

DIVISION OF MINING, LAND AND WATER
WATER RESOURCES SECTION

www.dnr.state.ak.us/mlw/water/index.htm



Alaska Department of
NATURAL RESOURCES

Anchorage Office 550 West 7th Avenue, Suite 1020 Anchorage, AK 99501-3562 (907) 269-8600 Fax: (907) 269-8947	Juneau Office PO Box 111020 400 Willoughby Avenue Juneau, AK 99811-1020 (907) 465-3400 Fax: (907) 586-2954	Fairbanks Office 3700 Airport Way Fairbanks, AK 99709 (907) 451-2790 Fax: (907) 451-2703	For ADNR Use Only Date/Time Stamp <div style="border: 1px solid red; padding: 5px; text-align: center; color: red; font-weight: bold;">MAY 13 2013</div> WATER RESOURCES SECTION ANCHORAGE
For ADNR Use Only LAS # 29175	For ADNR Use Only CID # CID # 49052	For ADNR Use Only Receipt Type WR	

APPLICATION FOR WATER RIGHT

<p>INSTRUCTIONS</p> <ol style="list-style-type: none"> Complete one application for each water source (incomplete applications will not be accepted). Attach copy of executed deed, lease agreement, or other possessory interest document for property where water will be used (applicant must own, lease, or obtain written authorization to use water on property). Attach copy of legal access document (e.g. right-of-way, easement, permit) or application for legal access to water withdrawal point and transport route, if applicable, or copy of request or application for legal access to water withdrawal point. Attach driller's well log for drilled wells (if already drilled and available). Attach sketch, photos, plans of water system, or project description (if applicable). Attach legible map that includes meridian, township, range, and section lines such as a subdivision plat, USGS topographical quadrangle, or borough tax map. Indicate location of water withdrawal, route of water transmission, water use area boundary, points of water use within boundary, and point of water return flow (if applicable). Attach copy of approved ADEC water and wastewater system certificate (if applicable). Attach copy of ADNR fish habitat permit (if applicable). Attach notarized Statement of Beneficial Use of Water form and associated fee, if water system and water use are fully developed, and total water use does not exceed 500 gallons of water per day. Attach completed Coastal Project Questionnaire (if applicable - see page 4). Submit non-refundable fee (see page 4).

<p>APPLICANT INFORMATION TSF Interceptor & Seepage Collection Wells</p>			
Donlin Gold LLC Organization Name (if applicable)		Robert Enos Agent or Consultant Name (if applicable)	
Individual Applicant Name (if applicable)		Individual Co-applicant Name (if applicable)	
4720 Business Park Blvd., Suite G-25 Mailing Address	Anchorage City	AK State	99503 Zip Code
(907)279-0383 Daytime Phone Number	(907) 279-0200 Alternate Phone Number (optional)		
(907) 273-0201 Fax Number (if available)	renos@donlingold.com E-Mail Address (optional)		

PROPERTY DESCRIPTIONS							
Location of Water Use							
Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Attachment A						¼	¼
Location of Water Source							
Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Attachment B						¼	¼
Location of Water Return Flow or Discharge (if applicable)							
Geographic Name of Water Body or Well Depth		Meridian	Township	Range	Section	Quarter Sections	
						¼	¼

WATER SOURCE				
Ground Water				
Type (e.g. drilled, dug)	Total Depth (in feet)	Static Water Level (in feet)	Date Completed	Well Production Capacity
Drilled				Attachment C
Surface Water				
Type (e.g. stream, lake, spring)		Geographic Name (if named)		

METHOD OF TAKING WATER (IF KNOWN)	
Pump	Pump Intake _____ Inches Hours Working _____ Hours/Day Pump Output _____ GPM Length of Pipe _____ Feet (from pump to point of use)
Gravity	Pipe Diameter _____ Inches Length of Pipe _____ Feet (take point to point of use) Head _____ Feet
Ditch	L _____ H _____ W _____ Feet Diversion Rate _____ <input type="checkbox"/> GPM or <input type="checkbox"/> CFS
Reservoir	L _____ H _____ W _____ Feet Water Storage _____ AF
Dam	L _____ H _____ W _____ Feet Water Storage _____ AF

AMOUNT OF WATER							
Common Water Uses and Standard Amounts							
Type of Use	How Many		Standard Amounts		Total Amount Requested	Months of Use	
						Begin	End
Fully Plumbed Single-family Home (includes irrigation of 10,000 sq. ft.)	# _____ Homes	X	500 GPD	=			
Partially Plumbed Single-family Home (no hot water heater)	# _____ Homes	X	250 GPD	=			
Unplumbed Single-family Home (hand carry water)	# _____ Homes	X	75 GPD	=			
Duplex or Triplex	# _____ Bldgs.	X	1000 GPD	=			
Four-plex and Larger Housing	# _____ Units	X	250 GPD	=			
Motel or Resort	# _____ Rooms	X	150 GPD	=			
Work Camps	# _____ People	X	50 GPD	=			
Domestic Irrigation	# _____ Sq. ft.	X	250 GPD per 10,000 Sq. ft.	=			
Non-domestic Irrigation	# _____ Acres	X	0.5 AFY	=			
Other Water Uses							
Type of Use	How Many		Amount		Total Amount Requested	Months of Use	
						Begin	End
		X		=			
		X		=			
Type of Use					Total Amount Requested	Months of Use	
						Begin	End
Multiple Interceptor Wells and Tailings Dam Seepage Collection System					2,841 AFY	01/01	12/31
Attachment D							

Expected date for water system and water use to be fully developed or date when existing use started 2018.
 Note: Pursuant to AS 46.15.180(a)(1). Crimes, a person may not construct works for an appropriation, or divert, impound, withdraw, or use a significant amount of water from any source without a permit, certificate of appropriation, or authorization issued under this chapter.

