

5.0 CONSULTATION AND COORDINATION

Interdisciplinary Team and/or Resource Specialists:

Beth Maclean, Field Manager, BLM Glennallen Field Office, AK
 Elijah Waters, Resources and Lands Branch Chief, BLM Glennallen Field Office, AK
 Heath Emmons, Outdoor Recreation Planner/Project Lead, BLM Glennallen Field Office, AK
 Marcia Butorac, Outdoor Recreation Planner, BLM Glennallen Field Office, AK
 Denton Hamby, Outdoor Recreation Planner, BLM Glennallen Field Office, AK
 Cory Larson, Outdoor Recreation Planner, BLM Glennallen Field Office, AK
 Mike Sondergaard, Natural Resource Specialist, BLM Glennallen Field Office, AK
 Tim Sundluv, Fisheries Biologist, BLM Glennallen Field Office, AK
 Merben Cebrian, Wildlife Biologist, BLM Glennallen Field Office, AK
 Ben Seifert, Natural Resource Specialist, BLM Glennallen Field Office, AK
 John Jangala, Cultural Resources, BLM Glennallen Field Office, AK
 Lauri Jones, Geographical Information Specialist, BLM Glennallen Field Office, AK
 Marnie Graham, Public Affairs Specialist, BLM Glennallen Field Office, AK

Native American Tribes consulted:

Gulkana Village Traditional Council
 Healy Lake Band Traditional Council
 Chickaloon Village Traditional Council
 The Native Village of Gakona
 The Native Village of Tazlina
 The Cheesh'na Tribe

Others consulted:

Gary Reimer, District Manager, BLM Anchorage District Office, AK
 Bill Overbaugh, Recreation Program Lead, BLM Alaska State Office
 Jolie Pollet, Planning and Environmental Coordinator, BLM Alaska State Office
 Melanie Hunter, Planning and Environmental Coordinator, BLM Anchorage District Office
 Dan Sharp, Subsistence Coordinator, BLM Alaska State Office
 Randy Goodwin, Travel Management Coordinator, BLM Alaska State Office
 Gene Ervine, National Landscape Conservation System Coordinator, BLM Alaska State Office
 Caron McKee, Technical Writer/Editor, BLM Alaska State Office
 Sally Gibert, Intergovernmental Coordination, State of Alaska DNR, Anchorage, AK
 Susan Magee, ANILCA Coordinator, State of Alaska DNR, Anchorage, AK
 Brandon Ducsay, Planner, State of Alaska DNR, Anchorage, AK
 Andrew Levi, ANILCA Program, State of Alaska ADFG, Anchorage, AK
 Doug Whittaker, Confluence Research and Consulting, Anchorage, AK
 Bruce Rogers, Environmental Planner, National Park Service, Copper Center, AK

