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January 15, 2025

Big Horn Leasing, LLC
PO Box 385
Sidney, MT 59270

Subject: Water Right Permit Application 42M 30163320

Dear Applicant,

The Department of Natural Resources and Conservation (DNRC) has completed preliminary review of your applications. This review consists of an evaluation of the criteria for issuance of a permit, found in §85-2-311, MCA. The Department preliminarily determines that the criteria are met, and this application should be granted. A copy of the Preliminary Determinations to Grant your application is attached. The next step in the process is for the Water Resources Division to provide public notice of this application and provide an opportunity for objection. If you have any questions, please do not hesitate to contact me at 406-808-7075.

Sincerely,

Ashley Kemmis
Water Resource Specialist
Water Rights Bureau
Water Resources Division

BEFORE THE DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION OF THE STATE OF MONTANA

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APPLICATION FOR BENEFICIAL WATER USE PERMIT NO. 42M 30163320 BY BIG HORN LEASING LLC	)))	**PRELIMINARY DETERMINATION TO GRANT PERMIT**

* * * * * * *

On May 29, 2024, Big Horn Leasing LLC (Applicant) submitted Application for Beneficial Water Use Permit No. 42M 30163320 to the Glasgow Regional Office of the Department of Natural Resources and Conservation (Department or DNRC) for 142 GPM and 229 AF for Water Marketing. The Department published receipt of the application on its website. The Department sent the Applicant a deficiency letter under § 85-2-302, Montana Code Annotated (MCA), dated June 12, 2024. The Applicant responded with information dated July 29, 2024. A preapplication meeting was held between the Department and the Applicant on March 19, 2024, in which the Applicant designated that the technical analyses for this application would be completed by the Department. The Applicant returned the completed Preapplication Checklist on April 8, 2024. The Department delivered the completed technical analyses on May 17, 2024. The application was determined to be correct and complete as of August 9, 2024. An Environmental Assessment for this application was completed on October 4, 2024. The Draft Preliminary Determination to Grant was sent to the Applicant on October 7, 2024. The Department provided notice of opportunity to provide public comments to this application per § 85-2-307(4), MCA on November 16, 2024. Of the public comments received, the Department considered 21 comments. This Preliminary Determination to Grant document incorporated the Department's consideration of, and response to, these public comments.

INFORMATION

The Department considered the following information submitted by the Applicant, which is contained in the administrative record.

Application as filed:

- Application for Beneficial Water Use Permit, Form 600
- Addenda:

- Water Marketing Purpose Addendum, Form 600-WMA
- Aquifer Testing Addendum, Form 600-ATA

- Attachments:
  - Commercial Water Purchase Agreement, Big Horn Leasing LLC, Dated March 26, 2024
  - Form 633 for Wells No. 1 to 3, received on March 22, 2024
  - Well logs for the three production wells
  - Variance request for ARM 36.12.121(3)(a) dated March 27, 2024
  - DNRC letter granting variance request, by Lih-An Yang, dated April 3, 2024
- Maps: Undated aerial imagery depicting the point of diversion and place of use
- Department-completed technical analyses based on information provided in the Preapplication Checklist, dated May 17, 2024

Information Received after Application Filed

- Deficiency Response, dated July 29, 2024
- Email regarding pump information, dated September 11, 2024
- Groundwater Permit Technical Analysis Report – Notice of Errata dated January 7, 2025

Information within the Department's Possession/Knowledge

- The Department also routinely considers the following information. The following information is not included in the administrative file for this application but is available upon request. Please contact the Glasgow Regional Office at 406-228-2561 to request copies of the following documents.
  - Flow records for USGS Gage #06329500, Yellowstone River near Sidney, MT
  - Department water right records of existing rights, including administrative of file of expired Provisional Permit 42M 30068052
  - Gridded Net Evaporation Layer, Converge, ArcGIS Web Application
  - DNRC Technical Memorandum: Physical Availability of Surface Water with Gage data dated November 1, 2019
  - Aquifer Testing Requirements Review, dated March 27, 2024
  - Proposal for Decision issued on permit application 76LJ 81523-00, dated August 26, 1994

Public Comments Received

- The Department received and considered the following comments for the Preliminary Determination. The Department has considered the public comments and has updated criteria analysis for legal availability, adequacy of diversion, and adverse effect. The preliminary determination decision is to Grant. The comments are addressed in the respective criteria section. The public comments received can be found in the administrative file.
    - Eighteen public comments were received regarding the physical availability analysis, and thirteen issues were raised among these comments. These issues generally called into question the adequacy of the aquifer testing, subsequential modeling, and the finding by the Department of physical availability in opposition of water shortage observations made by commenters.
    - Twelve public comments were received regarding the legal availability analysis, and six issues were raised among these comments. These issues generally called into question the selection of hydraulically connected sources, the ability to monitor the Applicant's water usage and make call, and the Department's finding of legal availability in opposition of water shortage observations made by commenters.
    - Twenty-one comments were received regarding adverse effect, and four issues were raised. These issues generally called into question the outcome of making call, the determination of the area of adverse effect, and the Department's finding on adverse effect in opposition of water shortage observations made by commenters
    - Nine comments were received regarding diversion works, and three issues were raised. These issues generally called into question the demonstration of pump adequacy, the effect of drawdown, and modeling completed by the Department.
    - Thirteen comments were received regarding beneficial use, and three issues were raised. These issues generally called into question the lack of benefit to the citizens of Montana, the level of statutory criteria to which this application is evaluated, and the validity of the water marketing contract supplied by the Applicant.
    - Eight comments were received regarding possessory interest, and one issue was raised. This issue called into question the end water user's possessory interest of the service area provided in the water marketing contract.

- Water quality comments are accepted during the public comment period and enable objections regarding water quality during the public notice period. Eleven public comments were submitted regarding water quality. Pursuant to § 85-2-311(2), MCA, "the applicant is required to prove that the [water quality criterion has] been met only if a valid objection has been filed". The public comments received regarding the water quality criterion have enabled the public to object to the water quality criterion during the public notice for objections period. (Commenters: Bennion, B. Panasuk, Burns, Dahl, Dunagan, Youngquist, Ries, Casey, Rindahl, McChesney, T. Panasuk)
- Nine public comments were received that identified the Applicant is already using water in violation of 85-2-302(1). Enforcement of illegal water use is outside of the scope of the permit criteria evaluation. A water use complaint (Form 609) may be filed if someone feels that an illegal water use is occurring and affecting their water right. (Commenters: Bennion, B. Panasuk, Burns, Dahl, Youngquist, Casey, Rindahl, Syth, T. Panasuk)
- Public comments were received that were not considered by the Department, as they did not meet the requirements outlined on the Public Comment on Application Form.

The Department has fully reviewed and considered the evidence and argument submitted in this application and preliminarily determines the following pursuant to the Montana Water Use Act (Title 85, chapter 2, part 3, MCA).

For the purposes of this document, Department or DNRC means the Department of Natural Resources & Conservation; CFS means cubic feet per second; GPM means gallons per minute; GPD means gallons per day; AF means acre-feet; AC means acres; POD means point of diversion; POU means place of use; BTC means below top of casing; BGS means below ground surface; MBMG means Montana Bureau of Mines and Geology; and AF/YR means acre-feet per year.

PROPOSED APPROPRIATION

FINDINGS OF FACT

1. The Applicant proposes to divert groundwater, by means of three production wells, from January 1 to December 31 at 142 GPM up to 229 AF, from NENENE Section 8, T22N, R58E,

Richland County, for water marketing use from January 1 to December 31. All three wells were drilled to a depth of 160 ft.

a. Well No. 1 is GWIC #274077 with a proposed flow rate of 59 GPM.
b. Well No. 2 is GWIC #274075 with a proposed flow rate of 37 GPM.
c. Well No. 3 is GWIC #268662 with a proposed flow rate of 46 GPM.

2. The place of use is the point of sale located in the NENE Section 8, T22N, R58E, Richland County. The Applicant will sell water to buyers who hold a firm contract. Water will be used for oil field development, with the general service area covering all of Richland County. Water is not expected to return to the source aquifer, therefore the consumptive use of the proposed diversion is 100%.

3. Of the requested 229 AF, up to 219 AF will be sold to water marketing contract and 10 AF accounts for net evaporation from the storage ponds.

4. The three wells in this proposed application had been granted a water right Provisional Permit 42M 30068052, to a different applicant, for diversion of 142.8 GPM up to 66.9 AF per year for a commercial facility purpose in 2014. The permit subsequently expired in 2022 because the then-Applicant did not submit Project Completion Notice.

5. The proposed point of diversion is approximately 6 miles west of the Yellowstone River.

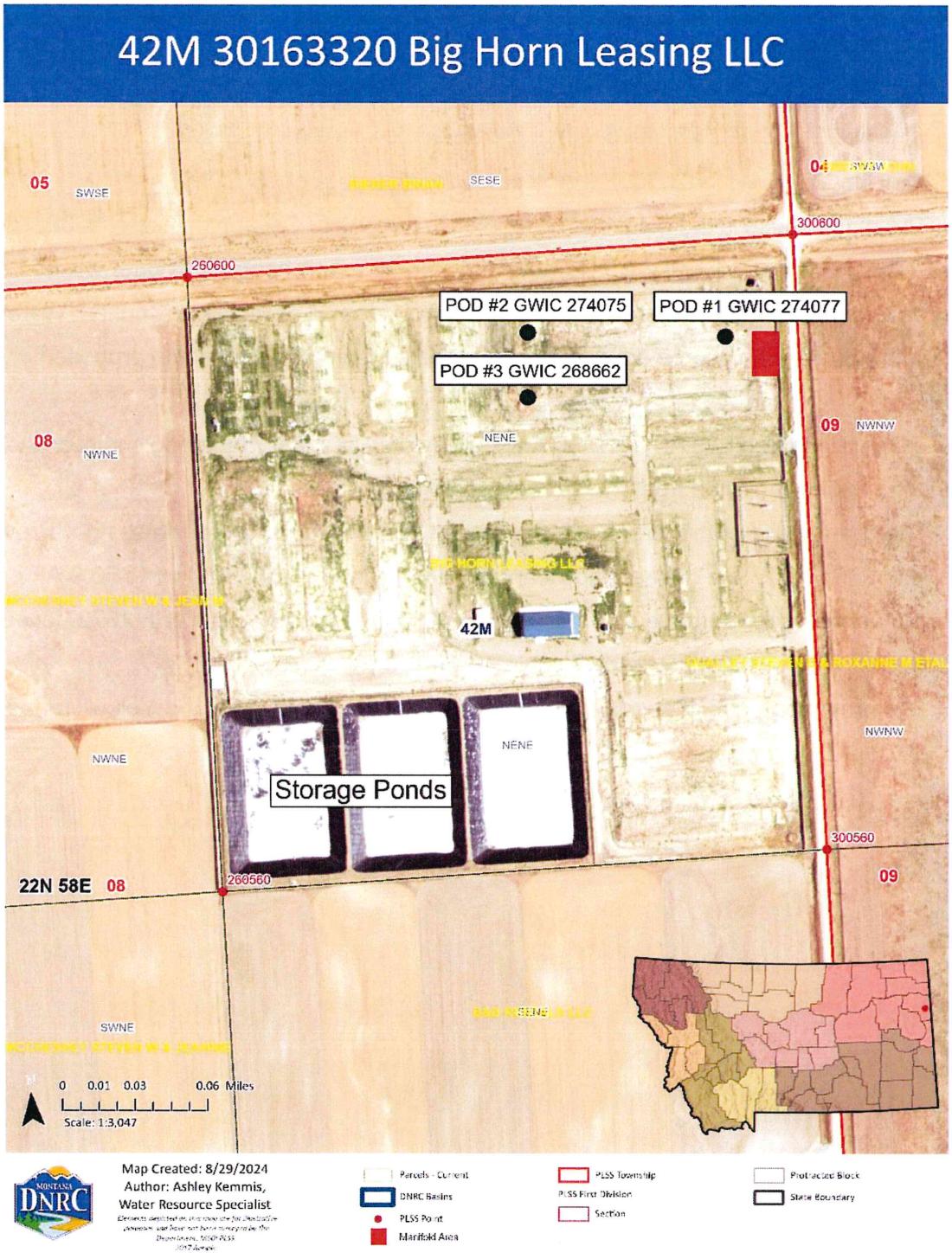

Figure 1: Proposed POD and POU of the Project Area

6. Water sold under this appropriation will be used in the oil field industry. The amount of sales will vary with oil field activity during the year, not to exceed 219 AF per year. In order to substantiate the beneficial use and ensure that the requested flow rate and volume are not exceeded during years of high oil field activity, the Applicant will be required to submit measurement report each year. The Applicant's design plans include the use of a totalizing flow meter.

7. The Applicant provided a water purchase contract from EMEP Operating, LLC, with a condition stating that water purchased will be used in Richland County, Montana. Customers must agree to use the water solely in the state of Montana and the Applicant will have signs posted at the facility stating that water cannot be transported outside Montana. Depot access will be limited to valid contract holders through the landowner-controlled access.

8. This permit will not be supplemental to any other water rights nor share a place of use.

§ 85-2-311, MCA, BENEFICIAL WATER USE PERMIT CRITERIA

GENERAL CONCLUSIONS OF LAW

9. The Montana Constitution expressly recognizes in relevant part that:

> (1) All existing rights to the use of any waters for any useful or beneficial purpose are hereby recognized and confirmed.
> (2) The use of all water that is now or may hereafter be appropriated for sale, rent, distribution, or other beneficial use . . . shall be held to be a public use.
> (3) All surface, underground, flood, and atmospheric waters within the boundaries of the state are the property of the state for the use of its people and are subject to appropriation for beneficial uses as provided by law.

Mont. Const. Art. IX, § 3. While the Montana Constitution recognizes the need to protect senior appropriators, it also recognizes a policy to promote the development and use of the waters of the state by the public. This policy is further expressly recognized in the water policy adopted by the Legislature codified at § 85-2-102, MCA, which states in relevant part:

> (1) Pursuant to Article IX of the Montana constitution, the legislature declares that any use of water is a public use and that the waters within the state are the property of the state for the use of its people and are subject to appropriation for beneficial uses as provided in this chapter. . . .
> (3) It is the policy of this state and a purpose of this chapter to encourage the wise use of the state's water resources by making them available for appropriation consistent with this chapter and to provide for the wise utilization, development, and conservation of the waters of the state for the maximum benefit of its people with the least possible degradation of the natural aquatic ecosystems. In pursuit of this policy,

the state encourages the development of facilities that store and conserve waters for beneficial use, for the maximization of the use of those waters in Montana . . .

10. Pursuant to § 85-2-302(1), MCA, except as provided in §§ 85-2-306 and 85-2-369, MCA, a person may not appropriate water or commence construction of diversion, impoundment, withdrawal, or related distribution works except by applying for and receiving a permit from the Department. *See* § 85-2-102(1), MCA. An Applicant in a beneficial water use permit proceeding must affirmatively prove all of the applicable criteria in § 85-2-311, MCA. Section § 85-2-311(1) states in relevant part:

> ... the department shall issue a permit if the Applicant proves by a preponderance of evidence that the following criteria are met:
>
> (a) (I) there is water physically available at the proposed point of diversion in the amount that the Applicant seeks to appropriate; and
>
> (ii) water can reasonably be considered legally available during the period in which the Applicant seeks to appropriate, in the amount requested, based on the records of the department and other evidence provided to the department. Legal availability is determined using an analysis involving the following factors:
>
> (A) identification of physical water availability;
>
> (B) identification of existing legal demands on the source of supply throughout the area of potential impact by the proposed use; and
>
> (C) analysis of the evidence on physical water availability and the existing legal demands, including but not limited to a comparison of the physical water supply at the proposed point of diversion with the existing legal demands on the supply of water.
>
> (b) the water rights of a prior appropriator under an existing water right, a certificate, a permit, or a state water reservation will not be adversely affected. In this subsection (1)(b), adverse effect must be determined based on a consideration of an Applicant's plan for the exercise of the permit that demonstrates that the Applicant's use of the water will be controlled so the water right of a prior appropriator will be satisfied;
>
> (c) the proposed means of diversion, construction, and operation of the appropriation works are adequate;
>
> (d) the proposed use of water is a beneficial use;
>
> (e) the Applicant has a possessory interest or the written consent of the person with the possessory interest in the property where the water is to be put to beneficial use, or if the proposed use has a point of diversion, conveyance, or place of use on national forest system lands, the Applicant has any written special use authorization required by federal law to occupy, use, or traverse national forest system lands for the purpose of diversion, impoundment, storage, transportation, withdrawal, use, or distribution of water under the permit;
>
> (f) the water quality of a prior appropriator will not be adversely affected;
>
> (g) the proposed use will be substantially in accordance with the classification of water set for the source of supply pursuant to 75-5-301(1); and
>
> (h) the ability of a discharge permit holder to satisfy effluent limitations of a permit

> issued in accordance with Title 75, chapter 5, part 4, will not be adversely affected.
>
> (2) The Applicant is required to prove that the criteria in subsections (1)(f) through (1)(h) have been met only if a valid objection is filed. A valid objection must contain substantial credible information establishing to the satisfaction of the department that the criteria in subsection (1)(f), (1)(g), or (1)(h), as applicable, may not be met. For the criteria set forth in subsection (1)(g), only the department of environmental quality or a local water quality district established under Title 7, chapter 13, part 45, may file a valid objection.

To meet the preponderance of evidence standard, "the Applicant, in addition to other evidence demonstrating that the criteria of subsection (1) have been met, shall submit hydrologic or other evidence, including but not limited to water supply data, field reports, and other information developed by the Applicant, the department, the U.S. geological survey, or the U.S. natural resources conservation service and other specific field studies." Section 85-2-311(5), MCA (emphasis added). The determination of whether an application has satisfied the § 85-2-311, MCA criteria is committed to the discretion of the Department. *Bostwick Properties, Inc. v. Montana Dept. of Natural Resources and Conservation*, 2009 MT 181, ¶ 21. The Department is required grant a permit only if the § 85-2-311, MCA, criteria are proven by the Applicant by a preponderance of the evidence. Id. A preponderance of evidence is "more probably than not." *Hohenlohe v. DNRC*, 2010 MT 203, ¶¶ 33, 35, 357 Mont. 438, 240 P.3d 628.

11. Pursuant to § 85-2-312, MCA, the Department may condition permits as it deems necessary to meet the statutory criteria:

> (1) (a) The department may issue a permit for less than the amount of water requested, but may not issue a permit for more water than is requested or than can be beneficially used without waste for the purpose stated in the application. The department may require modification of plans and specifications for the appropriation or related diversion or construction. The department may issue a permit subject to terms, conditions, restrictions, and limitations it considers necessary to satisfy the criteria listed in 85-2-311 and subject to subsection (1)(b), and it may issue temporary or seasonal permits. A permit must be issued subject to existing rights and any final determination of those rights made under this chapter.

E.g., Montana Power Co. v. Carey (1984), 211 Mont. 91, 96, 685 P.2d 336, 339 (requirement to grant applications as applied for, would result in, "uncontrolled development of a valuable natural resource" which "contradicts the spirit and purpose underlying the Water Use Act."); *see also, In the Matter of Application for Beneficial Water Use Permit No. 65779-76M by Barbara L. Sowers* (DNRC Final Order 1988)(conditions in stipulations may be included if it further compliance with

statutory criteria); *In the Matter of Application for Beneficial Water Use Permit No. 42M-80600 and Application for Change of Appropriation Water Right No. 42M-036242 by Donald H. Wyrick* (DNRC Final Order 1994); Admin. R. Mont. (ARM) 36.12.207.

12. The Montana Supreme Court further recognized in *Matter of Beneficial Water Use Permit Numbers 66459-76L, Ciotti: 64988-G76L, Starner*, 278 Mont. 50, 60-61, 923 P.2d 1073, 1079, 1080 (1996), *superseded by legislation on another issue*:

> Nothing in that section [85-2-313], however, relieves an Applicant of his burden to meet the statutory requirements of § 85-2-311, MCA, before DNRC may issue that provisional permit. Instead of resolving doubts in favor of appropriation, the Montana Water Use Act requires an Applicant to make explicit statutory showings that there are unappropriated waters in the source of supply, that the water rights of a prior appropriator will not be adversely affected, and that the proposed use will not unreasonably interfere with a planned use for which water has been reserved.

See also, Wesmont Developers v. DNRC, CDV-2009-823, First Judicial District Court, *Memorandum and Order* (2011). The Supreme Court likewise explained that:

> .... unambiguous language of the legislature promotes the understanding that the Water Use Act was designed to protect senior water rights holders from encroachment by junior appropriators adversely affecting those senior rights.

Montana Power Co., 211 Mont. at 97-98, 685 P.2d at 340; *see also* Mont. Const. art. IX §3(1).

13. An appropriation, diversion, impoundment, use, restraint, or attempted appropriation, diversion, impoundment, use, or restraint contrary to the provisions of § 85-2-311, MCA is invalid. An officer, agent, agency, or employee of the state may not knowingly permit, aid, or assist in any manner an unauthorized appropriation, diversion, impoundment, use, or other restraint. A person or corporation may not, directly or indirectly, personally or through an agent, officer, or employee, attempt to appropriate, divert, impound, use, or otherwise restrain or control waters within the boundaries of this state except in accordance with this § 85-2-311, MCA. Section 85-2-311(6), MCA.

14. The Department may take notice of judicially cognizable facts and generally recognized technical or scientific facts within the Department's specialized knowledge, as specifically identified in this document. ARM 36.12.221(4).

PHYSICAL AVAILABILITY

FINDINGS OF FACT

15. The Applicant proposes to divert water year-round from three wells at a cumulative rate of 142 GPM and volume of 229. AF for water marketing use from January 1 to December 31. All three wells will be manifolded, and water pumped to three storage ponds for customer extraction. The aquifer testing for the three wells was conducted in 2013 and data submitted with Application 42M 30068052. Groundwater level data during the 72-hour test were collected with In-Situ Level Troll Model 700 dataloggers in production Well No. 1 and monitoring Well No. 3, and a Solinst Levelogger Gold pressure transducer in Monitoring Well No. 2. The discharge was measured with a SeaMetrics magnetic flow meter.

16. The Applicant provided an updated Aquifer Testing Addendum and Aquifer Test Data Form (Form 633) with this application. A variance from the aquifer test requirements ARM 36.12.121(3)(a) was requested by the Applicant because pumping in the production well was not maintained at a constant discharge rate. The variance request was reviewed by DNRC Groundwater Hydrologist, Jack Landers, on the Aquifer Testing Requirements Review, dated March 27, 2024, and it was confirmed that the aquifer properties could be analyzed with the information provided in Form 633. The variance was granted by the Glasgow Regional Manager, Lih-An Yang on April 3, 2024.

17. The proposed wells are completed in a 20-40 ft thick sandstone aquifer that is located between 100-140 ft below ground surface (BGS) locally. All three wells are completed in the Fort Union Formation. See Table 1:

Table 1: Production Well Information

Well #	GWIC ID	Depth (ft) – Below Ground Surface	Screened Interval (ft) – Below Ground Surface	Static Water Level (ft) - (Below Top of Casing)
1	274077	160	122-157	109
2	274075	160	130-155	112
3	268662	160	150-160	110

18. The Department-completed Technical Analysis, dated May 17, 2024, evaluated the groundwater physical availability in the source aquifer. Availability is determined by calculating groundwater flux through a zone of influence (ZOI) corresponding to the 0.01-ft drawdown contour. The three proposed wells were modeled as one well at the center of the proposed points

of diversion due to their close proximity to each other. Using the Theis (1935) confined solution, a constant pumping rate of 142 GPM for the period of diversion, a transmissivity (T) value of 1,706 ft^2/day, and storativity (S) of 3.5 x 10-5, and including the Yellowstone River as a constant head boundary at a distance of 30,000 ft from the pumping well, the 0.01-ft drawdown contour is modeled to extend 450,000 ft from the Applicant's wells. The 0.01-ft drawdown contour extends farther to the northeast and southwest due to the effects of the Yellowstone River constant head boundary. The contour was truncated to the Missouri River alluvium to the north and the mapped extent of the Tongue River Member aquifer to the northwest. With the groundwater flow direction predominantly from west to east the width of the ZOI that is perpendicular to groundwater flow is 508,000 ft. The calculation for groundwater flux (Q) through the delineated area is given by the equation **Q=Twi**, where:

T = Transmissivity = 1,706 ft^2/day

W = Width of Zone of Influence = 508,000 ft

i = Groundwater Gradient (from Slagle, 1983, and Patton et al., 1998 water level contour map) = 0.005 ft/ft.

