



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**REPORT OF EXAMINATION**  
*Change of:* Yakima Adjudication Court Claim No. 02253  
**WRTS File No. CS4-02253CTCL**

|                                     |   |                        |                 |
|-------------------------------------|---|------------------------|-----------------|
| PRIORITY DATE<br>June 30, 1872      | CLAIM NO.<br>Yakima Adjudications Claim No. 02253 | PERMIT NO.             | CERTIFICATE NO. |
| NAME<br>Anderville Farms Inc.       |   |                        |                 |
| ADDRESS/STREET<br>2410 Barge Street | CITY/STATE<br>Yakima, WA                          | ZIP CODE<br>98902-2818 |                 |

**PUBLIC WATERS TO BE APPROPRIATED**

|   |                            |                                    |
|---|----------------------------|------------------------------------|
| SOURCE<br>Manastash Creek   |                            |                                    |
| TRIBUTARY OF (IF SURFACE WATERS)<br>Yakima River  |                            |                                    |
| MAXIMUM CUBIC FEET PER SECOND<br>0.233 cubic feet per second April 1 through June 30<br>0.117 cubic feet per second July 1 through October 31<br>and July 1 through October 31  | MAXIMUM GALLONS PER MINUTE | MAXIMUM ACRE FEET PER YEAR<br>71.1 |
| QUANTITY, TYPE OF USE, PERIOD OF USE<br>0.233 cubic feet per second April 1 through June 30; 0.117 cubic feet per second March 1 through March 31,<br>and July 1 through October 31, for a total of 71.1 acre-feet per year to irrigate 10 acres. |                            |                                    |

**LOCATION OF DIVERSION/WITHDRAWAL**

|  |                        |                          |                           |            |                    |
|--|------------------------|--------------------------|---------------------------|------------|--------------------|
| APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL<br>500 feet south and 150 feet east from the north quarter corner of Section 14, being within the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 14,<br>T. 17 N., R. 17 E.W.M. |                        |                          |                           |            |                    |
| LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)<br>NW $\frac{1}{4}$ NE $\frac{1}{4}$   | SECTION<br>14          | TOWNSHIP N.<br>17 N.     | RANGE E.W.M.<br>17 E.W.M. | WRIA<br>39 | COUNTY<br>Kittitas |
| PARCEL NUMBER<br>17-17-14010-0011  | LATITUDE<br>N 46.96942 | LONGITUDE<br>W 120.67691 | DATUM<br>NAD 83           |            |                    |

**RECORDED PLATTED PROPERTY**

|                                   |       |                                    |
|-----------------------------------|-------|------------------------------------|
| PARCEL NUMBER<br>17-18-08000-0038 | BLOCK | OF (GIVE NAME OF PLAT OR ADDITION) |
|-----------------------------------|-------|------------------------------------|

**LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED**  
[Attachment 1 shows location of the authorized place of use and point(s) of diversion or withdrawal]

That portion of the S $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 8, T. 17 N., R. 18 E.W.M. lying westerly of the West Side Canal.

**DESCRIPTION OF PROPOSED WORKS**

The applicant proposes to change the point of diversion from the Anderson Ditch point of diversion to a consolidated upstream location at the present Manastash Water Ditch Association point of diversion. The new point of diversion will be rebuilt to accommodate irrigators from Manastash Water Ditch Association, Hatfield, Reed and Anderson Diversions. By moving the point of diversion to the new location, the historic Anderson Ditch point of diversion will be abandoned and the headworks will be removed from Manastash Creek. A portion of the open ditch delivery system will be replaced with a buried pipe.

**DEVELOPMENT SCHEDULE**

|                                     |   |  |
|-------------------------------------|---|--|
| BEGIN PROJECT BY THIS DATE<br>Began | COMPLETE PROJECT BY THIS DATE<br>November 1, 2015 | WATER PUT TO FULL USE BY THIS DATE<br>November 1, 2016 |
|-------------------------------------|---|--|

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## PROVISIONS

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### Measurements, Monitoring, Metering and Reporting

