

# MEMORANDUM

State of Alaska

DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Northern Regional Office

TO: Dave Sturdevant  
Environmental Specialist  
ADEC/Juneau

DATE: March 25, 1992

FILE NO: Correspondence

TELEPHONE NO: 451-2360

FROM: Conrad Christianson *CPC*  
Environmental Engineer  
ADEC/Fairbanks

SUBJECT: 305(b) List,  
Placer Streams

Forwarded under separate cover are data sheets for placer streams which may be included in the 305(b) List. The streams were selected by agreement during a meeting of the following individuals on March 17, 1992:

Scott Ray, Div. of Water, ADNR  
Al Townsend, Mac McLean, Habitat Div., ADF&G  
John Wood, Div. of Mining, ADNR  
Paul Bateman, Ron McCallister, Conrad Christianson, ADEC

The stream selections were based on repeated observations of water quality violations, available water quality data and the best professional judgement of the individuals involved. The following streams were selected:

Bear Creek, Tributary of the Hogatza River.  
Birch Creek, above Harrison Creek, Northeast of Fairbanks.  
Crooked Creek, near Central.  
Fish Creek, Tributary of the Little Chena River, near Fairbanks.  
Goldstream Creek, below Fox Creek, near Fairbanks.  
Illinois Creek, Tributary of the Yukon River, Melozitna Quad.  
Ketchum Creek, Tributary of Crooked Creek, near Central  
Minook Creek, Tributary of the Yukon River, Tanana Quad.  
Moose Creek, Tributary of the Fortymile River, source of  
pollution - placer operations in Canada.

~~The consensus of the group was that it would not be appropriate to apply TMDL's to placer streams at this time, therefore, no streams were selected for inclusion on the 303(d) TMDL list.~~

cc: Al Ott  
Pete McGee  
Scott Ray  
John Wood

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ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
1992 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: Illinois Creek

Location or Lat/Long: 65° 12' 153° 04'

Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?:

Yes /  No / Name: \_\_\_\_\_

Waterbody Type:

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

Waterbody Size:

- 10 Miles
- \_\_\_\_\_ Acres/Hectares
- \_\_\_\_\_ Acres/Hectares
- \_\_\_\_\_ Acres/Hectares
- \_\_\_\_\_ Square Miles
- \_\_\_\_\_ Miles

Segment of Waterbody Addressed:

- From: \_\_\_\_\_
- To: Confluence w/ Yukon R.
- Other Description: \_\_\_\_\_
- Size of Segment: \_\_\_\_\_

Period of Assessment, From: \_\_\_\_\_ To: \_\_\_\_\_

Type of Documentation (attach if possible):

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Water quality data | <input 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                  |

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

See attached assessment sheets from 1988.

Documentation includes observation during two mine inspections and grab samples for BNP inspection by ADEC personnel plus observations by other agency personnel.

RESPONDENT INFORMATION:

Name: See cover memo Phone: \_\_\_\_\_ Date: \_\_\_\_\_

Employer: \_\_\_\_\_ Dept: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

Education/Experience: \_\_\_\_\_

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

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

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

- 1 Industrial
- 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
- 59 Injection wells

**Urban Runoff:**

- 40 Surface runoff
- 40 Storm sewers

**Waste Disposal:**

- 61 Sludge
- 62 Wastewater
- 63 Landfills
- 64 Industrial land treatment
- 65 Onsite wastewater systems
- 66 Hazardous waste
- 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
- 83 Highway maintenance/runoff
- 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
- 99 UNKNOWN SOURCE

## Illinois Cr

## Illinois Cr

Inspected 7-24-91 - Out of Compliance  
No Samples Taken

Inspected 9-24-91

	SS	Turb	AS
14:45 Illinois Upstream from Golden	None	0.63	<DL
14:55 Illinois Downstream from Golden (Mixing zone)	<0.1	200. UTA	<DL
15:15 Golden Cr. up from Illinois	70.1 <0.2	420. NTA	8.8
16:00 Golden upstream from Mining	None	0.42	<DL