The calculated aquifer flux through the ZOI is 4,333,240 ft^3/day, or 36,309 AF/year.

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

19. The public submitted 18 comments on physical availability, and these comments raised 13 issues.

20. Issue 1: Three commenters took issue with the Department's determination that ARM 36.12.121(3) was satisfied and denoted that the proposed flow rate of 142 GPM under this Application cannot be obtained from a single well. ARM 36.12.121(3)(c) requires in such situations that the "[t]he proposed pumping rate [142 GPM] may be demonstrated by testing multiple wells as long as [ARM 36.12.121(3)(e), requiring a 24 hour aquifer test for proposed pumping rates and volumes equal to or less than 150 GPM/50AF or a 72 hour test for pumping rates and volumes greater than 150 GPM/50AF] is met by one well and the remaining flow rate is demonstrated by eight-hour drawdown and yield tests on additional production wells under [ARM 36.12.121(3)(e)(ii) and (iii)]."The commentors indicated the Applicant only conducted one 72-hour test of Well No. 2, and one 24-hour test of each of Wells No. 1 and No. 3. Because the Applicant's proposed pumping rate is less than 150 GPM, but the cumulative volume is greater than 50 AF,

commenters questioned whether ARM 36.12.121(3)(c) and (e) were satisfied, and whether sufficient pumping data was collected to determine if 229 AF is physically available. (Commenter: Bennion, Topp, Goss)

21. Response 1: ARM 36.12.121(3)(c) states that "the proposed pumping rate may be demonstrated by testing multiple wells as long as (e) is met by one well and the remaining flow rate is demonstrated by eight-hour drawdown and yield tests on additional production wells under (e)(ii) and (e)(iii)". This application is for multiple wells (three) for a combined total of 142 GPM. The requested flow rate was demonstrated from the combination of three pumping tests; Well No. 1 was pumped at 59.1gpm for 24 hours, Well No. 2 was pumped at 37.8 GPM for 72 hours; Well No. 3 was pumped at 45.9 GPM for 24 hours, for a combined total of 142.8 GPM. The Department concludes that the requirements in ARM 36.12.121(3)(e) were met from the aquifer test of Well No. 2. Well No. 1 and Well No. 3 were required to be pump tested for eight hours only. (Commenter: Bennion, Topp, Goss)

22. Issue 2: Two commenters took issue that observation wells were not utilized during yield tests. Commenter questioned whether sufficient drawdown data was collected for Wells No. 1 and No. 3, which may affect the Department's determination of physical availability for all three wells. (Commenter: Bennion, Goss)

23. Response 2: ARM 36.12.121(3)(e)(iii) states that "[t]he testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h)". The requirement for observation wells is found in ARM 36.12.121(3)(f), and is not required for any additional minimum eight-hour drawdown and yield tests. (Commenter: Bennion, Goss)

24. Issue 3: One commenter questioned whether sufficient data was collected from Well No. 3, and whether ARM 36.12.121(3)(c) and (e) are satisfied if the 24-hour test of Well No. 3 did not result in a sufficient drawdown or yield test. (Commenter: Bennion)

25. Response 3: The Department concludes that the Applicant met the requirements of ARM 36.12.121 (3)(e) regarding additional eight-hour drawdown and yield testing requirements. Data collected from eight-hour drawdown and yield tests are simply meant to demonstrate adequacy of diversion and rarely used to model aquifer properties of transmissivity and storage. Data collected from the 72- hour pumping test completed in Well No. 2 was sufficient to derive aquifer properties of transmissivity and storage that was used to model physical availability of the aquifer. (Commenter: Bennion)

26. Issue 4: One commenter questioned whether ARM 36.12.121 (3)(f) has been satisfied because the Applicant used each of the production wells as "observation wells" for the respective pumping tests of each well, instead of using independent monitoring wells. Yet, the Applicant states in its Aquifer Test Addendum that "[o]bservation wells were not utilized" in the 24-hour test of Well No. 1 "because this test was intended to demonstrate the yield of Well No. 1." Applicant states the same for the test of Well No. 3. Commenter questioned whether sufficient drawdown data was collected for Wells No. 1 and No. 3, which may affect the Department's determination of physical availability for all three wells. (Commenter: Bennion)

27. Response 4: ARM 36.12.121(3)(f) requires "one or more observation well must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well." Monitoring other production wells completed in the same aquifer that are close enough to show a response to pumping in the tested well meets this requirement. There is no requirement that a well must be specifically designated as an observation well, and that well cannot be used for anything else. The lack of observation wells for the additional drawdown and yield tests is addressed in Finding of Fact 23. (Commenter: Bennion)

28. Issue 5: Two commenters questioned whether the wells were completed at sufficient distances from each other to accurately predict drawdown in the entire zone of influence. ARM 36.12.121(3)(f) requires that they be "far enough that well hydraulics do not affect the observation well" yet draft preliminary determination states that groundwater physical availability in the source aquifer was evaluated by modeling the three wells "as one well ... due to their close proximity to each other." (Commenter: Bennion, Goss)

29. Response 5: ARM 36.12.121(3)(f) requires "one or more observation well must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well.". Only one observation well is required, and the Applicant has met that burden. The "well hydraulics" in question relate to the effects of aquifer loss (wellbore storage), linear well loss (wellbore skin and well partial penetration.) and non-linear well loss (turbulent loss, as water enters the well screen). DNRC analyzed the aquifer drawdown data in the production and observation wells and determined that the proximity of those observation wells was appropriate for those wells to be used as observation wells. (Commenter: Bennion, Goss)

30. Issue 6: One commenter expressed concern that Well No. 1 did not exhibit sufficient drawdown during the 72- hour test of Well No. 2, thus data was limited to Well No. 2 and Well No. 3 for the 72- hour test. The Applicant's Aquifer Test Addendum explains that "[r]ecovery data [was] not recorded for Well No. 1 because the transducer became lodged in the well following re-programming and could not be re-installed." Thus, commenter questioned whether ARM 36.12.121(3)(f) was satisfied when insufficient drawdown was measured in Well No. 1, and when recovery data was not recorded for Well No. 1. (Commenter: Bennion)

31. Response 6: ARM 36.12.121(3)(f) requires "one or more observation well must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well." The Department concludes this requirement was met by observing drawdown in Well No. 3, during the 72- hour constant rate test of well No. 2. (Commenter: Bennion)

32. Issue 7: One commenter expressed concern that ARM 36.12.121(3)(g) was not adequately met. ARM 36.12.121(3)(g) requires that "[b]ackground groundwater levels in the production well and observation well(s) must be monitored at frequent intervals for at least two days prior to beginning the aquifer test according to Form No. 633." The May 17, 2024, Technical Analyses Report states that background groundwater levels were only monitored for 24 hours prior to the 24-hour aquifer tests. However, the Aquifer Test Addendum states that no background water level data was recorded for the tests of Wells No. 1 and No. 3. The commenter considered this to be a violation of ARM 36.12.121(3)(g) and questioned whether sufficient background information was collected to determine whether the physical availability criteria is satisfied. (Commenter: Bennion)

33. Response 7: ARM 36.12.121(3)(e)(iii) states that "[t]he testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h)." The requirement for observation wells is found in ARM 36.12.121(3)(f) and background groundwater level measurements for observations wells is found in ARM 36.12.121(3)(g) and are not required for any additional minimum eight-hour drawdown and yield tests. (Commenter: Bennion)

34. Issue 8: One commenter has concern about the age of the aquifer test used to evaluate the criteria for this application. Aquifer testing was completed in 2013 and reviewed in 2024. The

commenter is concerned that the 2013 aquifer may not represent the present aquifer. (Commenter: Dunagan)

35. Response 8: The 2013 aquifer tests were adequate for the Department to estimate aquifer properties. These properties were found reasonable when compared to aquifer properties calculated from existing, nearby aquifer test data. Aquifer properties such as, but not limited to, hydraulic conductivity or specific storage generally do not change over time. Modeled saturated aquifer thickness values may vary due to undulating water table/potentiometric surfaces that rise and fall with groundwater recharge and discharge. However, the modeled saturated aquifer thickness is normally derived using published values, the perforated interval, or derived from nearby wells logs to produce an average value. As such, the date the test was completed does not affect the ability of the Department to estimate aquifer properties. (Commenter: Dunagan)

36. Issue 9: One commenter questioned whether the modeled theoretical maximum drawdown is accurate when the Application is for cumulative pumping of 142 GPM year-round. The commenter cited the May 17, 2024, Technical Analyses Report which explains that "[t]he proposed wells would be pumped simultaneously, therefore the theoretical maximum drawdown for each well was modeled using a flow rate of 47.3 GPM" which appears to be "[t]he mean aquifer test rate and maximum drawdown observed during the three aquifer tests[.]" However, the requested flow rate under the Application is for 142 GPM. (Commenter: Bennion)

37. Response 9: This comment is related to the Department's analysis of adequacy of diversion of each of the respective production wells. Adequacy of diversion is modeled by subtracting the total anticipated drawdown from the available water column. The total anticipated drawdown is the sum of the interference drawdown and predicted drawdown with well loss. The Department followed its standard practice for modeling adequacy of diversion, and a positive number of remaining water column indicates adequacy of diversion works. See the Adequate Means of Diversion section for further discussion. (Commenter: Bennion)

38. Issue 10: One comment expressed concern about the accuracy of the Department's modeling of the source aquifer and estimated drawdown for this application. The commenter cited the Draft Preliminary Determination to Grant document which explains that the wells are completed in the Fort Union Formation. The commenter also cited the May 17, 2024 Technical Analyses Report which explains that the "wells are completed in the shallow hydrologic unit consisting of the Tongue River Member of the Fort Union Formation" which has "many thin, discontinuous, and alternating beds that may act as local boundaries, but on a regional scale they

function as one continuous aquifer." Thus, it appears to the commenter that the aquifer is heterogenous, yet the Department's large estimation of groundwater flux and legal demands assumes the aquifer is homogenous. The commenter questioned whether the estimated drawdown in the hundreds of wells identified by the Department is accurate. (Commenter: Bennion)

39. Response 10: The zone of influence (ZOI) (0.01-ft drawdown contour) used to calculate groundwater flux and assess legal demands was modeled using aquifer properties derived from the 2013 aquifer test. The ZOI was truncated to the extent of the aquifer identified from geologic maps. No other geologic features that may limit the extent of the ZOI were identified. In addition, no information was identified by the Department to indicate significant variations in aquifer properties that would influence propagation of drawdown through the ZOI (Aquifer Property Comparison, Table 3, Groundwater Permit Technical Analyses Report). On a regional scale, the Tongue River Member of the Fort Union Formation functions as one continuous aquifer. (Commenter: Bennion)

40. Issue 11: Two comments expressed concern about seasonal variability of physically available water in the proposed source aquifer. The May 17, 2024, Technical Analyses Report explains that recharge to the Tongue River Member aquifer near Sydney "is from infiltration of precipitation, losses from streams, and irrigation water lost by percolation through fields and leakage from ditches." Thus, commenter questioned whether the Applicant and Department have sufficient data to determine whether the physical availability criteria has been satisfied for the requested 142 GPM year-round when the aquifer tests completed by the Applicant were limited to the months of June and August and subject to influence from irrigation that may have affected the aquifer test data collected. (Commenter: Bennion, Panasuk)

41. Response 11: As described in the technical analyses report, the Department's analysis of physical availability (groundwater flux) is a function of the transmissivity of the aquifer, width of the zone of influence (0.01-ft drawdown contour) at the end of one-year use the proposed period of diversion and requested volume, and groundwater gradient. The aquifer tests completed in 2013 were adequate for the Department to model aquifer properties. Aquifer flux is reported as acre-feet/year and is not specific to just the irrigation season. (Commenter: Bennion)

42. Issue 12: Five comments expressed concern that the physical availability criterion was not met because of decreased flow rate in a neighboring well while the Applicant was allegedly pumping water. (Commenters: Burns, Dahl, Youngquist, Casey, Rindahl)

43. Response 12: Pursuant to ARM 36.12.1703, physical availability of groundwater is determined by conducting a groundwater analysis and aquifer test pursuant to ARM 36.12.121. Impacts to wells of existing water rights are considered in the evaluation of adverse effect criteria, not the physical availability criterion. The aforementioned comment is outside the scope of the physical availability analysis for the application at hand and does not impact the Department's evaluation of the physical availability criterion.

44. Issue 13: Three comments expressed concern that the proposed appropriation is for far more than the water which exists under the parcel associated with the proposed point of diversion or located in the groundwater vein. (Commenters: Syth, Smith, Gartner)

45. Response 13: Pursuant to ARM 36.12.1703, physical availability of groundwater is determined by conducting a groundwater analysis and aquifer test pursuant to ARM 36.12.121. As described in the technical analyses report, the Department's analysis of physical availability (groundwater flux) is a function of the transmissivity of the aquifer, width of the zone of influence (0.01-ft drawdown contour) at the end of one-year of the proposed period of diversion and requested volume, and groundwater gradient. The aquifer tests completed in 2013 were adequate for the Department to model aquifer properties. The ZOI extends well beyond the parcel associated with the proposed project, no groundwater vein is documented or observed. Aquifer flux is reported as acre-feet/year.

46. The public comments regarding the physical availability criterion have been addressed in FOF 20-45. Considering the public comments and the original analyses conducted, the Department finds that groundwater is physically available at the proposed point of diversion in the amount that the Applicant seeks to appropriate.

LEGAL AVAILABILITY

FINDINGS OF FACT

Groundwater

47. According to the Department-completed Groundwater Permit Technical Analyses Report there are 1,367 active groundwater rights within the zone of influence that are completed in the source aquifer. The submittal of well data for one groundwater right (42M 20697 00) during the public comment period prompted the Department to add this water right to the list of legal demands. See Appendix A for the list of these legal demands.

48. To assign volume and flow rate to water rights without a designated volume and flow rate in the zone of influence, the DNRC used the method below:

a. Assigning irrigation and lawn and garden uses with no period of diversion as occurring from April 1 to October 31;
b. Assigning all other water uses with no period of diversion as year-round uses;
c. Assigning either 15 GPD/AU or 30 GPD/AU for Statements of Claim.
d. Groundwater certificates issued without flowrate and volume are quantified by averaging the flow rates and volumes of the other quantified groundwater certificates in the zone of influence per Department Standard.
e. Groundwater certificates issued without a volume are quantified by assuming constant diversion and multiplying the flow rate by period of diversion.

49. The legal demands within the ZOI total 10,782 AF per year, which includes the additional water right identified in the public comment period. Compared to groundwater flux of 36,309 AF/year, 25,527 AF/year remain legally available to appropriate after all existing water rights have been satisfied. Table 2 compares the physical groundwater supply, current legal demands, and the Applicant's requested volume. The calculations demonstrate that groundwater is legally available for the proposed appropriation.

Table 2: Comparison of Physical Availability, Legal Availability, and requested Volume	
Physical Availability (AF/year)	36,309
Existing Legal Demands (AF/year)	10,782*
Legal Availability = Physical Availability – Existing Legal Demands (AF/year)	25,527*
Requested Appropriation (AF/year)	229
Legal Availability – Requested Appropriation (AF/year)	25,298*

*Updated to include an additional legal demand identified in the public comment period

Surface Water Depletion

50. Per ARM 36.12.1704, the Department is to determine legal availability in any hydraulically connected surface water sources in which water flow could be reduced by any amount as a result of the groundwater appropriation. The Department has determined that the Yellowstone River (6 miles east of well) is hydraulically connected to the source aquifer. According to the Technical Analysis, the proposed use will result in constant year-round depletions to the Yellowstone River near areas where the Tongue River Member outcrops and

where seeps exist along the Yellowstone River valley alluvium. The depleted reach of the Yellowstone River starts at the southern boundary of Section 17, Township 22 North, Range 59, in Richland County (Figure 2).

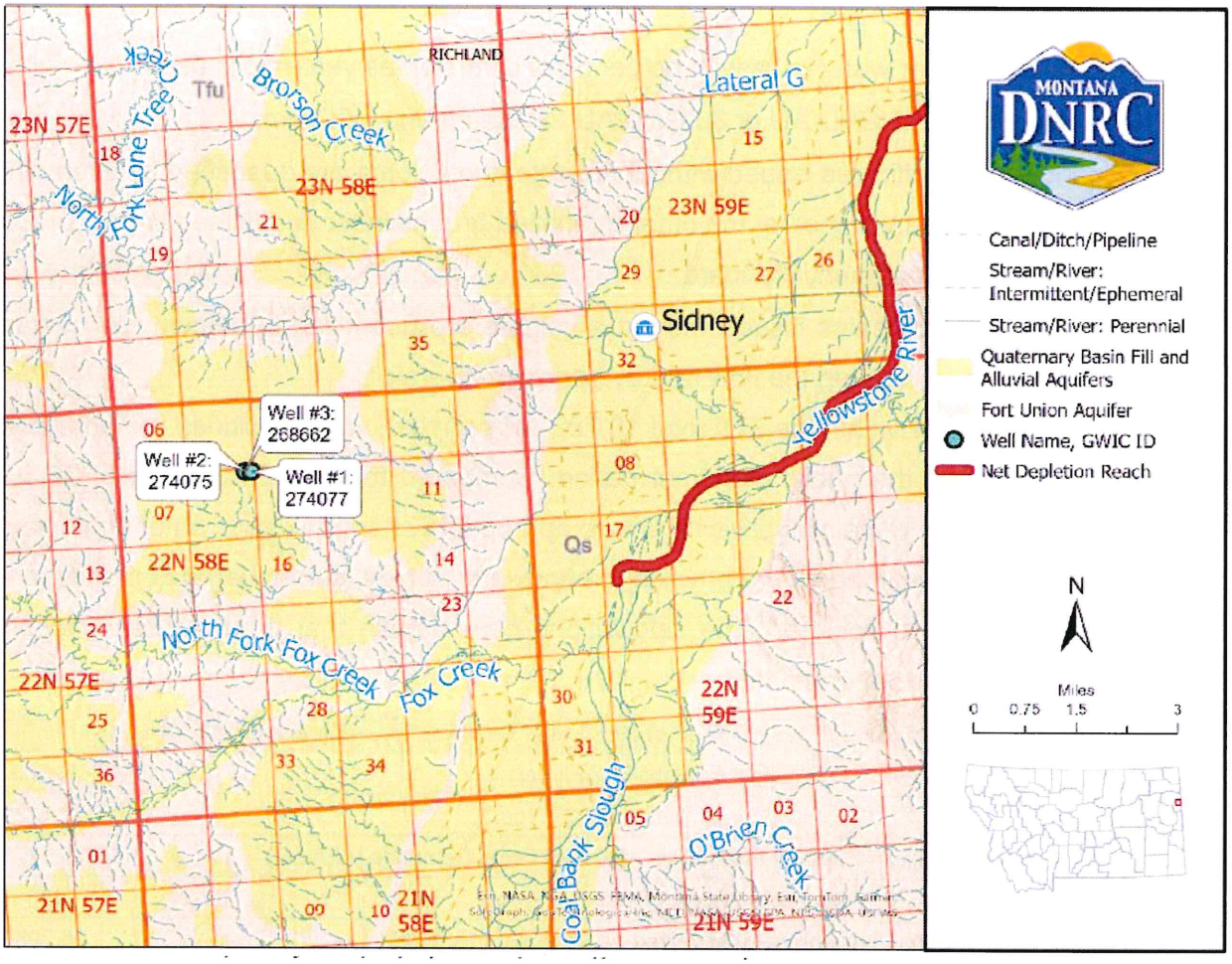

Figure 2: Location of Net Depletion to the Yellowstone River

51. The proposed water marketing use is constant year-round and is considered 100% consumptive. Due to the distance of 6 miles to the Yellowstone River, depletions would accrue at a constant rate equal to the diverted flow rate and volume shown in Table 3.

Table 3: Total Consumed Volume and Net Depletion to Surface Water for the Production Well

Month	Total Consumed Volume (AF)	Yellowstone River Net Depletion (AF)	Yellowstone River Net Depletion (GPM)
January	19.4	19.4	142.0
February	17.6	17.6	142.0

March	19.4	19.4	142.0
April	18.8	18.8	142.0
May	19.4	19.4	142.0
June	18.8	18.8	142.0
July	19.4	19.4	142.0
August	19.4	19.4	142.0
September	18.8	18.8	142.0
October	19.4	19.4	142.0
November	18.8	18.8	142.0
December	19.4	19.4	142.0
Total	229.0	229.0	

52. To determine whether the amount of water to be depleted from the Yellowstone River is legally available, the Department will first determine its physical availability where depletion is identified to begin. Legal demands in the depleted reach are then subtracted from physical availability.

Yellowstone River Physical Availability

53. Per the DNRC provided Technical Analysis, the depleted reach of the Yellowstone River starts at the southern boundary of Section 17, Township 22 North, Range 59 East, Richland County. USGS Gage #06329500 is the nearest gage to the identified depletion on the Yellowstone River. The date range used includes the entire period of record for this gage. Physical availability of Yellowstone River water at the location of the surface water depletion will be quantified monthly. Department practice for physical availability analyses where the gage used is downstream of the start of depletion is to add the monthly flow rates of existing water rights between the gage and the start of surface water depletion to the median of the mean monthly flows at the gage. The DNRC used the method below to quantify physically available monthly flows and volumes at the start of depletion during the proposed period of diversion:

54. The Department calculated median of the mean monthly flow rates in cubic feet per second (CFS) for the Yellowstone River using USGS Gage #06329500 records for each month of the proposed period of diversion (Table 4, column B). Those flows were converted to monthly volumes in AF (Table 4, column C) using the following equation found on DNRC Water Calculation

Guide: median of the mean monthly flow (CFS) × 1.98 (AF/day/1 CFS) × days per month = AF/month.

55. The Department calculated the monthly flows appropriated by existing users upstream of the gage on the source (Table 4, column D) by:

i. Generating a list of existing water rights from the surface water depletion location to USGS Gage #06329500;

ii. Assigning irrigation and lawn and garden uses with no period of diversion as occurring from April 1 to October 31;

iii. Assigning all other water uses with no period of diversion as year-round uses;

iv. Calculating a flow rate for all livestock direct from source rights without a designated flow rate via the following steps per Department standards:

i. Assigning either 30 GPD/AU for Statements of Claim or 15 GPD/AU

ii. Multiplying by the number of Animal Units (AU)

iii. Converting to CFS

iv. Adding that to 35 GPM (converted to CFS)

56. Assuming that the flow rate of each existing right is continuously diverted throughout each month of the period of diversion. This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion. This leads to an overestimation of existing uses from the source. The Department finds this an appropriate measure of assessing existing rights as it protects existing water users.

57. Since the gage used is downstream of the start of surface water depletion, the Department added in the flow rates of the existing rights between USGS Gage #06329500 and the point of surface water depletion (Table 4, column D) to the median of the mean monthly gage values (Table 4, column B) to determine physical availability at the start of depletion (Table 4, column E). Physically available monthly flows were then converted to monthly volumes (Table 4, column F).

