

11.0 Appendices

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11.1 Abbreviations and Acronyms

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ADOL	Alaska Department of Law
ADNR	Alaska Department of Natural Resources
°C	Centigrade (degrees)
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CORPS	U.S. Army Corps of Engineers
CZMA	Coastal Zone Management Act
CWA	Clean Water Act
DAC	NOAA's Damage Assessment Center
DOI	U.S. Department of the Interior
DOC	U.S. Department of Commerce
Draft RP/EA	Draft Restoration Plan and Environmental Assessment
EA	Environmental Assessment
EFH	Essential Fish Habitat (under MSFCMA)
EIS	Environmental Impact Statement
EO	Executive Order
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FONSI	Finding of No Significant Impact
FWCA	Fish and Wildlife Coordination Act
HAZMAT	NOAA's Hazardous Materials Response and Assessment Division
HEA	Habitat Equivalency Analysis
KM	Kilometers
LAT	Lead Administrative Trustee
MMPA	Marine Mammal Protection Act
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
M/V	Motor Vessel
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NRDA	Natural Resource Damage Assessment
NWR	National Wildlife Refuges (USFWS)
OPA	Oil Pollution Act of 1990
PAH	Polycyclic aromatic hydrocarbons
PPM	Parts per million
RP(s)	Responsible Party or Parties
RP/EA	Restoration Plan and Environmental Assessment
§	Section
SCAT	Shoreline Cleanup Assessment Team
USC	United States Code
USCG	U.S. Coast Guard
USFWS	U.S. Fish and Wildlife Service

11.2 Trustee Determinations:

Determination of Jurisdiction (February, 1999)

On November 26, 1997, the *M/V Kuroshima* ran aground in Summer Bay, Unalaska resulting in the discharge of oil to the Bay, Summer Bay Lake, Humpy Cove and surrounding areas. The natural resource Trustees for the resources affected by the spill are Alaska Department of Fish and Game, the Alaska Department of Law, and the Alaska Department of Natural Resources, acting on behalf of the State of Alaska, the National Oceanic and Atmospheric Administration (NOAA) of the Department of Commerce, the United States Fish and Wildlife Service of the Department of the Interior (DOI), acting on behalf of the United States (collectively, the "Trustees").

The Trustees, in consultation with the Qawalangin Tribe of Unalaska, make the following findings pursuant to the Oil Pollution Act of 1990 (OPA), 33 U.S.C. 2701 *et seq.*, and the implementing regulations under that Act, specifically 15 C.F.R. Section 990.41:

Section 990.41 Determination of Jurisdiction

1. An "incident" has occurred.

On November 26, 1997 the *M/V Kuroshima*, a privately owned vessel, as defined at 33 U.S.C. Section 2701 (37), ran aground in Summer Bay, Unalaska resulting in the discharge of approximately 40,000 gallons of Bunker fuel and marine diesel oil, as defined at 33 U.S.C. Section 2701 (23), into the navigable waters of Summer Bay and Summer Bay Lake which are part of the Exclusive Economic Zone, as defined at 33 U.S.C. Section 2701 (14) of OPA. See *Certificate of Financial Responsibility filed with U.S. Coast Guard (AR# 75)*, *Alaska Department of Environmental Conservation Situation Reports (AR #1)*, *Alaska Department of Environmental Conservation Final Incident Report, 1/6/98 Caleb Brett report (AR# 56)*.

2. The Trustees have determined that:

(A) This Incident was not permitted under federal, state or local law. See *Alaska Department of Environmental Conservation Situation Report, November 26, 1998 (AR# 18)*.

(B) The *M/V Kuroshima* is a privately owned vessel and is not a public vessel. See *Certificate of Financial Responsibility filed with the U.S. Coast Guard (AR# 75)*.

(C) The discharge of oil from this incident did not occur from an onshore facility subject to the Trans-Alaska pipeline Authority Act. See *Alaska Department of Environmental Conservation Situation Report, November 26, 1998 (AR# 18)*.

3. Based upon information gathered during the response, initiation and preassessment phases, the Trustees have determined, in consultation with the Qawalangin Tribe, that, due to the amount

and type of oil spilled, the known toxicity of the oil, the location of the spill and the living and non-living natural resources in the area at the time of the spill (including but not limited to birds, fish, marine biota, sediments and water) natural resources under the trusteeship of NOAA, DOI and the State of Alaska may have been injured, or may be injured as a result of the Incident. See *M/V Kuroshima Incident: Pre-Assessment Scoping Report, NOAA Damage Assessment Center (AR # 18)*.

Determination to Conduct Restoration Planning (February, 1999)

Section 990.42 - Determination to Conduct Restoration Planning

During the preassessment phase of the natural resource damage assessment the natural resource trustees engaged in a number of preassessment activities to secure information regarding the type and scope of potential natural resource injuries associated with the site, the need for additional damage assessment studies and potential for restoration. These activities included:

- (1) Site visits and sample collection
- (2) Evaluation of exposure to birds
- (3) Evaluation of exposure to salmonids
- (4) Collection of water and sediment samples in Summer Bay Lake
- (5) Enumeration of salmon smolts from Summer Bay Lake
- (6) Enumeration of adult fish to Summer Bay Lake

Additionally, the Trustees participated throughout the response efforts and evaluated information obtained during the response effort. Kuroshima Shipping, S.A. agreed to stipulate to the exposure of bald eagles and salmonids to oil. See *Stipulation Between Natural Resource Damage Trustees and Kuroshima Shipping, S.A. (AR# 95)*.

