

NEW

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Name of Waterbody: Meadow Cr

Type/Size: River/Stream _____ Miles
 Lake _____ Acres/Hectares
 Fresh Wetland _____ Acres/Hectares
 Tidal Wetland _____ Acres/Hectares
 Estuary _____ Square Miles
 Coastal Shoreline _____ Miles
 Groundwater _____

USGS Hydrological Unit #: 190-20505

Location or Lat/Long: Wasilla - 10 mi N.

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

ID#: AK-190-20505-003
3041: N M S
WQL: 0 - N
 1 - PS
 2 - NPS
3 - WQS
4 - Con/Enf
Stat: I U
[ADEC Use Only]

UR ST sm PP
storm sewer

*** ASSESSMENT ***

Assessment Date: Yr 88, Mo 4 / By Kleveno

Sampling: Begin Yr _____, Mo _____ / End Yr _____, Mo _____ / By _____

Reference for Data: _____

Basis for Assessment:
 1 Qualitative, land use/sources
 1 Qualitative, complaints/2nd hand
 2 Predictive models, unverified
 3 Calibrated models
 4 Fixed station data, Bio or Chem
 5 Effluent toxicity testing
 6 Limited site visit
 7 Intensive field assessment

Assessment Category:
 Monitored (Data)
 Evaluated (Judgement)

Next Planned Assessment: Yr _____, Mo _____ / By _____

Comments: _____

mi
Size-A Size-M Support Partial Not-Sup Cause-% Size-10 Size-No Why?

Meets Clean Water Act Goals:

- | | |
|--|---|
| <input type="checkbox"/> Fishable | <input checked="" type="checkbox"/> Swimmable |
| <input type="checkbox"/> Not Fishable | <input type="checkbox"/> Not Swimmable |
| <input type="checkbox"/> Fishable Not Attainable | <input type="checkbox"/> Swimmable Not Attainable |

Impaired or Threatened Uses:

- | <u>IMP</u> <u>THR</u> - FRESHWATER | | <u>IMP</u> <u>THR</u> - MARINE | |
|------------------------------------|--|--------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Drinking | <input type="checkbox"/> | <input type="checkbox"/> Aquaculture |
| <input type="checkbox"/> | <input type="checkbox"/> Agriculture | <input type="checkbox"/> | <input type="checkbox"/> Seafood Processing |
| <input type="checkbox"/> | <input type="checkbox"/> Aquaculture | <input type="checkbox"/> | <input type="checkbox"/> Industry |
| <input type="checkbox"/> | <input type="checkbox"/> Industry | <input type="checkbox"/> | <input type="checkbox"/> Recreation, Contact |
| <input type="checkbox"/> | <input type="checkbox"/> Recreation, Contact | <input type="checkbox"/> | <input type="checkbox"/> Recreation, Secondary |
| <input type="checkbox"/> | <input type="checkbox"/> Recreation, Secondary | <input type="checkbox"/> | <input type="checkbox"/> Fish, Shellfish, Wildlife |
| <input type="checkbox"/> | <input type="checkbox"/> Fish, Shellfish, Wildlife | <input type="checkbox"/> | <input type="checkbox"/> Harvest of Fish, Shellfish |

Support of Designated Uses:

- All Uses Fully Supported, no sources present
- All Uses Fully Supported, sources present
- One or More Uses Threatened
- One or More Uses Partially Supported
- One or More Uses Not Supported

Trophic Status:

- Oligotrophic
- Mesotrophic
- Eutrophic
- Hypereutrophic
- Dystrophic
- Unknown

Trophic Trend:

- Improving
- Stable
- Deteriorating

*** TOXICS ***

Monitored for Toxics: Yes , No

Type of Toxics Monitoring:

- | | |
|---|--|
| <input type="checkbox"/> 1 Organics in water column | <input type="checkbox"/> 10 Metals in sediments |
| <input type="checkbox"/> 2 Organics in sediments | <input type="checkbox"/> 11 Metals in fish tissue |
| <input type="checkbox"/> 3 Organics in fish tissue | <input type="checkbox"/> 12 Metals in discharges |
| <input type="checkbox"/> 4 Organics in discharges | <input type="checkbox"/> 13 Other inorganics in water column |
| <input type="checkbox"/> 5 Pesticides in water column | <input type="checkbox"/> 99 Other inorganics in sediments |
| <input type="checkbox"/> 6 Pesticides in sediments | <input type="checkbox"/> 99 Other inorganics in fish tissue |
| <input type="checkbox"/> 7 Pesticides in fish tissue | <input type="checkbox"/> 14 Other inorganics in discharges |
| <input type="checkbox"/> 8 Pesticides in discharges | <input type="checkbox"/> 15 Toxicity testing of water column |
| <input type="checkbox"/> 9 Metals in water column | <input type="checkbox"/> 16 Toxicity testing of sediments |
| | <input type="checkbox"/> 17 Toxicity testing of discharges |

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

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

Nonpoint Sources

- 9 Unspecified

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

Silviculture

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

Construction

- 31 Highway/road/bridge
- 32 Land development

Urban Runoff

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

Source Unknown

- 90 Source Unknown

Resource extraction/exploration

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

Land Disposal (Permitted Activities)

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

Hydromodification

- 71 Channelization
- 72 Dredging
- 73 Dam construction
- 74 Flow regulation/modification
- 75 Bridge construction
- 76 Removal of riparian vegetation
- 77 Streambank modification

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 Septic tank seepage

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

*** POINT AND NONPOINT SOURCES ***

Point Sources:

- 1 NPDES Permit Number: _____
 NPDES Permit Name: _____
 Causes Nonattainment: Yes , No , Pollutant _____
- 2 NPDES Permit Number: _____
 NPDES Permit Name: _____
 Causes Nonattainment: Yes , No , Pollutant _____
- 3 NPDES Permit Number: _____
 NPDES Permit Name: _____
 Causes Nonattainment: Yes , No , Pollutant _____

Nonpoint Sources:

- 1 Nonpoint Source Name: Urban, Fuel seepage?
 Nonpoint Source Type: _____
 Nonpoint Source Description: _____
- 2 Nonpoint Source Name: _____
 Nonpoint Source Type: _____
 Nonpoint Source Description: _____
- 3 Nonpoint Source Name: _____
 Nonpoint Source Type: _____
 Nonpoint Source Description: _____

[Including extent of impairment of uses; significance of impacts on public health and the environment; water quality trend; efforts to control pollutants; current priority for developing pollutant controls; and adequacy of data]

Fuel seepage from 70's spill

Urban runoff - parking lots, subdics, Parks Hwy

Fish hatchery - formaldehyde, cyanide used in treatment of fish eggs

Houston STP may have discharged slug of contam GW⁸⁵ may have reached cr. this winter