Table 4: Physical Availability of the Yellowstone River from the Area of Depletion to USGS Gage #06329500

A	B	C	D	E	F
Month	**Median of the Mean Monthly Flow at Gage 06329500 (CFS)**	**Median of the Mean Monthly Volume at Gage 06329500 (AF)**	**Existing Rights from Surface Water Depletion to Gage 06329500 (CFS)**	**Physically Available Water at POD (CFS)**	**Physically Available Water at POD (AF)**
January	5,656.50	347,195.97	0	5,656.50	347,195.97
February	6,022.50	333,887.40	0	6,022.50	333,887.40

March	9,323.00	572,245.74	0	9,323.00	572,245.74
April	9,132.00	542,440.80	176.22	9,308.22	552,908.27
May	17,490.00	1,073,536.20	176.22	17,666.22	1,084,352.58
June	40,480.00	2,404,512.00	176.22	40,656.22	2,414,979.47
July	21,580.00	1,324,580.40	176.22	21,756.22	1,335,396.78
August	7,516.00	461,332.08	176.22	7,692.22	472,148.46
September	6,789.00	403,266.60	176.22	6,965.22	413,734.07
October	7,803.00	478,948.14	176.22	7,979.22	489,764.52
November	7,297.00	433,441.80	0	7,297.00	433,441.80
December	5,925.50	363,707.19	0	5,925.50	363,707.19

Yellowstone River Legal Availability

58. For the scope of this application, the Department identified the area of potential impact as approximately 11 miles downstream from the area of surface water depletion to the Montana/North Dakota state border. The surface water depletion begins in Lot 4, SWSWSE, Section 17, Township 22N Range 59E, and the river crosses the Montana/North Dakota border in the E2, Section 8 and 17, T23N, R60E. A total of 19 surface water rights exists within this reach. These downstream legal demands are summarized in table 5.

Table 5: Water Rights Downstream of Depletion from the Yellowstone River in the AOPI

A	B	C	D	E
Water Right Number	**Water Right Owner**	**Flow Rate (CFS)**	**Volume (AF)**	**Period of Diversion**
42M 30017772*	MONTANA, STATE OF DEPT OF ENVIRONMENTAL QUALITY; MONTANA, STATE OF DEPT OF FISH WILDLIFE & PARKS	25,140.00	5,492,310.00	01/01 to 12/31
42M 137597 00**	LORI NORBY	0.09	6.87	01/01 to 12/31
42M 137600 00**	MONTANA STATE BOARD OF LAND COMMISSIONERS	0.08	0.48	01/01 to 12/31
42M 137604 00**	MONTANA STATE BOARD OF LAND COMMISSIONERS	0.08	0.68	01/01 to 12/31
42M 137605 00**	MONTANA STATE BOARD OF LAND COMMISSIONERS	0.08	0.20	01/01 to 12/31
42M 137617 00**	MONTANA STATE BOARD OF LAND COMMISSIONERS	0.08	0.68	01/01 to 12/31
42M 165230 00	MONTANA DAKOTA UTILITIES CO	65.50	47,422.00	01/01 to 12/31
42M 31493 00	SIDNEY SUGARS INC	8.91	2,163.00	01/01 to 12/31
42M 104509 00	RICHLAND COUNTY CONSERVATION DISTRICT; SIDNEY SUGARS INC	2.10	412.00	04/01 to 10/01
42M 104422 00	PATRICIA S BELL; RAYMOND L BELL; RICHLAND COUNTY CONSERVATION DISTRICT	4.70	913.00	04/01 to 10/15

42M 30051296	PATRICIA S BELL; RAYMOND L BELL; RICHLAND COUNTY CONSERVATION DISTRICT	1.10	136.00	04/01 to 10/15
42M 119268 00****	SIDNEY WATER USERS IRRIGATION DISTRICT	-	-	04/01 to 10/31
42M 119269 00	SIDNEY WATER USERS IRRIGATION DISTRICT	133.22	37,845.00	04/01 to 10/31
42M 119271 00***	SIDNEY WATER USERS IRRIGATION DISTRICT	-	-	04/01 to 10/31
42M 119272 00	SIDNEY WATER USERS IRRIGATION DISTRICT	43.00	33.30	04/01 to 10/31
42M 114728 00	RICHLAND COUNTY CONSERVATION DISTRICT; MICHAEL STEFFAN	1.70	271.00	04/01 to 11/01
42M 80579 00	RICHLAND COUNTY CONSERVATION DISTRICT; T4 FAMILY LIMITED PARTNERSHIP	8.70	870.00	04/01 to 11/01
42M 3656 00	BELL, RYAN & NICOLE FAMILY TRUST	3.00	118.30	05/01 to 09/01
42M 6815 00	RIDGELAWN COUNTY WATER & SEWER DIST	12.00	2,200.00	05/01 to 09/15

*42M 30017772 is a FWP instream flow reservation.
**Livestock Direct from Source - Flow Rate assigned using the standard of 30 GPD/AU plus 35 GPM. Volume assigned using the standard of 0.034 AF/Year/AU.
***Irrigation District Filing – Redundant to Statement of Claim 42M 119272
****Irrigation District Filing – Redundant to Statement of Claim 42M 119269

59. The comparison between physically and legally available water in the Yellowstone River is shown in Table 6 below, indicating that water is legally available for the proposed appropriation.

Table 6: Legal Availability Analysis of Yellowstone River from Area of Depletion to MT Border

A	B	C	D	E	F	G
Month	**Physically Available Water (CFS)**	**Physically Available Water (AF)**	**Existing Legal Demands between Surface Water Depletion and MT Border (CFS)**	**Existing Legal Demands between Depletion and MT Border (AF)**	**Legally Available Water (CFS)**	**Legally Available Water (AF)**
January	5,656.50	347,195.97	3,812.81	234,422.98	1,843.69	112,772.99
February	6,022.50	333,887.40	4,401.81	244,428.59	1,620.69	89,458.81
March	9,323.00	572,245.74	6,852.81	421,302.98	2,470.19	150,942.76
April	9,308.22	552,908.27	7,077.33	421,029.34	2,230.89	131,878.93
May	17,666.22	1,084,352.58	12,248.33	752,980.31	5,417.89	331,372.27
June	40,656.22	2,414,979.47	25,424.33	1,512,533.34	15,231.89	902,446.13
July	21,756.22	1,335,396.78	10,810.33	664,542.31	10,945.89	670,854.47
August	7,692.22	472,148.46	2,954.33	181,618.31	4,737.89	290,530.15
September	6,965.22	413,734.07	3,557.33	211,628.14	3,407.89	202,105.93
October	7,979.22	489,764.52	6,275.23	385,779.72	1,703.99	103,984.80
November	7,297.00	433,441.80	5,922.81	352,363.85	1,374.19	81,077.95
December	5,925.50	363,707.19	4,072.81	250,405.98	1,852.69	113,301.21

60. Refer to Table 3 for the modeled monthly net depletions to the Yellowstone River. Table 7 below demonstrates remaining availability on the Yellowstone River after the predicted monthly depletions:

Table 7: Yellowstone River Availability after Depletion from Production Wells						
A	B	C	D	E	F	G
Month	Legally Available Water (CFS)	Legally Available Water (AF)	Yellowstone River Net Depletion (CFS)	Yellowstone River Net Depletion (AF)	Legally Available Water After Depletion (CFS)	Legally Available Water After Depletion (AF)
January	1,843.69	112,772.99	0.32	19.4	1,843.37	112,630.99
February	1,620.69	89,458.81	0.32	17.6	1,620.37	89,316.81
March	2,470.19	150,942.76	0.32	19.4	2,469.87	150,800.76
April	2,230.89	131,878.93	0.32	18.8	2,230.57	131,736.93
May	5,417.89	331,372.27	0.32	19.4	5,417.57	331,230.27
June	15,231.89	902,446.13	0.32	18.8	15,231.57	902,304.13
July	10,945.89	670,854.47	0.32	19.4	10,945.57	670,712.47
August	4,737.89	290,530.15	0.32	19.4	4,737.57	290,388.15
September	3,407.89	202,105.93	0.32	18.8	3,407.57	201,963.93
October	1,703.99	103,984.80	0.32	19.4	1,703.67	103,842.80
November	1,374.19	81,077.95	0.32	18.8	1,373.87	80,935.95
December	1,852.69	113,301.21	0.32	19.4	1,852.37	113,159.21

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

61. The public submitted 12 comments regarding legal availability, and these comments raised six issues.

62. Issue 1: One commenter expressed concern that the Department did not consider springs in its surface water depletion analysis, even though springs may be hydraulically connected to the source aquifer. They also expressed concern that Spring Coulee and North Fork Fox Creek were not identified as hydraulically connected sources. Case Law: Flathead Lakers Inc. v. DNRC (Flathead Lakers II) 2023 MT 85, 55 was cited- Springs weren't considered, but could be hydraulically connected. (Commenters: Bennion)

63. Response 1: As cited in the technical analysis report, standard practices outlined in the DNRC 2018 Technical Memorandum: Net Surface Water Depletion from Groundwater Pumping were followed when assessing net depletions to hydraulically connected surface waters. The standard practices for evaluating net depletion are believed to be generally adequate to provide

substantial credible evidence necessary to evaluate criteria under §85-2-311, MCA. Hydraulic connection of surface water(s) to an unconfined source aquifer of a proposed well is based on an iterative consideration of proximity and comparison of ground water elevations relative to surface water, bed elevations of potentially affected sources. The Department only considers perennial sources in its assessment of hydraulically connected surface waters. A perennial source has flowing water year-round and suggests the source is connected to groundwater. Hydraulic connection of individual stream reaches to groundwater is evaluated by comparing streambed elevations to static ground water elevations measured in wells less than 50 feet deep and within 1,000 feet of surface water or from published water table maps. The Department's assessment relies on existing, publicly available data such as well logs, MBMG publications, the National Hydrography Dataset (NHD), and USGS Probability of Streamflow Permanence (PROSPER) web application. Identifying the source of supply for springs or assessing the hydrologic connection between intermittent streams to the source aquifer is difficult, unless water chemistry data or existing studies have been completed and provided to the Department for consideration. For this application, information about nearby springs and flow regimes in nearby intermittent streams was not available. The Department may deviate from standard practices for evaluation of net depletion if an applicant provides credible information to support a different evaluation. (Commenter: Bennion)

64. Issue 2: One commenter wrote that legal availability is founded upon the assessment of physical availability. Two commenters asserted that physical availability criterion has not been satisfied for groundwater and surface water, therefore the legal availability criterion has not been satisfied. (Commenters: Bennion, Ries)

65. Response 2: No information was provided by the commenters to disprove the legal availability assessment. Without information to show how the criterion was not met, the Department has nothing to update in the decision document. The commenter may file an objection to legal availability with facts indicating how the legal availability criterion has not been met. (Commenter: Bennion, Ries)

66. Issue 3: One commenter expressed concern with the legal availability criterion assessment because no monitoring well is required, the Applicant self-reports once a year, and the water contract seems speculative. (Commenter: Goss)

67. Response 3: These points are not related to legal availability. It is not Department standard practice to require monitoring wells for its determination of legal availability. The condition for a

monthly record of flow rate and volume, with submission either annually or upon request, is a standard condition for water marketing and is unrelated to the speculation. Water marketing applications are in good faith and show a bona fide intent to appropriate water for a beneficial use if they document items presented in §85-2-310(8)(c)(v)(A)-(D), MCA. (Commenter: Goss)

68. Issue 4: Multiple commenters observed a decrease of pumping performance in nearby wells. These observations included both first-hand observations and a description of the neighbors' experiences. One commenter linked the decreased well performance with the proposed appropriation, while the other commenter identified well problems as a legal availability concern. (Commenters: Topp, T. Panasuk)

69. Response 4: The determination of legal availability is defined by rule (ARM 36.12.1704, ARM 36.12.1303(4)(a)(vi), and ARM 36.12.1303(4)(b)(d)) and standard practice, which do not include observed performance in nearby wells. The Department's legal availability analysis followed the methods defined in rules and standard practice. (Commenters: Topp, T. Panasuk)

70. Issue 5: One commenter pointed to a lack of legal availability based on inability to make a call on groundwater as well as observations of neighbors' well concerns. (Commenter: Topp)

71. Response 5: The determination of legal availability is not related to valid calls on sources. The Department's legal availability analysis followed the methods defined in rule and standard practice. (Commenter: Topp)

72. Issue 6: Water has already been sold in violation of 85-2-302(1) MCA. (Commenter: T. Panasuk)

73. Response 6: Whether an applicant is in violation of §85-2-302(1), MCA, does not influence the criteria assessment conducted pursuant to §85-2-311, MCA. (Commenter: T. Panasuk)

74. The public comments regarding the legal availability criterion have been addressed in FOF 62-73. The Department has updated the criteria analysis to include an additional legal demand. Considering the public comments and the updates analyses conducted, the Department finds that groundwater is legally available during the period in which the Applicant seeks to appropriate, in the amount requested.

ADVERSE EFFECT

FINDINGS OF FACT

75. Water is physically and legally available for both groundwater and hydraulically connected surface waters in all months of the proposed period of diversion. If a call is made, the Applicant

will make the necessary adjustments including cessation of diversion, to ensure that senior water rights are satisfied.

76. The Department-completed Technical Analysis modeled the extent of drawdown in existing wells for proposed conditions with the following inputs: Theis (1935) solution, a T value of 1,706 ft^2/day, S value of 3.5 x 10-5, the monthly pumping schedule identified in Table 8 for a period of five years, and a constant head boundary at the Yellowstone River 30,000 ft from the proposed wells. The drawdown is the largest at the end of the fifth year using the proposed pumping schedule. The 1-ft drawdown contour is predicted to occur 100,000 ft from the Applicant's wells. Appendix B lists 244 groundwater rights that would experience drawdown greater than or equal to 1 ft from the proposed use. This list includes an additional water right that was not previously considered because the Department did not have its well data. The well data was subsequently supplied by the water right owner during the public comment period. A comparison between the modeled drawdown and the existing static water level is shown in Appendix B, Table 11, indicating that all of these rights have available drawdown (Table 11, Column F).

Table 8: Assumed Monthly Pumping Schedule for the Production Well

A	B	C	D
Month	**Total Diverted Flow Rate (GPM)**	**Total Diverted Volume (AF)**	**Total Consumed Volume (AF)**
January	142.0	19.4	19.4
February	142.0	17.6	17.6
March	142.0	19.4	19.4
April	142.0	18.8	18.8
May	142.0	19.4	19.4
June	142.0	18.8	18.8
July	142.0	19.4	19.4
August	142.0	19.4	19.4
September	142.0	18.8	18.8
October	142.0	19.4	19.4
November	142.0	18.8	18.8
December	142.0	19.4	19.4
Total		229.0	229.0

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

77. The public submitted 21 comments regarding adverse effect, and these comments raised four issues.

78. Issue 1: One public comment remarked that the adverse effect criterion should be considered unsatisfied because they disputed the application having met the physical availability and legal availability criteria. (Commenter: Bennion)

79. Response 1: The Department has found by a preponderance of the evidence that the physical and legal availability criteria have been met. (Commenter: Bennion)

80. Issue 2: Ten public comments expressed concerns about drawdown in nearby wells from the proposed appropriation causing adverse effects to existing water users. (Commenters: Averett, Bennion, B. Panasuk, Dunagan, Ries, Anvik, Smith, Syth, T. Panasuk, Gallagher)

81. Response 2: In the adverse effect criterion analysis, the Department evaluated how water levels in wells of prior water rights could be lowered by the proposed appropriation (using data available to the Department). Statute is clear that priority of appropriation does not include the right to prevent changes by later appropriators in the condition of water occurrence such as the lowering of a water table or artesian pressure if the prior appropriator can reasonably exercise their right. This issue has been further discussed in previous hearing orders issued by the Department (see permit application 76LJ 81523-00). The Department hearing order found "to hold that an appropriator is entitled to maintenance of a certain static water level or a shallow well barely penetrating the aquifer against any subsequent appropriators would be to allow a single appropriator or a limited number of appropriators to control an entire aquifer simply to make their own means of diversion easier and less costly. Both case law and statutes controvert such a result" (see proposal for decision issued August 26, 1994, on permit application 76LJ 81523-00). (Commenters: Averett, Bennion, B. Panasuk, Dunagan, Ries, Anvik, Smith, Syth, T. Panasuk, Gallagher)

82. Issue 3: Three comments expressed concern about the Department's identification of the area of potential adverse effect for the proposed appropriation. (Commenters: Bennion, Goss, McChesney)

83. Response 3: The Department determined the area of potential adverse effect (1-foot drawdown contour) using the following inputs: estimated aquifer properties, distances to hydrologic boundaries (constant head/no flow, if present), proposed pump schedule for five years, and not taking into consideration recharge to the aquifer. If data has not been provided to the Department such as a well's location, depth or static water level, the Department cannot quantify the remaining available water column in the existing well. A list of active groundwater rights within

the 1-foot drawdown contour for which the Department does not possess well data has been added to this decision document as Appendix C. (Commenters: Bennion, Goss, McChesney)

84. Issue 4: One comment disputed the Applicant's ability to heed a valid call for water in the instance water shortage occurs. (Commenter: Bennion)

85. Response 4: The Department assessed the adverse effect criterion by evaluating the Applicant's plan to comply with a valid call. In the Applicant's plan to address adverse effect for this application, the Applicant attests that the appropriation of fresh water can be reduced or stopped in the instance a valid call is made. The Department found this plan to respond to valid call adequate by a preponderance of the evidence. (Commenter: Bennion)

86. The public comments regarding the adverse effect criterion have been addressed in FOF 78-85. The Department has updated the criteria analysis to include an additional water right in the 1-foot drawdown contour. Considering the public comments and the updated analyses conducted, the Department finds the proposed use of 142 GPM and 229 AF will not have an adverse effect because the amount of water requested is legally available and the Applicant's plan to curtail appropriation during times of water shortage is adequate.

ADEQUATE MEANS OF DIVERSION

FINDINGS OF FACT

87. Water will be diverted via three wells, all located in the NENENE, Section 8, T22N, R58E. Wells No. 1 and No. 2 have a casing diameter of 5 inches and Well No. 3 has a casing diameter of 6 inches. All three wells were drilled to a depth of 160 ft and pump water through a 2-inch PVC. Wells No. 1 and No. 2 contain a 5-HP 60FA5SA-PE Franklin Electric submersible pump, and Well No. 3 contains a 3-HP 60FA3SE-PE. Wells No. 1, No. 2 and No. #divert water at a rate of 59 GPM, 37 GPM, and 46 GPM, respectively. Pump curves were provided by the Applicant to demonstrate the requested flow rate is within the operating range.

88. From the wells, water is pumped to a pitless adapter, which is located 7 ft below surface. Water then exits the well bore via a 2-inch PVC pipe, and travels 38 ft east of Well No. 1, 470 ft east of Well No. 2, and 529 ft east of Well No. 3 to the surface. The 2-inch PVC pipe connects to a 2-inch shut off valve and back flow prevention valve at the surface. From here, water runs into a distribution manifold constructed of 6-inch schedule 80 PVC pipe. The manifold is reduced to a 4-inch schedule 80 PVC pipe and then fitted to a 4-inch McCrow Meter flow meter.

89. Water is then conveyed via four connected sections of 300-ft lay flat pipe to three lined storage ponds. A shut off valve is located at the end of the lay flat pipe. The three storage ponds are located next to each other, but are not connected, and will be filled independently. All three storage ponds have a surface area of 250 x 350 ft. The storage pond furthest to the west has a depth of 14 ft and the remaining two are 12 ft deep.

90. It will be the customers' responsibility to remove water from the pond for use. The Applicant plans to maintain a steady flow in the winter months to assist in freezing prevention. The customer will be responsible for any heating devices needed for extraction if freezing does occur.

91. The Applicant proposed to control the flow rate multiple ways. Because three wells are being used, one or more can be shut off as needed to reduce flow. The Applicant also proposed the installation of a Nelson 800 Series Control Valve on the 4-inch discharge pipe which would allow the flow rate to be set and adjusted as needed. A 2 to 3-in fitting could also be installed on the 4-in discharge line to restrict flow.

92. As identified in Table 9, total drawdown is the sum of interference drawdown and predicted drawdown with well loss. Well loss is calculated by dividing the predicted theoretical maximum drawdown by a well efficiency value. Well efficiency is calculated by dividing the modeled maximum drawdown for the aquifer test by the maximum observed drawdown of the aquifer test.

93. The mean aquifer test rate and maximum drawdown observed during the three aquifer tests conducted on each well were used to model the predicted drawdown and well efficiencies. The May 17, 2024, Groundwater Permit Technical Analysis Report had initially modeled the theoretical maximum drawdown using the proposed constant year-round flow rate of 142.0 GPM distributed evenly to the three proposed wells (47.3 GPM). After reviewing the issue raised in FOF 36, the Department noted an error in its drawdown analysis and provided a correction in the Groundwater Permit Technical Analyses Report—Notice of Errata, dated January 7, 2025. The Department updated the modeling with each well's proposed flow rate, versus the previously used average (47.3 GPM). The proposed flow rate for Well No. 1 is 59.0 GPM, for Well No. 2 is 37.0 GPM, and for Well No. 3 is 46.0 GPM. The updated analysis shows that the aquifer adjacent to Well No. 1, Well No. 2, and Well No. 3 would experience a predicted total drawdown of 35.5, 48.4, and 41.1 ft respectively at the end of the first year. The remaining available water column for Well No. 1, Well No. 2, and Well No. 3 is 13.0, 6.1, and 17.6 ft respectively and is equal to the available drawdown above the bottom of the well minus total drawdown and accounting for 2-ft of well casing stickup above ground surface (see Table 9).

Table 9: Remaining Available Water Column for the Proposed Wells			
Drawdown Estimate	**Well No. 1**	**Well No. 2**	**Well No. 3**
Total Depth at Bottom of Perforated Interval (ft btc)	159.0	157.0	162.0
Pre-Test Static Water Level (ft btc)	110.5	102.4	103.3
Available Drawdown Above Bottom of Well (ft)	48.5	54.6	58.7
Observed Drawdown of Aquifer Test (ft)	20.2	27.9	22.4
Modeled Drawdown Using Mean Aquifer Test Rate (ft)	10.6	6.8	8.2
Well Efficiency (%)	52%	24%	37%
Predicted Theoretical Maximum Drawdown (ft)	13.7*	8.6*	10.6*
Predicted Drawdown with Well Loss (ft)	26.2*	35.2*	29.0*
Inference Drawdown (ft)	9.3*	13.2*	12.1*
Total Drawdown (ft)	35.5*	48.4*	41.1*
Remaining Available Water Column (ft)	**13.0***	**6.1***	**17.6***

*Values have been updated per Groundwater Permit Technical Analyses Report – Notice of Errata.

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

94. The public submitted nine comments. These comments had significant overlap in issues, with only three main issues raised. One comment was not relevant to criteria assessment.

95. Issue 1: Three comments questioned how the Applicant has proven that it can pump the requested flow rate of 142 GPM from the three wells simultaneously for the requested year-round period of diversion. The Application states that the wells are to be pumped simultaneously at a cumulative flow rate of 142 GPM. However, the comments pointed out that the aquifer testing was completed on each well separately, at different times, for different durations, at flow rates less than the cumulative flow rate requested under the Application, and at varying discharge rates, which necessitated a variance from ARM 36.12.121(3)(a). (Commenter: Bennion, similar from Ries, McChesney)

96. Response 1: ARM 36.12.121(3)(c) states that "the proposed pumping rate may be demonstrated by testing multiple wells as long as (e) is met by one well and the remaining flow rate is demonstrated by eight-hour drawdown and yield tests on additional production wells under (e)(ii) and (e)(iii)." This application is for multiple wells (three) for a combined total of 142 GPM. The requested flow rate was demonstrated from the combination of three pumping tests; Well No. 1 was pumped at 59.1 GPM for 24 hours, Well No. 2 was pumped at 37.8 GPM for 72 hours; Well No. 3 was pumped at 45.9 GPM for 24 hours, for a combined total of 142.8 GPM. (Commenter: Bennion, similar from Ries, McChesney)

97. Issue 2: (Part 1) Citing the Draft Preliminary Decision to Grant, a commenter pointed out that the modeled drawdown to the aquifer adjacent to Applicant's wells would experience predicted drawdown that would leave only 0.3 ft of available water remaining in the water column for Well No. 2 at the end of the first year. Commenter questioned whether the Applicant has proven the Adequate Diversion criterion based on the high amount of drawdown modeled for Well No. 2 after only one year, and how this impacts the criterion for the entire application, which relies on each well pumping at their maximum capacity. (Part 2) The Department has not stated what the modeled drawdown would be after the first year. (Commenter: Bennion, similar from Burns, Dahl, Youngquist, Casey, Rindahl, Panasuk)

98. Response 2 (Part 1): Adequacy of diversion is modeled by subtracting the total anticipated drawdown from the available water column. The total anticipated drawdown is the sum of the interference drawdown and predicted drawdown with well loss. The Department followed its standard practice for modeling adequacy of diversion, and a positive number of remaining water column indicates adequacy of diversion works. (Commenter: Bennion, Burns, Dahl, Youngquist, Casey, Rindahl). Response 2 (Part 2): Modeled drawdown after the first year is reported in the Technical Analysis Report. See FOF 93 above for further explanation and the Department's updated analysis. (Commenter: Bennion, similar from Burns, Dahl, Youngquist, Casey, Rindahl)

99. Issue 3: The aquifer tests were completed during the irrigation season in June and August. Commenter questioned whether the Applicant has provided sufficient information to estimate year-round impacts from constant, simultaneous pumping of the Applicant's wells as requested under the Application, and whether the Applicant has proven that they can pump the requested flow rate simultaneously year-round. (Commenter: Bennion, Burns, Dahl, Youngquist, Casey, Rindahl)

100. Response 3: As described in the technical analyses report, the Department's analysis of physical availability (aquifer flux) is a function of the transmissivity of the aquifer, width of the zone of influence (0.01-ft drawdown contour) at the end of one-year using the Applicant's proposed period of diversion and requested volume, and groundwater gradient. The aquifer tests completed in 2013 were adequate for the Department to model aquifer properties. Aquifer flux is reported as acre-feet/year and is not specific to just the irrigation season. Aquifer flux exceeded groundwater legal demands. (Commenter: Bennion, Burns, Dahl, Youngquist, Casey, Rindahl)

101. The public comments regarding the adequate means of diversion criterion have been addressed in FOF 95-100. The Department has updated the criteria analysis with each well's

pump rate for the predicted drawdown. Considering the public comments and the updated analyses conducted, the Department finds that the proposed means of diversion and conveyance are capable of diverting the proposed appropriation.

