

Bibliography of Published Reports and Articles Related to Hydrological Research on the Sagavanirktok River



Prepared for
Alaska Department of Transportation and Public Facilities

Prepared by
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INE/WERC 17.15
August 2017



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Front cover photo:

Sagavanirktok River on May 27, 2016, by John Keech, UAF.

Recommended citation:

E. Youcha and H. Toniolo (2017). Bibliography of Published Reports and Articles Related to Hydrological Research on the Sagavanirktok River. University of Alaska Fairbanks, Water and Environmental Research Center, INE/WERC 17.15, Fairbanks, Alaska.

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ACKNOWLEDGMENTS

The authors would like to acknowledge the funding support of the Alaska Department of Transportation and Public Facilities, and the editing assistance of Ken Tape and Eric LaMesjerant.

DISCLAIMER

The contents of this report reflect the views of the authors, who are responsible for the accuracy of the data presented herein. This research was funded by the Alaska Department of Transportation and Public Facilities (ADOT&PF). The contents of the report do not necessarily reflect the views or policies of the ADOT&PF or any other project sponsor. This work does not constitute a standard, specification, or regulation.

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INTRODUCTION

Researchers from the Water and Environmental Research Center (WERC), University of Alaska Fairbanks (UAF), are conducting a study of sediment transport conditions along the Sagavanirktok River. This document, as part of the study, provides a compilation of published literature related to the Sagavanirktok River (or adjacent watersheds with similar characteristics) including previous or ongoing hydrological and sedimentological research in the Sagavanirktok River basin. The literature referenced includes research on climate change, hydrology, sedimentology, permafrost and soils, meteorology, field data, satellite or aerial imagery, geophysics, modeling, water quality, and geochemistry in the Sagavanirktok River basin.

METHODOLOGY

Hydrological and sediment transport research (from the 1960s to present) pertaining to the Sagavanirktok River was identified. The databases searched include Dissertation Abstracts, Wilson and ProQuest Direct, EBSCO Academic Search Premier, and the University of Alaska Fairbanks libraries. The keywords used in searching the databases are Sagavanirktok and Alaska arctic hydrology.

Publications pertaining to hydrologic research in the Sagavanirktok River basin are listed in table format (Table 1). Full citations of the publications shown in the table are provided in the appendix. The categories of publications include Bullen Point-related reports, Endicott-related reports, journal and scholarly articles, and field data/real-time data collection. The Bullen Point-related reports category includes hydrologic investigations pertaining to the Bullen Point road project, a proposed road corridor that would run east from Deadhorse across the Sagavanirktok River to Bullen Point. The Endicott-related reports category contains a series of environmental studies completed during the 1980s and 1990s associated with oil and gas infrastructure development and maintenance at Endicott, the Prudhoe Bay oil development offshore of the Alaska North Slope. The journal/scholarly articles category includes peer-reviewed journal articles, conference proceedings, dissertations, and government reports (such as U.S. Geological Survey [USGS] publications) that involve hydrologic research in or near the Sagavanirktok River basin. The field data/real-time data collection category includes a list of agencies or universities currently collecting hydrologic data in or near the Sagavanirktok River basin.

Table 1. Published Reports and Articles Related to the Sagavanirktok River Basin, Including Topics of Research

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Bullen Point-Related Reports													
Snow Survey Data for the Sagavanirktok River Bullen Point Hydrology Study: Spring 2007	2007	Berezovskaya, S., Derry, J., Kane, D., Gieck, R., Lilly, M., & White, D.				X		X					
Snow Survey Data for the Sagavanirktok River Bullen Point Hydrology Study: Spring 2008	2008	Berezovskaya, S., Derry, J., Kane, D., Lilly, M., & White, D.				X		X					
Snow Survey Data for the Central North Slope Watersheds: Spring 2009	2010	Berezovskaya, S., Derry, J., Kane, D., Gieck, R., & Lilly, M.				X		X					
Snow Survey Data for the Central North Slope Watersheds: Spring 2010	2010	Berezovskaya, S., Hilton, K., Derry, J., Youcha, E., Kane, D., Gieck, R., Homan, J., & Lilly, M.				X		X					
Snow Survey Data for the Sagavanirktok River/Bullen Point Hydrology Study: Spring 2006	2006	Kane, D., Berezovskaya, S., Irving, K., Busey, R., Chambers, M., Blackburn, A., & Lilly, M.				X		X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Meteorological and Hydrological Data and Analysis Report for Bullen Point and Foothills Projects: 2006–2008	2009	Kane, D., White, D., Lilly, M., Toniolo, H., Berezovskaya, S., Schnabel, W., Youcha, E., Derry, J., Gieck, R., Paetzold, R., Trochim, E., Remillard, M., Busey, R., & Holland, K.		X		X	X	X					
Meteorological and Hydrological Data and Analysis Report for the Foothills/Umiat Corridor and Bullen Projects: 2006–2011	2012	Kane, D., Youcha, E., Stuefer, S., Toniolo, H., Schnabel, W., Gieck, R., Myerchin-Tape, G., Homan, J., Lamb, E., & Tape, K.		X		X	X	X			X		
Sagavanirktok River Bridge Hydrological Investigation Report	2003	PND Engineers		X				X					
Bullen Point Road 2005 Spring Breakup and Hydrologic Assessment	2006	PND Engineers		X				X					
Stream Crossing Site Analysis, Bullen Point Project	2008	PND Engineers		X									
Endicott-Related Reports													
Sagavanirktok River Bridge and River Training Structures 1982 Breakup Report	1982	ARCO Oil and Gas Company		X				X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
1988 Endicott Environmental Monitoring Program, Volume IV: Ice Breakup/Freezeup	1991	Atwater, S. Science Applications International Corporation		X			X	X					
1989 Endicott Environmental Monitoring Program, Volume IV: Ice Breakup/Freezeup	1991	Atwater, S. Science Applications International Corporation		X			X	X					
Sagavanirktok River Breakup	1993	Bell and Associates		X				X					
Sagavanirktok River Breakup	1995	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	1997	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	1998	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	1999	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	2000	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	2001	Bell and Associates		X				X					
Sagavanirktok River Breakup Synopsis	2002	Bell and Associates		X				X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Sagavanirktok River Breakup Report	2003	Bell and Associates		X				X					
Sagavanirktok River Breakup Report	2004	Bell and Associates		X				X					
1988 Final Report for the Endicott Environmental Monitoring Program, Volume IV: River Discharge	1991	Bjerklie, D. Dames & Moore, Inc. & Science Applications International Corporation		X	X		X	X					
1989 Final Report for the Endicott Environmental Monitoring Program, Volume IV: River Discharge	1991	Bjerklie, D. Dames & Moore, Inc. & Science Applications International Corporation		X	X		X	X					
1990 Endicott Environmental Monitoring Program Final Report, Volume V: River Discharge	1993	Bjerklie, D. Dames & Moore, Inc. & Science Application International Corporation		X			X	X					
The 1992 Endicott Development Fish Monitoring Program, Volume III: Oceanography	1994	Bjerklie, D. Dames & Moore, Inc. & Science Application International Corporation		X				X					
1993 Endicott Development Fish Monitoring Program, Volume III: Sagavanirktok River Discharge	1994	Bjerklie, D. Dames & Moore, Inc.		X				X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Environmental Summer Studies (1982) for the Endicott Development, Volume II: Physical Properties	1983	Britch, R., Miller, R., Downing, J., Petrillo, T., & Veit, M. LGL Alaska Research Associates		X	X		X	X					
1988 Final Report for the Endicott Environmental Monitoring Program, Volume IV: Meteorology.	1991	Cover, D. Science Applications International Corporation					X	X					
1985 Final report for the Endicott Environmental Monitoring Program, Volume V: Sedimentation and Erosion Monitoring	1987	Danek, L., & Tourtellotte, G. U.S. Army Corps of Engineers, Alaska District		X	X			X					
1986 Final Report for the Endicott Environmental Monitoring Program Part III, Chapter 2, Sedimentation and Erosion Monitoring	1990	Danek, L., & Tourtellotte, G. U.S. Army Corps of Engineers, Alaska District		X	X			X					
Report of Results, Discharge Measurement Program, October to December 1979, West Channel, Sagavanirktok River	1980	Earl and Wright Consulting Engineers		X				X					
Preliminary Study of River Hydrology and River Training Measures at the Bridge on West Channel Sagavanirktok River	1980	Earl and Wright Consulting Engineers		X									