Based upon a review of the information obtained during these efforts, the Trustees have determined, pursuant to 15 C.F.R. Section 990.42 (a), that:

- (1) Data collected and analyzed during the preassessment phase pursuant to 15 C.F.R. Section 990.43 demonstrate that injuries to natural resources are likely to have resulted from the Incident, including but not limited to the following:
 - (A) Losses associated with the direct oiling of invertebrate marine communities, including mortality and tainting of intertidal resources and the loss of use of these resources;
 - (B) Loss of wildlife, including direct bird mortality, resulting from oiling and predation of injured birds;
 - (C) Losses associated with direct oiling of bird and marine habitats of the Unalaska Bay area including the shorelines of Summer Bay and Summer Bay Lake, including the loss of use of these areas for recreation;

(D) Nearshore and Lake salmon and trout fisheries including the loss of use of these fisheries for recreational and commercial fishing.

See NOAA's Preassessment Report (AR# 18), 2/18/98 NOAA "Initiation Request" to the United States Coast Guard National Pollution Funds Center (NPFC) and approval (AR# 71), 6/11/98 NOAA "Revised Initiation Request" and NPFC Approval (AR# 130), Alaska Department of Environmental Conservation Final Response Report (AR# 1).

(2) Response actions during cleanup have not adequately addressed the natural resource injuries resulting from the Incident. Response actions were primarily limited to containment and removal of oil that was spilled and were not intended to resolve all the natural resource losses associated with the Incident. See Alaska Department of Environmental Conservation Final Response Report (AR# 1).

(3) Feasible primary and compensatory restoration actions exist to address injuries from the Incident. Restoration activities are expected to focus on addressing losses associated with the intertidal resources, Lake fisheries, waterfowl and shorebirds, habitat and other losses as identified. Feasible restoration actions relevant to the injuries may include, but are not necessarily limited to:

(A) Predator control

(B) Habitat improvements

(C) Shoreline maintenance

(D) Increasing public awareness and education on shellfish contamination.

Based upon the foregoing determinations the Trustees have decided to proceed with restoration planning for the Incident.

11.3 Index to Administrative Record

To facilitate review, the administrative record is presented three ways- by Record Number, Author, and Subject Area.

Record	Author	Date	Title
1	Alaska Department of Environmental Conservation	1998	M/V Kuroshima Response, ADEC, Final Report.
2	Alaska Department of Fish and Game	1998	Juvenile and Adult Fish Production the Summer Following the M/V Kuroshima Oil Spill. Regional Information Report No. 4K99-62
3	Alaska Department of Fish and Game	1999	Juvenile and Adult Fish Production the Two Years Following the M/V Kuroshima Oil Spill.
4	Alaska Department of Health and Social Services,	1998	Health Consultation, M/V Kuroshima Oil Spill, Unalaska, Alaska
5	Bailey, E.	1993	Introduction of Foxes to Alaskan Islands- History, Effects on Avifauna, and Eradication.
6	Belt, G., Laughlin, J., and T. Merrill	1992	Design of Forest Riparian Buffer Strips for the Protection of Water Quality: Analysis of Scientific Literature.
7	Burger, A.E.	1993	Mortality of Seabirds Assessed from Beached-Bird Surveys in Southern British Columbia. Canadian Field
8	Byrd, G.V, Bailey, E., and W. Stahl.	1996	Introduced Predator Removal from Islands, Exxon Valdez Oil Spill Restoration Project Final Report
9	Byrd, G.V., Trapp, J.L., and C. F. Zeillemaker.	1994	Removal of Introduced Foxes: A Case Study in Restoration of Native Birds.
10	Everest, F., Beschta, R., Scrivener, J., Koski, K., Sedell, J. and C.J. Sederholm.	1987	Fine Sediment and Salmonid Production: A Paradox. pp. 98-142 in Salo, E., and T. Cundy (Eds.) Streamside Management: Forestry and Fisheries Interactions.
11	Furniss, M., Roelofs, T., and C.S. Yee.	1991	Road Construction and Maintenance. pp. 297-323 in Meehan (Ed.) Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitats.
12	Honnold, S., Edmundson, J., and S. Schrof,	1996	Limnological and Fishery Assessment of 23 Alaska Peninsula and Aleutian Area Lakes, 1993-1995: An Evaluation of Potential Sockeye and Coho Salmon Production.
13	Huyck, V., and E. Paulson (Eds.)	1997	Petroleum in the Freshwater Environment: An Annotated Bibliography.
14	Knecht, R., and R. Davis.	1999	Oil Spill Response and Restoration at the Summer Bay Archaeological Site (UNL-92)
15	Muhlberg, G., and N. Moore.	1998	Streambank Revegetation and Protection Manual - A Guide for Alaska.
16	NOAA	1999	Revised Draft Restoration Plan and Environmental Assessment for the January 19, 1996 North Cape Oil Spill.
17	NOAA	1998	M/V Kuroshima Incident Dutch Harbor, Alaska November 1997-July 1998: NOAA HAZMAT Scientific Support Team Information Management Report
18	NOAA	1998	M/V Kuroshima Incident: Preassessment Scoping Report NOAA Damage Assessment Center.
19	Polaris Consultants	1998	Summer Bay Lake Bottom Survey and Cleanup Report, M/V Kuroshima Oil Spill.