BENEFICIAL USE

FINDINGS OF FACT

102. The Applicant proposes to divert 229 AF of groundwater, year round, at a rate of 142 GPM for the beneficial use of water marketing to oil field development. The general service area is Richland County.

103. The Department does not have a standard water use calculation for water marketing. The requested volume of 229 AF was determined by multiplying the requested flow rate by the number of minutes from January 1 to December 31 and converting to AF/YR. The Applicant states that the customer will purchase the maximum amount of water that the wells can produce. Of the requested 229 AF, 219 AF will be sold for water marketing contract and 10 AF accounts for net evaporation losses from the three storage ponds.

104. Storage pond evaporation was determined in accordance with ARM 36.12.116(1). Each storage pond has a surface area of 2 acres (250 ft x 350 ft). The annual evaporation of 20.16 inches for this area was obtained from the Gridded Net Evaporation Layer in the Departments ArcGIS program, Converge. Multiplying the surface area of all three ponds by the evaporation in feet yields 10 AF (6 AF x 1.7 FT = 10 AF). This use is considered 100% consumptive as water is not expected to return to the source.

105. The requested flow rate of 142 GPM is the total of Wells No.1, No. 2 and No. 3 which are proposed to pump at 59 GPM, 37 GPM, and 46 GPM, respectively. The flow rate for each well is the highest flow rate that was maintained during the aquifer testing.

106. Big Horn Leasing, LLC has signed a Commercial Water Purchase Agreement with EMEP Operating, LLC, (included in the 600 Application attachments) for up to 219 AF per year to be used in Richland County. With the requested 219 AF, the contracted customer could complete approximately 6 frac jobs per year. Each frac requires 11 to 13 million gallons of fresh water. The place of use is located within the service area of Richland County. This agreement includes a service area map, describes the nature of the relationship between the Applicant and each entity, and demonstrates sufficient terms to the bona fide intent to use the water under § 85-2-310(9)(c)(v), MCA.

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

107. The public submitted 13 comments regarding beneficial use, which raised three issues.

108. Issue 1: Twelve comments disputed the Department's evaluation of the beneficial use criterion or expressed that the proposed use will not benefit the citizens/ State of Montana and would only benefit the Applicant. (Commenters: Bennion, Burns, Dahl, Dunagan, Youngquist, Ries, Topp, Casey, Rindahl, Smith, Syth, McChesney)

109. Response 1: MCA 85-2-102(5)(a) defines beneficial use as "a use of water for the benefit of the appropriator, other persons, or the public, including but not limited to agricultural, stock water, domestic, fish and wildlife, industrial, irrigation, mining, municipal, power, and recreational uses". The Department did not evaluate the beneficial use criterion based on the benefit to the state of Montana and its citizens as a whole. The proposed use is water marketing, recognized by the statute as a beneficial use of water (MCA 85-2-310(8)(c)(v)). The Department finds that the Applicant met the beneficial use criterion by a preponderance of the evidence. (Commenters: Bennion, Burns, Dhal, Dunagan, Youngquist, Ries, Topp, Casey, Rindahl, Smith, Syth, McChesney)

110. Issue 2: One comment disputed the Department finding that the water marketing contract submitted comply with the requirements of MCA 85-2-310(8)(c)(v). (Commenter: Bennion)

111. Response 2: The beneficial use applied for is "water marketing." Statute recognizes this as a beneficial use and requires that the Department obtain information detailing each person that will use the marketed water and the amount that person will use, where the water will be used, the relationship between the Applicant and end-user of the water, and a firm contractual agreement for the specified amount of water for each person using the water (§ 85-2-310(8)(c)(v), MCA). A Commercial Water Purchase Agreement was supplied by the Applicant citing Big Horn Leasing, LLC as the seller and EMEP Operating, LLC as the buyer. The agreement stated up to 219 AF per year will be purchased by EMEP Operating, LLC from NENE Section 8, T22N, R58E, Richland County pending the application for the Beneficial Water Use Permit 42M 30163320. The service area for EMEP Operating, LLC is depicted in the purchase agreement exhibit A, which shows all of Richland County. The contract was signed by both parties on March 15, 2024. The Department finds that the Applicant met the beneficial use criterion by a preponderance of the evidence and that the Applicant provided the necessary information for marketed water. (Commenter: Bennion)

112. Issue 3: One comment expressed that the statutory criteria for large uses of water (flow rate over 5.5 CFS and volume of 4,000 AF or greater) should apply, even though the commenter recognizes that the application does not meet these statutory thresholds. (Commenter: Bennion)

113. Response 3: Pursuant to § 85-2-311(1), MCA, an applicant is required to prove the statutory criteria for issuance of a permit by a preponderance of the evidence, except as provided in subsections (3) and (4). The Department does not have the authority to require an applicant to meet the clear and convincing evidence standard for this application, as the provisions of §§ 85-2-311(3) or (4), MCA do not apply to this application. (Commenter: Bennion)

114. The public comments regarding the beneficial use criterion have been addressed in FOF 108-113. Considering the public comments and the analyses conducted, the Department finds the proposed water use is beneficial, and that the requested flow rate of 142 GPM and annual volume of 229 AF is the amount needed to meet the beneficial use.

POSSESSORY INTEREST

FINDINGS OF FACT

115. The Applicant signed the application form affirming the Applicant has possessory interest or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use. A Commercial Water Purchase Agreement with EMEP Operating, LLC dated March 26, 2024, was supplied by the Applicant Big Horn Leasing, LLC. The service area for EMEP Operating, LLC is depicted in the purchase agreement Exhibit A, which shows all of Richland County.

ISSUES RAISED BY PUBLIC COMMENTS AND DEPARTMENT'S RESPONSES

116. The public submitted eight comments regarding possessory interest.

117. Issue: Commenters who disputed the application meeting the Possessory Interest criterion raised various remarks that questioned how the Applicant and/or the eventual water users have proved possessory interest or consent of the person/people with possessory interest over the entire proposed service area. (Commenters: Bennion, Burns, Dahl, Youngquist, Ries, Casey, Rindahl, T. Panasuk)

118. Response: The Applicant demonstrated that it has a water service agreement with EMEP Operating, LLC to provide water to the service area. See COL 155. The Applicant has the possessory interest of the place of use identified in the proposed appropriation, which is the point

of sale located in the NENE Section 8, T22N, R58E, Richland County. Commenters: Bennion, Burns, Dahl, Youngquist, Ries, Casey, Rindahl, T. Panasuk)

119. The public comments regarding the possessory interest criterion have been addressed in FOF 117-118. The Department finds the Applicant has satisfied the possessory interest criterion for the property where the water is to be put to beneficial use.

CONCLUSIONS OF LAW

PHYSICAL AVAILABILITY

120. Pursuant to § 85-2-311(1)(a)(i), MCA, an Applicant must prove by a preponderance of the evidence that "there is water physically available at the proposed point of diversion in the amount that the Applicant seeks to appropriate."

121. It is the Applicant's burden to produce the required evidence. *In the Matter of Application for Beneficial Water Use Permit No. 27665-41I by Anson* (DNRC Final Order 1987) (Applicant produced no flow measurements or any other information to show the availability of water; permit denied); *In the Matter of Application to Change Water Right No. 41H 1223599 by MGRR #1, LLC.,* (DNRC Final Order 2005).

122. An Applicant must prove that at least in some years there is water physically available at the point of diversion in the amount the Applicant seeks to appropriate. *In the Matter of Application for Beneficial Water Use Permit No. 72662s76G by John Fee and Don Carlson* (DNRC Final Order 1990); *In the Matter of Application for Beneficial Water Use Permit No. 85184s76F by Wills Cattle Co. and Ed McLean* (DNRC Final Order 1994).

123. Use of published upstream gauge data minus rights of record between gauge and point of diversion adjusted to remove possible duplicated rights shows water physically available. *In the Matter of Application for Beneficial Water Use Permit No. 41P-105759 by Sunny Brook Colony* (DNRC Final Order 2001)

124. The Applicant has proven that water is physically available at the proposed point of diversion in the amount Applicant seeks to appropriate. Section 85-2-311(1)(a)(i), MCA. (FOF 15-46)

LEGAL AVAILABILITY

125. Pursuant to § 85-2-311(1)(a), MCA, an Applicant must prove by a preponderance of the evidence that:

(ii) water can reasonably be considered legally available during the period in which the Applicant seeks to appropriate, in the amount requested, based on the records of the department and other evidence provided to the department. Legal availability is determined using an analysis involving the following factors:
(A) identification of physical water availability;
(B) identification of existing legal demands on the source of supply throughout the area of potential impact by the proposed use; and
(C) analysis of the evidence on physical water availability and the existing legal demands, including but not limited to a comparison of the physical water supply at the proposed point of diversion with the existing legal demands on the supply of water.

E.g., ARM 36.12.101 and 36.12.120; *Montana Power Co.*, 211 Mont. 91, 685 P.2d 336 (Permit granted to include only early irrigation season because no water legally available in late irrigation season); *In the Matter of Application for Beneficial Water Use Permit No. 81705-g76F by Hanson* (DNRC Final Order 1992).

126. It is the Applicant's burden to present evidence to prove water can be reasonably considered legally available. *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, (2011) Pg. 7 (the legislature set out the criteria (§ 85-2-311, MCA) and placed the burden of proof squarely on the Applicant. The Supreme Court has instructed that those burdens are exacting.); *see also Matter of Application for Change of Appropriation Water Rights Nos. 101960-41S and 101967-41S by Royston* (1991), 249 Mont. 425, 816 P.2d 1054 (burden of proof on Applicant in a change proceeding to prove required criteria); *In the Matter of Application to Change Water Right No. 41H 1223599 by MGRR #1, LLC.*, (DNRC Final Order 2005))(it is the Applicant's burden to produce the required evidence.); *In the Matter of Application for Beneficial Water Use Permit No. 41H 30023457 by Utility Solutions, LLC* (DNRC Final Order 2007) (permit denied for failure to prove legal availability); *see also*_ARM 36.12.1705.

127. Pursuant to *Montana Trout Unlimited v. DNRC*, 2006 MT 72, 331 Mont. 483, 133 P.3d 224, the Department recognizes the connectivity between surface water and ground water and the effect of pre-stream capture on surface water. *E.g., Wesmont Developers v. DNRC*, CDV-2009-823, Montana First Judicial District Court, *Memorandum and Order*, (2011) Pgs. 7-8; *In the Matter of Beneficial Water Use Permit Nos. 41H 30012025 and 41H 30013629 by Utility Solutions LLC* (DNRC Final Order 2006) (mitigation of depletion required), *affirmed*, *Faust v. DNRC et al.*, Cause No. CDV-2006-886, Montana First Judicial District (2008); *see also Robert and Marlene Takle v. DNRC et al.*, Cause No. DV-92-323, Montana Fourth Judicial District for Ravalli County, *Opinion and Order* (June 23, 1994) (affirming DNRC denial of Applications for Beneficial Water Use Permit

Nos. 76691-76H, 72842-76H, 76692-76H and 76070-76H; underground tributary flow cannot be taken to the detriment of other appropriators including surface appropriators and ground water appropriators must prove unappropriated surface water, *citing Smith v. Duff*, 39 Mont. 382, 102 P. 984 (1909), and *Perkins v. Kramer*, 148 Mont. 355, 423 P.2d 587 (1966)); *In the Matter of Beneficial Water Use Permit No. 80175-s76H by Tintzman* (DNRC Final Order 1993)(prior appropriators on a stream gain right to natural flows of all tributaries in so far as may be necessary to afford the amount of water to which they are entitled, *citing Loyning v. Rankin* (1946), 118 Mont. 235, 165 P.2d 1006; *Granite Ditch Co. v. Anderson* (1983), 204 Mont. 10, 662 P.2d 1312; *Beaverhead Canal Co. v. Dillon Electric Light & Power Co.* (1906), 34 Mont. 135, 85 P. 880); *In the Matter of Beneficial Water Use Permit No.* 63997-*42M by Joseph F. Crisafulli* (DNRC Final Order 1990) (since there is a relationship between surface flows and the ground water source proposed for appropriation, and since diversion by Applicant's well appears to influence surface flows, the ranking of the proposed appropriation in priority must be as against all rights to surface water as well as against all groundwater rights in the drainage).

128. Because the Applicant bears the burden of proof as to legal availability, the Applicant must prove that the proposed appropriation will not result in prestream capture or induced infiltration and cannot limit its analysis to ground water. Section 85-2-311(a)(ii), MCA. Absent such proof, the Applicant must analyze the legal availability of surface water in light of the proposed ground water appropriation. *In the Matter of Application for Beneficial Water Use Permit No. 41H 30023457 By Utility Solutions LLC* (DNRC Final Order 2007) (permit denied); *In the Matter of Application for Beneficial Water Use Permit No. 76H-30028713 by Patricia Skergan and Jim Helmer* (DNRC Final Order 2009); *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, (2011) Pg. 5 ; *Wesmont Developers v. DNRC*, CDV-2009-823, First Judicial District Court, *Memorandum and Order*, (2011) Pgs. 11-12.

129. Where a proposed ground water appropriation depletes surface water, Applicant must prove legal availability of amount of depletion of surface water throughout the period of diversion either through a mitigation /aquifer recharge plan to offset depletions or by analysis of the legal demands on, and availability of, water in the surface water source. *Robert and Marlene Takle v. DNRC*, Cause No. DV-92-323, Montana Fourth Judicial District for Ravalli County, *Opinion and Order* (June 23, 1994); *In the Matter of Beneficial Water Use Permit Nos. 41H 30012025 and 41H 30013629 by Utility Solutions LLC* (DNRC Final Order 2006) (permits granted), *affirmed, Faust v. DNRC et al.*, Cause No. CDV-2006-886, Montana First Judicial District (2008); *In the Matter of*

Application for Beneficial Water Use Permit 41H 30019215 by Utility Solutions LLC (DNRC Final Order 2007)(permit granted), *affirmed*, *Montana River Action Network et al. v. DNRC*, Cause No. CDV-2007-602, Montana First Judicial District (2008); *In the Matter of Application for Beneficial Water Use Permit No. 41H 30023457 by Utility Solutions LLC* (DNRC Final Order 2007) (permit denied for failure to analyze legal availability outside of irrigation season (where mitigation applied)); *In the Matter of Application for Beneficial Water Use Permit No. 41H 30026244 by Utility Solutions LLC* (DNRC Final Order 2008); *In the Matter of Application for Beneficial Water Use Permit No. 76H-30028713 by Patricia Skergan and Jim Helmer* (DNRC Final Order 2009)(permit denied in part for failure to analyze legal availability for surface water depletion); *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, (2011) Pg. 5 (Court affirmed denial of permit in part for failure to prove legal availability of stream depletion to slough and Beaverhead River); *Wesmont Developers v. DNRC*, CDV-2009-823, First Judicial District Court, *Memorandum and Order*, (2011) Pgs. 11-12 ("DNRC properly determined that Wesmont cannot be authorized to divert, either directly or indirectly, 205.09 acre-feet from the Bitterroot River without establishing that the water does not belong to a senior appropriator"; Applicant failed to analyze legal availability of surface water where projected surface water depletion from groundwater pumping); *In the Matter of Application for Beneficial Water Use Permit No. 76D-30045578 by GBCI Other Real Estate, LLC* (DNRC Final Order 2011) (in an open basin, Applicant for a new water right can show legal availability by using a mitigation/aquifer recharge plan or by showing that any depletion to surface water by groundwater pumping will not take water already appropriated; development next to Lake Koocanusa will not take previously appropriated water). Applicant may use water right claims of potentially affected appropriators as a substitute for "historic beneficial use" in analyzing legal availability of surface water under § 85-2-360(5), MCA. *Royston, supra.*

130. In analyzing legal availability for surface water, Applicant was required to evaluate legal demands on the source of supply throughout the "area of potential impact" by the proposed use under § 85-2-311(1)(a)(ii), MCA, not just within the "zone of influence." *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, (2011) Pg. 6.

131. Use of published upstream gauge data minus rights of record between gauge and point of diversion adjusted to remove possible duplicated rights shows water physically available. Using same methodology and adding rights of record downstream of point of diversion to the mouth of the stream shows water legally available. *In the Matter of Application for Beneficial Water Use*

Permit No. 41P-105759 by Sunny Brook Colony (DNRC Final Order 2001); *In the Matter of Application for Beneficial Water Use Permit No. 81705-g76F by Hanson* (DNRC Final Order 1992);

132. Applicant has proven by a preponderance of the evidence that water can reasonably be considered legally available during the period in which the Applicant seeks to appropriate, in the amount requested, based on the records of the Department and other evidence provided to the Department. Section 85-2-311(1)(a)(ii), MCA. (FOF 47-74)

ADVERSE EFFECT

133. Pursuant to § 85-2-311(1)(b), MCA, the Applicant bears the affirmative burden of proving by a preponderance of the evidence that the water rights of a prior appropriator under an existing water right, a certificate, a permit, or a state water reservation will not be adversely affected. Analysis of adverse effect must be determined based on a consideration of an Applicant's plan for the exercise of the permit that demonstrates that the Applicant's use of the water will be controlled so the water right of a prior appropriator will be satisfied. *See Montana Power Co.*, 211 Mont. 91, 685 P.2d 336 (1984) (purpose of the Water Use Act is to protect senior appropriators from encroachment by junior users); *Bostwick Properties, Inc.*, ¶ 21.

134. An Applicant must analyze the full area of potential impact under the § 85-2-311, MCA criteria. *In the Matter of Beneficial Water Use Permit No. 76N-30010429 by Thompson River Lumber Company* (DNRC Final Order 2006). While § 85-2-361, MCA, limits the boundaries expressly required for compliance with the hydrogeologic assessment requirement, an Applicant is required to analyze the full area of potential impact for adverse effect in addition to the requirement of a hydrogeologic assessment. *Id.* ARM 36.12.120(5).

135. Applicant must prove that no prior appropriator will be adversely affected, not just the objectors. *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, 4 (2011).

136. In analyzing adverse effect to other appropriators, an Applicant may use the water rights claims of potentially affected appropriators as evidence of their "historic beneficial use." *See Matter of Application for Change of Appropriation Water Rights Nos. 101960-41S and 101967-41S by Royston*, 249 Mont. 425, 816 P.2d 1054 (1991).

137. It is the Applicant's burden to produce the required evidence. *E.g., Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, 7 (2011) (legislature

has placed the burden of proof squarely on the Applicant); *In the Matter of Application to Change Water Right No. 41H 1223599 by MGRR #1, LLC.*, (DNRC Final Order 2005). The Department is required to grant a permit only if the § 85-2-311, MCA, criteria are proven by the Applicant by a preponderance of the evidence. *Bostwick Properties, Inc.*, ¶ 21.

138. Section 85-2-311 (1)(b) of the Water Use Act does not contemplate a de minimis level of adverse effect on prior appropriators. *Wesmont Developers v. DNRC*, CDV-2009-823, First Judicial District Court, *Memorandum and Order*, 8 (2011).

139. The Applicant has proven by a preponderance of the evidence that the water rights of a prior appropriator under an existing water right, a certificate, a permit, or a state water reservation will not be adversely affected. Section 85-2-311(1)(b), MCA. (FOF 75-86)

ADEQUATE DIVERSION

140. Pursuant to § 85-2-311(1)(c), MCA, an Applicant must demonstrate that the proposed means of diversion, construction, and operation of the appropriation works are adequate.

141. The adequate means of diversion statutory test merely codifies and encapsulates the case law notion of appropriation to the effect that the means of diversion must be reasonably effective, i.e., must not result in a waste of the resource. *In the Matter of Application for Beneficial Water Use Permit No. 33983s41Q by Hoyt* (DNRC Final Order 1981); § 85-2-312(1)(a), MCA.

142. Water wells must be constructed according to the laws, rules, and standards of the Board of Water Well Contractors to prevent contamination of the aquifer. *In the Matter of Application for Beneficial Water Use Permit No.* 41I-105511 *by Flying J Inc.* (DNRC Final Order 1999).

143. Information needed to prove that proposed means of diversion, construction, and operation of the appropriation works are adequate varies, based upon project complexity design by licensed engineer adequate. *In the Matter of Application for Beneficial Water Use Permit No. 41C-11339900 by Three Creeks Ranch of Wyoming LLC* (DNRC Final Order 2002).

144. Applicant has proven by a preponderance of the evidence that the proposed means of diversion, construction, and operation of the appropriation works are adequate for the proposed beneficial use. Section 85-2-311(1)(c), MCA (FOF 87-101).

BENEFICIAL USE

145. Under § 85-2-311(1)(d), MCA, an Applicant must prove by a preponderance of the evidence the proposed use is a beneficial use.

146. An appropriator may appropriate water only for a beneficial use. See also, § 85-2-301 MCA. It is a fundamental premise of Montana water law that beneficial use is the basis, measure, and limit of the use. *E.g.*, *McDonald*; *Toohey v. Campbell* (1900), 24 Mont. 13, 60 P. 396. The amount of water under a water right is limited to the amount of water necessary to sustain the beneficial use. *E.g.*, *Bitterroot River Protective Association v. Siebel, Order on Petition for Judicial Review*, Cause No. BDV-2002-519, Montana First Judicial District Court, Lewis and Clark County (2003), *affirmed on other grounds*, 2005 MT 60, 326 Mont. 241, 108 P.3d 518; *In The Matter Of Application For Beneficial Water Use Permit No. 43C 30007297 by Dee Deaterly* (DNRC Final Order), *affirmed other grounds*, *Dee Deaterly v. DNRC* , Cause No. 2007-186, Montana First Judicial District, *Order Nunc Pro Tunc on Petition for Judicial Review* (2009); *Worden v. Alexander* (1939), 108 Mont. 208, 90 P.2d 160; *Allen v. Petrick* (1924), 69 Mont. 373, 222 P. 451; *In the Matter of Application for Beneficial Water Use Permit No. 41S-105823 by French* (DNRC Final Order 2000).

147. Amount of water to be diverted must be shown precisely. *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, 3 (2011) (citing *BRPA v. Siebel*, 2005 MT 60, and rejecting Applicant's argument that it be allowed to appropriate 800 acre-feet when a typical year would require 200-300 acre-feet).

