

Fill in the form online by clicking in the appropriate field and typing.  
 Print the completed application and mail in one signed copy of the form with fees and supporting documents.  
 You will not be able to save your data entry online, so print an extra copy for yourself.

DIVISION OF MINING, LAND AND WATER  
**WATER RESOURCES SECTION**

[dnr.alaska.gov/mlw/water/](http://dnr.alaska.gov/mlw/water/)



Anchorage Office 550 West 7 <sup>th</sup> Avenue, Suite 1020 Anchorage, AK 99501-3562 (907) 269-8600 Fax: (907) 269-8904	Juneau Office PO Box 111020 Juneau, AK 99811-1020 400 Willoughby, #400 (907) 465-3400 Fax: (907) 586-2954	Fairbanks Office 3700 Airport Way Fairbanks, AK 99709 (907) 451-2705 Fax: (907) 451-2703	For ADNR Use Only Date/Time Stamp  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">1.30.2020</div>
For ADNR Use Only LAS # <div style="border: 1px solid black; padding: 2px 10px;">33151</div>	For ADNR Use Only CID # CID #	For ADNR Use Only Receipt Type WR	

## APPLICATION FOR WATER RIGHT

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"> <li>1. Complete one application for each water source. <b>Incomplete applications will not be accepted.</b></li> <li>2. Attach a copy of an 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).</li> <li>3. Attach copy of legal access document (i.e. 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.</li> <li>4. Attach driller's well log for drilled wells (if already drilled and available).</li> <li>5. Attach sketch, photos, plans of water system, or project description (if applicable).</li> <li>6. 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).</li> <li>7. Attach copy of approved ADEC Water and Wastewater system certificate (if applicable).</li> <li>8. Attach copy of ADF&amp;G Fish Habitat Permit (if applicable).</li> <li>9. Attach completed and notarized Statement of Beneficial Use of Water form and associated fee if water system and water use are fully developed.</li> <li>10. <b>Submit the non-refundable fee</b> (see page 4)</li> </ol>

<b>APPLICANT INFORMATION</b>			
<b>Teck Alaska Incorporated</b>			
Organization Name (if applicable)	Agent or Consultant Name (if applicable)		
Individual Applicant Name (if applicable)	Individual Co-applicant Name (if applicable)		
<b>2525 C St., Suite 310</b>	<b>Anchorage</b>	<b>Ak</b>	<b>99517</b>
Mailing Address	City	State	Zip Code
<b>907-754-5141</b>			
Daytime Phone Number	Alternate Phone Number (optional)		
	<b>rebecca.hager@teck.com</b>		
Fax Number (if available)	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	
Red Dog Mine South Fork Red Dog Creek Bypass(see attached)		Kateel	31N	18W	31	QQ 1/4	Q 1/4

**Location of Water Source**

Subdivision Name or Survey Number	Lot, Block, or Tract	Meridian	Township	Range	Section	Quarter Sections	
Red Dog Mine South Fork Red Dog Creek Bypass (see Attached)		Kateel	31N	18W	29,31,32	QQ 1/4	Q 1/4

**Location of Water Return Flow or Discharge (if applicable)**

Geographic Name of Water Body or Well Depth	Meridian	Township	Range	Section	Quarter Sections	
Bons Creek ( See Attached)	Kateel	31N	18W	31	QQ 1/4	Q 1/4

**WATER SOURCE DESCRIPTION**

**Ground Water**

Type (e.g. drilled, dug)	Total Depth (in feet)	Static Water Level (in feet)	Date Completed	Well Yield (in gpm)

**Surface Water**

Type (e.g. stream, lake, spring)	Geographic Name (if named)
Stream & surface flow	Tributaries to South Fork Red Dog Creek

**METHOD OF TAKING WATER (IF KNOWN)**

<b>Pump</b>	Pump Intake _____ Inches	Hours Working _____ Hours/Day
	Pump Output _____ GPM	Length of Pipe _____ Feet (from pump to point of use)
<b>Gravity</b>	Pipe Diameter <b>varies</b> _____ Inches	Length of Pipe <b>~2,800</b> Feet (take point to point of use)
	Head <b>varies</b> _____ Feet	Diversion Rate <u>100% flow</u> <input type="checkbox"/> GPM or <input type="checkbox"/> CFS
<b>Ditch</b>	L _____ D _____ W _____ Feet	Diversion Rate _____ <input type="checkbox"/> GPM or <input type="checkbox"/> CFS
<b>Reservoir</b>	L _____ D _____ W _____ Feet	Water Storage _____ AF
<b>Dam</b>	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
<b>Bypass Pipeline (See Attached) diversion 100% flow</b>					<b>1,180 AFY</b>	<b>Jan</b>	<b>Dec</b>

Expected date for water system and water use to be fully developed **or** date when existing use started \_\_\_\_\_.  
 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. AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). 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. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

**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.

**Yesnik Leslie**  
**RDOG**

Digitally signed by Yesnik Leslie  
RDOG  
Date: 2021.04.16 15:45:02 -08'00'

Signature

Date

**Les Yesnik**

**General Manager**

Name (please print)

Title (if applicable)

**FEE required by regulation 11 AAC 05.260.**

Make checks payable to "Alaska Department of Natural Resources":

- **\$100** for one single-family residence or duplex, or for water use associated with one single-family residence or duplex.
- **\$1,500** for up to 60 hours of staff time, for activities related to oil and gas and associated substances.
- **\$1,500** for up to 60 hours of staff time, for activities related to locatable mining.
- **\$1,500** for up to 60 hours of staff time, for hydroelectric power generation capacity greater than 100 kilowatts.
- **\$1,500** for up to 60 hours of staff time, for water removal out of a hydrologic unit under AS 46.15.035 or 46.15.037.
- **\$250** for 5,000 GPD or less for a use not listed above.
- **\$565** for greater than 5,000 GPD and no more than 30,000 GPD for a use not listed above.
- **\$690** for greater than 30,000 GPD and no more than 100,000 GPD for a use not listed above.
- **\$1,125** for greater than 100,000 GPD for a use not listed above.