1. An approved measuring device shall be installed and maintained for each of the sources authorized by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use", Chapter 173-173 WAC. <http://www.ecy.wa.gov/programs/wr/measuring/measuringhome.html>
2. Water use data shall be recorded daily. The following information shall be included with each submittal of water use data and shall be submitted to Ecology by January 31st of each calendar year:
  - a. owner, contact name if different
  - b. mailing address
  - c. daytime phone number
  - d. WRIA
  - e. Court Claim No.
  - f. source name
  - g. annual quantity used including units
  - h. maximum rate of diversion including units
  - i. period of use
  - j. purpose of use
  - k. daily meter readings including units
  - l. peak daily flow including units
  - m. fish screen status
3. In the future, Ecology may require additional parameters to be reported or more frequent reporting. Ecology will provide data entry information and forms. <http://www.ecy.wa.gov/pubs/ecy070170.pdf>
4. Flow data from the measuring points shall be compiled and recorded on a web based server that is mutually agreed upon by the Manastash Steering Committee. These data shall be made available within a reasonable time to Department of Ecology staff. The yearly data shall be submitted to the Department of Ecology no later than January 31 of each year.
5. Chapter 173-173 WAC describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition Ecology for modifications to some of the requirements. Installation, operation and maintenance requirements are enclosed as a document entitled "Water Measurement Device Installation and Operation Requirements". <http://www.ecy.wa.gov/programs/wr/measuring/measuringhome.html>
6. A stream gage shall be placed and maintained within Manastash Creek upstream of the new point of diversion being within the NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> or the NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 14, T. 17 N., R. 17 E.W.M.

### Provisions Specific to the Department of Fish and Wildlife

7. This authorization is subject to Washington Department of Fish and Wildlife fish screening criteria (pursuant to RCW 77.57.010, RCW 77.57.070, and RCW 77.57.040). The intake(s) shall be screened in accordance with Department of Fish and Wildlife screening criteria. <http://www.wdfw.wa.gov/reg/regions.htm>

### Quantity Limits, Flow and Regulation

8. An approved stream gage shall be permanently installed in Manastash Creek at a location described as a point 600 feet north and 700 feet east from the southwest corner of Section 12 being within the SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> of Section 12, T. 17 N., R. 17 E.W.M. (This is the historic Reed Ditch Diversion.)
9. Water shall not be diverted from the new point of diversion unless the following minimum rates of flow are measured at the Reed Ditch Diversion: six cubic feet per second (from April 1 through June 30) and 3 cubic feet per second (July 1 through October 31) or, during periods of proration, the prorated rates. The Reed Ditch Diversion location is given above.

### Schedule and Inspections

10. Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use that are kept to meet the above provisions, and to inspect at reasonable times any measuring device used to meet the above provisions.
11. The water right holder shall file the notice of project completion (under which the superseding certificate of water right is issued) when the permanent distribution system has been constructed and the quantity of water required by the project has been put to full beneficial use. After Ecology receives the notice a proof inspection shall be conducted after which a superseding certificate shall issue. The superseding certificate will reflect the extent of the project perfected within the limitations of the change authorization. Elements of the proof inspection may include, as appropriate, the source(s), system instantaneous capacity, beneficial use(s), annual quantity, place of use, point of diversion, and satisfaction of provisions.

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12. The six cubic feet per second (April 1 through June 30) and the three cubic feet per second (July 1 through October 31), or such prorated portion thereof to be measured at the Reed Diversion shall be achieved through the methods or acquisitions addressed in the Manastash Creek Restoration Project Instream Flow Enhancement Implementation Plan. Manastash Creek, including flows measured at Reed Diversion, will continue to be regulated by priority date consistent with *State v. Acquavella*, Yakima County Superior Court No. 77-2-01484-5, and Washington state law.

#### General Conditions

13. The water source and/or water transmission facilities are not wholly located upon land owned by the applicant. Issuance of a water right change authorization by the Department of Ecology does not convey a right of access to, or other right to use, land which the applicant does not legally possess. Obtaining such a right is a private matter between applicant and owner of that land.

#### Special Limitations

14. Water shall not be diverted when stream flow is equal to or less than 60 cfs at a point upstream of the new point of diversion.

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#### FINDINGS OF FACT AND ORDER

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Upon reviewing the investigator's report, I find all facts relevant and material to the subject application have been thoroughly investigated. Furthermore, I find the change of water right as recommended will not impair existing rights.

Therefore, I ORDER the requested change of point of diversion under Change Application No. CS4-02253CTCL be approved subject to existing rights and the provisions specified above.

