STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL ORDER 601

X Closing Lands to Mineral Entry  ____ Opening Lands to Mineral Entry

I. Name  Tanana Basin

II. This mineral order is based upon the attached Commissioner's Finding and the written documentation contained in:

- Area Plan: Tanana Basin Area Plan - 1990 Update Dated 11/30/90
- Management Plan: Dated ______
- Site Specific Plan: Dated ______
- Other: Dated ______

III. File Number  Legal Description  Acreage

MCO 601 SEE ATTACHED MAPS AND ATTACHMENT 1

IV. This order is subject to valid existing rights and issued under the authority granted by AS 38.05.185 - 38.05.275 to the Department of Natural Resources. The above described lands are hereby X closed ___ opened to entry under the locatable mineral and mining laws of the State of Alaska.

Concur:  
Director  
Division of Land and Water Management

11-29-90

Date

Concur:  
Director  
Division of Mining

11-29-90

Date

Approved:  
Commissioner

12/3/90

Effective Date

10-1019 (01-89)
The Tanana Basin Area Plan (TBAP), developed in accordance with A.S. 38.04.065, identifies certain areas to be closed to new locatable mineral entry because mining activity would not be compatible with significant surface uses (A.S. 38.05.185). The areas to be closed are state-owned or state-selected lands at: 1) The Delta/Clearwater River and adjacent uplands, 2) the mouth of the Delta River and adjacent uplands, and 3) the west end of Fielding Lake and adjacent uplands. These are areas of significant surface use, and the state is committed to take all reasonable actions necessary to preclude the creation of any new third-party interests in these lands, including mining claims and leasehold locations. These closures have been given public review through the Tanana Basin Area Plan planning process.

1) The Delta/Clearwater River

This closure encompasses both the Delta-Clearwater River and Clearwater Lake. Clearwater Lake, and the lower Delta-Clearwater River are in a region of upwelling water from the alluvial fan of the Delta and Gerstle Rivers. This water makes these areas some of the few waterbodies in interior Alaska that remain open year-round. As a result, they are extremely important as spawning areas (and for Clearwater Lake, as a Coho salmon rearing area) for late-run salmon. In addition, Clearwater Lake provides nesting habitat and is an important spring staging area for waterfowl.

The Delta-Clearwater River is recommended for legislative designation as a State Recreation River because of its high recreation values and its importance to the fish and wildlife habitat.

The Delta/Clearwater River, Clearwater Lake, and the adjacent uplands are crucial to the continued health of these fish and wildlife populations. Any mining activity in these uplands or shorelands would have a detrimental impact on the fish and wildlife populations and public recreation use of that area. Mining in the above-referenced areas is incompatible with the fish and wildlife population's continued existence, and is contrary to Tanana Basin Area Plan land management policies for fish and wildlife habitat.

2) The Delta River.

The lower mile of the Delta River is fed by upwelling spring water after summer flows in the river subside. This area of flowing clean water is one of the few spawning areas available for fall run chum salmon. This area serves as one of the two major fall chum spawning areas within the Yukon drainage.

Because of its importance for salmon habitat, and to protect the habitat from potentially incompatible uses, this area is recommended for legislative designation as a State Critical Habitat Area.
The mouth of the Delta River and the adjacent uplands are crucial to the continued health of the Yukon chum salmon population. Any mining activity in these uplands or shorelands would have a detrimental impact on the fish populations of that area. Mining in the above-referenced areas is incompatible with the fish population's continued existence, and is contrary to Tanana Basin Area Plan land management policies for fish and wildlife habitat.

3) Fielding Lake.

This highly scenic area provides opportunities for both recreational activity on Fielding Lake and year round backcountry exploration. Due to the lack of trees, high water table and permafrost, the area is very susceptible to degradation. The area is currently managed to protect the integrity of the landscape and maintain recreational values.