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20	QUADRA Engineering, Inc.	1986	Unalaska Park and Recreation Master Plan for the City of Unalaska
21	Tryck Nyman Hayes, Inc.	1996	Evaluation of Mitigation Opportunities in Unalaska
22	U.S. Coast Guard	1997	Polreps 1-45 <i>M/V Kuroshima</i> Oil Spill
23	U.S. Fish and Wildlife Service	1991	Aleutian Canada Goose Recovery Plan.
24	Vanguard Environmental (Kane)	1998	Vegetation Restoration Project, <i>M/V Kuroshima</i> Oil Spill
25	Vanguard Environmental (Kane)	1999	Shoreline Cleanup Summer Bay Beach and Headland at Humpy Cove July, 1999. <i>M/V Kuroshima</i> Oil Spill.
26	Vanguard Environmental (Kane)	2000	Draft Proposed Sediment Control Project, Summer Bay Lake Road, <i>M/V Kuroshima</i> Oil Spill.
27	Waters, T.F	1995	Sediments in Streams: Sources, Biological Effects, and Control.
28	Wildlife Rapid Response Team	1998	<i>M/V Kuroshima</i> Oil Spill, November 26, 1997, Wildlife Report.
29	Whitney, J and R Yender	1997	References for Pribilof Islands Oil Spill Contingency Planning
30	Bonneville Power Administration	1990	Analysis of Salmon and Steelhead Supplementation
31	Rice, S.D, D Moles et al.	1984	Effects of Petroleum Hydrocarbons on Alaskan Aquatic Organisms
32	Stein, J.E, Krahn, M.M., Collier, T.K. and J.P. Meador	1998	Oil Spill Response: Assessing Exposure and Effects in Fishery Resources
33	U.S. Forest Service	1998	Cost Estimating Guide for Road Construction
34	Stockner, J.G and E.A MacIsaac	1996	British Columbia Lake Enrichment Programme: Two Decades of Habitat Enhancement for Sockeye Salmon
35	Linkins A.E, Johnson, L.A, Everett, K.R. and R.M. Atlas	1984	Oil Spills: Damage and Recovery in Tundra and Taiga
36	NOAA	1994	Assessment of Risks Associated with the Shipment and Transfer of Group V Oils
37	NOAA	1997	Oil beneath the Water Surface and Review of Currently Available Literature on Group V Oils.
38	NOAA	1989	Environmental Impacts of Oil Spills in Polar Waters.
39	NOAA	1997	Literature Review of the Effects of Oil and Oil Spills on Arctic and North Temperate Intertidal and Subtidal Ecosystems
40	Stockner, J.D	1977	Lake Fertilization as a Means of Enhancing Sockeye Salmon Populations
41	National Technical Information Service	1998	Sockeye Salmon: Citations for the NTIS Bibliographic Database
42	U.S. Fish and Wildlife Service	1998	Carcass Collection: <i>M/V Kuroshima</i> Oil Spill, Dutch Harbor, Alaska.
43	Fairchild, L.A., and M.R. North	1993	Unalaska Winter Waterbird Surveys, March 1993
44	Bue, B.G, Sharr, S., and J.E Seeb	1998	Evidence of Damage to Pink Salmon Populations Inhabiting Prince William Sound, Alaska, Two Generations after the Exxon Valdez Spill.
45	International Maritime Organization	1996	Final Draft Guidelines for Sampling and Identification of Oil Spill
46	Koenings, J.P., and R.D. Burkett	1987	Population Characteristics of Sockeye Salmon Smolts Relative to Temperature Regimes, Euphotic Volume, Fry Density, and Forage Base within Alaskan Lakes

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47	Heintz, R.A, Rice, S.D., and B. Bue	1996	Field and Laboratory Evidence for Reduced Fitness in Pink Salmon that Incubate in Oiled Gravel.
48	Humphrey, B.	1993	Persistence of Oil in Subtidal Sediments
49	Marty, G.D., Heintz, R.A, and D.E. Hinton	1997	Histology and Teratology of Pink Salmon Larvae near the Time of Emergence from Gravel Substrate in the Laboratory
50	Short, J.W., and R.A. Heintz	1997	Identification of Exxon Valdez Oil in Sediments and Tissues from Prince William Sound and the Northwestern Gulf of Alaska based on a PAH Weathering Model
51	Miller, M., Alexander, V., and R.J. Barsgate	1978	Effects of Oil Spills on Phytoplankton in an Arctic Lake and Ponds
52	CH2M Hill	1994	Circulation Study of Unalaska Bay and Contiguous Inshore Marine Waters
53	Wolfley, J.	1998	Ecological Risk Assessment and Management: Their Failure to Value Indigenous Traditional Ecological Knowledge and Protects Tribal Homelands
54	NOAA	1995	Physical Process Affecting the Movement and Spreading of Oils in Inland Waters.
55	U.S. Fish and Wildlife Service	1988	Alaska Maritime National Wildlife Refuge Comprehensive Conservation Plan
56	Intertek Testing Services	1998	M/V Kuroshima Report of Survey (Spill Size Calculation)
57	Wooley, C.	1998	Cultural Resource Report MV Kuroshima Oil Spill Unalaska Island, Alaska
58	Gieger, H.J., Bue, B.G., Sharr, S., Wertheimer, A.C., and T.M. Willette	1996	A Life History Approach to Estimating Damage to Prince William Sound Pink Salmon Caused by the Exxon Valdez Oil Spill
59	NOAA	1994	Fish and Shellfish Tainting: Questions and Answers
60	NOAA	1999	Pavement in Patagonia, Asphalt in Alaska: Case Studies in Oil Pavement Formation, Fate, and Effects
61	NOAA	1994	Alaska Shoreline Countermeasures Manual
62	NOAA	1996	Kodiak Island and Alaska Peninsula Oceanographic Conditions and NOAA's Eleven-Year Oil Spill History
63	NOAA	1997	Damage Assessment Center Emergency Guidance Manual
64	Sauer, T. and P. Boehm	1991	The Use of Defensible Analytical Chemical Measurements for Oil Spill Natural Resource Damage Assessments
65	Roberts, P., Henry, C.B., Fukuyama, A., and G. Shigenaka	1999	Weathered Petroleum Bioavailability to Intertidal Bivalves after the T/V Exxon Valdez Incident.
66	Spies, R.B., Rice, S.D., Wolfe, D.A., and B.A. Wright	1996	The Effects of the Exxon Valdez Oil Spill on the Alaskan Coastal Environment.
67	Short, J.W., and M.M. Babcock	1996	Prespill and Postspill Concentrations of Hydrocarbons in Mussels and Sediments in Prince William Sound
68	Sharr, S., Moffitt, S.D., and A.K. Craig	1996	Effects of the Exxon Valdez on Pink Salmon Embryos and Preemergent Fry
69	Carls, M.G, Heintz, R., Moles, A., Rice, S.D., and J.W. Short	2001	Long-Term Biological Damage: What is Known, and How Should That Influence Decisions on Response, Assessment, and Restoration
70	Ford, R.G., Bonnell, M.L., Varoujean, D.H., Page, G.W., Carter, H.R., Sharp, B.E., Heinemann, D.E., and J.L. Casey	1996	Total Direct Mortality of Seabirds from the Exxon Valdez Oil Spill
71	NOAA	1998	Initiation Request to the National Pollution Funds Center