This Decision may be appealed pursuant to RCW 34.05.514(3), RCW 90.03.210(2), and Pretrial Order No. 12 entered in *State of Washington, Department of Ecology v. James Acquavella, et al.*, Yakima County Superior Court No. 77-2-01484-5 (the general adjudication of surface water rights in the Yakima River Basin). The person, to whom this Decision is issued, if he or she wishes to file an appeal, must file the notice of appeal with the Yakima County Superior Court **within thirty (30) days of receipt of this Decision**. Appeals must be filed with the Superior Court Clerk's Office, Yakima County Superior Court, 128 North 2<sup>nd</sup> Street, Yakima WA 98901, RE: Yakima River Adjudication. Appeals must be served in accordance with Pretrial Order No. 12, Section III ("Appeals Procedures"). The content of the notice of appeal must conform to RCW 34.05.546. Specifically, the notice of appeal must include:

- The name and mailing address of the appellant;
- Name and address of the appellant's attorney, if any;
- The name and address of the Department of Ecology;
- The specific application number of the decision being appealed;
- A copy of the decision;
- A brief explanation of Ecology's decision;
- Identification of persons who were parties in any adjudicative proceedings that led to Ecology's decision;
- Facts that demonstrate the appellant is entitled to obtain judicial review;
- The appellant's reasons for believing that relief should be granted; and
- A request for relief, specifying the type and extent of relief requested.

The "parties of record" who must be served with copies of the notice of appeal under RCW 34.05.542(3) are limited to the applicant of the decision subject to appeal, Ecology and the Office of the Attorney General.

All others receiving notice of this Decision, who wish to file an appeal, must file the appeal with the Yakima County Superior Court within **thirty (30) days of the date the Order was mailed**. The appeal must be filed in the same manner as described above.

Signed at Yakima, Washington, this \_\_\_\_\_ day of \_\_\_\_\_ 2012.

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Mark Kemner, LHG, Section Manager  
Water Resources Program/CRO

**BACKGROUND**

**Description and Purpose of Requested Change**

On May 2, 2006, Jay Anderson, of Yakima Washington, filed an application to change the point of diversion (POD) for Yakima Adjudicated Court Claim No. 02253 in *The State of Washington, Department of Ecology v. James J. Acquavella, et al. (Acquavella)*. This application was accepted and assigned Application No. CS4-02253CTCL. This change application is one of three that were filed to change the Point of Diversion (POD) from the current Anderson Ditch diversion upstream to a consolidated diversion located at a point 500 feet south and 150 feet east from the north quarter corner of Section 14, T. 17 N., R. 17 E.W.M. on Manastash Creek (this is the location of the Menastash Water Ditch Association (MWDA) diversion). The proposed consolidated headwork will divert water for the MWDA, Hatfield Ditch, Reed Ditch, and Anderson Ditch. The delivery system is planned to replace a portion of the earthen ditches with a buried pipe.

Landowners diverting water from three existing PODs on Manastash Creek (Reed, Hatfield, and Anderson diversions) have applied to change their PODs upstream to the existing MWDA POD. This application is one of 29 filed for the Manastash Creek Restoration Project (the Project). These changes are being proposed to reduce the number of diversions from Manastash Creek, facilitate installation of fish screens, improve fish passage, and enhance stream flow as part of the Project. The Project is currently being managed by the Kittitas County Conservation District (KCCD). Separate Reports of Examination (ROEs) will be issued for each of these 29 applications.

This ROE is specific to CS4-02253CTCL.

**Expedited Processing**

This application for change qualifies for expedited processing under WAC 173-152-050(3)(a) whereby water right change applications may be processed prior to applications submitted at an earlier date when the proposed water use, if approved, would substantially enhance or protect the quality of the natural environment. The requested water right change is an integral part of the larger Manastash Creek Restoration Project.

This change proposal plays a role in achieving the goals of improving fish passage during critical fish migration periods and to improve habitat availability. The Yakima River and its tributaries contain habitats that are exceptional for migration, rearing, and spawning for ESA listed species including Spring Chinook Salmon and Mid-Columbia Steelhead. Manastash Creek is one of these tributaries that have been determined by Washington State Department of Fish and Wildlife and the Yakama Nation to contain exceptional habitat.

