power Company

(creator)

Northwestern Energy

(creator)

United States. Environmental Protection Agency

(creator)

United States. Federal Energy Regulatory Commission

(creator)

Finding aid prepared by Patrick Swart  
2018



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