

Meets Clean Water Act Goals:

- | | |
|--|---|
| <input checked="" 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 checked="" type="checkbox"/> Agriculture | <input type="checkbox"/> <input type="checkbox"/> Seafood Processing |
| <input type="checkbox"/> <input checked="" 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 checked="" 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 checked="" 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)

- | | | | |
|---|---|---|--|
| <input type="checkbox"/> 1 Unknown toxicity | | | |
| <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/Chlorine | <input checked="" 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 type="checkbox"/> 10 pH | <input type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants | |
| <input type="checkbox"/> 11 Siltation | <input 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

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:

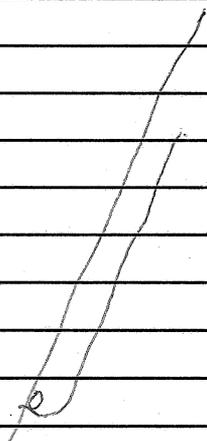
- 1 Nonpoint Source Name: _____
 Nonpoint Source Type: _____
 Nonpoint Source Description: _____

- 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; and current priority for developing pollutant controls]

Location of panels right at mouth of
Shovel Creek.



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

SHORT DATA FORM

Name of Waterbody: Shovel Cr.

Location or Lat/Long: _____

Waterbody Type:

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

Waterbody Size:

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

Segment of Waterbody Addressed:

From: Confluence of Shovel & Solomon
To: _____
Other Description: _____
Size of Segment: _____

Describe Source of Pollution and Documentation Provided:

Old leaking barrels deposited at Shovel Cr. Identified

Type of Documentation (attached if possible):

- | | |
|--|--|
| <input checked="" type="checkbox"/> Water quality data | <input checked="" type="checkbox"/> Written report |
| <input type="checkbox"/> Documented oil spill | <input type="checkbox"/> Field notes |
| <input type="checkbox"/> NOV, Enforcement action | <input type="checkbox"/> Overflight |
| <input type="checkbox"/> Photos with documentation | <input checked="" type="checkbox"/> Observation |
| <input type="checkbox"/> Photos without documentation | <input type="checkbox"/> Other |

Comments:

Voluntary compliance order. Richard Lee has agreed to have toxic barrels removed. Some barrels tested for toxics although water quality sampling did not show violations. supposed to be done this summer.

Author of This Assessment: Bob Maclean

Affiliation: Fairbanks ADFG

Date: 7/20/89

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

- | | | |
|--|--|--|
| <input type="checkbox"/> 0 Cause Unknown | | |
| <input type="checkbox"/> 1 Unknown toxicity | | |
| <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 type="checkbox"/> 10 pH | <input type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input type="checkbox"/> 11 Siltation | <input 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

Construction

- 31 Highway/road/bridge
- 32 Land development

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

Urban Runoff

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

Source Unknown

- 90 Source Unknown

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Name of Waterbody: SHOVEL CREEK ID#: _____
 Type/Size: River/Stream 12 Miles 3041: N L M S
 Lake _____ Acres/Hectares WQL: 0 - N
 Fresh Wetland _____ Acres/Hectares 1 - PS
 Tidal Wetland _____ Acres/Hectares 2 - NPS
 Estuary _____ Square Miles 3 - WQS
 Coastal Shoreline _____ Miles 4 - Con/Enf
 Groundwater _____ Miles Stat: I T U
 [ADEC Use Only]

USGS Hydrological Unit #: 190-50104

Location or Lat/Long: TRIBUTARY OF SOLOMON RIVER

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

*** ASSESSMENT ***

Assessment Date: Yr 88, Mo 4 / By NOME D.O.
 Sampling: Begin Yr _____, Mo _____ / End Yr _____, Mo _____ / By _____
 Reference for Data: _____

Basis for Assessment: Assessment Category:
 1 Qualitative, land use/sources Monitored (Data)
 1 Qualitative, complaints/2nd hand Evaluated (Judgement)
 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

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

Comments: NOME BARREL DUMP, EPA. TAT TEAM
PRIORITY POLLUTANTS DATA

Size-A Size-M Support Partial Cause-% Size-5/10 Size-No Why?

Meets Clean Water Act Goals:

- | | |
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Impaired or Threatened Uses:

IMP THR - FRESHWATER

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

IMP THR - MARINE

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

Support of Designated Uses:

- All Uses Fully Supported, no sources present
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Trophic Status:

Lakes only

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

Trophic Trend:

- Improving
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*** TOXICS ***

Monitored for Toxics: Yes , No

Type of Toxics Monitoring:

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- 3 Fishing ban
- 4 Fish abnormalities
- 5 Shellfish restrictions due to pathogens
- 6 Fish kill

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

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Nonpoint Source Description: _____

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

