

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

SHORT DATA FORM

Name of Waterbody: Crow Cr.

Location or Lat/Long: 120401-023

Waterbody Type:

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

Waterbody Size:

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

Segment of Waterbody Addressed:

From: Headwaters of Crow Cr.

To: Confluence with Glacier Cr.

Other Description: _____

Size of Segment: _____

Describe Source of Pollution and Documentation Provided: Gravel/Gold Mine (Girdwood Mining Co) operated at headwaters - problems with NPDES permit resulted in NOV/EPA enforcement action summer 1987. Company declared bank rupt so mine has not operated past 2 summers.
Narrow dirt road, runs along creek, also sporadic construction activity.
Complaints from public & ADF&G during mining activity.

Type of Documentation (attached if possible):

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

Comments:

Milk Cr is a glacial stream w/ high natural sediment that flows into Crow Cr. Sometimes complaints of mining activity causing increased sediment in creek were actually natural sediment loads.
Field activities on mining were done summer 1987. To Joe's knowledge, mine has not operated since that summer.

Author of This Assessment: Joe Sautner Affiliation: ADEC-SOEO Date: 8-2-89
(per phone conversation w/ Susan Bailey 8-2-89)

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

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

*** WATERBODY ***

Page 1 of 4

Name of Waterbody: Crow Creek

Location or Lat/Long: Trib. to Glacier Cr.

Waterbody Type:

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

Waterbody Size:

- 6 Miles
- _____ Acres/Hectares
- _____ Acres/Hectares
- _____ Acres/Hectares
- _____ Square Miles
- _____ 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: Headwaters of Crow Cr.

To: confluence with Glacier Cr.

Other Description: _____

Size of Segment: _____

USGS Hydrologic Unit #: AK 190 20401-023

*** ASSESSMENT ***

Describe Source of Pollution and Documentation Provided: Gravel/Gold Mine operated at headwaters - problems with NPDES permit resulted in NOV/EPA enforcement action the summer of 1987, company declared bankrupt so mine has been inactive since then.
Narrow dirt road runs along Creek, also sporadic construction activity. Complaints from public & ADF&G.

Type of Documentation (Attached If Possible):

- Water quality data
- Documented oil spill
- Enforcement action - Point Source
- Photos with documentation
- Photos without documentation
- Written report
- Field notes - 1987
- 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: Milk Cr. is a glacial stream that flows into Crow Cr.; has high natural sediment load, sometimes cause complaints that are mistaken for mining activity.

Author of This Assessment: S. Braley Affiliation: ADEC/wqm Date: 8/9/09
 YY/MM

Meets Clean Water Act Goals:

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

Suspected

Impaired Uses:

FRESHWATER	MARINE
<input checked="" type="checkbox"/> Drinking	<input type="checkbox"/> Aquaculture
<input type="checkbox"/> Agriculture	<input type="checkbox"/> Seafood Processing
<input type="checkbox"/> Aquaculture	<input type="checkbox"/> Industry
<input type="checkbox"/> Industry	<input type="checkbox"/> Recreation, Contact
<input checked="" type="checkbox"/> Recreation, Contact	<input type="checkbox"/> Recreation, Secondary
<input checked="" type="checkbox"/> Recreation, Secondary	<input type="checkbox"/> Fish, Shellfish, Wildlife
<input type="checkbox"/> Fish, Shellfish, Wildlife	<input type="checkbox"/> 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:

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

Trophic Trend

- Improving
- Stable
- Deteriorating

*** TOXICS ***

Monitored for Toxics: Yes No

Type of Toxics Monitoring: *arsenic*

<input checked="" 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

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 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 checked="" type="checkbox"/> 15 Flow alteration | <input checked="" type="checkbox"/> 21 Suspended solids |
| <input type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input checked="" type="checkbox"/> 11 Siltation | <input type="checkbox"/> 17 Pathogens | <input checked="" 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.

past violations in sediment due to mining activity.

Also increased sediment from nearby dirt road and sporadic construction.

Complaints from Public & ADF&G.

Point Sources:

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

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

Nonpoint Sources:

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

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

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Page 1 of 5

Glacier Cr.

Name of Waterbody: Crow Creek ID#: ^{AK} 190 20401 013

Type/Size: River/Stream 6 Miles *Flows to Glacier Creek* GS#: _____
 Lake _____ Acres/Hectares HQW: N L M S
 Fresh Wetland _____ Acres/Hectares WQL: 0 - N
 Tidal Wetland _____ Acres/Hectares 1 - PS
 Estuary _____ Square Miles 2 - NPS
 Coastal Shoreline _____ Miles 3 - WQS
 Groundwater _____ Miles 4 - Con/Enf

