ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1992 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: Orca Inlet

Location or Lat/Long: 60°30' N, 146° W

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

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

Waterbody Size:
- ____ Miles
- ____ Acres/Hectares
- ____ Acres/Hectares
- ____ Acres/Hectares
- ____ Square Miles
- 3.0 Miles

Segment of Waterbody Addressed:
From: Heney Creek
To: Fleming Spit
Other Description:
Size of Segment: 3.0 miles (est.)

Period of Assessment, From: March 1990 **To:** March 1992

Type of Documentation (attach if possible):
- [X] Water quality data
- [X] Documented oil spill
- [X] NOV / Enforcement action
- [ ] Photos with documentation
- [X] Photos without documentation
- [ ] Written report
- [X] Field notes
- [X] Overflight
- [X] Observation
- [ ] Other

Describe Source and Nature of Pollution, Documentation Provided and Other Comments:

Within this segment, the following occur:
- Frequent oil spills in small boat harbor (actually 2nd largest commercial harbor in Alaska), aerial photos taken; sediment samples taken in '91: showed TPH > 300 ppm. → Cadmium (At) Fed MCL
- Unlined landfill on tidal flats (numerous DEC reports) - * Note - no specific contam. detected yet, but under study
- Discharge from sewage treatment plant - bacterial increase (NPDES permit)
- Log transfer facility - debris, sedimentation (observation)
- Four seafood processors discharge into Inlet (NPDES permits)
- Runoff from road into various creeks enters marine waters (observation)

RESPONDENT INFORMATION:

Name: Jane Toukin **Phone:** 424-4385 **Date:** 3/24/92
Employer: SOA **Dept:** DEC **Title:** ES II
Address: Box 1465, Cordova, AK 99574
Education/Experience: 4½ yrs. w/ DEC

Orca Inlet, P.2

TYPE AND SEVERITY OF POLLUTANTS AND SOURCES: (Severity; H= High, M= Medium, S= Slight)

POLLUTANTS:

- __ 0 Cause unknown
- __ 1 Unknown toxicity
- __ 2 Pesticides: _____
- __ 3 Priority organics: _____
- __ 4 Nonpriority organics: _____
- __ 5 Metals: _____
- __ 6 Ammonia
- __ 7 Chlorine
- __ 8 Other inorganics
- __ 9 Nutrients
- __ 10 pH
- S 11 Siltation/sedimentation
- __ 12 Low dissolved oxygen
- __ 13 TDS/Salinity/Chlorides
- __ 14 Temperature Modifications
- __ 15 Flow alterations
- __ 16 Other habitat alterations
- __ 17 Pathogens
- __ 18 Radiation
- S 19 Oil and Grease
- __ 20 Taste and odor
- __ 21 Suspended solids
- __ 22 Noxious aquatic plants
- __ 23 Filling and draining
- __ 24 Total toxics
- __ 25 Turbidity
- __ 26 Exotic species
- S 27 Debris, foam, scum, etc.
- __ 28 Insufficient stream structure
- __ 29 Arsenic
- __ 30 Other: _____

SOURCES OF POLLUTANTS (Severity; H= High, M= Medium, S= Slight):

Point Sources:
- S 1 Industrial
- S 2 Municipal
- __ 3 Storm sewers
- __ 4 Combined sewers

Agriculture:
- __ 11 Non-irrigated crop production
- __ 12 Irrigated crop production
- __ 13 Specialty crop production
- __ 14 Pasture land
- __ 15 Range land
- __ 16 Feedlots
- __ 17 Aquaculture
- __ 18 Animal waste/holding areas
- __ 19 Manure lagoons

Silviculture:
- __ 21 Timber harvest
- __ 21 Stream restoration projects
- __ 22 Forest management
- __ 23 Road construction/maintenance
- __ 24 Elimination of stream thermal cover

Construction:
- __ 31 Highway/road
- __ 31 Bridge construction/repair
- __ 32 Land development

Resource Exploration/extraction:
- __ 51 Surface mining
- __ 52 Subsurface mining
- __ 53 Placer mining
- __ 54 Dredge mining
- __ 55 Petroleum activities
- __ 56 Mill tailings
- __ 57 Mine tailings
- __ 58 Gravel mining
- __ 58 Injection wells

Urban Runoff:
- S 40 Surface runoff
- S 40 Storm sewers

Waste Disposal:
- __ 61 Sludge
- __ 62 Wastewater
- S 63 Landfills
- __ 64 Industrial land treatment
- __ 65 Onsite wastewater systems
- __ 66 Hazardous waste
- S 67 Sewage disposal

Hydrologic Modification:
- __ 71 Stream channelization
- __ 72 Dredging
- __ 73 Dam construction
- __ 74 Flow regulation/modification
- __ 75 Bridge construction
- __ 76 Removal of riparian vegetation
- __ 77 Streambank modification
- __ 78 Draining/filling of wetlands

Other:
- __ 81 Atmospheric deposition
- __ 82 Waste storage tank leaks
- S 83 Highway maintenance/runoff
- S 84 Petroleum/chemical spills, leaks
- __ 85 In-place containments
- __ 86 Natural sources
- __ 87 Recreational activities
- __ 88 Upstream impoundment
- __ 89 Salt storage sites
- __ 91 Fire damage/restoration
- __ 92 Underground storage tanks
- __ 93 Aboveground storage tanks
- __ 94 Saltwater intrusion
- __ 95 Road salting
- __ 96 Fish, shellfish wastes
- __ 90 UNKNOWN SOURCE