148. Applicant seeks a change authorization to market water to others for beneficial use, which is a recognized beneficial use. Section 85-2-102(5), and -310(9)(c)(v), MCA; Mont. Const. Art. IX, § 3(2) (1972). The Montana Legislature enacted additional requirements upon Applicants seeking permits to market water to others for use, codified at § 85-2-310(9)(c)(v), MCA, which provides:

> (v) except as provided in subsection (10), if the water applied for is to be appropriated above that which will be used solely by the Applicant or if it will be marketed by the Applicant to other users, information detailing:
> (A) each person who will use the water and the amount of water each person will use;
> (B) the proposed place of use of all water by each person;
> (C) the nature of the relationship between the Applicant and each person using the water; and
> (D) each firm contractual agreement for the specified amount of water for each person using the water;

Failure to satisfy these criteria mandates that "the department shall find that an application is not in good faith or does not show a bona fide intent to appropriate water for a beneficial use. . .

." Section 85-2-310(9), MCA. Thus, a proposed water marketing use is not a beneficial use for purposes of §§ 85-2-102(5), and -311(1)(d) MCA, unless it satisfies § 85-2-310(9)(c), MCA.

149. The legislative purpose of § 85-2-310(9)(v), MCA, was to prohibit the appropriations of water based upon a speculative intent. Chapter 399, Laws of Montana 1985. To that end § 85-2-310(9), MCA, includes express criteria for the DNRC to consider when evaluating an application for a permit or change authorization to market water to others for use. See DNRC Written Testimony, HB No. 396 (Mar. 25, 1985). These criteria ensure that other water users are committed to the beneficial use of the full quantity of water requested by the Applicant. The terms of a "firm contractual agreement" must include sufficient certainty to ensure that a specific volume of water will actually be put to beneficial use by the contracting party in order to comply with the anti-speculation doctrine and satisfy the requirement of bona fide intent to put the water to beneficial use. *See Colo. River Water Conservation Dist. v. Vidler Tunnel Water Co.*, 594 P.2d 566 (Colo. 1979) (Applicant failed to prove intent to appropriate water for beneficial use where it did not have firm contractual commitments or other evidence of privity between the Applicant and the actual beneficial user of the water).

150. It is the Applicant's burden to produce the required evidence. *Bostwick Properties, Inc. v. DNRC*, 2013 MT 48, ¶ 22, 369 Mont. 150, 296 P.3d 1154 ("issuance of the water permit itself does not become a clear, legal duty until [the applicant] proves, by a preponderance of the evidence, that the required criteria have been satisfied"); *Sitz Ranch v. DNRC*, DV-10-13390, Fifth Judicial District Court, *Order Affirming DNRC Decision*, (2011) Pg. 7; *In the Matter of Application to Change Water Right No. 41H 1223599 by MGRR #1, LLC.*, (DNRC Final Order 2005); *see also Royston; Ciotti.*

151. Applicant proposes to use water for water marketing which is a recognized beneficial use. Section 85-2-102(5), MCA. Applicant has proven by a preponderance of the evidence water marketing is a beneficial use and that 229 AF of diverted volume and 142 GPM is the amount needed to sustain the beneficial use. Section 85-2-311(1)(d), MCA. (FOF 102-114)

POSSESSORY INTEREST

152. Pursuant to § 85-2-311(1)(e), MCA, an Applicant must prove by a preponderance of the evidence that it has a possessory interest or the written consent of the person with the possessory interest in the property where the water is to be put to beneficial use, or if the proposed use has a point of diversion, conveyance, or place of use on national forest system lands, the Applicant

has any written special use authorization required by federal law to occupy, use, or traverse national forest system lands for the purpose of diversion, impoundment, storage, transportation, withdrawal, use, or distribution of water under the permit.

153. Pursuant to ARM 36.12.1802:

> (1) An Applicant or a representative shall sign the application affidavit to affirm the following:
> (a) the statements on the application and all information submitted with the application are true and correct and
> (b) except in cases of an instream flow application, or where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use, the Applicant has possessory interest in the property where the water is to be put to beneficial use or has the written consent of the person having the possessory interest.
> (2) If a representative of the Applicant signs the application form affidavit, the representative shall state the relationship of the representative to the Applicant on the form, such as president of the corporation, and provide documentation that establishes the authority of the representative to sign the application, such as a copy of a power of attorney.
> (3) The department may require a copy of the written consent of the person having the possessory interest.

154. In *Town of Kevin v. DNRC*, 2024 MT 210, ¶ 31, 418 Mont. 131, 557 P.3d 913, the Court held that water service agreements satisfy the "written consent" under §§ 85-2-311(1)(e) and -402(2)(d), MCA.

155. The Applicant has proven by a preponderance of the evidence that it has a possessory interest, or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use. Section 85-2-311(1)(e), MCA. (FOF 115-119). The Applicant has a contractual agreement with EMEP Operating, LLC to provide water to the service area.

PRELIMINARY DETERMINATION

Subject to the terms, analysis, and conditions in this Order, the Department preliminarily determines that this Application for Beneficial Water Use Permit No. 42M 30163320 should be Granted.

The Department determines the Applicant may divert groundwater, by means of three wells at a depth of 160 ft, from January 1 to December 31 at 142 GPM up to 229 AF, from a point in

the NENENE Section 8, T22N, R58E, Richland County, for water marketing purpose from January 1 to December 31. The place of use is located in the NENE Section 8, T22N, R58E, Richland County.

The application will be subject to the following conditions, limitations, or restrictions:

1. THE APPROPRIATOR SHALL INSTALL A DEPARTMENT APPROVED IN-LINE FLOW METER AT A POINT IN THE DELIVERY LINE APPROVED BY THE DEPARTMENT. WATER MUST NOT BE DIVERTED UNTIL THE REQUIRED MEASURING DEVICE IS IN PLACE AND OPERATING. ON A FORM PROVIDED BY THE DEPARMENT, THE APPROPRIATOR SHALL KEEP A WRITTEN RECORD OF THE FLOW RATE AND VOLUME OF ALL WATER DIVERTED, INCLUDING THE PERIOD OF TIME. RECORDS SHALL BE SUBMITTED BY JANUARY 31st OF EACH YEAR AND UPON REQUEST AT OTHER TIMES DURING THE YEAR. FAILURE TO SUBMIT REPORTS MAY BE CAUSE FOR REVOCATION OF A PERMIT OR CHANGE. THE RECORDS MUST BE SENT TO THE GLASGOW WATER RESOURCES UNIT OFFICE. THE APPROPRIATOR SHALL MAINTAIN THE MEASURING DEVICE SO IT ALWAYS OPERATES PROPERLY AND MEASURES FLOW RATE AND VOLUME ACCURATELY.
2. WATER APPROPRIATED UNDER THIS PERMIT SHALL NOT BE TRANSPORTED OUTSIDE THE STATE OF MONTANA. CUSTOMERS SHALL BE INFORMED OF THIS CONDITION BY THE LANGUAGE INCLUDED IN THE CONTRACT AND SIGNS POSTED AT THE DEPOT.
3. ACCESS AT THE DEPOT SHALL BE CONTROLLED ENSURING ONLY THOSE USERS WITH CONTRACTS ARE ABLE TO ACQUIRE WATER.

NOTICE

The Department will provide public notice of this application and the Department's Preliminary Determination to Grant pursuant to § 85-2-307, MCA. The Department will set a deadline for objections to this application pursuant to §§ 85-2-307, and -308, MCA. If this application receives a valid objection, it will proceed to a contested case proceeding pursuant to Title 2 Chapter 4 Part 6, MCA, and § 85-2-309, MCA. If this application receives no valid objection or all valid objections are unconditionally withdrawn, the Department will grant this application as herein approved. If this application receives a valid objection(s) and the valid objection(s) are conditionally withdrawn, the Department will consider the proposed condition(s) and grant the application with such conditions as the Department decides necessary to satisfy the applicable criteria. Sections 85-2-310, -312, MCA.

DATED this 15th day of January, 2025.

Lih-An Yang, Manager
Glasgow Regional Office
Montana Department of Natural Resources and Conservation

CERTIFICATE OF SERVICE

This certifies that a true and correct copy of the PRELIMINARY DETERMINATION TO GRANT was served upon all parties listed below on this 15th day of January, 2025 by first class United States mail.

BIG HORN LEASING LLC
PO BOX 385
SIDNEY, MT ~~5970~~ 59270
AK
1/15

GLASGOW Regional Office, (406) 228-2561

Appendix A: Active Groundwater Rights Within the Zone of Influence

Table 10: Active Groundwater Rights Within the Zone of Influence				
Water Right Number	Water Right Type	Flow Rate (CFS)	Volume (AF)	Period of Diversion
40E 109576 00	EXEMPT RIGHT	0.01	4.33	01/01 to 12/31
40E 15139 00**	STATEMENT OF CLAIM	0.01	79.05	01/01 to 12/31
40E 15140 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
40E 28583 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40E 30047158	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40E 30113512	GROUND WATER CERTIFICATE	0.02	0.80	07/01 to 10/31
40E 30122211	GROUND WATER CERTIFICATE	0.02	2.13	01/01 to 12/31
40E 83070 00	GROUND WATER CERTIFICATE	0.03	2.04	01/01 to 12/31
40E 86164 00	GROUND WATER CERTIFICATE	0.02	3.23	01/01 to 12/31
40E 8639 00**	STATEMENT OF CLAIM	0.02	8.16	01/01 to 12/31
40E 9811 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40E 9888 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 101036 00	GROUND WATER CERTIFICATE	0.01	0.50	05/01 to 12/01
40P 101043 00	GROUND WATER CERTIFICATE	0.01	0.20	01/01 to 12/31
40P 101068 00	GROUND WATER CERTIFICATE	0.01	1.70	09/01 to 06/30
40P 101109 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
40P 10179 00	GROUND WATER CERTIFICATE	0.02	2.25	01/01 to 12/31
40P 10180 00	GROUND WATER CERTIFICATE	0.01	0.37	04/30 to 09/30
40P 10181 00	GROUND WATER CERTIFICATE	0.01	0.90	01/01 to 12/31
40P 102760 00	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
40P 102762 00	GROUND WATER CERTIFICATE	0.02	0.85	01/01 to 12/31
40P 102765 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 102797 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 102812 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
40P 103647 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 104471 00	GROUND WATER CERTIFICATE	0.01	1.63	01/01 to 12/31
40P 10542 00	GROUND WATER CERTIFICATE	0.01	2.00	01/01 to 12/31
40P 10609 00***	GROUND WATER CERTIFICATE	0.01	6.44	01/01 to 12/31
40P 106971 00	GROUND WATER CERTIFICATE	0.01	4.18	01/01 to 12/31
40P 10784 00***	GROUND WATER CERTIFICATE	0.01	6.44	01/01 to 12/31
40P 108415 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 10865 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
40P 109558 00	GROUND WATER CERTIFICATE	0.02	0.85	01/01 to 12/31
40P 109597 00	GROUND WATER CERTIFICATE	0.01	1.30	04/01 to 12/31
40P 111366 00	GROUND WATER CERTIFICATE	0.02	1.70	12/01 to 06/01
40P 111441 00	GROUND WATER CERTIFICATE	0.03	5.10	01/01 to 12/31

40P 111443 00	GROUND WATER CERTIFICATE	0.03	1.70	01/01 to 12/31
40P 111444 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 111447 00	GROUND WATER CERTIFICATE	0.03	2.55	01/01 to 12/31
40P 111453 00	GROUND WATER CERTIFICATE	0.03	1.40	06/01 to 11/01
40P 11351 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 114659 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
40P 114710 00**	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 114744 00	GROUND WATER CERTIFICATE	0.02	7.00	01/01 to 12/31
40P 114770 00	GROUND WATER CERTIFICATE	0.01	0.57	05/01 to 09/30
40P 1148 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 117565 00	GROUND WATER CERTIFICATE	0.04	1.80	01/01 to 12/31
40P 117580 00	GROUND WATER CERTIFICATE	0.02	0.60	05/15 to 11/01
40P 117583 00	GROUND WATER CERTIFICATE	0.02	0.68	01/01 to 12/31
40P 1206 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
40P 12610 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 12885 00	GROUND WATER CERTIFICATE	0.02	1.00	04/01 to 10/31
40P 12909 00	GROUND WATER CERTIFICATE	0.01	3.00	01/01 to 12/31
40P 13123 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 13127 00***	GROUND WATER CERTIFICATE	0.04	28.91	01/01 to 12/31
40P 13170 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
40P 13216 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40P 133056 00**	STATEMENT OF CLAIM	0.01	2.86	01/01 to 12/31
40P 13337 00	GROUND WATER CERTIFICATE	0.01	1.50	07/01 to 11/01
40P 13338 00	GROUND WATER CERTIFICATE	0.02	2.70	01/01 to 12/31
40P 13408 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40P 13634 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 13980 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 1488 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 16166 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 16312 00***	GROUND WATER CERTIFICATE	0.01	4.82	09/01 to 06/01
40P 16443 00	GROUND WATER CERTIFICATE	0.02	2.25	01/01 to 12/31
40P 16516 00	GROUND WATER CERTIFICATE	0.02	5.25	01/01 to 12/31
40P 16537 00	GROUND WATER CERTIFICATE	0.03	2.70	01/01 to 12/31
40P 16562 00	GROUND WATER CERTIFICATE	0.01	12.00	01/01 to 12/31
40P 16708 00	GROUND WATER CERTIFICATE	0.02	3.90	01/01 to 12/31
40P 16823 00	GROUND WATER CERTIFICATE	0.02	7.50	01/01 to 12/31
40P 16840 00	GROUND WATER CERTIFICATE	0.02	2.40	04/01 to 02/01
40P 16905 00	GROUND WATER CERTIFICATE	0.01	4.20	04/01 to 11/30

40P 1990 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40P 20762 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 2119 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
40P 2120 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
40P 21649 00	GROUND WATER CERTIFICATE	0.03	2.75	06/01 to 09/30
40P 21767 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 22480 00**	STATEMENT OF CLAIM	0.01	2.38	01/01 to 12/31
40P 24779 00	GROUND WATER CERTIFICATE	0.04	21.00	01/01 to 12/31
40P 25011 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 27575 00	GROUND WATER CERTIFICATE	0.01	3.44	01/01 to 12/31
40P 28115 00	GROUND WATER CERTIFICATE	0.01	0.70	05/01 to 10/31
40P 2891 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 2939 00***	GROUND WATER CERTIFICATE	0.01	3.07	01/01 to 12/31
40P 30000137	GROUND WATER CERTIFICATE	0.03	5.10	01/01 to 12/31
40P 30002090***	GROUND WATER CERTIFICATE	0.00	0.68	05/15 to 10/15
40P 30003079	GROUND WATER CERTIFICATE	0.02	0.86	05/01 to 09/30
40P 30003614	GROUND WATER CERTIFICATE	0.01	0.85	06/01 to 09/30
40P 30003627	GROUND WATER CERTIFICATE	0.03	0.20	01/01 to 12/31
40P 30004012	GROUND WATER CERTIFICATE	0.01	0.43	04/01 to 10/01
40P 30004777	GROUND WATER CERTIFICATE	0.01	0.02	01/01 to 12/31
40P 30004815	GROUND WATER CERTIFICATE	0.02	0.44	10/05 to 03/10
40P 30004947	GROUND WATER CERTIFICATE	0.03	6.80	01/01 to 12/31
40P 30005024	GROUND WATER CERTIFICATE	0.05	3.40	01/01 to 12/31
40P 30005641	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
40P 30005710	GROUND WATER CERTIFICATE	0.06	2.65	01/01 to 12/31
40P 30009399*	GROUND WATER CERTIFICATE	0.03	2.83	08/15 to 12/15
40P 30010190*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30013885*	GROUND WATER CERTIFICATE	0.03	2.83	05/01 to 12/01
40P 30014922*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30015689*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30018125*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30018863*	GROUND WATER CERTIFICATE	0.03	2.83	05/01 to 12/15
40P 30020750*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30021516*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30021655*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30021665*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30022658*	GROUND WATER CERTIFICATE	0.03	2.83	05/01 to 11/01
40P 30025566*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31

40P 30029304*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30029518*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30030083*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30030998	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
40P 30031194*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30041956*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40P 30042347	GROUND WATER CERTIFICATE	0.01	2.50	01/01 to 12/31
40P 30042594	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 30043008	GROUND WATER CERTIFICATE	0.01	0.60	04/01 to 12/15
40P 30043316	GROUND WATER CERTIFICATE	0.01	1.28	01/01 to 12/31
40P 30043412	GROUND WATER CERTIFICATE	0.04	2.55	01/01 to 12/31
40P 30043467	GROUND WATER CERTIFICATE	0.01	1.00	05/01 to 11/30
40P 30043723	GROUND WATER CERTIFICATE	0.02	4.88	01/01 to 12/31
40P 30043735	GROUND WATER CERTIFICATE	0.01	0.85	10/01 to 01/31
40P 30043765	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 30044091	GROUND WATER CERTIFICATE	0.02	0.46	05/01 to 09/30
40P 30044330	GROUND WATER CERTIFICATE	0.03	8.50	01/01 to 12/31
40P 30046387	GROUND WATER CERTIFICATE	0.02	5.95	01/01 to 12/31
40P 30047141	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 30047142	GROUND WATER CERTIFICATE	0.03	1.70	01/01 to 12/31
40P 30047157	GROUND WATER CERTIFICATE	0.02	0.64	05/01 to 10/31
40P 30047333	GROUND WATER CERTIFICATE	0.01	0.72	05/01 to 11/30
40P 30048207	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 30048224	GROUND WATER CERTIFICATE	0.05	0.34	01/01 to 12/31
40P 30049170	NON-FILED WATER PROJECT	0.02	1.91	01/01 to 12/31
40P 30051221	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 30052015	GROUND WATER CERTIFICATE	0.02	1.00	05/01 to 11/30
40P 30065367	GROUND WATER CERTIFICATE	0.02	1.60	05/01 to 12/31
40P 30067347	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
40P 30068647	GROUND WATER CERTIFICATE	0.02	3.48	01/01 to 12/31
40P 30069044	GROUND WATER CERTIFICATE	0.03	2.72	01/01 to 12/31
40P 30069986	GROUND WATER CERTIFICATE	0.02	5.25	01/01 to 12/31
40P 30070783	GROUND WATER CERTIFICATE	0.01	2.45	01/01 to 12/31
40P 30070851	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 30070852	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 30070877	GROUND WATER CERTIFICATE	0.01	2.45	01/01 to 12/31
40P 30071790	GROUND WATER CERTIFICATE	0.04	0.64	03/01 to 11/30
40P 30071930	GROUND WATER CERTIFICATE	0.01	9.67	01/01 to 12/31

40P 30072639	GROUND WATER CERTIFICATE	0.01	4.68	01/01 to 12/31
40P 30105119	GROUND WATER CERTIFICATE	0.01	2.55	01/01 to 12/31
40P 30108326	GROUND WATER CERTIFICATE	0.01	2.55	01/01 to 12/31
40P 30108726	GROUND WATER CERTIFICATE	0.02	5.10	01/01 to 12/31
40P 30112097	GROUND WATER CERTIFICATE	0.04	1.50	05/31 to 12/31
40P 30112963	GROUND WATER CERTIFICATE	0.02	8.76	01/01 to 12/31
40P 30113101	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 30115575	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 30115858	GROUND WATER CERTIFICATE	0.02	5.95	01/01 to 12/31
40P 30116216	GROUND WATER CERTIFICATE	0.03	4.38	01/01 to 12/31
40P 30116543	GROUND WATER CERTIFICATE	0.02	1.36	01/01 to 12/31
40P 30119457	GROUND WATER CERTIFICATE	0.02	1.68	01/01 to 12/31
40P 30119550	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
40P 30119841	GROUND WATER CERTIFICATE	0.06	3.40	01/01 to 12/31
40P 30119942	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
40P 30119944	GROUND WATER CERTIFICATE	0.03	6.80	01/01 to 12/31
40P 30120151	GROUND WATER CERTIFICATE	0.01	1.28	04/01 to 10/31
40P 30120330	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
40P 30120338	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
40P 30120339	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 30121502	GROUND WATER CERTIFICATE	0.05	2.99	04/01 to 10/31
40P 30122770	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 30127228	GROUND WATER CERTIFICATE	0.01	1.11	05/01 to 10/31
40P 30127271	GROUND WATER CERTIFICATE	0.03	5.10	01/01 to 12/31
40P 30127419	GROUND WATER CERTIFICATE	0.03	7.80	01/01 to 12/31
40P 30133724	STATEMENT OF CLAIM	0.03	2.10	04/01 to 01/31
40P 30147179	GROUND WATER CERTIFICATE	0.01	0.34	08/01 to 10/31
40P 30151774	GROUND WATER CERTIFICATE	0.02	0.51	01/01 to 12/31
40P 30153119	GROUND WATER CERTIFICATE	0.01	2.76	01/01 to 12/31
40P 30153599	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
40P 30154401	GROUND WATER CERTIFICATE	0.04	1.70	01/01 to 12/31
40P 30154591	GROUND WATER CERTIFICATE	0.01	0.36	06/01 to 10/31
40P 30155340	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 30158645	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
40P 30158730	GROUND WATER CERTIFICATE	0.01	1.11	04/01 to 10/30
40P 30163029	GROUND WATER CERTIFICATE	0.04	2.21	01/01 to 12/31
40P 30533 00	GROUND WATER CERTIFICATE	0.02	1.12	04/01 to 12/01
40P 30673 00	GROUND WATER CERTIFICATE	0.05	7.30	01/01 to 12/31

40P 30998 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 31479 00	GROUND WATER CERTIFICATE	0.01	6.00	01/01 to 12/31
40P 31480 00	GROUND WATER CERTIFICATE	0.01	6.00	01/01 to 12/31
40P 31481 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 31482 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 31487 00	GROUND WATER CERTIFICATE	0.02	10.68	01/01 to 12/31
40P 31541 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
40P 31544 00	GROUND WATER CERTIFICATE	0.01	1.17	01/01 to 12/31
40P 32687 00	GROUND WATER CERTIFICATE	0.01	0.84	01/01 to 12/31
40P 33661 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 35218 00	GROUND WATER CERTIFICATE	0.02	2.52	01/01 to 12/31
40P 35354 00	GROUND WATER CERTIFICATE	0.02	0.95	05/15 to 09/30
40P 35586 00	GROUND WATER CERTIFICATE	0.01	1.26	01/01 to 12/31
40P 35587 00	GROUND WATER CERTIFICATE	0.01	1.51	01/01 to 12/31
40P 35844 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 36015 00	GROUND WATER CERTIFICATE	0.03	1.76	01/01 to 12/31
40P 36116 00	GROUND WATER CERTIFICATE	0.05	4.11	01/01 to 12/31
40P 36154 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
40P 36624 00	GROUND WATER CERTIFICATE	0.02	1.76	01/01 to 12/31
40P 36678 00	GROUND WATER CERTIFICATE	0.01	1.68	01/01 to 12/31
40P 3672 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 37019 00	GROUND WATER CERTIFICATE	0.01	3.38	03/01 to 11/01
40P 37041 00	GROUND WATER CERTIFICATE	0.01	1.92	01/01 to 12/31
40P 37433 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 38533 00	GROUND WATER CERTIFICATE	0.01	9.67	01/01 to 12/31
40P 38637 00	GROUND WATER CERTIFICATE	0.02	5.61	04/01 to 12/01
40P 38918 00**	STATEMENT OF CLAIM	0.02	10.20	03/01 to 10/31
40P 39241 00	GROUND WATER CERTIFICATE	0.01	2.61	01/01 to 12/31
40P 39244 00	GROUND WATER CERTIFICATE	0.04	3.08	11/01 to 05/31
40P 39245 00	GROUND WATER CERTIFICATE	0.01	4.85	01/01 to 12/31
40P 39436 00	GROUND WATER CERTIFICATE	0.01	2.84	01/01 to 12/31
40P 39497 00	GROUND WATER CERTIFICATE	0.05	3.59	01/01 to 12/31
40P 39713 00	EXEMPT RIGHT	0.01	2.00	01/01 to 12/31
40P 40887 00	GROUND WATER CERTIFICATE	0.02	3.36	01/01 to 12/31
40P 41119 00	STATEMENT OF CLAIM	0.03	2.00	01/01 to 12/31
40P 41149 00**	STATEMENT OF CLAIM	0.01	13.60	01/01 to 12/31
40P 41150 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
40P 41241 00**	STATEMENT OF CLAIM	0.02	5.10	01/01 to 12/31