**Attributes of the Court Claim No. 02253 and Proposed Change**

**Table 1: Summary of Existing Attributes and Proposed Changes to Court Claim No. 2253**

| <i>Attributes</i>                              | <i>Documented</i>   | <i>Proposed</i>   |
|--|---|---|
| Name   | Anderville Farms, Inc<br>Clay McMachany, Jr   | Anderville Farms, Inc<br>Jay Anderson   |
| Priority Date   Date of Application for Change | <b>Priority Date</b><br>June 30, 1872   | <b>Application Date</b><br>May 2, 2006  |
| Instantaneous Quantity                         | 0.233 cubic feet per second from April 1 through June 30<br>0.117 cubic feet per second from July 1 through October 31  | 0.233 cubic feet per second from April 1 through June 30<br>0.117 cubic feet per second from July 1 through October 31  |
| Annual Quantity                                | 71.1 acre-feet per year for irrigation  | 71.1 acre-feet per year for irrigation  |
| Source   | Manastash Creek   | Manastash Creek   |
| Point of Diversion/Withdrawal                  | 700 feet west and 5 feet north of the center of Section 7 T. 17 N., R. 18 E.W.M. being within the S <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> of Section 7, T. 17 N., R. 18 E.W.M. | 500 feet south and 150 feet east from the north quarter corner of Section 14, being within the NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> of Section 14, T. 17 N., R. 17 E.W.M. (MWDA diversion) |
| Purpose of Use                                 | Irrigation of 10 acres  | Irrigation of 10 acres  |
| Period of Use                                  | April 1 through October 31  | April 1 through October 31  |
| Place of Use                                   | That portion of the S <sup>1</sup> / <sub>2</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> of Section 8 T. 17 N., R. 18 E.W.M. lying westerly of the West Side Canal.          | That portion of the S <sup>1</sup> / <sub>2</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> of Section 8 T. 17 N., R. 18 E.W.M. lying westerly of the West Side Canal.                          |

## Legal Requirements for Proposed Change

The following is a list of requirements that must be met prior to authorizing the proposed change in POD:

- **Public Notice**

Public notice of the change applications was published in the Ellensburg Daily Record on February 5 and February 12, 2007. No letters of protest or comments were received during the 30-day protest period.

- **State Environmental Policy Act (SEPA)**

This project required a SEPA review under WAC 197-11-800(4). Ecology, acting as the SEPA lead agency for this project, determined that it will have no unmitigated probable significant adverse impacts on the environment and issued a Mitigated Determination of Nonsignificance (MDNS) on October 18, 2008. The MDNS included a proposed mitigation package (Manastash Creek Restoration Project, Instream Flow Enhancement Implementation Plan) that can be viewed at [www.kccd.net/Current\\_Projects/Manastash/Manastash\\_Project.htm](http://www.kccd.net/Current_Projects/Manastash/Manastash_Project.htm), or a copy is available by contacting Ecology's Central Region Office in Yakima, WA, at (509) 575-2490.

- **Statement of Authorities**

RCW 90.03.380(1)

States that a water right that has been put to beneficial use may be changed. The POD, place of use, and purpose of use may be changed if it would not result in harm or injury to other water rights.

WAC 173-152-050(3)(a)

States that an application for change or transfer to an existing water right may be processed prior to competing applications provided the change or transfer, if approved, would substantially enhance the quality of the natural environment.

The Washington Supreme Court has held that Ecology, when processing an application for change to a water right, is required to make a tentative determination of extent and validity of the Claim or right (see *R.D. Merrill v. PCHB and Okanogan Wilderness League v. Town of Twisp*). This is necessary to establish whether the Claim or right is eligible for change. In this case, the proposed water right for change has been adjudicated by the Yakima Superior Court and a Conditional Final Order (CFO) for the Manastash Creek Subbasin (Subbasin No. 11) issued on June 14, 2001. As there has been at least a 5 year period since the issuance of the CFO, a tentative determination of the extent and validity of the right is required.