6.0 BIBLIOGRAPHY

- Arctic Climate Impact Assessment. Impacts of a Warming Arctic, Arctic Climate Impact Assessment. Cambridge University Press. 2004. <http://www.acia.uaf.edu>
- Alaska Department of Transportation, Let's Get Moving 2030: Alaska's Statewide Long Range Transportation Policy Plan, February, 2008.
- Alaska National Lands Interest Conservation Act. U.S. Public Law 96-487. December 2, 1980.
- Alaska Native Claims Settlement Act. U.S. Public Law 92-203. December 18, 1971.
- Asplund, Timothy R., 2000, The Effects of Motorized Watercraft on Aquatic Ecosystems, Wisconsin Department of Natural Resources, Bureau of Integrated Science Services, PUBL-SS-948-00, 21 pp.
- Betz, Carter J., Cordell, H., Green, Gary., Owens, Matt. 2005. Off-Highway Vehicle Recreation in the United States, Regions and States: A National Report from the National Survey on Recreation and the Environment (NSRE). 86pp.
- Billings, W.D., J.O. Luken, D.A. Mortensen, and K.M. Peterson. 1982. Arctic tundra: a source or sink for atmospheric carbon dioxide in a changing environment? *Oecologia*, 53: 7-11.
- Brooks, David J. and Haynes, Richard W. 2001. Recreation and Tourism in South-Central Alaska: Synthesis of Recent Trends and Prospects. 19pp.
- Bryant, J.P., T.P. Clausen, R.K. Swihart, S.M. Landhäuser, M.T. Stevens, C.D.B. Hawkins, S. Carrière, A.P. Kirilenko, A.M. Veitch, R.A. Popko, D.T. Cleland, J.H. Williams, W.J. Jakubas, M.R. Carlson, K.L. Bodony, M.R. Cebrian, T.F. Paragi, P.M. Picone, J.E. Moore, E.C. Packee, and T. Malone. 2009. Fire drives transcontinental variation in tree birch defense against browsing by snowshoe hares. *The American Naturalist*, 174: 13-23.
- Buhl, K.J. and S.J. Hamilton. 1990. Comparative toxicity of inorganic contaminants released by placer mining to early life stages of salmonids. *Ecotoxicology and Environmental Safety* 20:325-342.
- Carson, R., Hanemann, W.M. and Wegge, T.C. 2009. A nested logit model of recreational fishing demand in Alaska. *Marine Resource Economics*, vol. 24, no. 2, pp. 101-129.
- Cebrian, M.R., K. Kielland, and G. Finstad. 2008. Forage quality and reindeer productivity: multiplier effects amplified by climate change. *Arctic, Antarctic, and Alpine Research*, 40: 48-54.
- Chuck Nozicka Consulting, Tourism and Recreation Planning. Lake Tahoe Non-Motorized Boating Survey 2008. 32pp.
- Churchill, E.A. Jr. 1990. Stream Glaciation. Paper presented at 2nd Annual Fish Habitat Improvement Workshop of the American Fisheries Society, July 10-12, Anchorage, AK. Available from the U.S. Army Corps of Engineers, Anchorage, AK.
- Cooper, A.C. 1965. The effect of transported stream sediments on the survival of sockeye and pink salmon eggs and alevin. *International Pacific Salmon Fisheries Commission Bulletin* 18.
- Copper River Knowledge System. Ecotrust. 2001.
- Cordone, A.J. and D.W. Kelley. 1961. The influence of inorganic sediments on the aquatic life of streams. *California Dept. of Fish and Game*, 47(2):189-228.
- Federal Register. Notice of Intent To Prepare an Amendment to the East Alaska Resource Management Plan (EARMP) for the Delta River Special Recreation Management Area (SRMA). Vol. 73, No. 70, Page 19527, April 10, 2008.
- Gryska, A. D. 2009. Stock assessment Arctic grayling in the Delta River, 2008. Alaska Department of Fish and Game, Fishery Data Series No. 09-XX, Anchorage.
- Hinzman, L.R., N.D. Bettez, W.R. Bolton, F.S. Chapin III, M.B. Dyrgerov, C.E. Fastie, B. Griffith, R.D. Hollister, A. Hope, H.P. Huntington, A.M. Jensen, G.J. Jia, T. Jorgenson, D.L. Kane, D.R. Klein, G. Kofinas, A.H. Lynch, A.H. Lloyd, A.D. McGuire, F.E. Nelson, W.C. Oechel, T.E. Osterkamp, C.H. Racine, V.E. Romanovsky, R.S. Stone, D.A.