To recognize these outstanding recreation values, Fielding Lake and adjacent uplands were recommended for legislative designation in the 1985 Tanana Basin Area Plan and were closed to mineral entry. During the 1990 update of the Tanana Basin Area Plan, the boundaries of this recommendation were changed to include approximately 3,520 acres to the west of Fielding Lake to include the west end of the lake and adjacent uplands. Any mining activity in these uplands would have a detrimental impact on the recreational and scenic values of that area. Mining in the above-referenced area is incompatible with these recreation and scenic values and is contrary to Tanana Basin Area Plan land management policies for recreation.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the closure to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Closing Order #601. This closure is subject to valid existing rights.

COMMISSIONER

Department of Natural Resources

Date 12/3/90
ATTACHMENT 1
LEGAL DESCRIPTIONS OF LANDS CLOSED TO NEW MINERAL ENTRY
FOR MINERAL ORDER #601

1). DELTA/CLEARWATER RIVER

9S 11E, F.M.
Sec. 28: SE1/4NW1/4
E1/2SW1/4,
that portion of the SE1/4 west of the left bank of
the Tanana River;
that portion of the NE1/4 west of the left bank of
the Tanana River;
Sec. 32: SE1/4NE1/4
E1/2SE1/4;
Secs. 33-36: All.

10S 11E, F.M.
Sec. 1: All
Sec. 2: N1/2, NE1/4SW1/4, N1/2NW1/4SW1/4, E1/2SE1/4,
NW1/4SE1/4, N1/2SW1/4SE1/4, N1/2S1/2SW1/4SE1/4;
Sec. 3: N1/2, NE1/4NE1/4SE1/4;
Sec. 4: Lots 1-3, 13-15, and all of Clearwater Lake within
the N1/2.

10S 12E, F.M.
Sec. 2: Lot 1;
Sec. 3: Lots 1 and 2;
Sec. 4: Lots 1-4;
Sec. 5: Lots 1-4, NW1/4SW1/4, S1/2SW1/4;
Sec. 6: Lots 1-7, SW1/4NE1/4, SE1/4NW1/4, E1/2SW1/4, SE1/4;
Sec. 7: Lots 1, 4, 5, 6, 7, 8, 9, 11, 16, USS 5477,
N1/2NE1/4, SW1/4NE1/4, NE1/4NW1/4, and Clearwater
Creek;
Sec. 8: N1/2, N1/2SE1/4, SE1/4SE1/4, Lots 1, 2, 5, and 7
and Clearwater Creek;
Sec. 9: N1/2, N1/2S1/2, SW1/4SW1/4, Lots 1, 2, and 3 and
Clearwater Creek;
Sec. 10: Lots 1-5, S1/2NE1/4, S1/2NW1/4, NW1/4NW1/4,
N1/2SW1/4, SE1/4SW1/4, SE1/4, and Clearwater Creek;
Sec. 11: Lots 1-4, S1/2NW1/2, S1/2;
Sec. 12: Lots 1-5, SW1/4NE1/4, S1/2NW1/4, S1/2;
Secs. 13-15: All
Sec. 16: Lots 4, 6 and Clearwater Creek;
Sec. 17: Lots 1, 2, 3, 6 and Clearwater Creek;
Secs. 23-25: All
Sec. 26: E1/2, NE1/4NW1/4;
Sec. 35: NE1/4, E1/2NW1/4;
Sec. 36: N1/2, SE1/4, E1/2SW1/4, NW1/4SW1/4.
1). DELTA/CLEARWATER RIVER (continued)

10S 13E, F.M.
Sec. 7: SW1/4, W1/2SE1/4, SE1/4SE1/4, that portion of the S1/2N1/2 south of the left bank of the Tanana River, that portion of the NE1/4SE1/4 south of the left bank of the Tanana River;
Sec. 8: that portion of the SW1/4 south of the left bank of the Tanana River; that portion of the SE1/4 south of the left bank of the Tanana River;
Secs. 17-20: All;
Sec. 28: S1/2, NW1/4,
Secs. 29-33: All;
Sec. 34: W1/2.

11S 13E, F.M.
Secs. 3-6: All;
Sec. 7: Tracts A, B, and C;
Sec. 8: All;
Sec. 9: W1/2, Tracts A and B;
Sec. 10: NW1/4NW1/4NW1/4;
Sec. 16: NW1/4NW1/4;
Sec. 17: Tracts A and B;
ASLS 78-93: Tract X (Sawmill Creek Reserve).