## INVESTIGATION

This water right change process included an on-site visit by the author on September 8, 2008. Additional information and supporting documentation for this investigation was obtained through the following:

- Documentation submitted with the applications
- Conversations with:
  - Washington Rivers Conservancy (WRC) staff
  - Ecology staff
  - Manastash Steering Committee Members
  - Jay Anderson of Anderville Farms Inc.
- Washington State Water Code, relevant case law, and administrative rules and policies
- Review of recent aerial photography
- Yakima County Superior Court *Reports of Referee and Conditional Final Order (CFO) in Acquavella Subbasin No. 11 (Manastash Creek)*
- Yakima County Superior Court *Report of the Court Concerning the Water Rights for the Kittitas Reclamation District*. Vol. 14
- Manastash Creek Project Summary Memorandum (Golder 2006)
- Manastash Creek Restoration Project Instream Flow Enhancement Implementation Plan (Kittitas County Conservation District, 2007a)
- Resolution of the Manastash Steering Committee Regarding this plan. (Kittitas County Conservation District, 2007b)

## History of Water Use for Claim No. 02253

Manastash Creek is part of the Yakima River Basin and rights to the use of the creek were addressed in the Yakima River Basin Adjudication (Department of Ecology v. James J. Aquavella, et al.) (Yakima Adjudication). During the Yakima Adjudication proceedings, a Conditional Final Order (CFO) specific to Manastash Creek (Subbasin No. 11) was issued on June 14, 2001. Court Claim No. 02253, the subject Court Claim of this ROE, was part of the Yakima Adjudication proceedings and is addressed in Reports of the Referee

for Subbasin No. 11 and in the CFO for Subbasin No. 11. The confirmed water quantities for the water rights confirmed under Court Claim No. 02253 are listed in Table 1. For these water rights, the Court granted a water duty of 7.11 acre-feet per acre, per year, for irrigation from Manastash Creek.

The availability of water in Manastash Creek changes throughout the year. The hydrograph for Manastash Creek typically peaks in the months of March, April, and May. It begins to descend between late April and late May to the point that not all water rights can be satisfied. Typically, by early to mid-June there is only enough water in Manastash Creek to meet the first and second class rights. As the hydrograph recedes, the water right holders of Manastash Creek begin to self regulate the diversions to meet the most senior rights first.

The court recognized this recurring pattern and the CFO for Subbasin No. 11 (Manastash Creek) issued with a reduced instantaneous rate of water delivery later in the water year for the majority of irrigation rights. These rights are reduced by 50% on July 1. However, natural conditions typically have already reduced the flow to the point where only Class 1 and a portion of the Class 2 water is available after July 1.

Court Claim No. 02253 was filed by Clay McMechan Jr. On September 22, 1992 Clay McMechan substituted Anderville Farme, Inc. as defendance for Claim No. 2253. The Claim was for the use of waters from Manastash Creek for irrigation of 10 acres. The. The applicant owns approximately 17 acres of land, of which 10 acres are irrigated.

The Court confirmed water rights under Claim No. 02253 described as follows:

- 0.233 cfs from April 1 through June 30
- 0.117 cfs from March 1 through March 31 and July 1 through October 31
- With a maximum of 71.1 ac ft/yr
- Irrigation of 10 acres

The irrigated lands lay south of Manastash Creek and the water diverted from Manastash Creek is delivered through an earthen canal system known as the Anderson Ditch. The water is delivered to the fields then applied by rill irrigation.

Based on reviewing 2002, 2005, 2006, 2009 and 2011 aerial photos, it appears the entire 10 acre place of use has been irrigated since the CFO issued.

### **Manastash Creek Restoration Project History**

The Manastash Creek Restoration Project is implemented by the Manastash Creek Steering Committee with assistance from the Kittitas County Conservation District (KCCD). The Manastash Creek Steering Committee was initiated in 2001. In 2008, membership was confirmed through a resolution of the Steering Committee. Current membership includes representatives of the water users of MWDA, Keach Ditch, Jensen Ditch, Hatfield Ditch, Reed Ditch, Anderson Diversion, and Barnes Road Diversion, as well as representatives of the Washington State Department of Ecology, Washington State Department of Fish & Wildlife, National Marine Fisheries Service, Washington Environmental Council, and the Yakama Nation.

The Steering Committee was formed in response to the Washington Environmental Council's (WEC) intention to file a lawsuit, based on possible violation of the Endangered Species Act (ESA). ESA is a federal law that attempts to protect animal and plant species threatened with extinction. ESA also attempts to protect the habitat of these species. The Washington State Department of Fish and Wildlife and Yakama Nation have determined that Manastash Creek contains habitat suitable for ESA-listed species and that artificial fish passage barriers exist in the Creek. The WEC lawsuit would address compliance issues within Manastash Creek concerning fish passage at the points of diversion, proper screening of headwork diversions, and metering diverted water.