- Stow, M. Sturm, C.E. Tweedie, G.L. Vourlitis, M.D. Walker, D.A. Walker, P.J. Webber, J.M. Welker, K.S. Winker, and K. Yoshikawa. 2005. Evidence and implications of recent climate change in northern Alaska and other arctic regions. *Climatic Change*, 72: 251-298.
- Hobbie, J.E., G. Shaver, J. Laundre, K. Slavik, L. Deegan, J. O'Brien, S. Oberbauer, and S. MacIntyre. 2003. Climate forcing at the arctic LTER site, in *Climate Variability and Ecosystem Response to Long-term Ecological Research (LTER) Sites*, edited by D. Greenland. Oxford University Press, New York, pp. 74-91.
- Intergovernmental Panel on Climate Change (IPCC). 2007. *Climate Change 2007: The Physical Science Basis. Synthesis Report (Summary for Policymakers)*. Cambridge (MA) Cambridge University Press.
- Jukaine, H.V. and R. Laiho. 1995. Long-term effects of water level drawdown on the vegetation of drained pine mires in southern Finland. *Journal of Applied Ecology*, 32: 785-802.
- Keyser, A.R., J.S. Kimball, R.R. Nemani, and S.W. Running. 2000. Simulating the effects of climate change on the carbon balance of North American high-latitude forests. *Global Change Biology*, 6: 185-195.
- Klein, C., E.E. Berg, and R. Dial. 2005. Wetland drying and succession across the Kenai Peninsula lowlands, south-central Alaska. *Canadian Journal of Forest Research*, 35: 1931-1941.
- Lloyd, D.S., J.P. Koenings, and J.D. LaPerriere. 1987. Effects of turbidity in fresh waters of Alaska. *North American Journal of Fisheries Management* 7:18-33.
- Oasis Environmental, Inc. 2004. *Kenai River Hydrocarbon Assessment Final Report*. Prepared for Alaska Department of Environmental Conservation, Non-Point Source Water Pollution Control Program. 32 pp.
- Outdoor Industry Foundation. 2005. *Active Outdoor Recreation Participation Study*.
- MacKenzie-Grieve, J.L. and J.R. Post. Projected impacts of climate warming on production of lake trout in southern Yukon lakes. *Canadian Journal of Fisheries and Aquatic Sciences*, 63: 788-797.
- Magnuson, J., et al. 2000. Historical trends in lake and river ice cover in the northern hemisphere. *Science*, 289: 1743-1746.
- McDonald, M.E., A.E. Hershey, and M.C. Miller. 1996. Global warming impacts on lake trout in Arctic lakes. *Limnology and Oceanography*, 41: 1102-1108.
- McKane, R.B., E.B. Rastetter, G.R. Shaver, K.J. Nadelhoffer, A.E. Giblin, J.A. Laundre, and F.S. Chapin III. 1997. Climatic effects on tundra carbon storage inferred from experimental data and a model. *Ecology*, 78: 1188-1198.
- Michel, B. 1971. *Winter Regime of Rivers and Lakes*. Monograph III-B1a. Hanover, NH: U.S. Army Corps of Engineers, Cold Regions Science and Engineering Laboratory.
- Neimi and Fifield. 2000. *World Travel and Tourism Council website*.
- Newpoint Group Management Consultants. 2009. *Non-Motorized Boating in California*.
- North Carolina State University. 1998. *Successful Mitigation*. Internet website at <http://h20sparc.wq.ncsu.edu/info/wetlands/> Raleigh, NC: North Carolina State University Cooperative Extension Service, Department of Biological and Agricultural Engineering.
- Orth, D.J. and R.J. White. 1993. *Stream Habitat Management In Inland Fisheries Management in North America*, edited by C.C. Kohler and W.A. Hubert, pp.205-230. Bethesda, MD: American Fisheries Society.
- Population finder. <http://factfinder.census.gov>. Accessed 29Sep2010.
- Riordan, B., D. Verbyla, and A.D. McGuire. 2006. Shrinking ponds in subarctic Alaska based on 1950-2002 remotely sensed images. *Journal of Geophysical Research*, 111, G04002, doi: 10.1029/2005JG000150.
- Silapaswan, C.S., D. Verbyla, and A.D. McGuire. 2001. Land cover change on the Seward Peninsula: the use of remote sensing to evaluate the potential influences of climate warming on historical vegetation dynamics. *Canadian Journal of Remote Sensing*, 27: 542-554.
- Slaughter, C.W. 1990. *Aufeis Formation and Prevention*. Cold Regions Hydrology and Hydraulics. Technical Council on Cold Regions Engineering Monograph. Fairbanks, AK: U.S. Department of Agriculture, Forest Service.

- U.S. Department of Agriculture, US Forest Service. 2000, 2004. National Survey on Recreation and the Environment.
- U.S. Department of the Interior, Bureau of Land Management. 1988. Birch Creek placer mining Final Cumulative Environmental Impact Statement. Doc. No. BLM-AK-ES-89-022-3809-918.
- U.S. Department of the Interior, Lewiston, MT Bureau of Land Management and Montana Dept. of Environmental Quality. 1996. Final environmental impact statement, Zortman and Landusky Mines; Reclamation Plan Modifications and Mine Life Extensions. Document No. BLM/MT/PL-96/005+1990.
- U.S. Department of the Interior, Bureau of Land Management. Delta National Wild and Scenic River Management Plan. BLM, Glennallen Field Office, Alaska. October 7, 1983.
- U.S. Department of the Interior, Bureau of Land Management. Delta National Wild and Scenic River Wilderness Inventory. BLM, Glennallen Field Office, Alaska. March 2, 2011.
- U.S. Department of the Interior, Bureau of Land Management. Draft Public Scoping Report, Eastern Interior Management Plans. BLM, Fairbanks District Office, Alaska. September, 2008.
- U.S. Department of the Interior, Bureau of Land Management. . East Alaska Resource Management Plan, Record of Decision, Approved Plan. BLM, Glennallen Field Office, Alaska. September 7, 2007.
- U.S. Department of the Interior, Bureau of Land Management. East Alaska Proposed Resource Management Plan and Final Environmental Impact Statement. BLM, Glennallen Field Office, Alaska. June 2006.
- U.S. Department of the Interior, Bureau of Land Management. Gulkana National Wild River Management Plan. BLM, Glennallen Field Office, Alaska. July 21, 2006.
- U.S. Department of the Interior, Bureau of Land Management. Land Use Planning Handbook. Handbook H-1601-1.
- U.S. Department of the Interior, Bureau of Land Management. Rogue National Wild and Scenic River: Hellgate Recreation Area Proposed Recreation Area Management Plan and Final Environmental Impact Statement. BLM, Medford District Office, Oregon. March 2003.
- U.S. Department of the Interior, Bureau of Land Management. Soil Survey of the Delta River Area, Alaska, BLM-Alaska Technical Report 55, Anchorage, Alaska. 2001.
- U.S. Department of the Interior, Bureau of Land Management and Joint Pipeline Office. Trans-Alaska Pipeline Right-of-Way Renewal Environmental Impact Statement. 2002.
- U.S. Department of the Interior, National Park Service. Merced Wild and Scenic River: Revised Comprehensive Management Plan. NPS, Yosemite National Park, California. June 2005.
- U.S. Department of the Interior, National Park Service Scoping Report, Nabesna ORV Trail Environmental Impact Statement. NPS, Wrangell St. Elias National Park and Preserve, Alaska. July 2008.
- U.S. Department of the Interior, National Park Service. Tuolumne Wild and Scenic River, Outstandingly Remarkable Values, Draft Report. NPS, Yosemite National Park, California. July 2006.
- U.S. Environmental Protection Agency. 1997. EPA's National Hardrock Mining Framework. Report 833-13-97-003. Washington, D.C.
- Van Bogaert, R., D. Walker, G.J. Jia, O. Grau, M. Hallinger, M. De Dapper, C. Jonasson, and T.V. Callaghan, 2006 Recent Changes in Vegetation: [Arctic Report Card, 2009], <http://www.arctic.noaa.gov/reportcard>.
- Van Nieuwenhuysse, E. E., 1983: The effects of placer mining on the primary productivity of interior Alaska streams. M.S. thesis, University of Alaska, Fairbanks. 120 pp.
- Viereck, L.A., C.T. Dyrness, A.R. Batten, and K.J. Wenzlick. 1992. The Alaska vegetation classification. Gen. Tech. Rep. PNW-GTR-286. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 278 p.
- Watson, R.T., M.C. Ziinyowera, R.H. Moss, and D.J. Dokken. 1996. Climate change 1996: impacts, adaptations, and mitigation of climate change: scientific-technical analyses. Cambridge University Press. p 878.