40P 41242 00	GROUND WATER CERTIFICATE	0.01	12.90	01/01 to 12/31
40P 41333 00	GROUND WATER CERTIFICATE	0.02	1.34	09/01 to 05/01
40P 41336 00	GROUND WATER CERTIFICATE	0.01	6.72	01/01 to 12/31
40P 41360 00	STATEMENT OF CLAIM	1.33	941.10	01/01 to 12/31
40P 41494 00	GROUND WATER CERTIFICATE	0.04	32.25	01/01 to 12/31
40P 42052 00	GROUND WATER CERTIFICATE	0.05	6.36	01/01 to 12/31
40P 42267 00	GROUND WATER CERTIFICATE	0.01	0.75	04/01 to 11/30
40P 42268 00	GROUND WATER CERTIFICATE	0.01	1.85	01/01 to 12/31
40P 42503 00	GROUND WATER CERTIFICATE	0.01	2.52	01/01 to 12/31
40P 4281 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 4282 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 43442 00**	STATEMENT OF CLAIM	0.02	7.06	01/01 to 12/31
40P 4461 00***	GROUND WATER CERTIFICATE	0.01	6.44	01/01 to 12/31
40P 44880 00	GROUND WATER CERTIFICATE	0.01	2.51	01/01 to 12/31
40P 44963 00	GROUND WATER CERTIFICATE	0.01	8.00	01/01 to 12/31
40P 44964 00	GROUND WATER CERTIFICATE	0.01	8.06	01/01 to 12/31
40P 45377 00	GROUND WATER CERTIFICATE	0.01	1.68	01/01 to 12/31
40P 4579 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 4580 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 46974 00	GROUND WATER CERTIFICATE	0.02	1.34	01/01 to 12/31
40P 47016 00	GROUND WATER CERTIFICATE	0.01	4.61	01/01 to 12/31
40P 47453 00	GROUND WATER CERTIFICATE	0.02	8.04	01/01 to 12/31
40P 4773 00***	GROUND WATER CERTIFICATE	0.05	36.14	01/01 to 12/31
40P 48219 00	GROUND WATER CERTIFICATE	0.03	3.24	03/01 to 12/31
40P 4870 00***	GROUND WATER CERTIFICATE	0.04	28.91	01/01 to 12/31
40P 50250 00	GROUND WATER CERTIFICATE	0.01	3.18	01/01 to 12/31
40P 50280 00	EXEMPT RIGHT	0.01	1.68	01/01 to 12/31
40P 50368 00	GROUND WATER CERTIFICATE	0.02	2.68	01/01 to 12/31
40P 50385 00	EXEMPT RIGHT	0.02	0.50	03/01 to 12/01
40P 5071 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 5072 00***	GROUND WATER CERTIFICATE	0.01	4.31	04/01 to 12/01
40P 51777 00	EXEMPT RIGHT	0.01	6.47	01/01 to 12/31
40P 51936 00	GROUND WATER CERTIFICATE	0.04	4.50	01/01 to 12/31
40P 51950 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 52 00***	GROUND WATER CERTIFICATE	0.00	0.37	07/05 to 10/31
40P 53285 00	GROUND WATER CERTIFICATE	0.01	2.34	01/01 to 12/31
40P 53329 00	GROUND WATER CERTIFICATE	0.01	0.51	05/01 to 11/01
40P 53339 00	GROUND WATER CERTIFICATE	0.03	2.13	01/01 to 12/31

40P 548 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 549 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 55479 00	GROUND WATER CERTIFICATE	0.01	7.00	01/01 to 12/31
40P 55480 00	GROUND WATER CERTIFICATE	0.01	1.28	01/01 to 12/31
40P 55535 00	GROUND WATER CERTIFICATE	0.02	0.85	05/01 to 10/01
40P 55578 00	GROUND WATER CERTIFICATE	0.01	2.18	01/01 to 12/31
40P 55582 00	GROUND WATER CERTIFICATE	0.03	3.38	05/01 to 10/01
40P 55598 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40P 56557 00	GROUND WATER CERTIFICATE	0.02	2.89	01/01 to 12/31
40P 5721 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 57280 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 57298 00	GROUND WATER CERTIFICATE	0.02	3.57	01/01 to 12/31
40P 57305 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 57313 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40P 57337 00	GROUND WATER CERTIFICATE	0.05	1.53	06/01 to 09/01
40P 57450 00	GROUND WATER CERTIFICATE	0.01	5.10	01/01 to 12/31
40P 59502 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 59528 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 59658 00	GROUND WATER CERTIFICATE	0.02	4.20	01/01 to 12/31
40P 6039 00	GROUND WATER CERTIFICATE	0.02	14.50	01/01 to 12/31
40P 61795 00	GROUND WATER CERTIFICATE	0.05	3.83	01/01 to 12/31
40P 63256 00	EXEMPT RIGHT	0.01	1.81	04/01 to 12/15
40P 63927 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 63930 00	GROUND WATER CERTIFICATE	0.01	1.95	07/15 to 01/01
40P 63933 00	GROUND WATER CERTIFICATE	0.02	1.68	04/01 to 11/30
40P 63979 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 63981 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 64051 00	GROUND WATER CERTIFICATE	0.01	1.45	01/01 to 12/31
40P 64059 00	GROUND WATER CERTIFICATE	0.02	2.69	01/01 to 12/31
40P 64096 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 64103 00	EXEMPT RIGHT	0.03	1.27	01/01 to 12/31
40P 646 00***	GROUND WATER CERTIFICATE	0.01	4.83	01/01 to 12/31
40P 6529 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 6535 00	GROUND WATER CERTIFICATE	0.02	2.40	01/01 to 12/31
40P 66165 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40P 66175 00	GROUND WATER CERTIFICATE	0.01	2.00	01/01 to 12/31
40P 66190 00	GROUND WATER CERTIFICATE	0.02	10.20	01/01 to 12/31
40P 66200 00	GROUND WATER CERTIFICATE	0.01	1.13	10/15 to 06/15

40P 66211 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40P 66245 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 66280 00	GROUND WATER CERTIFICATE	0.02	0.18	05/01 to 10/01
40P 68081 00	GROUND WATER CERTIFICATE	0.03	0.35	05/15 to 10/15
40P 6825 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
40P 69225 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 69235 00	GROUND WATER CERTIFICATE	0.01	1.02	01/01 to 12/31
40P 69289 00	GROUND WATER CERTIFICATE	0.01	1.02	06/01 to 11/30
40P 70185 00	GROUND WATER CERTIFICATE	0.01	1.07	06/01 to 10/31
40P 7058 00***	GROUND WATER CERTIFICATE	0.03	10.04	05/15 to 10/31
40P 7059 00***	GROUND WATER CERTIFICATE	0.01	1.86	05/15 to 10/31
40P 71275 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 71735 00	GROUND WATER CERTIFICATE	0.06	0.70	01/01 to 06/01
40P 71740 00	GROUND WATER CERTIFICATE	0.01	2.55	01/01 to 12/31
40P 71762 00	GROUND WATER CERTIFICATE	0.01	4.56	01/01 to 12/31
40P 7200 00***	GROUND WATER CERTIFICATE	0.01	4.85	03/15 to 11/15
40P 72902 00	GROUND WATER CERTIFICATE	0.02	6.80	01/01 to 12/31
40P 72941 00	GROUND WATER CERTIFICATE	0.01	3.12	01/01 to 12/31
40P 73777 00	GROUND WATER CERTIFICATE	0.01	4.39	01/01 to 12/31
40P 74075 00	GROUND WATER CERTIFICATE	0.02	0.22	09/10 to 11/15
40P 74077 00	GROUND WATER CERTIFICATE	0.02	0.71	06/01 to 11/01
40P 74582 00	GROUND WATER CERTIFICATE	0.01	0.34	05/01 to 08/31
40P 74616 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 75814 00	GROUND WATER CERTIFICATE	0.02	0.26	06/01 to 12/10
40P 76553 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 76561 00	GROUND WATER CERTIFICATE	0.01	0.68	01/01 to 12/31
40P 7679 00**	GROUND WATER CERTIFICATE	0.03	1.87	01/01 to 12/31
40P 77150 00	GROUND WATER CERTIFICATE	0.02	6.60	01/01 to 12/31
40P 77177 00	GROUND WATER CERTIFICATE	0.02	4.22	01/01 to 12/31
40P 77520 00	GROUND WATER CERTIFICATE	0.03	0.68	01/01 to 12/31
40P 78225 00	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
40P 78242 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
40P 7848 00***	GROUND WATER CERTIFICATE	0.02	9.66	04/01 to 12/01
40P 7849 00***	GROUND WATER CERTIFICATE	0.02	9.66	04/01 to 12/01
40P 7978 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 79885 00	GROUND WATER CERTIFICATE	0.02	2.08	01/01 to 12/31
40P 79895 00	GROUND WATER CERTIFICATE	0.02	1.79	01/01 to 12/31
40P 7996 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31

40P 80529 00	GROUND WATER CERTIFICATE	0.02	0.63	05/01 to 09/30
40P 8058 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
40P 81287 00	GROUND WATER CERTIFICATE	0.04	6.23	01/01 to 12/31
40P 81295 00	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
40P 81330 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 81348 00	GROUND WATER CERTIFICATE	0.01	5.63	06/01 to 09/20
40P 81352 00	GROUND WATER CERTIFICATE	0.01	4.77	01/01 to 12/31
40P 81355 00	GROUND WATER CERTIFICATE	0.02	0.41	05/10 to 10/01
40P 81377 00	GROUND WATER CERTIFICATE	0.01	2.30	01/01 to 12/31
40P 83018 00	GROUND WATER CERTIFICATE	0.01	0.54	04/01 to 09/01
40P 83019 00	GROUND WATER CERTIFICATE	0.02	0.70	12/01 to 04/30
40P 83027 00	GROUND WATER CERTIFICATE	0.01	0.17	05/01 to 10/31
40P 83042 00	GROUND WATER CERTIFICATE	0.01	0.45	04/01 to 11/30
40P 83076 00	GROUND WATER CERTIFICATE	0.04	4.25	01/01 to 12/31
40P 83543 00	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
40P 84902 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 86163 00	GROUND WATER CERTIFICATE	0.04	0.85	03/01 to 10/31
40P 86172 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
40P 86180 00	GROUND WATER CERTIFICATE	0.01	0.68	01/01 to 12/31
40P 86209 00	GROUND WATER CERTIFICATE	0.02	1.43	08/20 to 12/20
40P 875 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
40P 88298 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 88308 00	GROUND WATER CERTIFICATE	0.01	0.30	12/01 to 04/01
40P 89029 00	GROUND WATER CERTIFICATE	0.02	1.20	01/01 to 12/31
40P 8974 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40P 89868 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40P 89884 00	GROUND WATER CERTIFICATE	0.01	2.99	01/01 to 12/31
40P 91844 00	GROUND WATER CERTIFICATE	0.02	2.55	01/01 to 12/31
40P 91871 00	GROUND WATER CERTIFICATE	0.01	1.23	04/01 to 12/20
40P 91884 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 91887 00	GROUND WATER CERTIFICATE	0.03	0.17	01/01 to 12/31
40P 91895 00	GROUND WATER CERTIFICATE	0.02	5.10	01/01 to 12/31
40P 91926 00	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
40P 91937 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 91938 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 9288 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40P 93505 00	GROUND WATER CERTIFICATE	0.01	0.35	10/01 to 12/15
40P 9354 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31

40P 94637 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40P 94644 00	GROUND WATER CERTIFICATE	0.02	0.43	08/25 to 10/25
40P 9603 00***	GROUND WATER CERTIFICATE	0.01	1.22	03/01 to 07/01
40P 96360 00	GROUND WATER CERTIFICATE	0.02	0.60	05/01 to 11/01
40P 96369 00	GROUND WATER CERTIFICATE	0.02	8.60	04/01 to 09/30
40P 96388 00	EXEMPT RIGHT	0.01	4.25	01/01 to 12/31
40P 9691 00	GROUND WATER CERTIFICATE	0.04	1.00	05/01 to 09/15
40P 9756 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
40P 9777 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
40P 97805 00	EXEMPT RIGHT	0.01	1.50	05/01 to 11/30
40P 97806 00	EXEMPT RIGHT	0.02	1.63	01/01 to 12/31
40P 97818 00	GROUND WATER CERTIFICATE	0.01	1.63	04/01 to 10/31
40P 97825 00	GROUND WATER CERTIFICATE	0.02	0.02	05/15 to 10/01
40P 99074 00	GROUND WATER CERTIFICATE	0.04	0.19	08/25 to 11/15
40P 99117 00	GROUND WATER CERTIFICATE	0.03	5.25	01/01 to 12/31
40S 101048 00	GROUND WATER CERTIFICATE	0.02	1.15	06/01 to 09/30
40S 101049 00	GROUND WATER CERTIFICATE	0.01	1.15	06/01 to 09/30
40S 10692 00***	GROUND WATER CERTIFICATE	0.01	4.22	05/01 to 11/30
40S 106939 00	GROUND WATER CERTIFICATE	0.02	0.02	04/01 to 10/31
40S 10757 00	GROUND WATER CERTIFICATE	0.01	4.88	01/01 to 12/31
40S 109601 00	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
40S 114661 00	GROUND WATER CERTIFICATE	0.02	5.18	01/01 to 12/31
40S 114662 00	GROUND WATER CERTIFICATE	0.02	2.55	01/01 to 12/31
40S 122013 00	STATEMENT OF CLAIM	0.01	1.70	01/01 to 12/31
40S 122014 00**	STATEMENT OF CLAIM	0.01	0.48	01/01 to 12/31
40S 12470 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40S 130588 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
40S 130589 00**	STATEMENT OF CLAIM	0.01	2.55	01/01 to 12/31
40S 1530 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40S 15698 00	GROUND WATER CERTIFICATE	0.08	1.75	05/01 to 11/30
40S 15770 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
40S 16185 00	GROUND WATER CERTIFICATE	0.01	1.74	04/01 to 11/01
40S 16402 00	GROUND WATER CERTIFICATE	0.02	4.50	01/01 to 12/31
40S 16403 00	GROUND WATER CERTIFICATE	0.05	0.40	05/01 to 09/20
40S 16412 00**	STATEMENT OF CLAIM	0.01	4.42	01/01 to 12/31
40S 164392 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 16904 00	GROUND WATER CERTIFICATE	0.01	3.75	01/01 to 12/31
40S 170317 00**	STATEMENT OF CLAIM	0.04	2.72	01/01 to 12/31

40S 171254 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171258 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171259 00	STATEMENT OF CLAIM	0.01	2.00	01/01 to 12/31
40S 171260 00**	STATEMENT OF CLAIM	0.00	32.30	01/01 to 12/31
40S 171271 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171276 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171277 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171278 00**	STATEMENT OF CLAIM	0.01	32.30	01/01 to 12/31
40S 171279 00	STATEMENT OF CLAIM	0.01	2.00	01/01 to 12/31
40S 171317 00**	STATEMENT OF CLAIM	0.01	1.41	05/01 to 11/30
40S 17548 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40S 18099 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40S 18626 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40S 20354 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
40S 22305 00**	STATEMENT OF CLAIM	0.03	3.60	05/01 to 10/14
40S 22306 00**	STATEMENT OF CLAIM	0.03	3.60	05/01 to 10/04
40S 22308 00**	STATEMENT OF CLAIM	0.02	4.76	01/01 to 12/31
40S 22409 00	GROUND WATER CERTIFICATE	0.03	2.35	01/01 to 12/31
40S 22430 00**	STATEMENT OF CLAIM	0.00	2.36	05/15 to 10/19
40S 22916 00**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
40S 2400 00***	GROUND WATER CERTIFICATE	0.02	13.27	01/01 to 12/01
40S 25148 00	GROUND WATER CERTIFICATE	0.01	2.24	01/01 to 12/31
40S 26473 00	GROUND WATER CERTIFICATE	0.02	0.90	05/01 to 10/01
40S 28353 00	STATEMENT OF CLAIM	0.01	2.50	01/01 to 12/31
40S 28354 00**	STATEMENT OF CLAIM	0.00	8.61	01/01 to 12/31
40S 29266 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40S 29823 00	EXEMPT RIGHT	0.01	0.80	01/01 to 12/31
40S 29919 00	GROUND WATER CERTIFICATE	0.06	0.20	06/01 to 11/30
40S 30003948	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 30010191*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40S 30013532	GROUND WATER CERTIFICATE	0.01	2.04	01/01 to 12/31
40S 30014827*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40S 30021914*	GROUND WATER CERTIFICATE	0.03	2.83	04/01 to 12/01
40S 30021956*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40S 30028766*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40S 30030164*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
40S 30042424	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 30042695*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31

40S 30042696	GROUND WATER CERTIFICATE	0.04	1.70	01/01 to 12/31
40S 30042697	GROUND WATER CERTIFICATE	0.05	1.70	01/01 to 12/31
40S 30044140	GROUND WATER CERTIFICATE	0.04	2.28	05/01 to 12/31
40S 30044186	GROUND WATER CERTIFICATE	0.06	1.00	05/01 to 11/30
40S 30045467	GROUND WATER CERTIFICATE	0.05	1.00	01/01 to 12/31
40S 30051665	GROUND WATER CERTIFICATE	0.01	1.02	01/01 to 12/31
40S 30052433	GROUND WATER CERTIFICATE	0.02	1.85	05/01 to 11/15
40S 30064325	GROUND WATER CERTIFICATE	0.02	0.71	05/01 to 09/30
40S 30065300	GROUND WATER CERTIFICATE	0.05	2.21	01/01 to 12/31
40S 30067579	GROUND WATER CERTIFICATE	0.02	1.13	01/01 to 12/31
40S 30103340	GROUND WATER CERTIFICATE	0.03	3.87	01/01 to 12/31
40S 30103565	GROUND WATER CERTIFICATE	0.01	0.55	06/01 to 11/30
40S 30103567**	STATEMENT OF CLAIM	0.01	0.85	01/01 to 12/31
40S 30104251	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 30113928	GROUND WATER CERTIFICATE	0.02	1.58	04/15 to 10/31
40S 30115413	GROUND WATER CERTIFICATE	0.03	6.20	01/01 to 12/31
40S 30120159	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40S 30125725	GROUND WATER CERTIFICATE	0.03	1.02	01/01 to 12/31
40S 30150565	GROUND WATER CERTIFICATE	0.05	1.70	01/01 to 12/31
40S 30153600	GROUND WATER CERTIFICATE	0.02	1.00	04/01 to 10/31
40S 30160621	GROUND WATER CERTIFICATE	0.02	1.12	06/01 to 09/30
40S 30163038	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
40S 30536 00	GROUND WATER CERTIFICATE	0.02	5.60	01/01 to 12/31
40S 30573 00	GROUND WATER CERTIFICATE	0.01	3.36	01/01 to 12/31
40S 30809 00	GROUND WATER CERTIFICATE	0.01	4.20	01/01 to 12/31
40S 30991 00	GROUND WATER CERTIFICATE	0.01	1.26	01/01 to 12/31
40S 3119 00**	STATEMENT OF CLAIM	0.01	6.80	11/15 to 05/19
40S 3120 00**	STATEMENT OF CLAIM	0.01	6.80	11/15 to 05/19
40S 3122 00**	STATEMENT OF CLAIM	0.01	12.41	05/01 to 11/30
40S 3124 00**	STATEMENT OF CLAIM	0.01	6.80	10/01 to 11/19; 04/01 to 07/04
40S 3578 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40S 37327 00	GROUND WATER CERTIFICATE	0.01	1.68	01/01 to 12/31
40S 3782 00***	GROUND WATER CERTIFICATE	0.01	4.83	01/01 to 12/31
40S 3788 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40S 38588 00	GROUND WATER CERTIFICATE	0.02	3.35	01/01 to 12/31
40S 41376 00	GROUND WATER CERTIFICATE	0.01	2.69	01/01 to 12/31
40S 4347 00***	GROUND WATER CERTIFICATE	0.01	2.95	05/01 to 10/15
40S 44789 00	GROUND WATER CERTIFICATE	0.03	2.52	01/01 to 12/31

40S 44871 00	GROUND WATER CERTIFICATE	0.01	2.51	01/01 to 12/31
40S 44879 00	GROUND WATER CERTIFICATE	0.11	4.01	01/01 to 12/31
40S 4585 00	GROUND WATER CERTIFICATE	0.03	1.00	08/20 to 06/01
40S 46534 00**	STATEMENT OF CLAIM	0.02	8.08	01/01 to 12/31
40S 46535 00	STATEMENT OF CLAIM	0.01	1.75	01/01 to 12/31
40S 49260 00**	STATEMENT OF CLAIM	0.02	3.50	05/01 to 10/31
40S 49262 00	STATEMENT OF CLAIM	0.02	2.70	01/01 to 12/31
40S 5102 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
40S 51796 00	GROUND WATER CERTIFICATE	0.02	0.64	01/01 to 12/31
40S 51810 00	GROUND WATER CERTIFICATE	0.04	2.00	01/01 to 12/31
40S 51887 00	GROUND WATER CERTIFICATE	0.03	3.68	01/01 to 12/31
40S 51912 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
40S 53367 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
40S 55484 00	GROUND WATER CERTIFICATE	0.01	4.05	01/01 to 12/31
40S 59534 00	GROUND WATER CERTIFICATE	0.04	1.70	01/01 to 12/31
40S 59539 00	GROUND WATER CERTIFICATE	0.03	2.13	04/01 to 10/31
40S 59575 00	GROUND WATER CERTIFICATE	0.13	3.40	06/01 to 09/30
40S 59576 00	GROUND WATER CERTIFICATE	0.01	2.55	03/01 to 06/30
40S 59579 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40S 59580 00	GROUND WATER CERTIFICATE	0.03	1.70	11/01 to 04/01
40S 59636 00	GROUND WATER CERTIFICATE	0.01	6.72	01/01 to 12/31
40S 59654 00	GROUND WATER CERTIFICATE	0.03	2.52	01/01 to 12/31
40S 6075 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
40S 61865 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40S 6251 00	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
40S 63936 00	GROUND WATER CERTIFICATE	0.03	0.85	03/01 to 10/31
40S 63943 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 6554 00***	GROUND WATER CERTIFICATE	0.01	4.24	05/01 to 12/01
40S 6570 00***	GROUND WATER CERTIFICATE	0.02	9.66	05/01 to 12/31
40S 66156 00	GROUND WATER CERTIFICATE	0.02	1.57	01/01 to 12/31
40S 66292 00	EXEMPT RIGHT	0.02	2.50	01/01 to 12/31
40S 6832 00**	GROUND WATER CERTIFICATE	0.01	2.89	06/15 to 09/15
40S 6879 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40S 69246 00	GROUND WATER CERTIFICATE	0.01	0.86	05/01 to 10/31
40S 69258 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 69265 00	GROUND WATER CERTIFICATE	0.01	2.84	04/01 to 11/30
40S 69268 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
40S 6960 00***	GROUND WATER CERTIFICATE	0.01	2.99	10/15 to 03/15