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72	Nighswander, T.S., and N. Peacock	1999	The Communication of Health Risk from Subsistence Food in a Cross-Cultural Setting: Lessons Learned from the Exxon Valdez Oil Spill
73	Fall, J.A., Field, L.J., Nighswander, T., Stein, J.E., and M. Bolger	1999	Overview of Lessons Learned from the Exxon Valdez: A Ten Year Retrospective
74	Alaska Department of Environmental Conservation	1998	Synthesis of Shoreline Oiling Data and Map (Fax)
75	USCG National Pollution Funds Center	1998	Case Management Division Vessel Identification Profile Request
76	Stoker, S.	1998	Proposal for Continued Monitoring and Cleanup
77	Dutch Harbor Fisherman	1998	Thaw Reveals vast amount of oil residue on Summer Bay Beach
78	Reuters News Service	1997	New Fuel Leak Spotted From Grounded Freighter
79	Associated Press	1997	Grounded Freighter Stirs Worry
80	Associated Press	1998	Oil From Freighter Taints Beach
81	Associated Press	1997	Salvage on Freighter in Alaska
82	Reuters News Service	1997	Dutch Harbor Grounding
83	Anchorage Daily News	1997	Working together improves oil spill response
84	Anchorage Daily News	1997	Freighter Owners get Deadline
85	Anchorage Daily News	1997	State Wants Grounded Ship Moved
86	Anchorage Daily News	1997	Summer Bay Cleanup goes on in Freezing Weather
87	Seattle Times	1997	Ship Stays Upright in Wind
88	Anchorage Daily News	1997	Spill crews clean lake, shoreline
89	Anchorage Daily News	1997	Spilled Oil taking toll on Birds
90	Associated Press	1997	Fuel Spill Higher than Thought
91	Associated Press	1997	Oil Spill Total may hit 100,000 gallons
92	Anchorage Daily News	1997	Storm Wallops Unalaska
93	Associated Press	1997	Estimate of Dutch Harbor Fuel Spill increases to 41,000 Gallons
94	Louisiana State University	1997	Characterization of Summer Bay Beach Stranded Oil
95	Co-trustees and RPs	1998	Stipulation between Natural Resource Damage Trustees and Kuroshima Shipping, S.A.
96	U.S. Coast Guard	1997	USCG Notice of Designation, <i>M/V Kuroshima</i>
97	NOAA	2000	<i>M/V Kuroshima</i> Lost Human Use Pre-assessment Report
98	Hecker, M	1997	Memo from the City of Unalaska with Proposed Summer Bay Park Improvements
99	Industrial Economics Inc.	1998	Kuroshima Analytical Data Quality Assurance Review
100	US Department of the Interior	1997	Letter designating NOAA as Lead Administrative Trustee
101	Hahn, B.L., and E.P. Thompson	1998	Letter Certifying Completion of Cleanup Operations
102	EcoChem	1997	PAH Analyte List
103	Woods Hole Group	1997	Case Narrative: <i>M/V Kuroshima</i> Oil Spill, Summer Bay, Alaska (Sample Results)
104	Kane, D	1998	<i>M/V Kuroshima</i> Oil Spill: Final Shellfish Analytical Data and Double Ratio Plots
105	Stoker, S.	1998	Letter to ADEC with Shellfish Sampling Recommendations
106	Fairchild, L.A., and M.L. Heer	1997	Unalaska Winter Waterbird Surveys, March 1995

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107	Anchorage Daily News	1998	Salvager Frees Kuroshima After 3 Months Aground
108	NOAA	1999	Preliminary Kuroshima Literature Review
109	Beak Consultants (Don Kane)	1997	M/V Kuroshima Oil Spill, Natural Resource Conceptual Restoration Proposal
110	Helton, D.	1998	Comments on (RPs) Conceptual Natural Resource Restoration Plan
111	Hoff, R.Z., and G. Shigenaka	1999	Lessons from Ten Years of Post-Exxon Valdez Monitoring on Intertidal Shorelines
112	Helton, D.	2000	Summary of Site Visit
113	Blue, K.	1998	Memo from City of Unalaska with Proposed Restoration Projects
114	Ounalashka Corporation	1998	Proposed Restoration Plans for Humpy Cove and Morris Cove
115	Ford, R.G., Page, G., and H. Carter	1987	Estimating Mortality of Seabirds from Oil Spills
116	Burger, A.	1991	The Effects of Oil Pollution on Seabirds off the West Coast of Vancouver Island
117	Rice, S.	1999	Memo on interpretation of benthic sediment sampling from Summer Bay Lake, Sampled in April 1998.
118	USFWS	1999	A Conservation Success Story: Aleutian Canada Goose Wings its Way back from the Brink of Extinction
119	Federal Register	2001	Final rule to remove the Aleutian Canada Goose from the Federal List of Endangered and Threatened Wildlife.
120	Mearns, A., O'Connor, T., and G. Lauenstein	1999	Relevance of the National "mussel watch" Program to Seafood Fisheries Management Issues during Oil Spill Response.
121	Holmes, P.B.	1997	Aleutian Islands and Atka-Amlia Islands Management Areas: Salmon Management Report to the Alaska Board of Fisheries, 1998
122	Peterson, C.H.	2001	The "Exxon Valdez" Oil Spill in Alaska: Acute, Indirect, and Chronic Effects on the Ecosystem.
123	NOAA	1999	Preliminary Analysis of Summer Bay Recreation Counts
124	Wright, S.	1999	Email regarding beach wildrye survival
125	Helton, D.	1999	Response to Vanguard Environmental re: Vegetation Restoration Project Report
126	Alaska Department of Fish and Game	2000	Summer Bay Lake 2000 Season Summary
127	Alaska Department of Fish and Game	2001	Summer Bay Lake 2001 Season Summary
128	Vanguard Environmental (Kane)	1999	Vegetation Restoration Project Addendum
129	Vanguard Environmental (Kane)	1999	Response to Trustee Comments and HEA Calculations
130	NOAA	1998	Supplemental Initiation Request to the National Pollution Funds Center
131	Pletnikoff, G.	2001	Email and attached pictures of residual oil
132	Akutan Corporation	1999	Consent to fox eradication project
133	NOAA	2001	Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Summer Bay, Alaska
134	Port of Dutch Harbor	1999	Marine Casualty Prevention: Port of Dutch Harbor Severe Storm Plan and Winter Rules
135	Anchorage Daily News	2001	Affidavit of Publication: Notice of Availability of a Draft