Weber, P. and R. Post. 1985. Aquatic habitat assessments in mined and unmined portions of the Birch Creek Watershed. Technical Report No. 85-2. Alaska Department of Fish and Game, Division of Habitat, Juneau, AK. 65p.

Wesche, T.A. 1993. Watershed Management and Land-use Practices In Inland Fisheries Management in North America, edited by C.C. Kohler and W.A. Hubert, pp. 181-203.

Wild and Scenic Rivers Act. Public Law 90-542.

Williams, B. K., R. C. Szaro, and C. D. Shapiro. 2007. Adaptive Management: The U.S. Department of the Interior Technical Guide. Adaptive Management Working Group, U.S. Department of the Interior, Washington, DC.

Whittaker, Doug and Bo Shelby. Delta National Wild and Scenic River 2005 Recreation User Survey, June 2006.

40 CFR 1500 et seq. Council on Environmental Quality, Regulations for Implementing NEPA.

43 CFR 1610. BLM Planning Regulations.

42 U.S.C. 4321 et seq. National Environmental Policy Act.

43 U.S.C. 1701 et seq. The Federal Land Policy and Management Act of 1976.

7.0 ACRONYMS

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ANILCA	Alaska National Interest Lands Conservation Act
BBM	Benefits Based Management
BLM	Bureau of Land Management
CEQ	Council on Environmental Quality
CIA	Cumulative Impact Area
CFR	Code of Federal Regulations
DWSR	Delta Wild and Scenic River
EA	Environmental Assessment
EARMP	East Alaska Resource Management Plan
FAA	Federal Aviation Administration
FLPMA	Federal Land Policy and Management Act
GFO	Glennallen Field Office
GIS	Geographic Information System
GMU	Game Management Unit
GPS	Global Positioning System
GVW	Gross Vehicle Weight
IPCC	International Panel on Climate Change
IWSRCC	Interagency Wild and Scenic River Coordinating Council
LNT	Leave No Trace
LWCF	Lands and Water Conservation Fund
MOA	Military Operations Area
OSM	Office of Subsistence Management
NCH	Nelchina Caribou Herd
NEPA	National Environmental Policy Act
OHV	Off Highway Vehicle
ORV	Outstandingly Remarkable Value
PLO	Public Land Order
RFFA	Reasonably Foreseeable Future Action
RMIS	Recreation Management Information System
RMZ	Recreation Management Zone
ROS	Recreation Opportunity Spectrum
ROW	Right-of-Way
SRMA	Special Recreation Management Area
SRP	Special Recreation Permit
T&E	Threatened and Endangered [species]
TAPS	Trans-Alaska Pipeline System
TLAD	Tangle Lakes Archaeological District
USC	U.S. Code
VRM	Visual Resource Management
WSR	Wild and Scenic River
WSRA	Wild and Scenic Rivers Act