2). DELTA RIVER

T9S R10E, F.M.
Section 7: N1/2
N1/2S1/2

Section 8: that portion of the SW1/4NW1/4NW1/4 lying southwesterly of the Richardson Highway, Lots 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 29, 30, 31 & 32, that portion of the Delta River lying in the NW1/4SW1/4 and in the NW1/4, E1/2NW1/4SW1/4.
3). FIELDING LAKE

T20S R10E, F.M.
  Section 13: SE1/4
  Section 24: S1/2
      NE1/4
  Section 25: all
  Section 26: SE1/4
  Section 35: E1/2
  Section 36: all

T21S R10E, F.M.
  Section 1: all
  Section 2: E1/2
  Section 12: NE1/4
## ATTACHMENT 2
DESCRIPTIONS AND LOCATIONS
FOR MINERAL CLOSING ORDER #601

<table>
<thead>
<tr>
<th>Township &amp; Range</th>
<th>Subunit</th>
<th>Name</th>
<th>Acreage</th>
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<td>Delta/Clearwater River</td>
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<td>T9S R10E FM</td>
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<td>Delta River</td>
<td>547</td>
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<td>T20S R10E FM</td>
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<td>Fielding Lake</td>
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<td><strong>20,017</strong></td>
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Appendix C - Mineral Orders

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL ORDER 483 Amendment 1

Closing Lands to Mineral Entry  x  Opening Lands to Mineral Entry

I. Name  Robertson River

II. This mineral order is based upon the attached Commissioner's Finding and the written documentation contained in:

Area Plan:  Tanana Basin Area Plan 1990 Update  Dated 11/30/90
Management Plan:  
Site Specific Plan:  
Other:  

III. File Number  Legal Description  Acreage
Mineral Order 483  All state lands previously closed to mineral entry
Amendment 1  by Mineral Order 483 (and are not closed by
(Opening)  other mineral orders) within township T20N R7E
CRM (see attached map).

All state lands previously closed to mineral entry
by Mineral Order 483 (and are not closed by
other mineral orders) within township T20N R8E
CRM except for sections 4, 9, 10, 15, and 16
(see attached map).

IV. This order is subject to valid existing rights and issued under the
authority granted by AS 38.05.185 - 38.05.275 to the Department of
Natural Resources. The above described lands are hereby  closed
x opened to entry under the locatable mineral and mining laws of the
State of Alaska.

Concur:  

Director
Division of Land and Water Management
11-29-90  Date

Concur:  

Director
Division of Mining
11/29/90  Date

Approved:  

Commissioner
12/3/90  Effective Date

10-1019 (01-89)

Tanana Basin Area Plan  C-11
TANANA BASIN AREA PLAN
FINDING OF THE COMMISSIONER
FOR MINERAL OPENING ORDER #483 Amendment 1
A.S. 38.05.185 (a)

To recognize its outstanding recreation values, the 1985 Tanana Basin Area Plan recommended a portion of Robertson River and adjacent uplands for legislative designation as a state recreation area. The plan also determined that mining within this corridor was incompatible with these recreation values, and closed this portion of the Robertson River to mineral entry by Mineral Order #483.

During the 1990 update of the Tanana Basin Area Plan, it was recognized that a much larger area was used for recreation than originally identified in 1985. Public support for legislative designation was much stronger in other locations in the planning area where potential conflicts with mineral entry are much more significant. It was determined that the recreational values of the Robertson River area could be adequately protected without legislative designation and mineral closure.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the Opening to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Opening Order #483 Amendment 1.

[Signature]
COMMISSIONER
Department of Natural Resources
12/3/94 Date
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL ORDER 510 Amendment 1

Closing Lands to Mineral Entry  X  Opening Lands to Mineral Entry

I. Name  Nanana River

II. This mineral order is based upon the attached Commissioner’s Finding and the written documentation contained in:

Area Plan:  Tanana Basin Area Plan 1990 Update Dated

Management Plan: ___________________________ Dated

Site Specific Plan: ___________________________ Dated

Other: ________________________________ Dated

III. File Number  Legal Description  Acres

Mineral Order 510 Amendment 1 (Opening)

All state lands that were previously closed to mineral entry by Mineral Order 510 (and are not closed by other mineral orders) within the following townships (see attached map): T12S R8W FM, T11S R7W FM, T11S R8W FM, T10S R8W FM, T9S R8W FM, T9S R9W FM, T8S R9W FM.