**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**

<u>5,000GPD=</u>	<u>30,000GPD=</u>	<u>100,000GPD=</u>	<u>500,000GPD=</u>	<u>1,000,000GPD=</u>
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
0.02 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

## Red Dog Mine South Fork Red Dog Creek Bypass Additional Information

### Property Descriptions

Location of Water Use				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	31	NE & NW

Location of Water Source				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	31	NE
Kateel	31N	18W	32	NW & SW
Kateel	31N	18W	29	SE

Location of Water Return Flow or Discharge				
Meridian	Township	Range	Section	Quarter Sections
Kateel	31N	18W	31	NW

### Water Source Description

The bypass system collects water from two unnamed tributaries to the South Fork Red Dog Creek area and directs the flow away from the Kivalina Overburden Storage Stockpile towards the Bons Creek drainage basin.

### Method of Taking water

The water is intercepted on the east side DMTS Haul Road by a pipeline system. The pipes are installed on a pipe bench with a grade that allows the water to flow to the headwaters of Bons Creek drainage basin. The water is then discharged into the Bons Creek drainage basin.

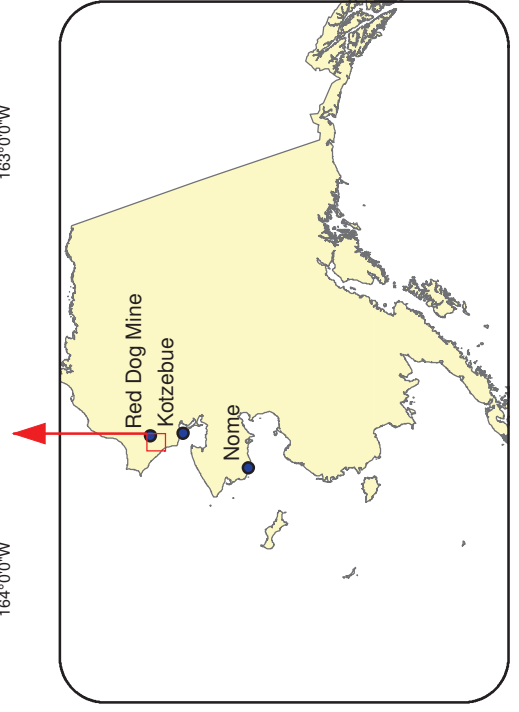
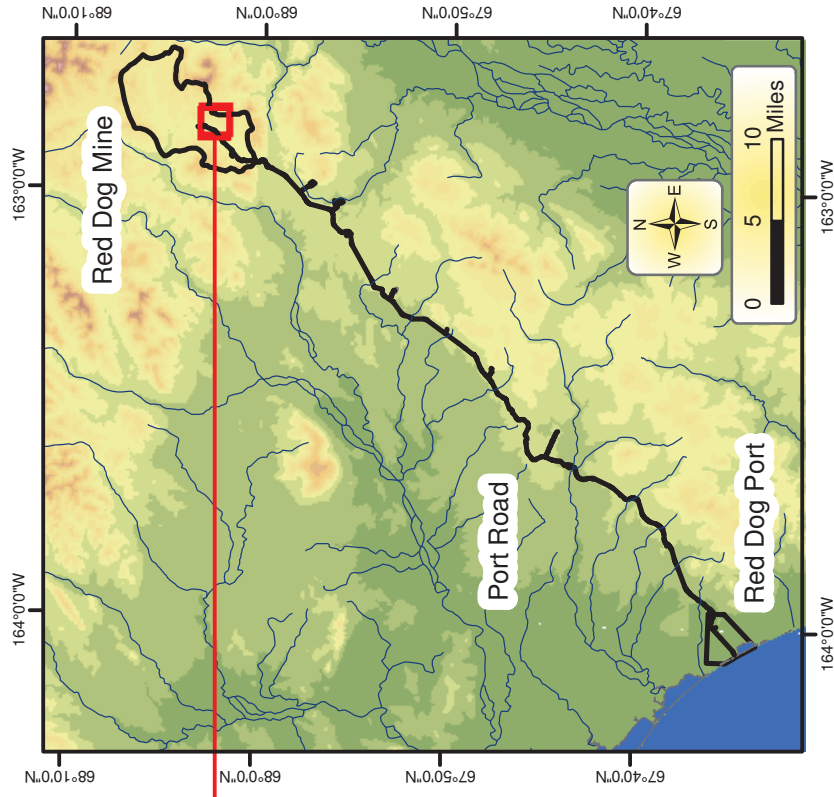
### Water usages



The use of the water is limited to the diversion of the water away from the Red Dog Tailings Impoundment and the Kivalina Overburden Stockpile.


### Total Water requested

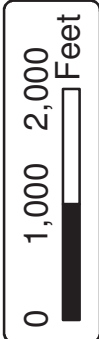
100% of the drainage flow volume is requested. The volumes vary and are dependent on the precipitation. The diversion system collects an approximately 354 acre area. Based on an annual precipitation of 40 inches a water right of 1,180 acre feet is requested

# Red Dog Mine South Fork Red Dog Creek Bypass Location Map



 South Fork Red Dog Creek Bypass  
 Diversion Area



 0 1,000 2,000 Feet