11 AAC 93.040 sets out the required information on an application for a water right. 11 AAC 93.050 authorizes the commissioner to decide what additional information is needed to process an application for a water right. This information is made a part of the state public water records and becomes public information under AS 40.25.110 and 40.25.120. Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.

SIGNATURE

The information presented in this application is true and correct to the best of my knowledge. I understand that per 11 AAC 93.040 and 11 AAC 93.050 additional information may be required by the department to adjudicate this application. Failure to provide requested information could result in this file being closed.

Signature

Name (please print)

Date

Title (if applicable)



5/16/2013

ENVIRONMENTAL PERMITTING MANAGER

REFERENCES**Measurement Units**

GPD = gallons per day

CFS = cubic feet per second

GPM = gallons per minute

AF = acre-feet

AFY = acre-feet per year (325,851 gallons/year)

AFD = acre-feet per day (325,851 gallons/day)

MGD = million gallons per day

Conversion Table

5,000 GPD=	30,000 GPD=	100,000 GPD=	500,000 GPD=	1,000,000 GPD=
0.01 CFS	0.05 CFS	0.2 CFS	0.8 CFS	1.5 CFS
3.47 GPM	20.83 GPM	69.4 GPM	347.2 GPM	694.4 GPM
5.60 AFY	33.60 AFY	112.0 AFY	560.1 AFY	1120.1 AFY
0.2 AFD	0.09 AFD	0.3 AFD	1.5 AFD	3.1 AFD
0.01 MGD	0.03 MGD	0.1 MGD	0.5 MGD	1.0 MGD

Fees required by regulation 11 AAC 05.010(a)(8)

- **\$100** for one single-family residence or duplex, or for water use associated with one single-family residence or duplex
- **\$1,200** for activities related to oil and gas and associated substances
- **Fee varies** for activities related to locatable minerals, unless the application is filed under 11 AAC 05.010(a)(9)(E)(i) or (9)(F)(i) - *contact Water Resources Section for pre-application meeting*
- **Fee varies** for hydroelectric power generation - *contact Water Resources Section for pre-application meeting*
- **Fee varies** for water removal out of a hydrologic unit under AS 46.15.035 or 46.15.037 - *contact Water Resources Section for pre-application meeting*
- **\$200** for 5,000 GPD or less for a use not listed above
- **\$450** for greater than 5,000 GPD and no more than 30,000 GPD for a use not listed above
- **\$550** for greater than 30,000 GPD and no more than 100,000 GPD for a use not listed above
- **\$900** for greater than 100,000 GPD for a use not listed above

Make checks payable to "Department of Natural Resources."

Coastal Zone

If this appropriation is within the Coastal Zone, and you are planning to use more than 1,000 GPD from a surface water source or 5,000 GPD from a subsurface water source, you need to submit a completed Coastal Project Questionnaire with this application. For more information on the Coastal Zone, contact the Office of Project Management and Permitting; Anchorage 269-7470, Juneau 465-3562, www.dnr.state.ak.us/acmp/.

Attachment A
TSF INTERCEPTOR AND SEEPAGE COLLECTION WELLS

LOCATIONS OF WATER USE

<u>Use</u>	<u>Location</u>
Mill Process Water	Section 1, 2, 11, and 12 T22N, R49W, Seward Meridian
Dust Control	Potentially along unpaved roads and dam construction including portions of Section 11, 12, 13, and 14 T22N, R49W, Seward Meridian and Section 7, 8, 17, 18, 19, and 20 T22N, R48W
Fire Training and Suppression	Anywhere needed but primarily in the mill area in Section 1, 2, 11, and 12, T22N, R49W, Seward Meridian