This Committee's main goal is to satisfy compliance issues with fish passage, headwork screening, and metering diverted water in Manastash Creek.

The Washington State Legislature appropriated \$2.24 million in 2002 for construction of fish screens and fish passage at Manastash Creek diversions. In addition to those funds, the Bonneville Power Administration (BPA) awarded \$1.4 million to the Manastash Project through the Washington State Department of Fish & Wildlife in 2002 to construct fish screen and fish passage facilities. BPA approved an \$891,000 instream flow grant in 2007 and in 2009 BPA approved an additional \$748,000 toward fish screen construction.

In the years between 2003 and 2006, the strategy for providing fish screens and fish passage facilities underwent a number of changes. Initially, the Anderson, Reed, Hatfield, and Keach-Jensen Diversions were to be moved to the MWDA diversion site. That plan was abandoned in 2005 as agreement on specifics could not be reached within the Steering Committee.

The consolidation plan was then modified and revived in early 2006. The current plan includes consolidating only the Reed Ditch, Anderson Ditch, and Hatfield Ditch diversions to the MWDA diversion site. The Keach-Jensen and the Barnes Road diversions will be screened at their present locations. The Steering Committee members have agreed to work toward completion of the current plan.

In 2006, the KCCD assisted water right holders and the Department of Ecology to complete the applications to change the points of diversion for Hatfield Ditch, Reed Ditch, and Anderson Ditch. The change applications were received by Ecology in August and September 2006. Along with these applications, a mitigation package was submitted to address potential adverse impacts of the upstream moves in points of diversion.

### **Other Rights Appurtenant to the Place of Use**

The court documents describe and discussions with the applicant that this land has supplemental water from the KRD, which is exercised when sufficient creek water is not available.

### **Proposed Use**

Under this proposed change, only the POD is proposed for change. The applicant's property will continue to be irrigated with water from Manastash Creek spring and water from the KRD. Rill irrigation will continue to be the method of irrigation. This is the same irrigation method as historically described within Court documents.

If this application is approved, the water will be diverted from the new combined POD into a pipe. The pipe will discharge into an open ditch upstream of where the first user would have historically withdrawn their water.

### **Impairment Considerations**

An upstream change in POD results in an affected reach within the surface water source. The affected reach is defined by that section of the surface water source between the current POD location and the proposed POD location.

Under this change proposal, the affected reach is within Manastash Creek: the current POD is the Anderson Diversion, located at approximately creek mile 3.39, and the proposed POD is the MWDA Diversion, located at approximately creek mile 5.6. The affected reach is approximately 2.2 miles in length.

In general, moving PODs upstream is problematic, as rearing habitat and production potential for fish, riparian vegetation, and aquatic invertebrates residing within the reach can be adversely affected by the reduced flow. Diminished stream flow within the 2.2 mile reach would also have negative impacts on production potential for age "0" (newly emerged fry) and 1 year old steelhead smolts. The 2006 flow data indicate that flows bypassed in July through the end of the irrigation season below MWDA diversion were variable, but generally ranged from 2-5 cfs. All surface flow is presently diverted at the Reed Diversion when flows are in this range. By diverting all available water at the Reed Diversion it has created a reach within Manastash Creek that is dry for a portion of the irrigation season. This reach is approximately 3.25 miles.

Historically portions of this 3.25 mile reach naturally "lose" water to the aquifer and may go dry on some or all years regardless of water diversions. Under present conditions and recent historical diversions, when the stream flow (during an average water year) above the MWDA diversion drops to around 60 cfs, the stream flow in the reach below Cove Road becomes dry and the Anderson Diversion is no longer able to divert. When the stream flow (during an average water year) above MWDA is between approximately 50 and 60 cfs, virtually all instream flow is diverted by MWDA, and individual irrigators at Keach Ditch, Jensen Ditch and Reed Ditch and no flow passes the Reed Ditch diversion. The channel remains dry from the Reed diversion downstream approximately 3.25 miles to the crossing of the West Side Canal.

Thus when creek flow reaches 60 cfs immediately upstream of the MWDA diversion it is insufficient to carry water to the Anderson POD. By moving upstream there will be water available for this senior right that historically would not have been available. If this application is approved the water right will need to be provisioned so that the right will not be enhanced with water that was not historically available.