All state lands that were previously closed to mineral entry by Mineral Order 510 (and are not closed by other mineral orders) within township T12S R7W FM north of the Usibelli Spur Road (see attached map).

IV. This order is subject to valid existing rights and issued under the authority granted by AS 38.05.185 - 38.05.275 to the Department of Natural Resources. The above described lands are hereby ___ closed X opened to entry under the locatable mineral and mining laws of the State of Alaska.

Concur:  
Director
Division of Land and Water Management

Concur:  
Director
Division of Mining

Approved:  
Commissioner

10-1019 (01-89)

10-1019 (01-89)
To recognize its outstanding recreation and scenic values, the Tanana Basin Area Plan (TBAP) recommended the Nenana River Corridor for legislative designation as a state recreation river. TBAP also determined that mining within this corridor was incompatible with these recreation and scenic values, and closed the Nenana River Corridor to mineral entry by Mineral Order #510.

During the 1990 update of TBAP, it was determined that these recreational and scenic values of that portion of the Nenana River Corridor north of Healy were significantly less than for the remainder of the river corridor. This portion of the river corridor sees less recreational activity and is considerably more developed than the corridor south of Healy. The 1990 update of TBAP determined that the Nenana River Corridor north of Healy did not warrant legislative designation, and that mining could be compatible with its current uses.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the Opening to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Opening Order #510 Amendment 1.
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL LEASEHOLD LOCATION ORDER NO. 14

1.0 ORDER RESTRICTING TO LEASEHOLD LOCATION

After the effective date of this order (see paragraph 5), and unless otherwise closed to mineral entry, rights to locatable minerals in the land covered by this order may be acquired only under the leasehold location system, AS 38.05.205, and may not be acquired by locating a mining claim under AS 38.05.195.

2.0 THE LAND SUBJECT TO THE TERMS OF THIS ORDER IS DESCRIBED AS FOLLOWS:
(Attach additional sheets as necessary.)

<table>
<thead>
<tr>
<th>Legal Description</th>
<th>Acreage</th>
</tr>
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<tbody>
<tr>
<td>SEE ATTACHED MAP AND ATTACHMENT 1</td>
<td>59,520</td>
</tr>
</tbody>
</table>

3.0 AUTHORITY FOR THIS ORDER

This order is issued under the authority granted by AS 38.05.185 to the Department of Natural Resources for the State of Alaska.

4.0 FINDINGS AND DETERMINATIONS

The following findings and determinations are made: (Only those findings and determinations which are preceded by a checkmark in the box are applicable to this order.)
4.1 The land described in paragraph 2.0 is found and determined to be subject to potential use conflicts which require that mining be allowed only under written leases issued under AS 38.05.205. These potential use conflicts include, but are not necessarily limited to, the following: (Attach additional sheets if necessary.)

These lands encompass 14 mineral licks which are heavily used by Dall sheep and other wildlife. Although the specific biological function of mineral licks for wildlife is not known for each site, their intensive and regular use suggests an important role. Areas adjacent to the mineral licks support Dall sheep resting areas and heavily-used converging trails. Mineral licks can also be an indicator of mineral value.

Because of the potential mineralized nature of these areas, mining may be an important use of these lands. Mining activity within these lands must avoid direct impacts on the licks and the trails leading to the licks, and mitigate other negative impacts. Leasehold location is an appropriate measure to allow mineral development to occur with minimal impacts on the mineral licks.

4.2 The land described in paragraph 2.0 is found and determined to have been mineral in character at the time of state selection.

5.0 EFFECTIVE DATE

This order is effective as of:

5.1 __________________ (thirty days after the first public notice of this action).