Attachment B
TSF INTERCEPTOR AND SEEPAGE COLLECTION WELLS
LOCATIONS OF WATER SOURCES

Source

Location

Anaconda Creek Drainage
Interceptor Well Field

Section 14 T22N, R49W, Seward Meridian

Attachment C
TSF INTERCEPTOR AND SEEPAGE COLLECTION WELLS
ADDITIONAL INTERCEPTOR & SEEPAGE COLLECTION WELLS

Locations and Well Driller's Completion Logs

Attachment D TSF INTERCEPTOR AND SEEPAGE COLLECTION WELLS

USE AND WATER QUANTITY

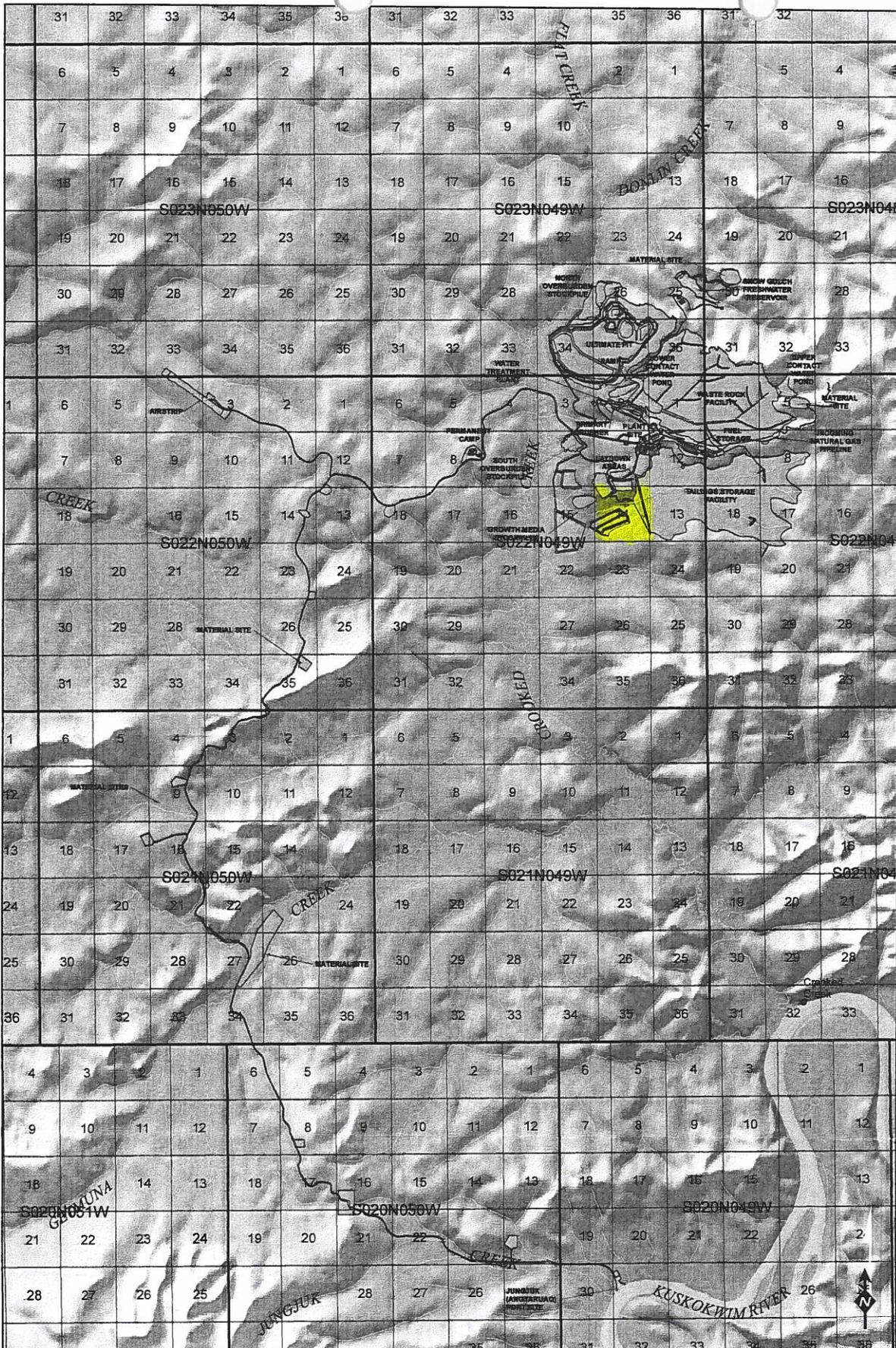
This water right is required for the operation of a large scale gold milling operation associated with the proposed Donlin Gold Mine. For a more detailed description of how the water will be used please refer to "Project Description, Plan of Operations – Volume I Donlin Gold Project" (July 2012) and "Water Resources Management Plan, Plan of Operations Vol. II" (July 2012), which were previously submitted to the State of Alaska.

The quantity of water applied for in this application is 2,841 acre-feet per year from the dam seepage collection system and interceptor well field located downgradient of the tailing storage facility dam.

Multiple interceptor wells are required to assure that under seepage and groundwater flow down the Anaconda Creek under the lined tailings storage facility is captured and recycled back into the tailings storage facility or as a makeup water source for ore processing at the mill.

The number of wells and individual pumping rates will vary depending on a number of factors such as:

- Cone of influence established by the interceptor wells;
- Compliance monitoring and results of analysis from samples collected downgradient;
- Performance of individual wells; and
- Some wells will be cycled to allow recharge for the most efficient interceptor well field operations.



- Populated Place
- Proposed Infrastructure Layout



**MINE FOOTPRINT FOR
WATER RIGHTS APPLICATION**
DONLIN GOLD PROJECT

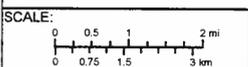


FIGURE:
1