40S 70195 00	GROUND WATER CERTIFICATE	0.01	3.20	01/01 to 12/31
40S 70246 00	GROUND WATER CERTIFICATE	0.02	2.89	01/01 to 12/31
40S 7065 00***	GROUND WATER CERTIFICATE	0.01	2.75	04/15 to 09/01
40S 71694 00	GROUND WATER CERTIFICATE	0.01	2.21	01/01 to 12/31
40S 71744 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
40S 7235 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
40S 72919 00	GROUND WATER CERTIFICATE	0.02	2.18	01/01 to 12/31
40S 72924 00	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
40S 73783 00	GROUND WATER CERTIFICATE	0.02	5.10	01/01 to 12/31
40S 74368 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
40S 74577 00	GROUND WATER CERTIFICATE	0.05	1.70	01/01 to 12/31
40S 74607 00	GROUND WATER CERTIFICATE	0.00	3.06	01/01 to 12/31
40S 74619 00	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
40S 78221 00	GROUND WATER CERTIFICATE	0.01	5.10	01/01 to 12/31
40S 78227 00	GROUND WATER CERTIFICATE	0.02	3.71	01/01 to 12/31
40S 79872 00	GROUND WATER CERTIFICATE	0.02	1.14	05/01 to 12/31
40S 79886 00	GROUND WATER CERTIFICATE	0.02	5.40	01/01 to 12/31
40S 79893 00	GROUND WATER CERTIFICATE	0.01	1.28	01/01 to 12/31
40S 81345 00	GROUND WATER CERTIFICATE	0.02	2.58	05/01 to 11/01
40S 8197 00***	GROUND WATER CERTIFICATE	0.01	3.03	05/01 to 10/01
40S 8268 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
40S 83010 00	GROUND WATER CERTIFICATE	0.02	0.43	04/15 to 12/01
40S 86201 00	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
40S 88300 00	GROUND WATER CERTIFICATE	0.02	0.70	01/01 to 12/31
40S 88318 00	GROUND WATER CERTIFICATE	0.01	0.50	01/01 to 12/31
40S 89083 00	GROUND WATER CERTIFICATE	0.06	3.30	04/01 to 10/31
40S 89084 00	GROUND WATER CERTIFICATE	0.06	4.10	01/01 to 12/31
40S 89107 00	GROUND WATER CERTIFICATE	0.01	0.38	06/01 to 10/15
40S 89870 00	GROUND WATER CERTIFICATE	0.00	0.46	06/01 to 10/01
40S 99045 00	GROUND WATER CERTIFICATE	0.03	0.58	08/01 to 10/01
40S 99078 00	GROUND WATER CERTIFICATE	0.01	1.30	05/01 to 11/01
42M 100109 00	GROUND WATER CERTIFICATE	0.01	0.86	09/15 to 12/15
42M 10065 00	GROUND WATER CERTIFICATE	0.05	0.83	01/01 to 12/31
42M 101080 00	GROUND WATER CERTIFICATE	0.03	3.67	01/01 to 12/31
42M 101085 00	GROUND WATER CERTIFICATE	0.02	1.25	05/01 to 09/20
42M 101112 00	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
42M 101379 00**	STATEMENT OF CLAIM	0.03	2.04	01/01 to 12/31
42M 101380 00**	STATEMENT OF CLAIM	0.02	2.04	01/01 to 12/31

42M 101381 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 101387 00	GROUND WATER CERTIFICATE	0.02	0.65	05/15 to 11/30
42M 101401 00	STATEMENT OF CLAIM	0.06	1.50	01/01 to 12/31
42M 101408 00**	STATEMENT OF CLAIM	0.02	7.65	04/01 to 12/31
42M 101491 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 101494 00**	STATEMENT OF CLAIM	0.01	13.26	01/01 to 12/31
42M 101495 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 101520 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 101521 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 101524 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 101526 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 101527 00**	STATEMENT OF CLAIM	0.02	6.80	01/01 to 12/31
42M 102446 00	STATEMENT OF CLAIM	0.01	1.60	01/01 to 12/31
42M 102528 00**	STATEMENT OF CLAIM	0.04	3.40	01/01 to 12/31
42M 102552 00	STATEMENT OF CLAIM	0.04	2.00	01/01 to 12/31
42M 102775 00	GROUND WATER CERTIFICATE	0.06	2.50	01/01 to 12/31
42M 102776 00	GROUND WATER CERTIFICATE	0.01	1.63	01/01 to 12/31
42M 102790 00	GROUND WATER CERTIFICATE	0.01	0.68	01/01 to 12/31
42M 102792 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 10331 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 103447 00	GROUND WATER CERTIFICATE	0.01	2.13	01/01 to 12/31
42M 10352 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 103694 00	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
42M 10385 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 104460 00	GROUND WATER CERTIFICATE	0.01	2.50	01/01 to 12/31
42M 104477 00	GROUND WATER CERTIFICATE	0.03	1.25	05/01 to 10/15
42M 104493 00	GROUND WATER CERTIFICATE	0.02	7.17	01/01 to 12/31
42M 104499 00	GROUND WATER CERTIFICATE	0.02	3.07	05/10 to 10/10
42M 106038 00	GROUND WATER CERTIFICATE	0.01	5.10	01/01 to 12/31
42M 10644 00***	GROUND WATER CERTIFICATE	0.01	4.83	05/01 to 01/01
42M 106920 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 1071 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
42M 10832 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 108386 00	PROVISIONAL PERMIT	1.67	680.00	04/01 to 10/31
42M 108389 00	GROUND WATER CERTIFICATE	0.02	2.50	04/01 to 10/31
42M 108412 00	GROUND WATER CERTIFICATE	0.02	0.63	04/01 to 10/31
42M 10862 00	GROUND WATER CERTIFICATE	0.01	1.00	06/01 to 10/31
42M 10884 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31

42M 109559 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
42M 109575 00	GROUND WATER CERTIFICATE	0.01	2.31	01/01 to 12/31
42M 109584 00	GROUND WATER CERTIFICATE	0.01	4.30	01/01 to 12/31
42M 109596 00	GROUND WATER CERTIFICATE	0.03	2.29	01/01 to 12/31
42M 109609 00	PROVISIONAL PERMIT	0.13	56.70	04/01 to 10/31
42M 10962 00***	GROUND WATER CERTIFICATE	0.01	2.10	08/01 to 11/15
42M 109879 00**	STATEMENT OF CLAIM	0.01	12.24	05/01 to 11/15
42M 109888 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 109889 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 109891 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 109892 00**	STATEMENT OF CLAIM	0.01	5.71	01/01 to 12/31
42M 109906 00**	STATEMENT OF CLAIM	0.01	5.71	01/01 to 12/31
42M 109907 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 109919 00	STATEMENT OF CLAIM	0.01	1.00	01/01 to 12/31
42M 109925 00**	STATEMENT OF CLAIM	0.03	1.36	01/01 to 12/31
42M 109926 00	STATEMENT OF CLAIM	0.01	1.20	01/01 to 12/01
42M 109939 00**	STATEMENT OF CLAIM	0.02	5.30	01/01 to 12/31
42M 109940 00**	STATEMENT OF CLAIM	0.02	2.83	05/01 to 11/30
42M 109947 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 111274 00	GROUND WATER CERTIFICATE	0.01	3.75	01/01 to 12/31
42M 111348 00	GROUND WATER CERTIFICATE	0.02	2.55	01/01 to 12/31
42M 111363 00	GROUND WATER CERTIFICATE	0.03	5.03	01/01 to 12/31
42M 111394 00	GROUND WATER CERTIFICATE	0.02	2.55	01/01 to 12/31
42M 111413 00	GROUND WATER CERTIFICATE	0.02	8.50	01/01 to 12/31
42M 111427 00	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
42M 111451 00	GROUND WATER CERTIFICATE	0.03	2.40	01/01 to 12/31
42M 11262 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 113729 00**	STATEMENT OF CLAIM	0.01	5.10	01/01 to 12/31
42M 113735 00	STATEMENT OF CLAIM	0.01	1.70	01/01 to 12/31
42M 113737 00**	STATEMENT OF CLAIM	0.01	1.16	01/01 to 12/31
42M 113756 00**	STATEMENT OF CLAIM	0.04	15.83	01/01 to 12/31
42M 113760 00	STATEMENT OF CLAIM	0.04	3.00	01/01 to 12/31
42M 11379 00	GROUND WATER CERTIFICATE	0.00	1.50	01/01 to 12/31
42M 114669 00	GROUND WATER CERTIFICATE	0.01	1.63	01/01 to 12/31
42M 114672 00	GROUND WATER CERTIFICATE	0.01	2.40	01/01 to 12/31
42M 114708 00	GROUND WATER CERTIFICATE	0.02	2.20	01/01 to 12/31
42M 114729 00	GROUND WATER CERTIFICATE	0.03	2.50	05/01 to 09/30
42M 114748 00	GROUND WATER CERTIFICATE	0.02	1.73	01/01 to 12/31

42M 11476 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 114786 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 1161 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 116918 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
42M 117164 00	STATEMENT OF CLAIM	0.07	2.30	04/15 to 11/15
42M 117239 00**	STATEMENT OF CLAIM	0.01	1.06	01/01 to 12/31
42M 11835 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 11931 00**	STATEMENT OF CLAIM	0.01	5.10	04/01 to 12/31
42M 11940 00**	STATEMENT OF CLAIM	0.01	5.10	01/01 to 12/31
42M 11946 00**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
42M 11949 00**	STATEMENT OF CLAIM	0.02	2.55	01/01 to 12/31
42M 12197 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 122121 00	STATEMENT OF CLAIM	0.02	4.50	01/01 to 12/31
42M 12562 00***	GROUND WATER CERTIFICATE	0.01	3.05	03/31 to 09/01
42M 12563 00***	GROUND WATER CERTIFICATE	0.01	3.03	05/01 to 10/01
42M 1272 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 1273 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 12788 00	STATEMENT OF CLAIM	0.02	2.00	01/01 to 12/31
42M 12961 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 13172 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 1321 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 1342 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 1362 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 1363 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 14442 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 1445 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 1453 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 14743 00	GROUND WATER CERTIFICATE	0.03	0.45	01/01 to 12/31
42M 1476 00	GROUND WATER CERTIFICATE	0.04	10.00	01/01 to 12/31
42M 1477 00	GROUND WATER CERTIFICATE	0.04	6.75	01/01 to 12/31
42M 14818 00	GROUND WATER CERTIFICATE	0.01	1.35	04/01 to 09/15
42M 14841 00	GROUND WATER CERTIFICATE	0.01	0.37	04/01 to 10/01
42M 14867 00	GROUND WATER CERTIFICATE	0.05	13.55	05/01 to 10/01
42M 14891 00	GROUND WATER CERTIFICATE	0.06	0.37	01/01 to 12/31
42M 15197 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 15260 00	GROUND WATER CERTIFICATE	0.05	1.35	05/01 to 10/01
42M 15290 00	GROUND WATER CERTIFICATE	0.02	1.30	04/01 to 11/01
42M 154297 00**	STATEMENT OF CLAIM	0.01	5.10	11/01 to 04/01

42M 154318 00**	STATEMENT OF CLAIM	0.01	1.87	12/01 to 05/01
42M 154325 00**	STATEMENT OF CLAIM	0.02	3.40	12/01 to 03/01
42M 154326 00**	STATEMENT OF CLAIM	0.01	1.87	12/01 to 05/01
42M 15595 00	GROUND WATER CERTIFICATE	0.02	3.00	01/01 to 12/31
42M 15824 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 15825 00	GROUND WATER CERTIFICATE	0.05	1.50	01/01 to 12/31
42M 15883 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 163221 00**	STATEMENT OF CLAIM	0.02	7.57	01/01 to 12/31
42M 163248 00**	STATEMENT OF CLAIM	0.02	9.52	01/01 to 12/31
42M 163249 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 16325 00**	STATEMENT OF CLAIM	0.02	3.40	05/01 to 09/30
42M 16326 00**	STATEMENT OF CLAIM	0.02	3.40	01/01 to 12/31
42M 16327 00**	STATEMENT OF CLAIM	0.02	3.40	01/01 to 12/31
42M 16328 00	STATEMENT OF CLAIM	0.02	1.75	01/01 to 12/31
42M 163305 00	STATEMENT OF CLAIM	0.02	1.80	01/01 to 12/31
42M 16331 00**	STATEMENT OF CLAIM	0.01	3.40	12/21 to 03/20
42M 163346 00**	STATEMENT OF CLAIM	0.02	2.04	01/01 to 12/31
42M 163348 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 163349 00**	STATEMENT OF CLAIM	0.02	2.04	01/01 to 12/31
42M 163350 00**	STATEMENT OF CLAIM	0.02	2.04	01/01 to 12/31
42M 163351 00	STATEMENT OF CLAIM	0.06	2.00	01/01 to 12/31
42M 163352 00**	STATEMENT OF CLAIM	0.06	2.04	01/01 to 12/31
42M 163439 00	STATEMENT OF CLAIM	0.02	1.00	01/01 to 12/31
42M 16347 00	STATEMENT OF CLAIM	0.38	107.00	01/01 to 12/31
42M 16348 00	STATEMENT OF CLAIM	0.28	76.00	01/01 to 12/31
42M 163486 00	STATEMENT OF CLAIM	0.01	0.75	04/01 to 10/31
42M 16349 00	STATEMENT OF CLAIM	1.11	239.00	01/01 to 12/31
42M 163491 00	STATEMENT OF CLAIM	0.77	219.00	04/15 to 10/19
42M 16350 00	STATEMENT OF CLAIM	1.78	463.00	01/01 to 12/31
42M 163504 00**	STATEMENT OF CLAIM	0.03	3.40	01/01 to 12/31
42M 16351 00	STATEMENT OF CLAIM	1.55	390.00	01/01 to 12/31
42M 16352 00	STATEMENT OF CLAIM	0.17	47.00	01/01 to 12/31
42M 163520 00**	STATEMENT OF CLAIM	0.04	5.13	01/01 to 12/31
42M 163521 00	STATEMENT OF CLAIM	0.04	1.00	01/01 to 12/31
42M 163527 00**	STATEMENT OF CLAIM	0.01	2.55	08/01 to 05/01
42M 163551 00**	STATEMENT OF CLAIM	0.02	3.40	01/01 to 12/31
42M 163566 00**	STATEMENT OF CLAIM	0.01	2.21	08/01 to 12/31
42M 163668 00**	STATEMENT OF CLAIM	0.01	2.72	01/01 to 12/31

42M 163751 00**	STATEMENT OF CLAIM	0.02	2.04	01/01 to 12/31
42M 163762 00**	STATEMENT OF CLAIM	0.01	1.02	04/15 to 10/15
42M 1642 00	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
42M 164367 00**	STATEMENT OF CLAIM	0.03	3.40	01/01 to 12/31
42M 164370 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 164431 00**	STATEMENT OF CLAIM	0.01	3.40	04/01 to 11/30
42M 164450 00**	STATEMENT OF CLAIM	0.01	8.08	05/01 to 10/31
42M 16447 00	GROUND WATER CERTIFICATE	0.01	0.60	01/01 to 12/31
42M 1645 00***	GROUND WATER CERTIFICATE	0.01	6.44	01/01 to 12/31
42M 165242 00	STATEMENT OF CLAIM	0.05	1.50	01/01 to 12/31
42M 165266 00**	STATEMENT OF CLAIM	0.03	0.34	03/01 to 11/30
42M 165267 00**	STATEMENT OF CLAIM	0.05	0.68	03/01 to 11/30
42M 165284 00**	STATEMENT OF CLAIM	0.01	0.85	03/01 to 11/30
42M 165288 00**	STATEMENT OF CLAIM	0.01	1.70	03/01 to 11/30
42M 165291 00**	STATEMENT OF CLAIM	0.05	1.02	01/01 to 12/31
42M 165315 00**	STATEMENT OF CLAIM	0.02	10.20	01/01 to 12/31
42M 165316 00	STATEMENT OF CLAIM	0.02	5.04	01/01 to 12/31
42M 165319 00**	STATEMENT OF CLAIM	0.02	10.20	01/01 to 12/31
42M 165320 00	STATEMENT OF CLAIM	0.02	2.00	01/01 to 12/31
42M 165321 00**	STATEMENT OF CLAIM	0.02	10.20	01/01 to 12/31
42M 165334 00**	STATEMENT OF CLAIM	0.02	17.00	01/01 to 12/31
42M 165338 00	STATEMENT OF CLAIM	0.02	2.20	01/01 to 12/31
42M 165339 00**	STATEMENT OF CLAIM	0.02	17.00	01/01 to 12/31
42M 165340 00	STATEMENT OF CLAIM	0.02	2.20	01/01 to 12/31
42M 165345 00**	STATEMENT OF CLAIM	0.02	6.80	01/01 to 12/31
42M 165346 00**	STATEMENT OF CLAIM	0.02	10.20	01/01 to 12/31
42M 165347 00	STATEMENT OF CLAIM	0.02	4.00	01/01 to 12/31
42M 165348 00**	STATEMENT OF CLAIM	0.02	17.00	01/01 to 12/31
42M 165807 00**	STATEMENT OF CLAIM	0.01	2.04	01/01 to 12/31
42M 16717 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
42M 168988 00**	STATEMENT OF CLAIM	0.06	18.44	01/01 to 12/31
42M 168989 00	STATEMENT OF CLAIM	0.06	4.00	01/01 to 12/31
42M 16974 00	GROUND WATER CERTIFICATE	0.02	2.50	08/01 to 03/31
42M 17097 00	GROUND WATER CERTIFICATE	0.02	0.60	01/01 to 12/31
42M 17227 00	STATEMENT OF CLAIM	0.02	3.50	01/01 to 12/31
42M 17228 00**	STATEMENT OF CLAIM	0.01	6.12	03/01 to 08/01
42M 17229 00**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
42M 17230 00**	STATEMENT OF CLAIM	0.03	6.12	08/01 to 03/01

42M 17232 00**	STATEMENT OF CLAIM	0.01	6.12	04/01 to 10/01
42M 17233 00	STATEMENT OF CLAIM	0.01	2.00	01/01 to 12/31
42M 17234 00**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
42M 17263 00	STATEMENT OF CLAIM	0.01	2.75	01/01 to 12/31
42M 17265 00**	STATEMENT OF CLAIM	0.01	10.40	01/01 to 12/31
42M 17267 00**	STATEMENT OF CLAIM	0.01	10.20	05/01 to 11/01
42M 17269 00**	STATEMENT OF CLAIM	0.01	10.20	05/01 to 10/01
42M 173671 00**	STATEMENT OF CLAIM	0.02	5.10	09/01 to 12/01
42M 173672 00	STATEMENT OF CLAIM	0.02	2.00	01/01 to 12/31
42M 17541 00**	STATEMENT OF CLAIM	0.01	18.02	01/01 to 12/31
42M 17544 00**	STATEMENT OF CLAIM	0.01	18.02	01/01 to 12/31
42M 17545 00**	STATEMENT OF CLAIM	0.01	18.02	01/01 to 12/31
42M 17546 00	GROUND WATER CERTIFICATE	0.01	2.69	01/01 to 12/31
42M 17549 00**	STATEMENT OF CLAIM	0.01	17.00	01/01 to 12/31
42M 17550 00**	STATEMENT OF CLAIM	0.03	18.02	04/01 to 11/15
42M 17551 00	STATEMENT OF CLAIM	0.01	1.00	01/01 to 12/31
42M 17552 00	STATEMENT OF CLAIM	0.01	1.00	01/01 to 12/31
42M 17617 00	GROUND WATER CERTIFICATE	0.04	0.37	01/01 to 12/31
42M 176995 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 178313 00**	STATEMENT OF CLAIM	0.02	14.05	04/28 to 11/30
42M 17962 00	GROUND WATER CERTIFICATE	0.11	1.50	01/01 to 12/31
42M 1839 00	STATEMENT OF CLAIM	0.02	1.00	01/01 to 12/31
42M 1840 00**	STATEMENT OF CLAIM	0.02	2.55	01/01 to 12/31
42M 18413 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 1866 00***	GROUND WATER CERTIFICATE	0.05	36.14	01/01 to 12/31
42M 18703 00	GROUND WATER CERTIFICATE	0.01	0.63	05/01 to 09/30
42M 19396 00	GROUND WATER CERTIFICATE	0.01	3.00	01/01 to 12/31
42M 19610 00	STATEMENT OF CLAIM	0.02	2.00	01/01 to 12/31
42M 19847 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 20107 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 2025 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 20430 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 20454 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 20456 00**	STATEMENT OF CLAIM	0.02	1.51	01/01 to 12/31
42M 20463 00**	STATEMENT OF CLAIM	0.03	6.63	01/01 to 12/31
42M 20495 00**	STATEMENT OF CLAIM	0.02	11.90	01/01 to 12/31
42M 2081 00***	GROUND WATER CERTIFICATE	0.10	72.27	01/01 to 12/31
42M 20823 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31

42M 20945 00	GROUND WATER CERTIFICATE	0.01	2.25	01/01 to 12/31
42M 21086 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 21402 00	GROUND WATER CERTIFICATE	0.20	63.00	01/01 to 12/31
42M 21403 00	GROUND WATER CERTIFICATE	0.17	64.50	01/01 to 12/31
42M 21564 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 22410 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 22430 00	GROUND WATER CERTIFICATE	0.04	2.17	01/01 to 12/31
42M 22484 00	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 22485 00	STATEMENT OF CLAIM	0.01	2.50	01/01 to 12/31
42M 22540 00	GROUND WATER CERTIFICATE	0.04	2.00	01/01 to 12/31
42M 22541 00	GROUND WATER CERTIFICATE	0.03	2.00	01/01 to 12/31
42M 22678 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 23025 00	GROUND WATER CERTIFICATE	0.08	1.50	01/01 to 12/31
42M 23197 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 23534 00	GROUND WATER CERTIFICATE	0.02	3.00	01/01 to 12/31
42M 23573 00	GROUND WATER CERTIFICATE	0.01	1.01	01/01 to 12/31
42M 24286 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 24439 00	GROUND WATER CERTIFICATE	0.06	1.10	05/15 to 10/31
42M 24526 00	EXEMPT RIGHT	0.04	0.80	03/31 to 12/31
42M 24790 00	GROUND WATER CERTIFICATE	0.02	3.00	01/01 to 12/31
42M 25063 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 25505 00	STATEMENT OF CLAIM	0.01	4.50	01/01 to 12/31
42M 25507 00**	STATEMENT OF CLAIM	0.01	5.41	01/01 to 12/31
42M 25510 00	STATEMENT OF CLAIM	0.01	4.50	01/01 to 12/31
42M 25513 00**	STATEMENT OF CLAIM	0.01	5.10	01/01 to 12/31
42M 2627 00***	GROUND WATER CERTIFICATE	0.01	3.78	05/01 to 12/01
42M 2628 00***	GROUND WATER CERTIFICATE	0.01	4.24	05/01 to 12/01
42M 263 00	GROUND WATER CERTIFICATE	0.01	0.92	05/01 to 10/01
42M 26670 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 26946 00	GROUND WATER CERTIFICATE	0.02	4.60	01/01 to 12/31
42M 27577 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 27622 00	GROUND WATER CERTIFICATE	0.03	1.67	01/01 to 12/31
42M 27623 00	GROUND WATER CERTIFICATE	0.00	1.60	01/01 to 12/31
42M 27937 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 28072 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 28413 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 28742 00	GROUND WATER CERTIFICATE	0.01	1.66	01/01 to 12/31
42M 28783 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31

42M 28820 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 28846 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 28933 00	PROVISIONAL PERMIT	0.44	130.00	01/01 to 12/31
42M 29452 00	GROUND WATER CERTIFICATE	0.00	3.00	01/01 to 12/31
42M 29453 00	GROUND WATER CERTIFICATE	0.00	0.70	09/01 to 11/01
42M 29454 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 29455 00	GROUND WATER CERTIFICATE	0.00	0.57	09/01 to 11/01
42M 29467 00	GROUND WATER CERTIFICATE	0.02	1.17	10/15 to 09/15
42M 29817 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 30001030	GROUND WATER CERTIFICATE	0.04	5.62	01/01 to 12/31
42M 30001565	GROUND WATER CERTIFICATE	0.02	2.14	01/01 to 12/31
42M 30001603	GROUND WATER CERTIFICATE	0.04	4.73	10/10 to 04/30
42M 30003080	GROUND WATER CERTIFICATE	0.02	1.48	05/01 to 11/15
42M 30003198	GROUND WATER CERTIFICATE	0.01	0.42	06/01 to 10/30
42M 30004133	GROUND WATER CERTIFICATE	0.02	1.90	04/01 to 10/31
42M 30008518*	GROUND WATER CERTIFICATE	0.03	2.83	04/15 to 10/30
42M 30008523*	GROUND WATER CERTIFICATE	0.03	2.83	06/01 to 12/31
42M 30008736*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30009300*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30009491*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30009713*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30010531*	GROUND WATER CERTIFICATE	0.03	2.83	04/01 to 11/01
42M 30011257*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30011518**	GROUND WATER CERTIFICATE	0.08	1.70	04/01 to 11/30
42M 30011743 *	GROUND WATER CERTIFICATE	0.03	2.83	<Null>
42M 30012220*	GROUND WATER CERTIFICATE	0.03	2.83	05/01 to 08/31
42M 30012282	EXEMPT RIGHT	0.03	1.70	05/15 to 10/15
42M 30012283	EXEMPT RIGHT	0.06	1.70	01/01 to 12/31
42M 30012285	EXEMPT RIGHT	0.02	1.00	01/01 to 12/31
42M 30012287	EXEMPT RIGHT	0.02	1.00	01/01 to 12/31
42M 30012288	EXEMPT RIGHT	0.03	12.50	04/15 to 09/15
42M 30012793*	GROUND WATER CERTIFICATE	0.03	2.83	05/15 to 11/01
42M 30013017*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30014017*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30014275*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30016639*	GROUND WATER CERTIFICATE	0.03	2.83	04/01 to 10/31
42M 30016652*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30016838*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31