5.2 The following (later) date: November 30, 1990________.

Dated: 11-29-90

Director, Division of Land & Water Management

Dated: 11/29/90

Director, Division of Mining

Approved and ratified by:

COMMISSIONER, DEPARTMENT OF NATURAL RESOURCES

Dated: 12/3/90
ATTACHMENT 1
LEGAL DESCRIPTION OF LANDS SUBJECT TO LEASEHOLD LOCATION
FOR MINERAL LEASEHOLD LOCATION ORDER #14

MINERAL LICKS

T13S R12E, F.M.
Section 31: E1/2
Section 32: all
Section 33: all
Section 34: W1/2

T13S R11E, F.M.
Section 11: S1/2
Section 12: S1/2
Section 13, 14: all
Section 23, 24: all
Section 25: N1/2
Section 26: N1/2
Section 31: SE1/4
Section 32: S1/2
Section 33: S1/2
NE1/4
Section 34: all
Section 35: all
Section 36: W1/2

T14S R12E, F.M.
Section 3: W1/2
Section 4, 5: all
Section 6: E1/2
Section 7: E1/2
SW1/4
Section 8, 9: all
Section 10: S1/2
NW1/4
Section 11: S1/2
Section 12: S1/2
Section 13-15 all
Section 18, 19: all
Section 22-24: all
Section 25: N1/2
Section 26: N1/2
Section 27: N1/2
Section 30: N1/2
MINERAL LICKS (Continued)

T15S R10E, F.M.
Section 9: S1/2
Section 10: S1/2
Section 11: S1/2
Section 14-16: all
Section 21-27: all
Section 34-36: all

T15S R11E, F.M.
Section 1: W1/2
Section 2-5: all
Section 6: E1/2
Section 7: E1/2
Section 8-11: all
Section 12: W1/2
Section 15: NW1/4
Section 16: N1/2
Section 17: N1/2
Section 18: NE1/4

T15S R12E, F.M.
Section 19-21: all
Section 28-33: all

T15S R14E, F.M.
Section 22: E1/2
Section 23-26: all
Section 27: E1/2
Section 34: E1/2
Section 35: E1/2
Section 36: all

T15S R15E, F.M.
Section 19: W1/2
Section 30: W1/2
Section 31: W1/2

T16S R11E, F.M.
Section 3-10: all
Section 15: N1/2
Section 16: N1/2
Section 17: N1/2
Section 18: N1/2

T16S R16E, F.M.
Section 31: E1/2
Section 32, 33: all
Section 34: W1/2

T17S R12E, F.M.
Section 19-21: all
Section 28-33: all

T17S R15E, F.M.
Section 13: S1/2
Section 14: S1/2
Section 15: SE1/4
Section 22: E1/2
Section 23-26: all
Section 27: E1/2
Section 34: NE1/4
Section 35: N1/2
Section 36: N1/2

T17S R16E, F.M.
Section 2: W1/2
Section 3, 4 all
Section 5: E1/2
Section 8: E1/2
Section 9, 10 all
Section 11: W1/2
Section 18: SW1/4
Section 19: W1/2
Section 30: W1/2
Section 31: NW1/4
Tanana Basin Area Plan

MINERAL LICKS

LEGEND

Leasehold Location
Order

USGS 1:250,000 Mt. Hayes
0 6 scale in miles
State Land Open to Mineral Entry through Leasehold Location

- Nenana River Corridor
- Chatanika River Corridor
- Delta-Clearwater River Corridor
- Minto Flats State Game Refuge
- Brown Lake
- Grapefruit Rocks
- Mooseheart Lake
- Upper Chitanana Dunes
- Zitizana Dunes
- Toklat Critical Habitat
- Delta River Critical Habitat
- Fielding Lake
- Mineral licks (leasehold location areas)
- Lake Minchumina (leasehold location areas)

State Land Closed to Mineral Entry

- Delta River Critical Habitat
- Fielding Lake
- Mineral licks (leasehold location areas)
- Lake Minchumina (leasehold location areas)

See Chapter 3 Management Units for more detailed information and maps.

Note: This map only shows mineral closures and leasehold locations implemented by the Tanana Basin Area Plan. This map does not show land closed to mineral entry for land disposal. State land to be sold is closed to coal leasing and will be closed to mineral entry prior to sale (see Map D-1, and Appendix D). All state land in the basin is open to oil and gas leasing, subject to plan guidelines.