

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

*** WATERBODY ***

Name of Waterbody: Kotzebue Estuary (Airport Dump)

Location or Lat/Long: 66° 52' 30" 162° 37' 00"

Waterbody Type:

- River/Stream
- Lake
- Fresh Wetland
- Tidal Wetland
- Estuary
- Coastal Shoreline
- Groundwater

Waterbody Size:

- _____ Miles
- _____ Acres/Hectares
- _____ Acres/Hectares
- _____ Acres/Hectares
- 8 Square Miles - Acres
- _____ Square Miles

ADEC USE ONLY

304: N L M S
 WQL: 0 - N
 1 - PS
 2 - NPS
 3 - WQS
 4 - Con/Ent

ID#: _____

Segment of Waterbody Addressed:

From: _____

To: _____

Other Description: _____

Size of Segment: _____

USGS Hydrologic Unit #: AK 190 50403-601

*** ASSESSMENT ***

Describe Source of Pollution and Documentation Provided:

Leachate From Kotzebue City Dump

Type of Documentation (Attached if Possible):

- Water quality data
- Documented oil spill
- Enforcement action
- Photos with documentation
- Photos without documentation
- Written report
- Field notes
- Overflight
- Observation
- Other

Assessment type:

- Monitored
- Evaluated

Violation of Water Quality Standards:

- Past Violation Documented
- Current Violation Documented
- Current Violation Suspected
- Future Violation Projected

Waterbody Status:

- Impaired - Past
- Impaired - Current
- Suspected
- Unimpaired

Comments: _____

Author of This Assessment: CHRIS KENT Affiliation: ADEC Date: 89 09
 YY/MM

Meets Clean Water Act Goals:

- Fishable
- Not Fishable
- Fishable Not Attainable
- Swimmable
- Not Swimmable
- Swimmable Not Attainable

Impaired Uses:

FRESHWATER

- Drinking
- Agriculture
- Aquaculture
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife

MARINE

- Aquaculture
- Seafood Processing
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife
- Harvest of Fish, Shellfish

Support of Designated Uses:

- One or More Uses Not Supported (Impaired)
- One or More Uses Partially Supported (Partially Impaired)
- One or More Uses Suspected to Be Affected (Suspected)
- One or More Uses Projected to Become Affected (Projected)
- All Uses Fully Supported, sources present (Unimpaired)
- All Uses Fully Supported, no sources present (Unimpaired)

Trophic Status:

- Oligatrophic
- Mesatrophic
- Eutrophic
- Hypereutrophic
- Dystrophic
- Unknown

Trophic Trend

- Improving
- Stable
- Deteriorating

*** TOXICS ***

Monitored for Toxics: Yes No

Type of Toxics Monitoring:

- 1 Organics in water column
- 2 Organics in sediments
- 3 Organics in fish tissue
- 4 Organics in discharges
- 5 Pesticides in water column
- 6 Pesticides in sediments
- 7 Pesticides in fish tissue
- 8 Pesticides in discharges
- 9 Metals in water column
- 10 Metals in sediments
- 11 Metals in fish tissue
- 12 Metals in discharges
- 13 Other inorganics in water column
- 99 Other inorganics in sediments
- 99 Other inorganics in fish tissue
- 14 Other inorganics in discharges
- 15 Toxicity testing of water column
- 16 Toxicity testing of sediments
- 17 Toxicity testing of discharges

Fish and Shellfish Contamination:

- 0 None detected
- 1 Contaminated fish
- 2 Fishing advisory
- 3 Fishing ban
- 4 Fish abnormalities
- 5 Shellfish restrictions due to pathogens
- 6 Fish kill

Pollutants: (H = High, M = Medium, S = Slight)

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 0 Cause Unknown | Type _____ | |
| <input type="checkbox"/> 1 Unknown toxicity | Type _____ | |
| <input type="checkbox"/> 2 Pesticides | Type _____ | |
| <input type="checkbox"/> 3 Priority organics | Type _____ | |
| <input type="checkbox"/> 4 Nonpriority organics | Type _____ | |
| <input type="checkbox"/> 5 Metals | Type _____ | |
| <input type="checkbox"/> 6 Ammonia | <input type="checkbox"/> 12 Organic enrichment | <input type="checkbox"/> 18 Radiation |
| <input type="checkbox"/> 7 Chlorine | <input type="checkbox"/> 13 Salinity/TDS/Chlorides | <input type="checkbox"/> 19 Oil and Grease |
| <input type="checkbox"/> 8 Other inorganics | <input type="checkbox"/> 14 Thermal modifications | <input type="checkbox"/> 20 Taste and Odor |
| <input type="checkbox"/> 9 Nutrients | <input type="checkbox"/> 15 Flow alteration | <input type="checkbox"/> 21 Suspended solids |
| <input checked="" type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input type="checkbox"/> 11 Siltation | <input checked="" type="checkbox"/> 17 Pathogens | <input type="checkbox"/> 23 Filling and draining |

Sources of Pollutants: (H = High, M = Medium, S = Slight)

Point Sources

- 1 Industrial
- 2 Municipal
- 3 Municipal pretreatment
- 4 Combined sewers
- 5 Storm sewers
- 6 Other dischargers

Resource extraction/exploration

- 51 Surface mining
- 52 Subsurface mining
- 53 Placer mining
- 54 Dredge mining
- 55 Petroleum activities
- 56 Mill tailings
- 57 Mine tailings

Nonpoint Sources

- 9 Unspecified

Land Disposal (Permitted Activities)

- 61 Sludge
- 62 Wastewater
- 63 Landfills
- 64 Industrial land treatment
- 65 Onsite wastewater systems
- 66 Hazardous waste
- 67 Septage disposal

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 holding areas
- 19 Manure lagoons

Hydrologic Modification

- 71 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

Silviculture

- 21 Harvest, restoration
- 22 Forest management
- 23 Road construction/maintenance

Other

- 81 Atmospheric deposition
- 82 Waste storage/storage tank leaks
- 83 Highway maintenance and runoff
- 84 Spills
- 85 In-place contaminants
- 86 Natural
- 87 Recreational activities
- 88 Upstream impoundment
- 89 Salt storage sites
- 99 Septic tank seepage

Construction

- 31 Highway/road/bridge
- 32 Land development

Urban Runoff

- 41 Storm sewers
- 42 Combined sewers
- 43 Surface runoff

Source Unknown

- 90 Source Unknown

DESCRIBE POLLUTANTS AND POLLUTANT SOURCES. THE BASIS FOR THE DETERMINATION THAT A WATERBODY IS IMPAIRED MUST BE EXPLAINED IN THIS SECTION. DESCRIBE THE NATURE OF THE VIOLATION OF WATER QUALITY STANDARDS, INCLUDING DATA OR OTHER DOCUMENTATION IN RELATION TO STANDARDS. ALSO DESCRIBE WHETHER THE VIOLATION IS CONSIDERED PAST OR CURRENT, AND OTHER RELEVANT INFORMATION.

Landfill Leachate into Estuary.

Multiple horizontal lines for handwritten notes.

Point Sources:

NPDES Permit Number: _____
NPDES Permit Name: _____
Causes Nonattainment: Yes No
Pollutant: _____

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NPDES Permit Name: _____
Causes Nonattainment: Yes No
Pollutant: _____

Nonpoint Sources:

Nonpoint Source Name: _____
Nonpoint Source Type: _____
Nonpoint Source Description: _____

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