Another potential impact is to existing Keach-Jensen PODs. As this application is proposing to change the POD upstream of the Keach-Jensen the possibility of impairment must be addressed. The water users within the Manastash Creek Basin have historically self regulated their diversions to insure that the senior rights were fulfilled first. By moving this POD upstream of the Keach-Jensen POD, this change application, if approved, will be limited to the amount of water and the priority date confirmed by the Court.

If this change is approved it reduces the flow in the affected reach by a maximum of 0.233 cfs. This will be mitigated for by increasing the stream flow within the 3.25 mile dry reach below the historic Reed diversion.

To offset potential impairment and impacts from moving the hatfield, Anderson (the POD for this Claim) and Reed Diversion upstream, after initial implementation of the change in PODs', it is proposed that six cfs (or the pro-rated portion thereof) will be bypassed at the new consolidated POD from April 1 through June 30, and about three cfs of flow (or the prorated portion thereof) would be bypassed from July 1 through October 31 plus the estimated conveyance loss between new consolidated POD and Reed Diversion. The conveyance water that will be bypassed at the combined head works for this project is defined as "that water that has naturally been lost within Manastash Creek to convey senior class water between the MWDA POD to the proposed changed POD". In addition to the flows described, flows in excess of quantities determined in the CFO will also be left instream and measured at a point located at the historic Reed Diversion.

To achieve these flows the Manastash Creek Steering Committee has developed the Manastash Creek Restoration Project Instream Flow Enhancement Implementation Plan. This plan addresses the commitments that the members of the Steering Committee have agreed upon to achieve these flows. The Steering Committee also has committed to continue to look for more water to be placed into trust and enhance the instream flow of Manastash Creek. This plan has also been presented to Ecology as mitigation for any impacts that may occur due to any upstream move.

### **KRD Operational Spill Water**

The implementation plan includes an agreement that water users will not divert any water that KRD spills into Manastash Creek. The KRD canal spill is located at RM 5.4 (between MWDA and Reed diversions). Spilled water is currently diverted, and as the irrigation season progresses, the majority of spilled water is diverted into the Reed Ditch. Spill timing and quantity is highly variable, with spills ranging from 0-30 cfs. This operational spill, to the extent that it is present at any time, would be additive to the obtained bypass flow for instream flow purposes of six cfs from April 1 through June 30 and three cfs from July 1 through October 31 before pro-rationing.

### **Consideration of Protests and Comments**

There were no letters of protest or comments filed for this application.

### **CONCLUSIONS**

The water right confirmed under Court Claim No. 02253, with a priority date of June 30, 1872, is appurtenant to the subject property. Review of the evidence provided within this report and proceedings within the Yakima River Basin Adjudication Court indicate that a total of:

- 0.233 cfs from April 1 through June 30
- 0.117 cfs from July 1 through October 31
- With a maximum of 71.1 ac ft/yr

These quantities have been diverted to irrigate 10 acres and beneficially used under Court Claim No. 02253.

In accordance with Chapter 90.03 RCW, the author makes a tentative determination that the water right confirmed under Court Claim No. 02253 with a priority date of June 30, 1872, represents a valid water right that authorizes the diversion of up to 0.233 cfs from April 1 through June 30, and 0.117 cfs July 1 through October 31 up to 71.1 ac-ft/yr of water from Manastash Creek.

Approval of this change to change the POD as mitigated and provisioned will not cause impairment.

Approval of this change to change the POD as mitigated and provisioned will not enhance the subject right (Court Claim No. 02253).

**RECOMMENDATIONS**

Based on the above investigation and conclusions, I recommend that the request for change on one of the water rights confirmed under Court Claim No. 02253 be approved in the amounts and within the limitations listed below and subject to the provisions beginning on Page 2, et seq.

**Authorized Quantities**

The amount of water recommended is a maximum limit and the water user may only use that amount of water within the specified limit that is reasonable and beneficial:

- 0.233 cfs from April 1 through June 30
- 0.117 cfs from July 1 through October 31
- 71.1 ac-ft/yr

**Purpose of Use**

Irrigation of 10 acres.