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
1985 Final Report for the Endicott Environmental Monitoring Program, Volume II: Meteorology	1987	Hummer, P. Envirosphere Company		X			X	X					
1986 Final Report for the Endicott Environmental Monitoring Program, Volume II, Part II, Chapter 1: Meteorology	1990	Hummer, P. Envirosphere Company		X			X	X					
1987 Final Report for the Endicott Environmental Monitoring Program, Volume III, Part II, Chapter I: Meteorology	1991	Hummer, P. Envirosphere Company		X			X	X					
1982 Breakup Observations, West Channel Sagavanirktok River	1982	Hydrocon Engineering		X				X					
Repair of River Training Structures As a Result of Sagavanirktok River Flood, August	1992	Hydroconsult EN3 Services Ltd.		X									
1986 Endicott Environmental Monitoring Program, Annual Report, Volume II: River Discharge, Part II, Chapter 2	1990	Johannessen, J. Envirosphere Company		X			X	X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
1987 Endicott Environmental Monitoring Program, Annual Report, Volume II: River Discharge, Part II, Chapter 2	1991	Johannessen, J. Envirosphere Company		X			X	X					
Sagavanirktok and Putuligayuk River, Prudhoe Bay Alaska	1981	McDonald, G.		X				X					
Sagavanirktok and Putuligayuk River, Prudhoe Bay, Alaska	1983	McDonald, G.		X				X					
Prudhoe Bay Unit Breakup 1984 Sagavanirktok and Putuligayuk Rivers, Prudhoe Bay, Alaska	1984	McDonald, G.		X			X						
1988 Breakup Climatologic Conditions Sagavanirktok River Basin	1988	McDonald, G.		X			X						
1989 Sagavanirktok River Breakup	1990	McDonald, G.		X			X						
1990 Breakup Annual Summary Report.	1990	McDonald, G.		X			X						
Stream Studies Program, Volume II: Stream Investigations in the West Sag Development Area, Alaska, 1984	1984	PND		X									

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
1990 Endicott Environmental Monitoring Program Final Report, Volume V: Meteorology	1993	Walter, B., & Horgan, M. Science Application International Corporation					X	X					
1985 Endicott Environmental Monitoring Program Annual Report, Volume II: River Discharge	1987	Rummel, B. Envirosphere Company		X				X					
Sagavanirktok River Breakup, 1987	1987	Santana B., & Wangstrom, P. ARCO Oil and Gas Company		X				X					
1986 Endicott Environmental Monitoring Program Annual Report, Part III, Chapter 1, Ice Breakup/Freezeup	1990	Schrader, G., & Hachmeister, L. Envirosphere Company		X				X					
1985 Final Report for the Endicott Environmental Monitoring Program, Part III, Chapter 1, Ice Breakup/Freezeup	1987	Stringer, W. Envirosphere Company		X									
Endicott Development Project Final Environmental Impact Statement, Volume II: Technical Discussion	1984	U.S. Army Corps of Engineers, Alaska District and Environmental Research and Technology, Inc.		X		X	X						
1989 Final Report for the Endicott Environmental Monitoring Program, Volume IV: Meteorology	1991	Walter, B., Horgan, M., & Cover, D. Science Applications International Corporation		X			X	X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Duck Island/Sag Delta Development Project Final Report	1982	Woodward-Clyde Consultants		X									
Journal/Scholarly Articles													
Overview of environmental and hydrogeologic conditions at Deadhorse, Alaska	1995	Alcorn, M., & Dorava, J.		X								X	
Short-pulse radar detection of groundwater in the Sagavanirktok River floodplain in early spring	1992	Arcone, S., Chacho, E., & Delaney, A.								X			
Seasonal structure of taliks beneath arctic streams determined with ground-penetrating radar	1998	Arcone, S., Chacho, E., & Delaney, A.								X			
Water discharge in the Colville River, 1962	1966	Arnborg, L., Walker, H., & Peippo, J.		X									
Suspended load in the Colville River, Alaska, 1962	1967	Arnborg, L., Walker, H., & Peippo, J.		X	X								
Sagavanirktok River sediment load 1980	1981	Barnes, P.W., & Reiss, T.		X	X								