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			Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska and Request for Comments
136	Anchorage Daily News	2001	Affidavit of Publication: Notice of Extension of Comment Period for the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska
137	Jacob Stepetin, Qawalangin Tribe of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
138	Herbert Ray, Jr., Kessal, Young, and Logan,	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
139	William D. Bradshaw	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
140	Richard L. Davis, Ounalashka Corporation	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
141	Dan Duame, Qawalangin Tribe of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
142	Andrea Fulton, City of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
143	Abi Woodbridge	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
144	Dutch Harbor Fisherman	2001	Notice of public meeting and availability of the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
145	NOAA	2001	Flyer posted at City Hall and Tribal Offices with notice of public meeting
146	Helton, Doug	2001	PowerPoint presentation at November 26, 2001 public meeting at Unalaska City Hall
147	Federal Register	2001	Federal Register: Volume 66, Number 225, Page 58439-58440. Notice Availability of the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Summer Bay, Unalaska, AK, Request for Comments.
148	Helton, Doug	2001	Summary of comments at public meeting

Organized by Author

Author	Record	Date	Title
Abi Woodbridge	143	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
Akutan Corporation	132	1999	Consent to fox eradication project
Alaska Department of Environmental Conservation	1	1998	M/V Kuroshima Response, ADEC, Final Report.
Alaska Department of Environmental Conservation	74	1998	Synthesis of Shoreline Oiling Data and Map (Fax)
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Alaska Department of Fish and Game	3	1999	Juvenile and Adult Fish Production the Two Years Following the M/V Kuroshima Oil Spill.
Alaska Department of Fish and Game	126	2000	Summer Bay Lake 2000 Season Summary
Alaska Department of Fish and Game	127	2001	Summer Bay Lake 2001 Season Summary
Alaska Department of Health and Social Services,	4	1998	Health Consultation, M/V Kuroshima Oil Spill, Unalaska, Alaska
Anchorage Daily News	83	1997	Working together improves oil spill response
Anchorage Daily News	84	1997	Freighter Owners get Deadline
Anchorage Daily News	85	1997	State Wants Grounded Ship Moved
Anchorage Daily News	86	1997	Summer Bay Cleanup goes on in Freezing Weather
Anchorage Daily News	88	1997	Spill crews clean lake, shoreline
Anchorage Daily News	89	1997	Spilled Oil taking toll on Birds
Anchorage Daily News	92	1997	Storm Wallops Unalaska
Anchorage Daily News	107	1998	Salvager Frees Kuroshima After 3 Months Aground
Anchorage Daily News	135	2001	Affidavit of Publication: Notice of Availability of a Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska and Request for Comments
Anchorage Daily News	136	2001	Affidavit of Publication: Notice of Extension of Comment Period for the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska
Andrea Fulton, City of Unalaska	142	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
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Associated Press	80	1998	Oil From Freighter Taints Beach
Associated Press	81	1997	Salvage on Freighter in Alaska
Associated Press	90	1997	Fuel Spill Higher than Thought
Associated Press	91	1997	Oil Spill Total may hit 100,000 gallons
Associated Press	93	1997	Estimate of Dutch Harbor Fuel Spill increases to 41,000 Gallons
Bailey, E.	5	1993	Introduction of Foxes to Alaskan Islands- History, Effects on Avifauna, and Eradication.