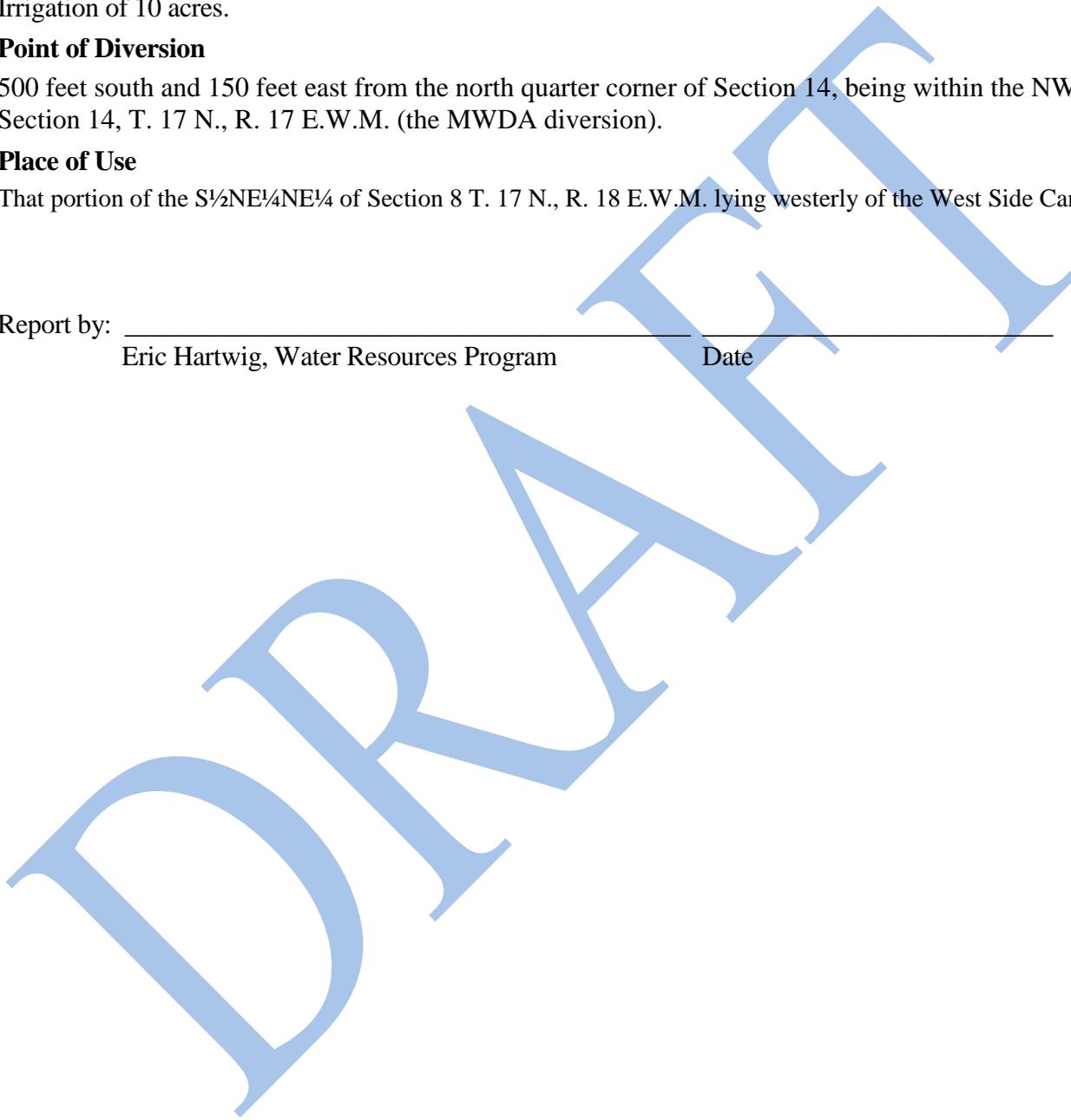
**Point of Diversion**

500 feet south and 150 feet east from the north quarter corner of Section 14, being within the NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 14, T. 17 N., R. 17 E.W.M. (the MWDA diversion).

**Place of Use**

That portion of the S<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 8 T. 17 N., R. 18 E.W.M. lying westerly of the West Side Canal.

Report by: \_\_\_\_\_ Date \_\_\_\_\_  
Eric Hartwig, Water Resources Program



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# Attachment 1