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Association of ice and river channel morphology determined using ground penetrating radar in the Kuparuk River, Alaska	2005	Best, H., McNamara, J.P., & Liberty, L.		X	X	X				X			
The Sagavanirktok and adjacent river systems, eastern North Slope, Alaska: An analog for ancient fluvial terrain on Mars	1983	Boothroyd, J., & Timson, B.		X	X								
Sedimentary processes along Sagavanirktok River, eastern North Slope, Alaska	1984	Boothroyd, J., & Timson, B.		X	X								
Measurement of lateral erosion at proposed river crossing sites of the Alaska pipeline	1971	Brice, J.		X	X								
Use of synthetic aperture radar (SAR) to identify and characterize overwintering areas of fish in ice-covered arctic rivers	2010	Brown, R., Duguay, C., Mueller, R., Moulton, L., Doucette, P., & Tagestad, J.		X					X				
Modeling snowmelt runoff in an arctic coastal plain	1974	Carlson, R., Norton, W., & McDougall, J.		X							X		
Flood surveys along proposed TAPS route, Alaska, July 1971	1972	Childers, J.		X									

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Hydrologic reconnaissance of streams and springs in eastern Brooks Range Alaska July 1972	1973	Childers, J., Sloan, C., & Meckel, J.		X					X			X	
Channel erosion surveys along TAPS route Alaska 1974	1975	Childers, J., & Jones, S.		X	X				X				
Water resources along the TAPS route, Alaska, 1970–74	1977	Childers, J., Nauman, J., Kernodle, D., & Doyle, P.		X								X	
Hydrologic reconnaissance of the eastern North Slope, Alaska, 1975	1977	Childers, J., Sloan, C., Meckel, J., & Nauman, J.		X									
Stream flow and channel erosion investigations along the TAPS route	1978	Childers, J., Kernodle, D., & Loeffler, R.		X	X					X			
Application of near-surface geophysical techniques for geologic and hydrologic investigations in the Arctic	2002	Delaney, A., Peapples, P., & Arcone, S.		X	X	X				X			
Hydrology of North Slope coastal plain streams	1983	Drage, B., Gilman, J., Hoch, D., Griffiths, L., Pewe, T., & Brown, J.		X	X	X							
Preliminary engineering maps of the proposed trans-Alaska pipeline route, Beechey Point and Sagavanirktok quadrangles	1971	Ferrians, O.				X							

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Applications of ERS-1 SAR data for analyzing riverine and coastal processes and geomorphology	1993	Gatto, L., Calkins, D., & Chacho, E.		X	X				X	X			
Multispectral remote observations of hydrologic features on the North Slope of Alaska	1977	Hall, D., & Bryan, M.		X					X				
Distribution and character of icings in northeastern Alaska. Environmental assessment of the Alaskan Continental Shelf. Principal investigators' report for the year ending March 1976	1977	Harden, D., Barnes, P., & Reimnitz, E.		X		X						X	
Gravel mine site rehabilitation in the Alaskan Arctic: A case history	1988	Hemming, C., Byrne, B., Weber, P., & Joyce, M.		X	X							X	
The Sagavanirktok River, North Slope Alaska: Characterization of an arctic stream	1986	Hodel, K.		X	X								
Precipitation in the Alaska Central Arctic	2015	Homan, J.		X			X						
Hydrology of the Central Arctic river basins of Alaska	1973	Kane, D., & Carlson, R.		X		X	X						

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Regional groundwater flow in an area mapped as continuous permafrost, NE Alaska (USA)	2013	Kane, D., Yoshikawa, K., & McNamara, J.		X		X							X
Geochemistry of streams, soils, and permafrost and the geochemical effects of climate change in a continuous permafrost region, Arctic Alaska, United States	2006	Keller, K.				X						X	X
Initial quantification of suspended sediment loads for three Alaska North Slope rivers	2016	Lamb, E., & Toniolo, H.		X	X								
Flood characteristics of Alaskan streams	1978	Lamke, R.											
Flood-prone area maps at three sites along the trans-Alaska pipeline, Alaska	1980	Lamke, R., & Jones, S.		X					X				
Fluvial aquifers as a source of potable water: Kuparuk and Sagavanirktok River, Prudhoe Bay area, Alaska	1976	Lewellen, R.		X									
Aufeis in the Ivishak River, Alaska, mapped from satellite radar interferometry	1997	Li, S., Benson, C., Shapiro, L., & Dean, K.		X					X				

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Channel erosion surveys along the TAPS route, Alaska 1977	1977	Loeffler, R., & Childers, J.		X	X				X				
Evolution and deposits of a gravelly braid bar, Sagavanirktok River, Alaska	2004	Lunt, I., & Bridge, J.		X	X				X	X			
A quantitative, three-dimensional depositional model of gravelly braided rivers	2004	Lunt, I., Bridge, J., & Tye, R.		X	X						X		
River export of nutrients and organic matter from the North Slope of Alaska to the Beaufort Sea	2014	McClelland, J., Townsend-Small, A., Holmes, R., Pan, F., Stieglitz, M., Khosh, M., & Peterson, B.										X	X
Case study of a large summer flood on the North Slope of Alaska: Bedload transport	2008	McNamara, J., Oatley, J., Kane, D., & Hinzman, L.		X	X			X					
The impact of a shrinking cryosphere on the form of arctic alluvial channels	2009	McNamara, J., & Kane D.	X	X	X	X	X						
The flooding potential and geomorphology of five selected arctic rivers, Arctic Coastal Plain, Alaska	1982	Mortensen, T.		X					X	X			
North Slope water resources studies	1976	Nelson, G.		X									