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Beak Consultants (Don Kane)	109	1997	M/V Kuroshima Oil Spill; Natural Resource Conceptual Restoration Proposal
Belt, G., Laughlin, J., and T. Merrill	6	1992	Design of Forest Riparian Buffer Strips for the Protection of Water Quality: Analysis of Scientific Literature.
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Bonneville Power Administration	30	1990	Analysis of Salmon and Steelhead Supplementation
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Burger, A.E.	7	1993	Mortality of Seabirds Assessed from Beached-Bird Surveys in Southern British Columbia. Canadian Field
Byrd, G.V, Bailey, E., and W. Stahl.	8	1996	Introduced Predator Removal from Islands, Exxon Valdez Oil Spill Restoration Project Final Report
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Dan Duame, Qawalangin Tribe of Unalaska	141	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
Dutch Harbor Fisherman	77	1998	Thaw Reveals vast amount of oil residue on Summer Bay Beach
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EcoChem	102	1997	PAH Analyte List
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Heintz, R.A, Rice, S.D., and B. Bue	47	1996	Field and Laboratory Evidence for Reduced Fitness in Pink Salmon that Incubate in Oiled Gravel.
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Helton, D.	112	2000	Summary of Site Visit
Helton, D.	125	1999	Response to Vanguard Environmental re: Vegetation Restoration Project Report
Helton, Doug	146	2001	PowerPoint presentation at November 26, 2001 public meeting at Unalaska City Hall
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NOAA	37	1997	Oil beneath the Water Surface and Review of Currently Available Literature on Group V Oils.
NOAA	38	1989	Environmental Impacts of Oil Spills in Polar Waters.
NOAA	39	1997	Literature Review of the Effects of Oil and Oil Spills on Arctic and North Temperate Intertidal and Subtidal Ecosystems
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NOAA	59	1994	Fish and Shellfish Tainting: Questions and Answers
NOAA	60	1999	Pavement in Patagonia, Asphalt in Alaska: Case Studies in Oil Pavement Formation, Fate, and Effects
NOAA	61	1994	Alaska Shoreline Countermeasures Manual
NOAA	62	1996	Kodiak Island and Alaska Peninsula Oceanographic Conditions and NOAA's Eleven-Year Oil Spill History
NOAA	63	1997	Damage Assessment Center Emergency Guidance Manual
NOAA	71	1998	Initiation Request to the National Pollution Funds Center
NOAA	97	2000	M/V Kuroshima Lost Human Use Pre-assessment Report
NOAA	108	1999	Preliminary Kuroshima Literature Review
NOAA	123	1999	Preliminary Analysis of Summer Bay Recreation Counts
NOAA	130	1998	Supplemental Initiation Request to the National Pollution Funds Center
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NOAA	145	2001	Flyer posted at City Hall and Tribal Offices with notice of public meeting

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Peterson, C.H.	122	2001	The "Exxon Valdez" Oil Spill in Alaska: Acute, Indirect, and Chronic Effects on the Ecosystem.
Pletnikoff, G.	131	2001	Email and attached pictures of residual oil
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Stockner, J.G and E.A MacIsaac	34	1996	British Columbia Lake Enrichment Programme: Two Decades of Habitat Enhancement for Sockeye Salmon
Stoker, S.	76	1998	Proposal for Continued Monitoring and Cleanup
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Tryck Nyman Hayes, Inc.	21	1996	Evaluation of Mitigation Opportunities in Unalaska
U.S. Forest Service	33	1998	Cost Estimating Guide for Road Construction
U.S. Coast Guard	22	1997	Polreps 1-45 M/V Kuroshima Oil Spill
U.S. Coast Guard	96	1997	USCG Notice of Designation, M/V Kuroshima
U.S. Fish and Wildlife Service	23	1991	Aleutian Canada Goose Recovery Plan.
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U.S. Fish and Wildlife Service	55	1988	Alaska Maritime National Wildlife Refuge Comprehensive

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US Department of the Interior	100	1997	Letter designating NOAA as Lead Administrative Trustee
USCG National Pollution Funds Center	75	1998	Case Management Division Vessel Identification Profile Request
USFWS	118	1999	A Conservation Success Story: Aleutian Canada Goose Wings its Way back from the Brink of Extinction
Vanguard Environmental (Kane)	24	1998	Vegetation Restoration Project, <i>M/V Kuroshima</i> Oil Spill
Vanguard Environmental (Kane)	25	1999	Shoreline Cleanup Summer Bay Beach and Headland at Humpy Cove July, 1999. <i>M/V Kuroshima</i> Oil Spill.
Vanguard Environmental (Kane)	26	2000	Draft Proposed Sediment Control Project, Summer Bay Lake Road, <i>M/V Kuroshima</i> Oil Spill.
Vanguard Environmental (Kane)	128	1999	Vegetation Restoration Project Addendum
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Waters, T.F	27	1995	Sediments in Streams: Sources, Biological Effects, and Control.
Whitney, J and R Yender	29	1997	References for Pribilof Islands Oil Spill Contingency Planning
Wildlife Rapid Response Team	28	1998	<i>MV Kuroshima</i> Oil Spill, November 26, 1997, Wildlife Report.
William D. Bradshaw	139	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the <i>M/V Kuroshima</i> Oil Spill
Wolfley, J.	53	1998	Ecological Risk Assessment and Management: Their Failure to Value Indigenous Traditional Ecological Knowledge and Protects Tribal Homelands
Woods Hole Group	103	1997	Case Narrative: <i>M/V Kuroshima</i> Oil Spill, Summer Bay, Alaska (Sample Results)
Wooley, C.	57	1998	Cultural Resource Report <i>MV Kuroshima</i> Oil Spill Unalaska Island, Alaska
Wright, S.	124	1999	Email regarding beach wildrye survival

Administrative Record Organized by Subject Area

Archaeology			
Number	Author	Date	Title
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57	Wooley, C.	1998	Cultural Resource Report <i>MV Kuroshima</i> Oil Spill Unalaska Island, Alaska

