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For Ecology Use
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AUG 29 2011

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

Water Resources Program
Application for a Water Right Permit

- SURFACE WATER GROUND WATER PERMANENT
 TEMPORARY SHORT TERM DROUGHT

Follow the attached instructions. Attach additional sheets as necessary.

***A NON-REFUNDABLE MINIMUM FEE OF \$50.00 MUST ACCOMPANY THIS APPLICATION.**

Section 1. APPLICANT

Applicant/Business Name: Mason Credit Shelter Trust % L. Mason	Phone No: (425) 334 - 1770	Other No:
Address: 2106 Grand Ave. Apt. 201		
City: Everett	State: WA	Zip: 98201
Email Address (optional): cory@mid-columbia-coho.net		

Contact Name (if different from above): Cory Kamphaus	Phone No: 509-548-9413 Ext. 102	Other No:
Relationship to Applicant: Employee		
Address: Same as above		
City:	State:	Zip:
Email Address (optional):		

Legal Land Owner or Part Owner Name of the Proposed Place of Use: Mason Credit Shelter Trust % L. Mason	Phone No: (425) 334 - 1770	Other No:
Address: 2106 Grand Ave. Apt. 201		
City: Everett	State: WA	Zip: 98201
Email Address (optional):		

Section 2. STATEMENT OF INTENT

Briefly describe the purpose of your proposed project: Coho acclimation from March 15 to June 15 annually.

Anticipated length of time to complete your project: By September of 2012

Water Use List all purposes for which water will be applied to a beneficial use and list quantity required for each.

Purpose(s) of Use	Rate (check one box only)		Acre-Feet per Year (AF/YR) (If known)	Period of Use (Continuously or Seasonal)
	<input checked="" type="checkbox"/> Cubic Feet per Second (CFS)	<input type="checkbox"/> Gallons per Minute (GPM)		
Fish acclimation	1.8		325	Seasonal
TOTAL:	1.8		325	

For Ecology Use	APPLICATION NO: <u>G4-33036</u>	SEPA: Exempt/Not Exempt
	Fee Paid: <u>\$180.-</u> Check No: _____	ECY Coding: 001-001-WR1-0285-000011
Date Returned	By	Priority Date
		WR1A- <u>48 Okanogan</u>

Short Term/Temporary Water Use

Is this a request for a short term project (less than four months and non-recurring)? YES NO

Is this request for a temporary permit? YES NO

If yes to either question above, indicate the dates that the water will be needed:

FROM: 2013 TO: 2018

For Ecology Use	APPLICATION NO: _____	SEPA: Exempt/Not Exempt		
	Fee Paid: _____	Check No: _____	ECY Coding: 001-001-WR1-0285-000011	
Date Returned	By	Priority Date	By	WRIA

Section 3. POINT OF DIVERSION OR WITHDRAWAL

(Complete A or B, and C below)

A.) If Surface Water Source	B.) If Ground Water Source
<input type="checkbox"/> Spring <input type="checkbox"/> Creek <input type="checkbox"/> River <input type="checkbox"/> Lake <input type="checkbox"/> Other: _____ Source Name: _____ Tributary to: _____ Number of proposed diversion points: _____ Do you have an existing diversion? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> Well(s) <input type="checkbox"/> Other: _____ _____ Well diameter & depth: <u>undetermined</u> Number of proposed points of withdrawal: 1 Do you have an existing well? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If available, attach Water Well Report and pump test. Well Tag ID No. _____

C.) Point of Diversion/Withdrawal – Legal Description

Parcel No.	¼	¼	Section	Township	Range	County
9800750003		NW	24	36	21	Okanagan
Lot(s)	Block(s)		Subdivision			

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____ Feet (North/ South) and _____ feet (East/ West)
 from the (NW SW NE SE _____) corner of Section _____.

Parcel No.	¼	¼	Section	Township	Range	County
Lot(s)	Block(s)		Subdivision			

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____ feet (North/ South) and _____ feet (East/ West)
 from the (NW SW NE SE _____) corner of Section _____.