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Composition of dissolved and suspended matter transported by the Sagavanirktok, Kuparuk and Colville rivers in the Alaskan Arctic	2002	Rember, R.		X	X							X	X
Increased concentrations of dissolved trace metals and organic carbon during snowmelt in rivers of the Alaskan Arctic	2004	Rember, R., & Trefry, J.		X	X							X	X
Chemical and physical weathering of fluvial sands in an arctic environment: Sands of the Sagavanirktok River, North Slope, Alaska	1997	Robinson, R., & Johnsson, M.		X	X					X			
Spatial variability in river sediments and its link with river channel geometry	2006	Rubin, Y., Lunt, I., & Bridge, J.		X	X								
Determining the permeability of braided river deposits from the Sagavanirktok River, Alaska: A modern analog for glacial outwash aquifers and petroleum reservoirs	2002	Salogar, L., & Salvage, K.		X	X	X							

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Implications of resource development on the North Slope of Alaska with regard to water quality on the Sagavanirktok River	1976	Schallock, E.		X								X	
Physical, chemical and biological conditions of the Sagavanirktok River and nearby control streams, Shaviovik and Canning rivers	1981	Schallock, E., & Mueller, E.										X	X
Effects of permafrost on stream channel behavior in Arctic Alaska	1978	Scott, K.		X	X	X							
A groundwater supply for an oil camp near Prudhoe Bay, Arctic Alaska	1973	Sherman, R.		X								X	
Icings along the trans-Alaska pipeline route	1975	Sloan, C., Zenone, C., & Mayo, L.		X									
Icing along the trans-Alaska pipeline route	1976	Sloan, C., Zenone, C., & Mayo, L.		X		X			X				
Antecedent conditions and damage caused by 2015 spring flooding on the Sagavanirktok River, Alaska	2017	Toniolo, H., Stutzke, J., Lai, A., Youcha, E., Tschetter, T., Vas, D., Keech, J., & Irving, K.		X	X		X	X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
Lessons learned for river crossing designs from four major floods experienced along the trans-Alaska pipeline	2002	Veldman, W., & Ferrell, J.		X									
Permafrost and ice effects on riverbank erosion	1966	Walker, H., & Arnborg, L.		X		X							
The impact of Endicott causeway on sediment transport in the Sagavanirktok River delta, North Slope Alaska	2011	Yager, G.		X	X								
Causeway impacts on sediment transport in the Sagavanirktok River delta, North Slope Alaska	2013	Yager, G., & Ravens, T.		X	X								
Spring and aufeis (icings) hydrology in the Brooks Range, Alaska	2007	Yoshikawa, K., Hinzman, L., & Kane, D.		X								X	X
Field Data/Real-Time Data Collection													
National Oceanic and Atmospheric Administration (NOAA), National Climate Data Center (NCDC) https://www.ncdc.noaa.gov/		NOAA/NCDC		X			X	X					

Publication	Date	Author(s)	Climate Change	Hydrology	Sedimentology	Permafrost and Soils	Meteorology	Field Data	Satellite/Aerial Imagery	Geophysics	Modeling	Water Quality	Geochemistry
U.S. Department of Agriculture National Resources Conservation Service (NRCS) https://www.nrcs.usda.gov/wps/portal/nrcs/main/ak/snow/		NRCS		X		X	X	X					
Permafrost Laboratory University of Alaska Fairbanks Geophysical Institute (GI) http://permafrost.gi.alaska.edu/		Romanovsky, V., Kholodov, A., Cable, W., Cohen, L., Panda, S., Muskett, R., Marchenko, S., & Nicol'sky, D. UAF/GI				X	X	X					
University of Alaska Fairbanks Toolik Field Station https://toolik.alaska.edu/edc/		UAF/Institute of Arctic Biology		X			X	X					
University of Alaska Fairbanks Water and Environmental Research Center http://ine.uaf.edu/werc		UAF/WERC		X			X	X				X	
USGS Water Data for the Nation https://waterdata.usgs.gov/nwis		USGS		X			X	X				X	

Appendix – Reference List

- Alcorn, M.G., and Dorava, J.M. (1995). Overview of Environmental and Hydrogeologic Conditions at Deadhorse, Alaska. USGS Open-File Report 95-437, 10 p.
- ARCO (1982). Sagavanirktok River Bridge and River Training Structures, 1982 Breakup Report, December 1982.
- Arcone, S.A., Chacho, E.F., and Delaney, A.J. (1992). Short-pulse Radar Detection of Groundwater in the Sagavanirktok River Floodplain in Early Spring. *Water Resources Research*, 28(11): 2925–2936.
- Arcone, S.A., Chacho, E.F., and Delaney, A.J. (1998). Seasonal Structure of Taliks Beneath Arctic Streams Determined with Ground-penetrating Radar. *Collection Nordicana*, 57: 19–24.
- Arnborg, L., Walker, H.J., and Peippo, J. (1966). Water Discharge in the Colville River, 1962. *Geografiska Annaler*, 48A: 195–210.
- Arnborg, L., Walker, H.J., and Peippo, J. (1967). Suspended Load in the Colville River, Alaska, 1962. *Geografiska Annaler*, 49A: 131–144.
- Atwater, S. (1991). 1988 Endicott Environmental Monitoring Program, Volume IV: Ice Breakup/Freezeup. Prepared by Science Applications International Corporation for U.S. Army Corps of Engineers, Alaska District.
- Atwater, S. (1991). 1989 Endicott Environmental Monitoring Program, Volume IV: Ice Breakup/Freezeup. Prepared by Science Applications International Corporation for U.S. Army Corps of Engineers, Alaska District.
- Barnes, P. and Reiss, T. (1982). Sagavanirktok River Sediment Load, 1980. Annual Reports of the Principal Investigators for the Year Ending March 1982, RU 205, Geologic Processes and Hazards of the Beaufort and Chukchi Sea Shelf and Coastal Regions. USDOC, NOAA, OCSEAP.
- Berezovskaya, S., Derry, J., Kane, D., Gieck, R., Lilly, M., and White, D. (2007). Snow Survey Data for the Sagavanirktok River Bullen Point Hydrology Study: Spring 2007. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 07.18, Fairbanks, AK, 17 pp.
- Berezovskaya, S., Derry, J., Kane, D., Lilly, M., and White, D. (2008). Snow Survey Data for the Sagavanirktok River Bullen Point Hydrology Study: Spring 2008. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 08.15, Fairbanks, AK, 30 pp.
- Berezovskaya, S., Derry, J., Kane, D., Gieck, R., and Lilly, M. (2010). Snow Survey Data for the Central North Slope Watersheds: Spring 2009. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 09.01, Fairbanks, AK, 21 pp.
- Berezovskaya, S., Hilton, K., Derry, J., Youcha, E., Kane, D., Gieck, R., Homan, J., and Lilly, M. (2010). Snow Survey Data for the Central North Slope Watersheds: Spring 2010. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 10.01, Fairbanks, AK, 50 pp.
- Bell and Associates. (1993). Sagavanirktok River Breakup.
- Bell and Associates. (1995). Sagavanirktok River Breakup.
- Bell and Associates. (1997). Sagavanirktok River Breakup Synopsis.