Birds			
Number	Author	Date	Title
5	Bailey, E.	1993	Introduction of Foxes to Alaskan Islands- History, Effects on Avifauna, and Eradication.
7	Burger, A.E.	1993	Mortality of Seabirds Assessed from Beached-Bird Surveys in Southern British Columbia. Canadian Field
8	Byrd, G.V, Bailey, E., and W. Stahl.	1996	Introduced Predator Removal from Islands, Exxon Valdez Oil Spill Restoration Project Final Report
9	Byrd, G.V., Trapp, J.L., and C. F. Zeillemaker.	1994	Removal of Introduced Foxes: A Case Study in Restoration of Native Birds.
16	NOAA	1999	Revised Draft Restoration Plan and Environmental Assessment for the January 19, 1996 North Cape Oil Spill.
23	U.S. Fish and Wildlife Service	1991	Aleutian Canada Goose Recovery Plan.
28	Wildlife Rapid Response Team	1998	<i>MV Kuroshima</i> Oil Spill, November 26, 1997, Wildlife Report.
42	U.S. Fish and Wildlife Service	1998	Carcass Collection: <i>M/V Kuroshima</i> Oil Spill, Dutch Harbor, Alaska.
43	Fairchild, L.A., and M.R. North	1993	Unalaska Winter Waterbird Surveys, March 1993
55	U.S. Fish and Wildlife Service	1988	Alaska Maritime National Wildlife Refuge Comprehensive Conservation Plan
70	Ford, R.G., Bonnell, M.L., Varoujean, D.H., Page, G.W., Carter, H.R., Sharp, B.E., Heinemann, D.E., and J.L. Casey	1996	Total Direct Mortality of Seabirds from the Exxon Valdez Oil Spill
106	Fairchild, L.A., and M.L. Heer	1997	Unalaska Winter Waterbird Surveys, March 1995
115	Ford, R.G., Page, G., and H. Carter	1987	Estimating Mortality of Seabirds from Oil Spills
116	Burger, A.	1991	The Effects of Oil Pollution on Seabirds off the West Coast of Vancouver Island
118	USFWS	1999	A Conservation Success Story: Aleutian Canada Goose Wings its Way back from the Brink of Extinction
119	Federal Register	2001	Final rule to remove the Aleutian Canada Goose from the Federal List of Endangered and Threatened Wildlife.
132	Akutan Corporation	1999	Consent to fox eradication project

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Chemistry Results			
Number	Author	Date	Title
94	Louisiana State University	1997	Characterization of Summer Bay Beach Stranded Oil
99	Industrial Economics Inc.	1998	Kuroshima Analytical Data Quality Assurance Review
102	EcoChem	1997	PAH Analyte List
103	Woods Hole Group	1997	Case Narrative: M/V Kuroshima Oil Spill, Summer Bay, Alaska (Sample Results)

Coordination with RPs			
Number	Author	Date	Title
95	Co-trustees and RPs	1998	Stipulation between Natural Resource Damage Trustees and Kuroshima Shipping, S.A.
109	Beak Consultants (Don Kane)	1997	M/V Kuroshima Oil Spill; Natural Resource Conceptual Restoration Proposal
110	Helton, D.	1998	Comments on (RPs) Conceptual Natural Resource Restoration Plan

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Number	Author	Date	Title
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16	NOAA	1999	Revised Draft Restoration Plan and Environmental Assessment for the January 19, 1996 North Cape Oil Spill.
18	NOAA	1998	M/V Kuroshima Incident: Preassessment Scoping Report NOAA Damage Assessment Center.
21	Tryck Nyman Hayes, Inc.	1996	Evaluation of Mitigation Opportunities in Unalaska
29	Whitney, J and R Yender	1997	References for Pribilof Islands Oil Spill Contingency Planning
31	Rice, S.D, D Moles et al.	1984	Effects of Petroleum Hydrocarbons on Alaskan Aquatic Organisms
51	Miller, M., Alexander, V., and R.J. Barsgate	1978	Effects of Oil Spills on Phytoplankton in an Arctic Lake and Ponds
59	NOAA	1994	Fish and Shellfish Tainting: Questions and Answers
62	NOAA	1996	Kodiak Island and Alaska Peninsula Oceanographic Conditions and NOAA's Eleven-Year Oil Spill History
63	NOAA	1997	Damage Assessment Center Emergency Guidance Manual
66	Spies, R.B., Rice, S.D., Wolfe, D.A., and B.A. Wright	1996	The Effects of the Exxon Valdez Oil Spill on the Alaskan Coastal Environment.
71	NOAA	1998	Initiation Request to the National Pollution Funds Center
100	US Department of the Interior	1997	Letter designating NOAA as Lead Administrative Trustee
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122	Peterson, C.H.	2001	The "Exxon Valdez" Oil Spill in Alaska: Acute, Indirect, and Chronic Effects on the Ecosystem.

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134	Port of Dutch Harbor	1999	Marine Casualty Prevention: Port of Dutch Harbor Severe Storm Plan and Winter Rules

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Number	Author	Date	Title
77	Dutch Harbor Fisherman	1998	Thaw Reveals vast amount of oil residue on Summer Bay Beach
78	Reuters News Service	1997	New Fuel Leak Spotted From Grounded Freighter
79	Associated Press	1997	Grounded Freighter Stirs Worry
80	Associated Press	1998	Oil From Freighter Taints Beach
81	Associated Press	1997	Salvage on Freighter in Alaska
82	Reuters News Service	1997	Dutch Harbor Grounding
83	Anchorage Daily News	1997	Working together improves oil spill response
84	Anchorage Daily News	1997	Freighter Owners get Deadline
85	Anchorage Daily News	1997	State Wants Grounded Ship Moved
86	Anchorage Daily News	1997	Summer Bay Cleanup goes on in Freezing Weather
87	Seattle Times	1997	Ship Stays Upright in Wind
88	Anchorage Daily News	1997	Spill crews clean lake, shoreline
89	Anchorage Daily News	1997	Spilled Oil taking toll on Birds
90	Associated Press	1997	Fuel Spill Higher than Thought
91	Associated Press	1997	Oil Spill Total may hit 100,000 gallons
92	Anchorage Daily News	1997	Storm Wallops Unalaska
93	Associated Press	1997	Estimate of Dutch Harbor Fuel Spill increases to 41,000 Gallons
107	Anchorage Daily News	1998	Salvager Frees Kuroshima After 3 Months Aground

Oil Fates			
Number	Author	Date	Title
36	NOAA	1994	Assessment of Risks Associated with the Shipment and Transfer of Group V Oils
37	NOAA	1997	Oil beneath the Water Surface and Review of Currently Available Literature on Group V Oils.
38	NOAA	1989	Environmental Impacts of Oil Spills in Polar Waters.
39	NOAA	1997	Literature Review of the Effects of Oil and Oil Spills on Arctic and North Temperate Intertidal and Subtidal Ecosystems
45	International Maritime Organization	1996	Final Draft Guidelines for Sampling and Identification of Oil Spill
48	Humphrey, B.	1993	Persistence of Oil in Subtidal Sediments
52	CH2M Hill	1994	Circulation Study of Unalaska Bay and Contiguous Inshore Marine Waters
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60	NOAA	1999	Pavement in Patagonia, Asphalt in Alaska: Case Studies in Oil Pavement Formation, Fate, and Effects
64	Sauer, T. and P.	1991	The Use of Defensible Analytical Chemical Measurements for Oil