NOTE: If more than two points of diversion/withdrawal attach additional information on a separate sheet of paper.

Do you own the land on which the proposed point of diversion/withdrawal is located? YES NO
 If no, do you have legal authority to make this application for use of another's land? YES NO
 Provide the owner name(s), address, and phone number:

Mason Credit Shelter Trust % L. Mason
 2106 Grand Ave. Apt. 201
 Everett, WA 98201

Section 4. PLACE OF USE

Attach a copy of the legal description of the property (on which the water will be used) taken from a real estate contract, property deed or title insurance policy, or copy it carefully in the space below.

The portion of Homestead Entry Survey (H.E.S.) No. 75, more particularly described as follows:

Beginning at Corner No. 2 of H.E.S. No. 75; thence north 17°30'31" east along the west line of said H.E.S. No. 75, 1295 feet to Corner No. 3; thence north 11°15'04" east along said west line 607.94 feet; thence south 55°47'30" east 1358.41 feet to the east line of said H.E.S. No. 75; thence south 45°11'33" west along said east line 528.06 feet; thence south 25°11'16" west along the east line 330.02 feet; thence south 20°47'30" east along said east line 233.65 feet; thence south 70°30'03" west along the south line of said H.E.S. No. 75, 90.84 feet to Corner No. 1; thence north 72°54'29" west along said south line 983.38 feet to Corner No. 2 and the point of beginning. Subject to the easement for the U.S. Forest Service Chewuch Road. Containing 43.83 acres, more or less.

¼	¼	Section	Twp.	Range	County	Parcel No.
	NW	24	36	21	Okanagan	9800750003

Do you own all the lands on which the proposed place of use is located? YES NO.

If no, do you have legal authority to make this application for use of another's land? YES NO
 Provide owner name(s), address, and phone number:

Mason Credit Shelter Trust % L. Mason
 2106 Grand Ave. Apt. 201
 Everett, WA 988201

Are there any other water rights or claims associated with this property or water system? YES NO

If yes, provide the water right and/or claim numbers: _____

Attach a map of your project showing the point of diversion/withdrawal and place of use. If platted property, be sure to include a complete copy of the plat map.



Section 5. WATER SYSTEM DESCRIPTION

Describe your proposed water system (include type and size of devices used to divert or withdraw water from source):

A well on private property is proposed for supplying water to an existing pond on Methow State Wildlife Area property, owned by the Washington Department of Fish and Wildlife (WDFW). Water will be transported from the well to the pond in an open, rock-lined, ditch.

See the attached MSA GROUNDWATER WITHDRAWAL IMPACT ANALYSIS.

Section 6. DOMESTIC WATER SUPPLY SYSTEM INFORMATION

(Complete A or B, and C below)

A.) Domestic Water Systems only

B.) Municipal Water Systems only
(defined under RCW 90.03.015)

Projected number of connections to be served: _____	Present population to be served water: _____
Type of connections: _____ (e.g., home, recreational cabin)	Estimate future population to be served: _____ (20 year projection)

C.) Water System Planning

Do you have a Water System Plan approved by the Washington State Department of Health, Drinking Water Division? YES NO

If yes, date plan was approved ____/____/____ Water System Number: _____

Name of water system: _____

Are you within the service area of an existing water system? YES NO

If yes, explain why you are unable to connect to the system: _____

Section 7. IRRIGATION/STOCKWATER/OTHER FARM USES

Irrigation

Total number of acres requested to be irrigated under this application = _____ ACRES

NOTE: Outline the area to be irrigated on your attached map.

Stockwater

List number and kind of stock: _____

Is the proposed project for a dairy farm? YES NO

Other Proposed Farm Uses

Describe all proposed uses: _____

Family Farm Water Act (RCW 90.66):

Calculate the acreage in which you have a controlling interest, including only:

ECY 040-1-14 (Rev. 1-6-10) If you need this document in an alternate format, please call the Water Resources Program at 360-407-6872.
Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

- Acreage irrigated under water rights acquired after December 8, 1977,
- Acreage proposed to be irrigated under this application, and
- Acreage proposed to be irrigated under other pending application(s).