- Bell and Associates. (1998). Sagavanirktok River Breakup Synopsis.
- Bell and Associates. (1999). Sagavanirktok River Breakup Synopsis.
- Bell and Associates. (2000). Sagavanirktok River Breakup Synopsis.
- Bell and Associates. (2001). Sagavanirktok River Breakup Synopsis.
- Bell and Associates. (2002). Sagavanirktok River Breakup Synopsis.
- Bell and Associates. (2003). Sagavanirktok River Breakup Report.
- Bell and Associates. (2004). Sagavanirktok River Breakup Report.
- Best, H., McNamara, J.P., and Liberty, L. (2005). Association of Ice and River Channel Morphology Determined Using Ground Penetrating Radar in the Kuparuk River, Alaska. *Arctic, Antarctic, and Alpine Research*. 37 (2): 157–162.
- Bjerklie, D. (1991). 1988 Final Report for the Endicott Environmental Monitoring Program, Volume IV: River Discharge. Prepared by Dames & Moore and EnviroSphere Company for U.S. Army Corps of Engineers, Alaska District.
- Bjerklie, D. (1991). 1989 Final Report for the Endicott Environmental Monitoring Program, Volume IV: River Discharge. Prepared by Dames & Moore and EnviroSphere Company for U.S. Army Corps of Engineers, Alaska District.
- Bjerklie, D. (1993). 1990 Endicott Environmental Monitoring Program Final Report, Volume V: River Discharge. Prepared by Dames & Moore and Science Applications International Corp. for U.S. Army Corps of Engineers, Alaska District.
- Bjerklie, D. (1994). The 1992 Endicott Development Fish Monitoring Program, Volume III. Oceanography. Prepared by Science Applications International Corporation and Dames & Moore for BP Exploration and North Slope Borough.
- Bjerklie, D. (1994). 1993 Endicott Development Fish Monitoring Program. Volume III: Sagavanirktok River Discharge. Prepared by Dames & Moore for BP Exploration Alaska and North Slope Borough.
- Boothroyd, J., and Timson, B. (1983). The Sagavanirktok and Adjacent River Systems, Eastern North Slope, Alaska: An Analog for Ancient Fluvial Terrain on Mars. In *Proceedings of the 4th International Conference on Permafrost*, National Academy Press, Washington, DC, pp. 74–79.
- Boothroyd, J., and Timson, B. (1984). Sedimentary Processes along Sagavanirktok River, Eastern North Slope, Alaska. *AAPG Bulletin*, 68(4): 455.
- Brice, J. (1971). Measurement of Lateral Erosion at Proposed River Crossing Sites of the Alaska Pipeline. USGS Open-File Report, 39 p.
- Britch, R., Miller, R., Downing, J., Petrillo, T., and Veit, M. [Gallaway, B., and Britch, R., Eds.] (1983). Environmental and Ecological Studies in the Endicott Development – Summer 1982, Volume II: Physical Processes, in Environmental Summer Studies (1982) for the Endicott Development. Prepared by LGL Alaska Research Associates for Sohio Alaska Petroleum Company, Anchorage, AK.