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Boehm	Spill Natural Resource Damage Assessments
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Number	Author	Date	Title
133	NOAA	2001	Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Summer Bay, Alaska
135	Anchorage Daily News	2001	Affidavit of Publication: Notice of Availability of a Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska and Request for Comments
136	Anchorage Daily News	2001	Affidavit of Publication: Notice of Extension of Comment Period for the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Unalaska, Alaska
137	Jacob Stepetin, Qawalangin Tribe of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
138	Herbert Ray, Jr., Kessal, Young, and Logan,	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
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141	Dan Duame, Qawalangin Tribe of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
142	Andrea Fulton, City of Unalaska	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
143	Abi Woodbridge	2001	Comments on the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
144	Dutch Harbor Fisherman	2001	Notice of public meeting and availability of the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill
145	NOAA	2001	Flyer posted at City Hall and Tribal Offices with notice of public meeting
146	Helton, Doug	2001	PowerPoint presentation at November 26, 2001 public meeting at Unalaska City Hall
147	Federal Register	2001	Federal Register: Volume 66, Number 225, Page 58439-58440. Notice Availability of the Draft Restoration Plan and Environmental Assessment for the M/V Kuroshima Oil Spill, Summer Bay, Unalaska, AK, Request for Comments.
148	Helton, Doug	2001	Summary of comments at public meeting

Recreation			
Number	Author	Date	Title
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20	QUADRA Engineering, Inc.	1986	Unalaska Park and Recreation Master Plan for the City of Unalaska

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76	Stoker, S.	1998	Proposal for Continued Monitoring and Cleanup
97	NOAA	2000	M/V Kuroshima Lost Human Use Pre-assessment Report
98	Hecker, M	1997	Memo from the City of Unalaska with Proposed Summer Bay Park Improvements
113	Blue, K.	1998	Memo from City of Unalaska with Proposed Restoration Projects
114	Ounalashka Corporation	1998	Proposed Restoration Plans for Humpy Cove and Morris Cove
123	NOAA	1999	Preliminary Analysis of Summer Bay Recreation Counts

Response Documents			
Number	Author	Date	Title
1	Alaska Department of Environmental Conservation	1998	M/V Kuroshima Response, ADEC, Final Report.
17	NOAA	1998	M/V Kuroshima Incident Dutch Harbor, Alaska November 1997-July 1998: NOAA HAZMAT Scientific Support Team Information Management Report
19	Polaris Consultants	1998	Summer Bay Lake Bottom Survey and Cleanup Report, M/V Kuroshima Oil Spill.
22	U.S. Coast Guard	1997	Polreps 1-45 M/V Kuroshima Oil Spill
25	Vanguard Environmental (Kane)	1999	Shoreline Cleanup Summer Bay Beach and Headland at Humpy Cove July, 1999. M/V Kuroshima Oil Spill.
56	Intertek Testing Services	1998	M/V Kuroshima Report of Survey (Spill Size Calculation)
61	NOAA	1994	Alaska Shoreline Countermeasures Manual
74	Alaska Department of Environmental Conservation	1998	Synthesis of Shoreline Oiling Data and Map (Fax)
75	USCG National Pollution Funds Center	1998	Case Management Division Vessel Identification Profile Request
96	U.S. Coast Guard	1997	USCG Notice of Designation, M/V Kuroshima
101	Hahn, B.L., and E.P. Thompson	1998	Letter Certifying Completion of Cleanup Operations

Salmon			
Number	Author	Date	Title
2	Alaska Department of Fish and Game	1998	Juvenile and Adult Fish Production the Summer Following the M/V Kuroshima Oil Spill. Regional Information Report No. 4K99-62
3	Alaska Department of Fish and Game	1999	Juvenile and Adult Fish Production the Two Years Following the M/V Kuroshima Oil Spill.
10	Everest, F., Beschta, R., Scrivener, J., Koski, K., Sedell, J. and C.J. Sederholm.	1987	Fine Sediment and Salmonid Production: A Paradox. Pp 98-142 in Salo, E., and T. Cundy (Eds.) Streamside Management: Forestry and Fisheries Interactions.
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	Schrof,		and Coho Salmon Production.
26	Vanguard Environmental (Kane)	2000	Draft Proposed Sediment Control Project, Summer Bay Lake Road, <i>M/V Kuroshima</i> Oil Spill.
27	Waters, T.F	1995	Sediments in Streams: Sources, Biological Effects, and Control.
30	Bonneville Power Administration	1990	Analysis of Salmon and Steelhead Supplementation
32	Stein, J.E, Krahn, M.M., Collier, T.K. and J.P. Meador	1998	Oil Spill Response: Assessing Exposure and Effects in Fishery Resources
33	U.S .Forest Service	1998	Cost Estimating Guide for Road Construction
34	Stockner, J.G and E.A MacIsaac	1996	British Columbia Lake Enrichment Programme: Two Decades of Habitat Enhancement for Sockeye Salmon
40	Stockner, J.D	1977	Lake Fertilization as a Means of Enhancing Sockeye Salmon Populations
41	National Technical Information Service	1998	Sockeye Salmon: Citations for the NTIS Bibliographic Database
44	Bue, B.G, Sharr, S., and J.E Seeb	1998	Evidence of Damage to Pink Salmon Populations Inhabiting Prince William Sound, Alaska, Two Generations after the Exxon Valdez Spill.
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