Is the combined acreage under existing rights greater than 6000 acres? YES NO

Do you have a controlling interest in a Family Farm Development Permit? YES NO

If yes, enter Permit No: _____

Section 8. OTHER WATER USES

Hydropower

Indicate total feet of head _____ and proposed capacity in kilowatts: _____

Describe works: _____

Indicate all uses to which power is to be applied: _____

FERC License No: _____

Mining/Industrial Use

Describe use, method of supplying and utilizing water: _____

Other Use

Section 9. WATER STORAGE

Will you be using a dam, dike, or other structure to retain or store water? YES NO

Are you proposing to store more than 10 acre-feet of water? YES NO

Will the water depth be 10 feet or more? YES NO

If you answered yes to any of the above questions, please describe: _____

NOTE: If you will be storing 10 acre-feet or more of water and/or if the water depth will be 10 feet or more at the deepest point and some portion of the storage will be above grade, you must also complete an Application for Permit to Construct a Reservoir and a Dam Construction Permit and Application.

Section 10. DRIVING DIRECTIONS

Provide detailed driving directions to the project site: At the main intersection in the town of Winthrop travel west on Hwy 20 (0.2 miles), take right onto Westside Chewuch Road (Co Hwy 1213) and drive for approximately 10 miles. The MSWA site will be on the right (east side of road).

Site Address: 972 Westside Chewuch Rd., Winthrop, WA 98862

Section 11. REQUIRED SIGNATURES

I certify that the information provided in this application is true and accurate to the best of my knowledge. I understand that in order to process my application, I grant staff from the Department of Ecology access to the site for inspection and monitoring purposes. Even though the employees of the Department of Ecology may have assisted me in the preparation of the above application, all responsibility for the accuracy of the information rests with me, the applicant.

Lucille W. Mason
Lucille W. Mason
 Print Name
 (Applicant or authorized representative)

Lucille W. Mason
 Signature

15 Aug 2011
 Date

Gene W. Mason Credit Shelter Trust
 Print Name
 (Legal Owner or Part Owner Place of Use)

Lucille W. Mason trustee
 Signature

15 Aug 2011
 Date

 Print Name
 (Legal Owner or Part Owner Place of Use)

 Signature

 Date

 Print Name
 (Legal Owner or Part Owner Place of Use)

 Signature

 Date

Please check the region in which the project is located:

<p>*Submit your application to: DEPARTMENT OF ECOLOGY CASHIERING SECTION PO BOX 47611 OLYMPIA, WA 98504-7611</p>	<input checked="" type="checkbox"/> Central Regional Office 15 W Yakima Avenue, Suite 200 Yakima, WA 98902 (509) 575-2490	<input type="checkbox"/> Eastern Regional Office 4601 N. Monroe Spokane, WA 99205-1295 (509) 329-3400
	<input type="checkbox"/> Northwest Regional Office 3190 - 160 th Avenue SE Bellevue, WA 98008-5452 (425) 649-7000	<input type="checkbox"/> Southwest Regional Office PO Box 47775 Olympia, WA 98504-7775 (360) 407-6300

If you have questions about your application, contact the Water Resources program at the regional office in which your project is located.

ECY 040-1-14 (Rev. 1-14)
 Persons with hearing impairment



MSWA GROUNDWATER WITHDRAWAL IMPACT ANALYSIS

From:

Appendix 11. Groundwater Withdrawal Impact Report
Mid-Columbia Coho Restoration Project
Okanogan and Chelan Counties, Washington

for

Sea Springs Company
September 28, 2010

by

GeoEngineers
1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940

MSWA Eight mile

The surface geology of the MSWA Eightmile site is recent Chewuch River alluvium and older Quaternary alluvium underlain by orthogneiss bedrock of Cretaceous-Jurassic age. The unconsolidated alluvium is composed of sand, gravel, silt and clay layers. There appears to be water-bearing layers of sand and gravel that may have the potential for groundwater supply based on well log descriptions.