- Brown, R., Duguay, C., Mueller, R., Moulton, L., Doucette, P., and Tagestad, J. (2010). Use of Synthetic Aperture Radar (SAR) to Identify and Characterize Overwintering Areas of Fish in Ice-covered Arctic Rivers: A Demonstration with Broad Whitefish and Their Habitats in the Sagavanirktok River, Alaska. *Transactions of the American Fisheries Society*, 139(6): 1711–1722. doi:10.1577/T09-176.1.
- Carlson, R., Norton, W., and McDougall, J. (1974). Modeling Snowmelt Runoff in an Arctic Coastal Plain. Report IWR-43, 72 pp.
- Childers, J. (1972). Flood Surveys along Proposed TAPS Route, Alaska. July 1971. Geological Survey Basic-Data Report, October 1, 1972, 16 p.
- Childers, J., Sloan, C., and Meckel, J. (1973). Hydrologic Reconnaissance of Streams and Springs in Eastern Brooks Range, Alaska. July 1972, USGS Open-File Report, 25 p.
- Childers J., and Jones, S. (1975). Channel Erosion Surveys along TAPS Route Alaska 1974. USGS Open-File Report, 145 p.
- Childers, J., Nauman, J., Kernodle, D., and Doyle, P. (1977). Water Resources along the TAPS Route, 1970–74, USGS Open-File Report, 142 p.
- Childers, J., Sloan, C., Meckel, J., and Nauman, J. (1977). Hydrologic Reconnaissance of the Eastern North Slope, Alaska, 1975. USGS Open-File Report 77-492, 65 p.
- Childers, J., Kernodle, D., and Loeffler, R. (1978). Stream Flow and Channel Erosion Investigations along the TAPS route. U.S. Geological Survey Circular, B6–B7.
- Cover, D. (1991). 1988 Endicott Environmental Monitoring Program, Volume IV: Meteorology. Prepared by Science Applications International Corporation for U.S. Army Corps of Engineers, Alaska District.
- Danek, L., and Tourtellotte, G. (1987). 1985 Final Report for the Endicott Environmental Monitoring Program, Volume V: Sedimentation and Erosion Monitoring. Prepared by Envirosphere Corporation for U. S. Army Corps of Engineers, Alaska District.
- Danek, L., and Tourtellotte, G. (1990). 1986 Final Report for the Endicott Environmental Monitoring Program, Part III, Chapter 2, Endicott Environmental Monitoring Program, 1986: Sedimentation and Erosion Monitoring. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Delaney, A., Peapples, P., and Arcone, S. (2002). Application of Near-surface Geophysical Techniques for Geologic and Hydrologic Investigations in the Arctic. *AAPG Bulletin*, 86(6), 1141.
- Drage, B., Gilman, J., Hoch, D., Griffiths, L., Pewe, T., and Brown, J. (1983). Hydrology of North Slope Coastal Plain Streams. In *Proceedings of the 4th International Conference on Permafrost*, Fairbanks, AK, July 18–22, Washington, DC, National Academy Press, pp. 249–254.
- Earl and Wright Consulting Engineers. (1980). Report of Results, Discharge Measurement Program, October to December 1979, West Channel, Sagavanirktok River. Prepared for ARCO Oil and Gas Company.
- Earl and Wright Consulting Engineers. (1980). Preliminary Study of River Hydrology and River Training Measures at the Bridge on West Channel Sagavanirktok River. Prepared for ARCO Oil and Gas Company.

- Ferrians, O. (1971). Preliminary Engineering Maps of the Proposed Trans-Alaska Pipeline Route, Beechey Point and Sagavanirktok Quadrangles. USGS Open-File Report 71-101.
- Gatto, L., Calkins, D., Chacho, E., Lawson, D., and Melloh, R. (1993). Applications of ERS-1 SAR Data for Analyzing Riverine and Coastal Processes and Geomorphology. U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH (USA).
- Hall, D., and Bryan, M. (1977). Multispectral Remote Observations of Hydrologic Features on the North Slope of Alaska. Report NASA-TM-X-71351 (X-913-77-124), May 1977, 45 pp.
- Harden, D., Barnes, P., and Reimnitz, E. (1976). Distribution and Character of Icings in Northeastern Alaska. Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports for the Year Ending March 1976, Volume XII: Geology, pp. 600–625.
- Hemming, C., Byrne, B., Weber, P., and Joyce, M. (1988). Gravel Mine Site Rehabilitation in the Alaskan Arctic: A Case History. In *Abstracts – Annual American Water Resources Association Conference*, 24, 136.
- Hodel, K. (1986). The Sagavanirktok River, North Slope Alaska: Characterization of an Arctic stream. USGS Open-File Report, 28 p.
- Homan, J. (2015). Precipitation in the Alaska Central Arctic. Ph.D. Dissertation, University of Alaska Fairbanks, 139 pp.
- Hummer, P. (1987). 1985 Final Report for the Endicott Environmental Monitoring Program, Volume II: Meteorology. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Hummer, P. (1990). 1986 Final Report for the Endicott Environmental Monitoring Program, Volume II, Part II, Chapter 1: Meteorology. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Hummer P. (1991). 1987 Final Report for the Endicott Environmental Monitoring Program, Volume III, Part II, Chapter 1: Meteorology. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Hydrocon Engineering (1982). 1982 Breakup Observations, West Channel Sagavanirktok River. Prepared for ARCO Oil and Gas Company.
- Hydroconsult EN3 Services Ltd. (1992). Repair of River Training Structures as a Result of Sagavanirktok River Flood, August. Calgary, Alta. Prepared for Alyeska Pipeline Service Company.
- Johannessen, J.W. (1990). 1986 Final Report for the Endicott Environmental Monitoring Program, Volume II, Part II, Chapter 2: River Discharge. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Johannessen, J.W. (1991). 1987 Final Report for the Endicott Environmental Monitoring Program, Volume III, Part II, Chapter 2: River Discharge. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Kane, D., and Carlson, R. (1973). Hydrology of the Central Arctic River Basins of Alaska. Report No. IWR-41, December 1973, 51 pp.

