ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1994 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: Unalaska Lake

Location or Lat/Long: T 73 S, R. 118 W, SM
Unalaska

Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?:
[ ] Yes / [✓] No / Name: _____

Waterbody Type:
- [ ] River/Stream
- [✓] Lake
- [ ] Fresh Wetland
- [ ] Tidal Wetland
- [ ] Estuary
- [ ] Coastal Shoreline
- [ ] Groundwater

Waterbody Size:
- ____ Miles
- ____ Acres approximately 1/2 mi by 1/2 mi
- ____ Acres
- ____ Acres
- ____ Square Miles
- ____ Miles

Segment of Waterbody Addressed:
From: _____
To: _____
Other Description: _____
Size of Segment: _____

Period of Assessment, From: _____ To: _____

Assessment completed by: _____

Type of Documentation (attach if possible): photos to be provided by residents

- [ ] Water quality data
- [ ] Documented oil spill
- [ ] NOV / Enforcement action
- [ ] Photos with documentation
- [ ] Fish / Habitat survey
- [ ] Written report
- [ ] Field notes
- [ ] Overflight
- [✓] Observation
- [ ] Other (please describe below)

Assessment based on: [ ] Monitored water quality data [ ] Evaluated (Best professional judgement)

Describe Source and Nature of Pollution, Documentation Provided and Other Comments:
Unalaska Lake is used by anadromous fish (salmon) for spawning and migration. Year by year the lake is increasingly being silted by road and natural runoff. Residents believe road grading practices have accelerated the process. Sediment deposited on salmon spawning sites can suffocate and kill the eggs. Salmon fishing in the Dutch Link River which flows out of the lake is a very popular pastime of residents.

RESPONDENT INFORMATION:

Name: Darcy Richards Phone: 344.5612 Date: 2/25/94
Employer: Aleutians West CRSA Dept: _____ Title: Program director
Address: PO Box 220170 Anchorage, AK 99522-0170
Education/Experience: 6 yrs in above position

Unalaska Lake

TYPES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

___ Cause unknown
___ Unknown toxicity
___ Pesticides: _____
___ Priority organics: _____
___ Nonpriority organics: _____
___ Metals: _____

___ Ammonia
___ Chlorine
___ Other inorganics
___ Nutrients
___ pH
✓ Siltation/sedimentation
___ Low dissolved oxygen
___ TDS/Salinity/Chlorides

___ Temperature modifications
___ Flow alterations
___ Other habitat alterations
___ Pathogens
___ Radiation
___ Oil and Grease
___ Taste and odor
___ Suspended solids

___ Noxious aquatic plants
___ Filling and draining
___ Total toxics
___ Turbidity
___ Exotic species
___ Debris, foam, scum, etc.
___ Insufficient stream structure
___ Arsenic

Other: _____

SOURCES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

Point Sources:
___ Industrial
___ Municipal

Urban Runoff:
___ Storm sewers
___ Combined sewers
H Surface runoff

Agriculture:
___ Non-irrigated crop production
___ Irrigated crop production
___ Pasture land
___ Range land
___ Feedlots
___ Aquaculture
___ Animal waste/holding areas
___ Manure lagoons

Silviculture:
___ Timber harvest
___ Stream restoration projects
___ Road construction/maintenance
___ Elimination of stream thermal cover
___ Log Transfer Facilities (estuary)
___ Log Sort Yard (land)

Construction:
___ Highway/road
___ Bridge construction/repair
___ Land development

Resource Exploration/extraction:
___ Surface mining
___ Subsurface mining
___ Placer mining
___ Dredge mining
___ Petroleum activities
___ Mill tailings
___ Mine tailings
___ Gravel mining
___ Injection wells

Waste Disposal:
___ Sludge
___ Wastewater
___ Landfills Industrial land treatment
___ Onsite wastewater systems
___ Hazardous waste
___ Sewage disposal
___ Septic tank leak

Hydrologic Modification:
___ Stream channelization
___ Dredging
___ Dam construction
___ Flow regulation/modification
___ Bridge construction
___ Removal of riparian vegetation
___ Streambank modification/destabilization
___ Draining/filling of wetlands

Marinas:
___ Small boat harbors (up to 10 slips)
___ Harbors (recreational/commercial)
___ Loading facilities (commercial)

Other:
___ Atmospheric deposition
___ Waste storage tank leaks
H Highway maintenance/runoff
___ Petroleum/chemical spills, leaks
___ In-place containments
___ Natural sources
___ Recreational activities
___ Upstream impoundment
___ Salt storage sites
___ Fire damage/restoration
___ Underground storage tanks
___ Aboveground storage tanks
___ Saltwater intrusion
___ Road salting
___ Fish, shellfish wastes
___ UNKNOWN SOURCE

END

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1994 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: UNALASKA LAKE, Associated fresh wetlands & upper + lower Iliuliuk River

Location or Lat/Long: UNALASKA ISLAND Appx 166° 31' West X 52° N
SEE Accompanying topo Sheet Unalaska Quad C-2 1:63,360 & Dutch Harbor 1:25,000

Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?:

[ ] Yes / [X] No / Name:

Waterbody Type:
- [X] River/Stream
- [X] Lake
- [X] Fresh Wetland
- [ ] Tidal Wetland
- [ ] Estuary
- [ ] Coastal Shoreline
- [X] Groundwater

Waterbody Size:
- 2 Miles (Appx)
- Acres 3/4 mi x 1/2 mi
- Acres
- Acres
- Square Miles
- Miles

Segment of Waterbody Addressed:
From: Mouth of Iliuliuk River to
To: waterfall at head of River above
Other Description: LAKE

Size of Segment:

Period of Assessment, From: 1974 To: Present

Assessment completed by: ABI WOODBRIDGE

Type of Documentation (attach if possible):

- [ ] Water quality data
- [ ] Documented oil spill
- [ ] NOV / Enforcement action
- [X] Photos with documentation
- [ ] Fish / Habitat survey
- [X] Written report
- [ ] Field notes
- [ ] Overflight
- [ ] Observation
- [ ] Other (please describe below)

Assessment based on: [ ] Monitored water quality data [X] Evaluated (Best professional judgement)

Describe Source and Nature of Pollution, Documentation Provided and Other Comments:
14-16 point sources of pollution & 2 Non Point - the water Quality of LAKE + 2 Segments of the River + 2 Associated ponds is the result of local Development that never took into consideration the long term results of Road Run off, sewage discharge, poorly conceived land fill etc the Turbidity levels & siltation of LAKE have increased horribly in the PAST 2 YEARS. Also, the ground water/water Table has been affected By City fresh water wells above the head of the LAKE. See comments attached.
Also suspected and known WWII dumping in Lake & environ.

RESPONDENT INFORMATION:

Name: ABI WOODBRIDGE Phone: 581-1570/581-2837 (Best) Date: 2-28-94
Employer: Self Employed Dept: Title:
Address: P.O. Box 1107 UNALASKA, AK 99685
Education/Experience: 3 yrs University. Also former CPC member; past chair since inception of ALDCRSA; Resident of UNALASKA 16 years

TYPES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

___ Cause unknown
___ Unknown toxicity
___ Pesticides: ___
___ Priority organics: ___
___ Nonpriority organics: ___
X Metals: Possible WWII dumping in lake. Known dumping in valley + highlands
___ Ammonia
X Chlorine possible
___ Other inorganics
___ Nutrients
X pH possible impairment
X Siltation/sedimentation
___ Low dissolved oxygen
___ TDS/Salinity/Chlorides

___ Temperature modifications
___ Flow alterations
___ Other habitat alterations
___ Pathogens
___ Radiation
X Oil and Grease
___ Taste and odor
X Suspended solids

___ Noxious aquatic plants
X Filling and draining
___ Total toxics
X Turbidity
___ Exotic species
X Debris, foam, scum, etc.
___ Insufficient stream structure
___ Arsenic

Other: ___

SOURCES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

Point Sources:
X Industrial
X Municipal

Urban Runoff:
X ~~Storm sewers~~ we have Road/Ditch Runoff channeled by city
___ Combined sewers
X Surface runoff

Agriculture:
___ Non-irrigated crop production
___ Irrigated crop production
___ Pasture land
___ Range land
___ Feedlots
___ Aquaculture
___ Animal waste/holding areas
___ Manure lagoons

Silviculture:
___ Timber harvest
___ Stream restoration projects
___ Road construction/maintenance
___ Elimination of stream thermal cover
___ Log Transfer Facilities (estuary)
___ Log Sort Yard (land)

Construction:
X Highway/road
___ Bridge construction/repair
X Land development

Resource Exploration/extraction:
X Surface mining
___ Subsurface mining
___ Placer mining
X Dredge mining
___ Petroleum activities
___ Mill tailings
___ Mine tailings
X Gravel mining
___ Injection wells

Waste Disposal:
___ Sludge
X Wastewater
___ Landfills Industrial land treatment
___ Onsite wastewater systems
___ Hazardous waste
___ Sewage disposal
X Septic tank leak possible

Hydrologic Modification:
___ Stream channelization
___ Dredging
___ Dam construction
___ Flow regulation/modification
___ Bridge construction
___ Removal of riparian vegetation
X Streambank modification/destabilization
X Draining/filling of wetlands

Marines:
___ Small boat harbors (up to 10 slips)
___ Harbors (recreational/commercial)
___ Loading facilities (commercial)

Other:
___ Atmospheric deposition
___ Waste storage tank leaks
X Highway maintenance/runoff
X Petroleum/chemical spills, leaks
___ In-place containments
X Natural sources
___ Recreational activities
___ Upstream impoundment
___ Salt storage sites
___ Fire damage/restoration
___ Underground storage tanks
___ Aboveground storage tanks
___ Saltwater intrusion
X Road salting
___ Fish, shellfish wastes
X UNKNOWN SOURCE Military WWII

END