An existing 6-inch-diameter well, assigned the unique well identification number ACE124, is located approximately 300 feet west of the proposed acclimation pond on the alluvial terrace with an elevation of approximately 2,120 feet mean sea level (MSL). The well, referred to as Mason Well 1, is owned by Lucy Mason and was drilled in August 1999 to 60 feet bgs. Unconsolidated materials interpreted to be the Quaternary alluvium deposits were encountered to 60 feet bgs. No bedrock was encountered. The static water level was recorded as 30 feet below the top of casing. The well is completed with an open bottom within a coarse sand and gravel deposit encountered from 52 to 60 feet. An air-test at 25 gpm was conducted on the well for an unknown period of time with an unknown amount of drawdown. Mason Well 1 is unused. An existing 6-inch well, referred to as Mason Well 2 (described below), is located near the residence approximately 1,400 feet south of the Mason Well 1.

The depth to bedrock and the thickness of the unconsolidated deposits are unknown at this time. Bedrock is exposed locally along Eight Mile Creek and in the upland hills surrounding the MSWA Eightmile site. The aquifer in which the existing Mason Well 1 is completed is assumed to be unconfined and at least 30 feet thick based on the well log information. Most likely the local alluvial aquifer is in direct continuity with the Chewuch River. Groundwater levels are expected to fluctuate with a similar elevation, magnitude and timing as the nearby surface water elevations. It is possible that multiple wells will be needed to meet the proposed demand of 800

gpm (1.8 cfs).

Groundwater Levels

There is potential for localized impacts to groundwater levels due to groundwater withdrawals at the MSWA Eightmile site. Based on existing information on the source aquifer, the drawdown cone, defined by drawdown greater than 1 foot, would reach approximately 500 to 1,500 feet depending on aquifer characteristics, the degree of confinement of the source aquifer and the degree of hydraulic continuity with the Chewuch River. The production capacity of the existing Mason Well 1 could be impacted by drawdown interference.

Surface Water Flows

There is potential for localized impacts to streamflows from groundwater withdrawals due to the potential that the source aquifer is in hydraulic continuity with the Chewuch River. A preliminary analysis of the theoretical drawdown within the aquifer at 300 feet from the pumping well indicates that the drawdown would be between 1 and 5 feet, depending on the amount of confinement of the aquifer. This change in groundwater levels would result in minimal reduction in streamflow (perhaps hundreds of gallons per day), which is dependent upon the degree of hydraulic continuity between aquifer and surface water. This minor reduction in streamflow will be completely offset and balanced by return flows from the facility. Because of the water-balance neutrality of the proposed withdrawal of groundwater from an aquifer in hydraulic continuity with the stream and discharge of the groundwater back into the stream, there will be no regional impacts to streamflow within the Methow River basin.

Water Rights

The Mason Wells 1 and 2 are the only known groundwater supply wells that are located close enough to be affected by a new well near the proposed MSWA Eightmile acclimation pond. There is less potential for impacting the Mason Well 2 because of the distance (>1,500 feet) and the proximity of the proposed wells to the Chewuch River (a recharge boundary that will reduce drawdown interference at distances of greater than 100 feet from the proposed well). Drawdown interference at Mason Well 1 would be on the order of 1 to 5 feet assuming a distance of 300 feet and a conservative transmissivity of 40,000 gpd/ft. The drawdown at Mason Well 2 would be effectively immeasurable under the same assumptions.

The proposed activities at the MSWA Eightmile site will not impact surface water rights. Because of the water-balance neutrality of the proposed withdrawal of groundwater from an aquifer in hydraulic continuity with the stream and discharge of the groundwater back into the stream, there will be no regional impacts to streamflow upstream or downstream of the MSWA Eightmile site.