- Kane, D., Berezovskaya, S., Irving, K., Busey, R., Chambers, M., Blackburn, A., and Lilly, M. (2006). Snow Survey Data for the Sagavanirktok River/Bullen Point Hydrology Study: Spring 2006. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 06-03, Fairbanks, AK, 10 pp.
- Kane, D., White, D., Lilly, M., Toniolo, H., Berezovskaya, W., Schnabel, W., Youcha, E., Derry, J., Gieck, R., Paetzold, R., Trochim, E., Remillard, R., Busey, R., and Holland, K. (2009). Meteorological and Hydrological Data and Analysis Report for Bullen Point and Foothills Projects: 2006–2008. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 08.18, Fairbanks, AK, 180 pp.
- Kane, D., Youcha, E., Stuefer, S., Toniolo, H., Schnabel, W., Gieck, R., Myerchin-Tape, G., Homan, J., Lamb, E., and Tape, K. (2012). Meteorological and Hydrological Data and Analysis Report for the Foothills/Umiat Corridor and Bullen Projects: 2006–2011. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 12.01, Fairbanks, AK, 260 pp.
- Kane, D., Yoshikawa, K., and McNamara, J. (2013). Regional Groundwater Flow in an Area Mapped as Continuous Permafrost, NE Alaska (USA). *Hydrogeology Journal*, 21: 41–52.
- Keller, K. (2006). Geochemistry of Streams, Soils, and Permafrost and the Geochemical Effects of Climate Change in a Continuous Permafrost Region, Arctic Alaska, United States. Ph.D. Dissertation. University of Michigan, Ann Arbor, 180 pp.
- Lamb, E., and Toniolo, H. (2016). Initial Quantification of Suspended Sediment Loads for Three Alaska North Slope Rivers. *Water*, 8(10): 419.
- Lamke, R. (1978). Flood characteristics of Alaskan streams: U.S. Geological Survey Water-Resources Investigations 78-129, 61 p.
- Lamke, R., and Jones, S. (1980). Flood-prone Area Maps at Three Sites along the Trans-Alaska Pipeline, Alaska. USGS Open-File Report 80-209, 14 p.
- Lewellen, R. (1976). Fluvial Aquifers as a Source of Potable Water: Kuparuk and Sagavanirktok River, Prudhoe Bay Area, Alaska. Prepared by Arctic Research, 59 pp.
- Li, S., Benson, C., Shapiro, L., and Dean, K. (1997). Aufeis in the Ivishak River, Alaska, Mapped from Satellite Radar Interferometry. *Remote Sensing of Environment*, 60(2): 131–139.
- Loeffler, R., and Childers, J. (1977). Channel Erosion Surveys along the TAPS route, Alaska, 1977. USGS Open-File Report 78-611, 88 p.
- Lunt, I., and Bridge, J. (2004). Evolution and Deposits of a Gravelly Braid Bar, Sagavanirktok River, Alaska. *Sedimentology*, 51: 415–432.
- Lunt, I., Bridge, J., and Tye, R. (2004). A Quantitative, Three-dimensional Depositional Model of Gravelly Braided Rivers. *Sedimentology*, 51(3): 377–414. doi:10.1111/j.1365-3091.2004.00627.x.
- McClelland, J., Townsend-Small, A., Holmes, R., Pan, F., Stieglitz, M., Khosh, M., and Peterson, B. (2014). River Export of Nutrients and Organic Matter from the North Slope of Alaska to the Beaufort Sea. *Water Resources Research*, 50(2): 1823–1839.
- McDonald, G.N. (1981). Breakup, 1981 Sagavanirktok and Putuligayuk Rivers. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.

- McDonald, G.N. (1983). Breakup, 1982 Sagavanirktok and Putuligayuk Rivers. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.
- McDonald, G.N. (1984). Prudhoe Bay Unit Breakup 1984, Sagavanirktok and Putuligayuk Rivers, Prudhoe Bay, Alaska. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.
- McDonald, G.N. (1988). 1988 Breakup Climatologic Conditions, Sagavanirktok River Basin. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.
- McDonald, G.N. (1990). 1989 Sagavanirktok River Breakup. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.
- McDonald, G.N. (1990). 1990 Breakup Annual Summary Report. Prepared by G.N. McDonald and Associates for ARCO Oil and Gas Company.
- McNamara, J., Oatley, J., Kane, D., and Hinzman, L. (2008). Case Study of a Large Summer Flood on the North Slope of Alaska: Bedload Transport. *Hydrology Research*. (39)4: 299–308. doi:10.2166/nh.2008.006.
- McNamara, J., and Kane, D. (2009). The Impact of a Shrinking Cryosphere on the Form of Arctic Alluvial Channels. *Hydrological Processes*, 23(1): 159–168. doi:10.1002/hyp.7199.
- Mortensen, T. (1982). The Flooding Potential and Geomorphology of Five Selected Arctic Rivers, Arctic Coastal Plain, Alaska. Thesis University of Alaska Fairbanks, Fairbanks, AK (USA).
- National Climate Data Center (2017). Historical Land Based Station Climate Data available online at <https://www.ncdc.noaa.gov/>.
- National Resources Conservation Service Alaska (2017). Historical Snow Data available online at <https://www.nrcs.usda.gov/wps/portal/nrcs/main/ak/snow/>
- National Weather Service Alaska Pacific River Forecast Center (2017). Real-Time and Historical River Stage and Discharge Data at <http://www.weather.gov/aprfc/>.
- Nelson, G. (1976). North Slope Water Resources Studies. U.S. Geological Survey Circular, 23 p.
- Oatley, J.A. (2002). Ice, Bedload Transport, and Channel Morphology on the Upper Kuparuk River. M.S. thesis, University of Alaska Fairbanks, Fairbanks, AK, 102 pp.
- PND (1984). Stream Studies Program, Volume II: Stream Investigations in the West Sag Development Area, Alaska. Prepared for ARCO Oil and Gas Company.
- PND (2003). Sagavanirktok River Bridge Hydrological Investigation Report. Prepared for BP Exploration Alaska.
- PND Engineers (2006). Bullen Point Road 2005 Spring Breakup and Hydrologic Assessment. AKSAS Project 75960. Prepared for Alaska Department of Transportation and Public Facilities.
- PND Engineers (2008). Stream Crossing Site Analysis, Bullen Point Project. AKSAS Project 60837. Prepared for Alaska Department of Transportation and Public Facilities.
- Rember, R.D. (2002). Composition of Dissolved and Suspended Matter Transported by the Sagavanirktok, Kuparuk and Colville Rivers in the Alaskan Arctic. Ph.D. Dissertation, Florida Institute of Technology, 106 pp.