USGS Hydrological Unit #: 190- 20401 [ADEC Use Only]
I
LD, PM

Location or Lat/Long: Anchorage, AK

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

*** ASSESSMENT ***

RZ

Assessment Date: Yr 88 , Mo 04 / By James Cross, MOA/DHHS

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

Reference for Data: MOA/DHHS

Assessment Type: 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: _____

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

Meets Clean Water Act Goals:

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

Impaired or Threatened Uses:

IMP THR - FRESHWATER		IMP THR - MARINE	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking		Aquaculture	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agriculture		Seafood Processing	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aquaculture		Industry	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industry		Recreation, Contact	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recreation, Contact		Recreation, Secondary	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recreation, Secondary		Fish, Shellfish, Wildlife	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fish, Shellfish, Wildlife		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:	Trophic Trend:
<input type="checkbox"/> Oligatrophic	<input type="checkbox"/> Improving
<input type="checkbox"/> Mesatrophic	<input type="checkbox"/> Stable
<input type="checkbox"/> Eutrophic	<input type="checkbox"/> Deteriorating
<input type="checkbox"/> Hypereutrophic	
<input type="checkbox"/> Dystrophic	
<input type="checkbox"/> Unknown	

*** TOXICS ***

Monitored for Toxics: Yes , No

Types 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 H2O col
<input type="checkbox"/> 5 Pesticides in water column	<input type="checkbox"/> 99 Other inorganics in sedimnt
<input type="checkbox"/> 6 Pesticides in sediments	<input type="checkbox"/> 99 Other inorganics in fish ts
<input type="checkbox"/> 7 Pesticides in fish tissue	<input type="checkbox"/> 14 Other inorganics in dscgs
<input type="checkbox"/> 8 Pesticides in discharges	<input type="checkbox"/> 15 Toxicity testing of water
<input type="checkbox"/> 9 Metals in water column	<input type="checkbox"/> 16 Toxicity testing of sediment
	<input type="checkbox"/> 17 Toxicity testing of dscgs

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

- | | | | |
|-----------------------|-------------------------|--------------------------|--|
| __1 Unknown toxicity | | | |
| __2 Pesticides | Type | _____ | |
| __3 Priority organics | Type | _____ | |
| __4 Nonpriority organ | Type | _____ | |
| __5 Metals | Type | _____ | |
| __6 Ammonia | __12 Organic enrichment | __18 Radiation | |
| __7 Chlorine | __13 Salinity/TDS/Chlor | __19 Oil and Grease | |
| __8 Other inorganics | __14 Thermal modificatn | __20 Taste and Odor | |
| __9 Nutrients | __15 Flow alteration | H_21 Suspended solids | |
| __10 pH | __16 Habitat alteration | __22 Noxious aqua plants | |
| H_11 Siltation | __17 Pathogens | H_23 Filling and drain | |

Pollutant Categories: (H = High, M = Medium, S = Slight)

Point Sources

- __1 Industrial
- __2 Minicipal
- __3 Municipal pretreatment
- __4 Combined sewers
- __5 Storm sewers

Nonpoint Sources

- M_9 Unspecified

Agriculture

- __11 Non-irrig 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/maint

Construction

- __31 Highway/road/bridge
- H_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
- H_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:
[X] 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 ***

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 _____

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: _____

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Page 1 of 5

Using Glacier Creek

Name of Waterbody: Crow Cr (Glacier Cr) ^{A2}

Type/Size: River/Stream _____ Miles
 Lake _____ Acres/Hectares
 Fresh Wetland _____ Acres/Hectares
 Tidal Wetland _____ Acres/Hectares
 Estuary _____ Square Miles
 Coastal Shoreline 10 Miles
 Groundwater _____

USGS Hydrological Unit #: 190-20401

Location or Lat/Long: Girdwood

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

ID#: AK 190 20401-002
 3041: M S
 WQL: 0 - N
 1 - PS
 2 - NPS
 3 - WQS
 4 - Con/Enf
 Stat: T U
 [ADEC Use Only]

Pm Sm

*** ASSESSMENT ***

Assessment Date: Yr 88 , Mo 4 / By Sautner

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:
p2 Monitored (Data)
 Evaluated (Judgement)

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

Comments: Samples repeatedly out of compliance w Turb, SS, Arsenic.
Many citizen complaints
One operator

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

Meets Clean Water Act Goals:

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

Impaired or Threatened Uses:

- | <u>IMP</u> | <u>THR</u> - FRESHWATER | <u>IMP</u> | <u>THR</u> - MARINE |
|-------------------------------------|--|--------------------------|---|
| <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/> Recreation, Contact | <input type="checkbox"/> | <input type="checkbox"/> Recreation, Secondary |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Recreation, Secondary | <input type="checkbox"/> | <input type="checkbox"/> Fish, Shellfish, Wildlife |
| <input checked="" 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:

Arsenic

- 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

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 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 checked="" type="checkbox"/> 15 Flow alteration | <input type="checkbox"/> 21 Suspended solids |
| <input type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input checked="" 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: Cordwood Mining Co
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: _____

