

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

\*\*\* WATERBODY \*\*\*

Page 1 of 5

Name of Waterbody: <u>Meadow Lake</u>	ID#: <u>AK 190 20401 415</u>
Type/Size: [ ] River/Stream <u>650' long</u> Miles	GS#: _____
[X] Lake _____ Acres/Hectares	3041: N <input checked="" type="radio"/> L M S
[ ] Fresh Wetland _____ Acres/Hectares	HQW: Y N
[ ] Tidal Wetland _____ Acres/Hectares	WQL: 0 - N
[ ] Estuary _____ Square Miles	1 - PS
[ ] Coastal Shoreline _____ Miles	<input checked="" type="radio"/> 2 - NPS
[ ] Groundwater _____	<input checked="" type="radio"/> 3 - WQS
	4 - Con/Enf
	[ADEC Use Only]
USGS Hydrological Unit #: 190- <u>20401</u>	<u>UR</u>
Location or Lat/Long: <u>Anchorage, AK</u>	
Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?: [ ] Yes, [X] No, Name _____	

\*\*\* ASSESSMENT \*\*\*

Assessment Date: Yr <u>88</u> , Mo <u>04</u> / By <u>James Cross, MOA/DHHS</u>
Sampling: Begin Yr <u>85</u> , Mo <u>06</u> / End Yr _____ , Mo _____ / By _____
Reference for Data: <u>MOA/DHHS</u>
Assessment Type:
[ ] 1 Qualitative, land use sources
[ ] 1 Qualitative, complaints/2nd hand
[ ] 2 Predictive models, unverified
[ ] 3 Calibrated models
[X] 4 Fixed station data, Bio or Chem
[ ] 5 Effluent toxicity testing
[ ] 6 Limited site visit
[ ] 7 Intensive field Assessment
Assessment Category:
[X] Monitored (Data)
[ ] Evaluated (Judgement)
Next Planned Assessment: Yr _____ , Mo _____ / By _____
Comments: _____
_____
_____
_____

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



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    | __21 Suspended solids    |
| __10 pH               | __16 Habitat alteration | __22 Noxious aqua plants |
| __11 Siltation        | S_17 Pathogens          | __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

- S\_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
- \_\_32 Land development

Urban Runoff

- \_\_41 Storm sewers
- \_\_42 Combined sewers
- S\_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 \*\*\*

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

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

\*\*\* WATERBODY \*\*\*

Name of Waterbody: Meadow LAKE

Location or Lat/Long: NEAR Anchorage AK 61° 10' 03" 149° 57' 35"

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<b>Waterbody Type:</b>	<b>Waterbody Size:</b>	<b>ADEC USE ONLY</b> 304: N L M S WQL: 0 - N 1 - PS 2 - NPS 3 - WQS 4 - Con/Ent ID#: _____
<input type="checkbox"/> River/Stream	_____ Miles	
<input checked="" type="checkbox"/> Lake	_____ Acres/Hectares	
<input type="checkbox"/> Fresh Wetland	_____ Acres/Hectares	
<input type="checkbox"/> Tidal Wetland	_____ Acres/Hectares	
<input type="checkbox"/> Estuary	_____ Square Miles	
<input type="checkbox"/> Coastal Shoreline	_____ Square Miles	
<input type="checkbox"/> Groundwater	_____ Square Miles	

**Segment of Waterbody Addressed:**  
 From: \_\_\_\_\_  
 To: \_\_\_\_\_  
 Other Description: \_\_\_\_\_  
 Size of Segment: \_\_\_\_\_

USGS Hydrologic Unit #: AK 190 - 20401-415

\*\*\* ASSESSMENT \*\*\*

**Describe Source of Pollution and Documentation Provided:**  
Urban runoff from land development

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**Type of Documentation (Attached 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"/> Enforcement action	<input type="checkbox"/> Overflight
<input type="checkbox"/> Photos with documentation	<input type="checkbox"/> Observation
<input type="checkbox"/> Photos without documentation	<input type="checkbox"/> Other

**Assessment type:**  
 Monitored  
 Evaluated

**Violation of Water Quality Standards:**

<input type="checkbox"/> Past Violation Documented	<b>Waterbody Status:</b>
<input type="checkbox"/> Current Violation Documented	<input type="checkbox"/> Impaired - Past
<input checked="" type="checkbox"/> Current Violation Suspected	<input type="checkbox"/> Impaired - Current
<input type="checkbox"/> Future Violation Projected	<input checked="" type="checkbox"/> Suspected
	<input type="checkbox"/> Unimpaired

**Comments:** See James Cross MOA/AHHS

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**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 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 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 checked="" 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 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.

Lined area for writing comments, consisting of approximately 25 horizontal lines.

**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: \_\_\_\_\_

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