- Rember, R., and Trefry, J. (2004). Increased Concentrations of Dissolved Trace Metals and Organic Carbon During Snowmelt in Rivers of the Alaskan Arctic. *Geochimica et Cosmochimica Acta*, 68(3): 477, 13 pp.
- Robinson, R., and Johnsson, M. (1997). Chemical and Physical Weathering of Fluvial Sands in an Arctic Environment: Sands of the Sagavanirktok River, North Slope, Alaska. *Journal of Sedimentary Research Section A: Sedimentary Petrology and Processes*, 67(3): 560–570.
- Romanovsky, V., Kholodov, A., Cable, W., Cohen, L., Panda, S., Muskett, R., Marchenko, S., and Nicolsky, D. (2009). Network of Permafrost Observatories in North America and Russia. Arctic Data Center. Real-time and historical data available at: <http://permafrost.gi.alaska.edu>, University of Alaska Fairbanks. doi:10.18739/A2SH27.
- Rubin, Y., Lunt, I., and Bridge, J. (2006). Spatial Variability in River Sediments and its Link with River Channel Geometry. *Water Resources Research*, 42(6), W06D16-12. doi:10.1029/2005WR004853.
- Rummel, B. (1987). 1985 Endicott Environmental Monitoring Program Final Report, Volume II, River Discharge. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Salogar, L., and Salvage, K. (2002). Determining the Permeability of Braided River Deposits from the Sagavanirktok River, Alaska: A Modern Analog for Glacial Outwash Aquifers and Petroleum Reservoirs. *Abstracts with Programs – Geological Society of America*, 34(6), p. 24.
- Santana, B., and Wangstrom, P. (1987). Sagavanirktok River Breakup, 1987. Prepared by ARCO Oil and Gas Company.
- Schallock, E. (1976). Implications of Resource Development on the North Slope of Alaska with Regard to Water Quality on the Sagavanirktok River. In *Proceedings of EPA-sponsored Symposium on Marine, Estuarine, and Freshwater Quality, 26th Annual Meeting, American Institute of Biological Scientists, 1975*, Report #EPA-600/3-76-079, pp. 174–184.
- Schallock, E., and Mueller, E. (1981). Physical, Chemical and Biological Conditions of the Sagavanirktok River and Nearby Control Streams, Shaviovik and Canning Rivers. National Technical Information Service, Springfield, VA.
- Schrader, G., and Hachmeister, L. (1990). Ice Breakup/Freezeup, Part III, Chapter 1, in Endicott Environmental Monitoring Program Annual Report 1986. Prepared by Envirosphere Company for U.S. Army Corps of Engineers, Alaska District.
- Scott, K. (1978). Effects of Permafrost on Stream Channel Behavior in Arctic Alaska. USGS Professional Paper 1068, 19 p.
- Sherman, R. (1973). A Groundwater Supply for an Oil Camp Near Prudhoe Bay, Arctic Alaska. In *Proceedings, 2nd International Conference on Permafrost, Yakutsk, USSR, Natl. Acad. Sci.*, pp. 469–472.
- Sloan, C., Zenone, C., and Mayo, L. (1975). Icings along the Trans-Alaska Pipeline Route. USGS Open-File Report 75-87, 39 p.
- Sloan, C., Zenone, C., and Mayo, L. (1976). Icings along the Trans-Alaska Pipeline Route. USGS Professional Paper 979, 31 p.

Stringer, W. (1987). 1985 Final Report for the Endicott Environmental Monitoring Program, Part III, Chapter 1, Ice Breakup/Freezeup. Prepared by Envirosphere Company for U.S. Army Corp of Engineers, Alaska District.

Toniolo, H., Stutzke, J., Lai, A., Youcha, E., Tschetter, T., Vas, D., Keech, J., and Irving, K. (2017). Antecedent conditions and damage caused by 2015 spring flooding on the Sagavanirktok River, Alaska. *Journal of Cold Regions Engineering*, 31(2).

University of Alaska Fairbanks Water and Environmental Research Center (2017). Real-Time and Historical Hydrological Data available online at <http://ine.uaf.edu/werc/research/>.

University of Alaska Fairbanks Geophysical Institute Permafrost Laboratory (2017). Real-Time and Historical Soil and Permafrost Data available online at <http://permafrost.gi.alaska.edu/>.

U.S. Army Corps of Engineers and Environmental Research and Technology (1984). Endicott Development Project Final Environmental Impact Statement, Volume II: Technical Discussion.

USGS (2017). Real-Time and Historical Water Data for the Nation available online at <https://waterdata.usgs.gov/nwis>.

Veldman, W., and Ferrell, J. (2002). Lessons Learned for River Crossing Designs from Four Major Floods Experienced Along the Trans-Alaska Pipeline. *Cold Regions Engineering*, pp. 13–38. doi:10.1061/40621(254)2.

Walker, H., and Arnborg, L. (1966). Permafrost and Ice Wedge Effects on Riverbank Erosion. Technical Report No. 34. Louisiana State University, Coastal Studies Institute, Baton Rouge, LA.

Walter, B., Horgan, M., and Cover, D. (1991). 1989 Endicott Environmental Monitoring Program, Volume IV: Meteorology. Prepared by Science Applications International Corporation for U.S. Army Corps of Engineers, Alaska District.

Walter, B., and Horgan, M. (1993). 1990 Endicott Environmental Monitoring Program Final Report, Volume V: Meteorology. Prepared by Science Applications International Corp. for U.S. Army Corps of Engineers, Alaska District.

Woodward-Clyde Consultants (1982). Duck Island/Sag Delta Development Project Final Report. Prepared for Exxon Company.

Yager, G. (2011). The Impact of Endicott Causeway on Sediment Transport in the Sagavanirktok River Delta, North Slope Alaska. M.S. Thesis. University of Alaska Anchorage, School of Engineering, 346 pp.

Yager, G., and Ravens, T. (2013). Causeway Impacts on Sediment Transport in the Sagavanirktok River Delta, North Slope Alaska. In *Proceedings of 10th International Symposium on Cold Regions Development (ISCORD)*, June 2–5, 2013, Anchorage, AK, pp. 504–515. doi:10.1061/9780784412978.049.

Yoshikawa, K., Hinzman, L.D., and Kane, D.L. (2007). Spring and Aufeis (icings) Hydrology in the Brooks Range, Alaska. *Journal of Geophysical Research*, 112, 14 pp., G04S43. doi:10.1029/2006JG000294.