42M 30017221*	GROUND WATER CERTIFICATE	0.03	1.63	01/01 to 12/31
42M 30018145*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30021330	GROUND WATER CERTIFICATE	0.01	0.34	01/01 to 12/31
42M 30021689*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30021903*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30021929	GROUND WATER CERTIFICATE	0.03	1.36	01/01 to 12/31
42M 30021930	GROUND WATER CERTIFICATE	0.02	0.57	08/01 to 11/30
42M 30022181 **	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 30023202*	GROUND WATER CERTIFICATE	0.03	2.83	04/01 to 10/31
42M 30024396 **	GROUND WATER CERTIFICATE	0.09	5.10	01/01 to 12/31
42M 30024600	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
42M 30025394*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30025541*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30025675*	GROUND WATER CERTIFICATE	0.03	2.83	05/01 to 10/31
42M 30025676*	GROUND WATER CERTIFICATE	0.03	2.83	06/01 to 10/31
42M 30025852*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30026150*	GROUND WATER CERTIFICATE	0.03	3.75	04/01 to 10/31
42M 30026967*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30027456*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30027753	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 30027937*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30028900*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30029298*	GROUND WATER CERTIFICATE	0.03	2.83	04/01 to 10/31
42M 30029299*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30029577*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30030094*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30030189*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30030977*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30042083*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30042536	GROUND WATER CERTIFICATE	0.01	2.60	01/01 to 12/31
42M 30042554	GROUND WATER CERTIFICATE	0.01	3.00	01/01 to 12/31
42M 30042595	GROUND WATER CERTIFICATE	0.03	1.63	01/01 to 12/31
42M 30042688*	GROUND WATER CERTIFICATE	0.03	2.83	01/01 to 12/31
42M 30043724	GROUND WATER CERTIFICATE	0.01	1.45	01/01 to 12/31
42M 30044138	GROUND WATER CERTIFICATE	0.03	1.13	04/01 to 10/31
42M 30044327	GROUND WATER CERTIFICATE	0.02	1.25	01/01 to 12/31
42M 30044357	GROUND WATER CERTIFICATE	0.01	0.67	05/30 to 11/01
42M 30044795	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31

42M 30044883	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 30044998	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
42M 30045323	GROUND WATER CERTIFICATE	0.02	2.00	01/01 to 12/31
42M 30045477	GROUND WATER CERTIFICATE	0.02	1.85	01/01 to 12/31
42M 30045479	GROUND WATER CERTIFICATE	0.03	0.85	01/01 to 12/31
42M 30045645	GROUND WATER CERTIFICATE	0.06	1.00	01/01 to 12/31
42M 30046440	GROUND WATER CERTIFICATE	0.02	3.08	01/01 to 12/31
42M 30047258	PROVISIONAL PERMIT	2.00	272.00	04/01 to 10/31
42M 30048949	GROUND WATER CERTIFICATE	0.05	1.00	01/01 to 12/31
42M 30049532	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
42M 30049987	GROUND WATER CERTIFICATE	0.02	2.63	01/01 to 12/31
42M 30049996	GROUND WATER CERTIFICATE	0.02	2.36	01/01 to 12/31
42M 30050023	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
42M 30050024	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
42M 30050025	GROUND WATER CERTIFICATE	0.02	4.25	01/01 to 12/31
42M 30050163	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
42M 30050448	GROUND WATER CERTIFICATE	0.02	2.05	01/01 to 12/31
42M 30051628	GROUND WATER CERTIFICATE	0.01	1.71	01/01 to 12/31
42M 30051731	GROUND WATER CERTIFICATE	0.03	1.26	01/01 to 12/31
42M 30051786	GROUND WATER CERTIFICATE	0.01	3.09	04/01 to 10/31
42M 30052275	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 30062869	GROUND WATER CERTIFICATE	0.06	6.60	04/01 to 10/31
42M 30063147	GROUND WATER CERTIFICATE	0.05	5.54	01/01 to 12/31
42M 30063213	GROUND WATER CERTIFICATE	0.03	2.94	01/01 to 12/31
42M 30063224	GROUND WATER CERTIFICATE	0.01	0.42	05/01 to 09/30
42M 30063248	GROUND WATER CERTIFICATE	0.03	0.60	01/01 to 12/31
42M 30063321	GROUND WATER CERTIFICATE	0.01	1.50	04/01 to 11/30
42M 30063387	GROUND WATER CERTIFICATE	0.02	3.50	01/01 to 12/31
42M 30063412	GROUND WATER CERTIFICATE	0.01	7.95	01/01 to 12/31
42M 30063554	GROUND WATER CERTIFICATE	0.03	8.31	01/01 to 12/31
42M 30063749	GROUND WATER CERTIFICATE	0.06	7.95	04/01 to 11/01
42M 30064087	GROUND WATER CERTIFICATE	0.03	1.28	01/01 to 12/31
42M 30064088	GROUND WATER CERTIFICATE	0.03	1.15	01/01 to 12/31
42M 30064106	GROUND WATER CERTIFICATE	0.03	5.91	01/01 to 12/31
42M 30064107	GROUND WATER CERTIFICATE	0.02	0.88	01/01 to 12/31
42M 30064445	GROUND WATER CERTIFICATE	0.04	2.20	01/01 to 12/31
42M 30065050	GROUND WATER CERTIFICATE	0.02	1.15	01/01 to 12/31
42M 30065322	GROUND WATER CERTIFICATE	0.02	2.21	01/01 to 12/31

42M 30065524	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
42M 30065716	GROUND WATER CERTIFICATE	0.02	2.81	01/01 to 12/31
42M 30066243	GROUND WATER CERTIFICATE	0.02	1.05	01/01 to 12/31
42M 30066848	GROUND WATER CERTIFICATE	0.07	5.71	01/01 to 12/31
42M 30066850	GROUND WATER CERTIFICATE	0.02	2.54	01/01 to 12/31
42M 30066962	PROVISIONAL PERMIT	1.78	272.00	04/01 to 10/31
42M 30067099	GROUND WATER CERTIFICATE	0.03	3.00	04/01 to 10/31
42M 30067255	GROUND WATER CERTIFICATE	0.01	0.70	04/01 to 10/31
42M 30067686	GROUND WATER CERTIFICATE	0.04	3.35	01/01 to 12/31
42M 30068013	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 30068525	GROUND WATER CERTIFICATE	0.05	0.52	01/01 to 12/31
42M 30068526	GROUND WATER CERTIFICATE	0.03	1.00	01/01 to 12/31
42M 30068630	GROUND WATER CERTIFICATE	0.03	2.35	01/01 to 12/31
42M 30068877	GROUND WATER CERTIFICATE	0.02	5.53	01/01 to 12/31
42M 30069029	GROUND WATER CERTIFICATE	0.02	2.94	01/01 to 12/31
42M 30069037	GROUND WATER CERTIFICATE	0.02	0.06	01/01 to 12/31
42M 30069566	GROUND WATER CERTIFICATE	0.02	0.85	01/01 to 12/31
42M 30069953	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 30070138	GROUND WATER CERTIFICATE	0.04	0.34	05/01 to 11/01
42M 30070201	GROUND WATER CERTIFICATE	0.01	1.94	01/01 to 12/31
42M 30070220	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
42M 30070638	GROUND WATER CERTIFICATE	0.03	0.23	01/01 to 12/31
42M 30070643**	STATEMENT OF CLAIM	0.02	4.52	01/01 to 12/31
42M 30071042	GROUND WATER CERTIFICATE	0.02	0.30	06/15 to 10/15
42M 30071069	GROUND WATER CERTIFICATE	0.01	1.35	01/01 to 12/31
42M 30071720	GROUND WATER CERTIFICATE	0.07	1.85	01/01 to 12/31
42M 30072618	GROUND WATER CERTIFICATE	0.05	0.20	10/01 to 11/30
42M 30104104	GROUND WATER CERTIFICATE	0.01	2.25	01/01 to 12/31
42M 30104109	GROUND WATER CERTIFICATE	0.01	1.85	01/01 to 12/31
42M 30104125	GROUND WATER CERTIFICATE	0.01	0.57	09/01 to 12/31
42M 30105766	GROUND WATER CERTIFICATE	0.05	3.06	01/01 to 12/31
42M 30106488	GROUND WATER CERTIFICATE	0.01	0.16	04/01 to 10/31
42M 30106841	PROVISIONAL PERMIT	3.40	858.00	04/01 to 10/31
42M 30106866	GROUND WATER CERTIFICATE	0.04	2.37	01/01 to 12/31
42M 30107054	GROUND WATER CERTIFICATE	0.04	2.00	01/01 to 12/31
42M 30109085	GROUND WATER CERTIFICATE	0.03	1.28	01/01 to 12/31
42M 30112593	GROUND WATER CERTIFICATE	0.06	1.87	01/01 to 12/31
42M 30112705	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31

42M 30113196	GROUND WATER CERTIFICATE	0.03	3.38	01/01 to 12/31
42M 30113468	STATEMENT OF CLAIM	0.01	1.50	01/01 to 12/31
42M 30113845	GROUND WATER CERTIFICATE	0.04	1.16	01/01 to 12/31
42M 30114305	GROUND WATER CERTIFICATE	0.03	0.85	01/01 to 12/31
42M 30114439	GROUND WATER CERTIFICATE	0.04	0.43	08/01 to 10/31
42M 30114440	GROUND WATER CERTIFICATE	0.02	1.50	04/01 to 11/01
42M 30115257	GROUND WATER CERTIFICATE	0.03	1.70	04/01 to 09/30
42M 30115843	GROUND WATER CERTIFICATE	0.02	1.72	03/01 to 11/30
42M 30115844	GROUND WATER CERTIFICATE	0.03	1.86	01/01 to 12/31
42M 30116338	GROUND WATER CERTIFICATE	0.03	1.28	01/01 to 12/31
42M 30116349	GROUND WATER CERTIFICATE	0.03	0.68	01/01 to 12/31
42M 30116352	GROUND WATER CERTIFICATE	0.03	0.94	05/01 to 10/31
42M 30119460	GROUND WATER CERTIFICATE	0.03	1.03	01/01 to 12/31
42M 30120002**	STATEMENT OF CLAIM	0.01	0.68	04/01 to 11/30
42M 30121730**	STATEMENT OF CLAIM	0.04	3.91	01/01 to 12/31
42M 30121732	STATEMENT OF CLAIM	0.04	2.75	01/01 to 12/31
42M 30121933	STATEMENT OF CLAIM	0.01	7.00	01/01 to 12/31
42M 30121934	STATEMENT OF CLAIM	0.01	3.00	01/01 to 12/31
42M 30121938	STATEMENT OF CLAIM	0.01	3.50	01/01 to 12/31
42M 30122462	GROUND WATER CERTIFICATE	0.06	1.70	01/01 to 12/31
42M 30124988	GROUND WATER CERTIFICATE	0.03	1.02	01/01 to 12/31
42M 30125401	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 30125433	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 30125435	GROUND WATER CERTIFICATE	0.03	1.70	01/01 to 12/31
42M 30127040**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 30127052**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
42M 30127074**	STATEMENT OF CLAIM	0.01	3.40	01/01 to 12/31
42M 30127430	STATEMENT OF CLAIM	0.03	5.00	04/15 to 09/15
42M 30127431**	STATEMENT OF CLAIM	0.06	1.70	01/01 to 12/31
42M 30127433**	STATEMENT OF CLAIM	0.03	4.45	05/15 to 10/15
42M 30127489	STATEMENT OF CLAIM	0.02	1.00	01/01 to 12/31
42M 30128010	GROUND WATER CERTIFICATE	0.02	3.40	01/01 to 12/31
42M 30128816	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
42M 30133543	STATEMENT OF CLAIM	0.01	3.50	01/01 to 12/31
42M 30133703	GROUND WATER CERTIFICATE	0.02	1.36	01/01 to 12/31
42M 30133828	STATEMENT OF CLAIM	0.01	2.25	01/01 to 12/31
42M 30134353	GROUND WATER CERTIFICATE	0.02	5.08	01/01 to 12/31
42M 30148172	GROUND WATER CERTIFICATE	0.02	0.33	06/01 to 12/30

42M 30148602	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 30149887	GROUND WATER CERTIFICATE	0.01	3.82	01/01 to 12/31
42M 30150475	GROUND WATER CERTIFICATE	0.01	0.34	05/01 to 08/31
42M 30151175	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 30153810	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 30154604	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
42M 30154616	GROUND WATER CERTIFICATE	0.02	2.47	01/01 to 12/31
42M 30154874	GROUND WATER CERTIFICATE	0.03	2.56	04/01 to 12/31
42M 30155462	GROUND WATER CERTIFICATE	0.01	0.64	05/01 to 10/31
42M 30157916	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 30158284	GROUND WATER CERTIFICATE	0.04	1.70	01/01 to 12/31
42M 30159143	GROUND WATER CERTIFICATE	0.01	3.50	01/01 to 12/31
42M 30159570	GROUND WATER CERTIFICATE	0.03	7.50	04/01 to 10/31
42M 30159885	PROVISIONAL PERMIT	0.55	40.10	01/01 to 12/31
42M 30160031	GROUND WATER CERTIFICATE	0.03	0.94	01/01 to 12/31
42M 30161254	GROUND WATER CERTIFICATE	0.07	1.00	04/01 to 10/31
42M 30161421	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
42M 30161422	GROUND WATER CERTIFICATE	0.03	3.40	01/01 to 12/31
42M 30161427	GROUND WATER CERTIFICATE	0.04	1.91	09/01 to 06/01
42M 30161467	GROUND WATER CERTIFICATE	0.01	2.55	05/01 to 10/31
42M 30161469	GROUND WATER CERTIFICATE	0.01	2.55	05/01 to 10/31
42M 30161664	GROUND WATER CERTIFICATE	0.06	3.75	04/01 to 10/31
42M 30161666	GROUND WATER CERTIFICATE	0.04	3.75	04/01 to 10/31
42M 30162577	GROUND WATER CERTIFICATE	0.02	4.40	01/01 to 12/31
42M 30162765	GROUND WATER CERTIFICATE	0.03	2.13	01/01 to 12/31
42M 30472 00	GROUND WATER CERTIFICATE	0.06	15.00	01/01 to 12/31
42M 30871 00	GROUND WATER CERTIFICATE	0.11	1.50	01/01 to 12/31
42M 30951 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 3125 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 31303 00	PROVISIONAL PERMIT	0.93	135.00	03/01 to 10/31
42M 31821 00	GROUND WATER CERTIFICATE	0.03	5.80	01/01 to 12/31
42M 32130 00**	STATEMENT OF CLAIM	0.02	11.90	01/01 to 12/31
42M 32428 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 3263 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 32649 00	GROUND WATER CERTIFICATE	0.05	3.00	01/01 to 12/31
42M 32789 00	GROUND WATER CERTIFICATE	0.01	2.52	01/01 to 12/31
42M 32902 00	GROUND WATER CERTIFICATE	0.01	1.68	01/01 to 12/31
42M 33054 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31

42M 33060 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 33061 00	GROUND WATER CERTIFICATE	0.01	2.33	01/01 to 12/31
42M 33071 00	GROUND WATER CERTIFICATE	0.02	0.98	05/01 to 11/30
42M 33468 00	GROUND WATER CERTIFICATE	0.04	0.42	09/01 to 11/30
42M 33469 00	GROUND WATER CERTIFICATE	0.01	0.64	09/01 to 11/30
42M 33542 00	GROUND WATER CERTIFICATE	0.02	4.68	01/01 to 12/31
42M 33815 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 33847 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 33861 00	GROUND WATER CERTIFICATE	0.02	0.74	05/01 to 11/30
42M 3392 00**	GROUND WATER CERTIFICATE	1 GPM	0.51	01/01 to 12/31
42M 33994 00	GROUND WATER CERTIFICATE	0.02	0.55	05/15 to 11/15
42M 34345 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 34650 00	GROUND WATER CERTIFICATE	0.02	4.50	01/01 to 12/31
42M 34902 00	GROUND WATER CERTIFICATE	0.05	1.50	01/01 to 12/31
42M 3519 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 35711 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 3582 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 36516 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 36672 00	GROUND WATER CERTIFICATE	0.02	8.04	01/01 to 12/31
42M 36819 00**	STATEMENT OF CLAIM	0.02	5.95	01/01 to 12/31
42M 3682 00***	GROUND WATER CERTIFICATE	0.01	5.43	04/01 to 12/31
42M 3729 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 3731 00***	GROUND WATER CERTIFICATE	0.04	28.91	01/01 to 12/31
42M 37562 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37563 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37564 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37565 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37566 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37567 00**	STATEMENT OF CLAIM	0.01	6.80	01/01 to 12/31
42M 37716 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 37726 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 38652 00	GROUND WATER CERTIFICATE	0.01	0.84	05/01 to 09/01
42M 38666 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 38912 00	STATEMENT OF CLAIM	0.04	3.80	01/01 to 12/31
42M 39412 00	GROUND WATER CERTIFICATE	0.01	3.00	01/01 to 12/31
42M 40726 00	GROUND WATER CERTIFICATE	0.01	3.60	01/01 to 12/31
42M 40743 00	GROUND WATER CERTIFICATE	0.01	2.50	01/01 to 12/31
42M 40886 00	GROUND WATER CERTIFICATE	0.03	8.40	01/01 to 12/31

42M 40888 00	GROUND WATER CERTIFICATE	0.02	3.00	01/01 to 12/31
42M 4096 00***	GROUND WATER CERTIFICATE	0.01	2.40	09/01 to 01/01
42M 4099 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 41512 00	GROUND WATER CERTIFICATE	0.01	6.53	01/01 to 12/31
42M 41842 00	GROUND WATER CERTIFICATE	0.01	5.20	05/01 to 08/01
42M 4222 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 4271 00**	STATEMENT OF CLAIM	0.01	8.50	01/01 to 12/31
42M 42862 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 430 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 4312 00	GROUND WATER CERTIFICATE	0.04	1.50	05/01 to 12/31
42M 43669 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 43759 00	STATEMENT OF CLAIM	0.02	0.40	01/01 to 12/31
42M 43924 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 4400 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 44159 00	GROUND WATER CERTIFICATE	0.02	2.40	01/01 to 12/31
42M 44388 00	GROUND WATER CERTIFICATE	0.01	2.90	05/01 to 12/31
42M 4459 00***	GROUND WATER CERTIFICATE	0.00	3.22	01/01 to 12/31
42M 44607 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 44663 00	GROUND WATER CERTIFICATE	0.11	78.00	01/01 to 12/31
42M 44664 00	GROUND WATER CERTIFICATE	0.10	72.50	01/01 to 12/31
42M 44889 00	GROUND WATER CERTIFICATE	0.04	6.53	01/01 to 12/31
42M 44961 00	GROUND WATER CERTIFICATE	0.01	8.06	01/01 to 12/31
42M 45514 00	GROUND WATER CERTIFICATE	0.00	0.30	05/01 to 10/31
42M 46152 00	GROUND WATER CERTIFICATE	0.06	3.00	01/01 to 12/31
42M 46180 00	GROUND WATER CERTIFICATE	0.01	3.35	01/01 to 12/31
42M 46185 00	GROUND WATER CERTIFICATE	0.01	5.03	01/01 to 12/31
42M 4623 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 46342 00	GROUND WATER CERTIFICATE	0.01	0.67	01/01 to 12/31
42M 46345 00	GROUND WATER CERTIFICATE	0.01	1.67	01/01 to 12/31
42M 46346 00	GROUND WATER CERTIFICATE	0.01	0.67	04/01 to 11/30
42M 46632 00	GROUND WATER CERTIFICATE	0.02	5.70	01/01 to 12/31
42M 46647 00	GROUND WATER CERTIFICATE	0.01	1.12	05/01 to 12/31
42M 46661 00	GROUND WATER CERTIFICATE	0.02	0.39	10/01 to 05/01
42M 46662 00	GROUND WATER CERTIFICATE	0.01	0.84	01/01 to 12/31
42M 46783 00**	STATEMENT OF CLAIM	0.01	8.26	01/01 to 12/31
42M 46971 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 46995 00	GROUND WATER CERTIFICATE	0.04	18.00	01/01 to 12/31
42M 47011 00	GROUND WATER CERTIFICATE	0.01	2.17	01/01 to 12/31

42M 47041 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 4824 00***	GROUND WATER CERTIFICATE	0.04	28.91	01/01 to 12/31
42M 48435 00	GROUND WATER CERTIFICATE	0.02	1.26	01/01 to 12/31
42M 48711 00	GROUND WATER CERTIFICATE	0.02	7.10	01/01 to 12/31
42M 48977 00	GROUND WATER CERTIFICATE	0.01	2.00	01/01 to 12/31
42M 49059 00	EXEMPT RIGHT	0.01	5.70	01/01 to 12/31
42M 49253 00	STATEMENT OF CLAIM	0.02	0.40	01/01 to 12/31
42M 4943 00***	GROUND WATER CERTIFICATE	0.01	4.81	10/01 to 06/01
42M 4966 00***	GROUND WATER CERTIFICATE	0.03	7.25	03/01 to 05/31
42M 4985 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 50236 00	GROUND WATER CERTIFICATE	0.01	2.50	01/01 to 12/31
42M 50237 00	GROUND WATER CERTIFICATE	0.01	0.67	04/01 to 11/30
42M 50238 00	GROUND WATER CERTIFICATE	0.01	1.12	04/01 to 11/30
42M 50239 00	GROUND WATER CERTIFICATE	0.02	0.51	04/01 to 09/30
42M 50290 00	GROUND WATER CERTIFICATE	0.01	3.36	01/01 to 12/31
42M 50299 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 50347 00	GROUND WATER CERTIFICATE	0.01	0.56	04/01 to 11/30
42M 50390 00	GROUND WATER CERTIFICATE	0.02	8.04	01/01 to 12/31
42M 5087 00***	GROUND WATER CERTIFICATE	0.04	28.91	01/01 to 12/31
42M 5118 00	STATEMENT OF CLAIM	0.02	1.50	01/01 to 12/31
42M 5139 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 5162 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 51795 00	GROUND WATER CERTIFICATE	0.01	2.68	01/01 to 12/31
42M 51882 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 51888 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 51905 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 51906 00	GROUND WATER CERTIFICATE	0.04	0.85	01/01 to 12/31
42M 51915 00	GROUND WATER CERTIFICATE	0.01	4.02	01/01 to 12/31
42M 51916 00	GROUND WATER CERTIFICATE	0.05	3.18	01/01 to 12/31
42M 51954 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 5213 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 5214 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 52588 00	GROUND WATER CERTIFICATE	0.05	3.60	01/01 to 12/31
42M 52593 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 04/15
42M 53224 00	GROUND WATER CERTIFICATE	0.02	1.26	01/01 to 12/31
42M 53227 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 53307 00	GROUND WATER CERTIFICATE	0.03	1.26	05/01 to 11/01
42M 53315 00	GROUND WATER CERTIFICATE	0.01	6.88	04/01 to 10/31

42M 53331 00	GROUND WATER CERTIFICATE	0.02	0.85	01/01 to 12/31
42M 53342 00	GROUND WATER CERTIFICATE	0.03	1.19	04/01 to 10/01
42M 53353 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 5375 00***	GROUND WATER CERTIFICATE	0.01	6.44	01/01 to 12/31
42M 54881 00	GROUND WATER CERTIFICATE	0.01	1.60	01/01 to 12/31
42M 55457 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 55523 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 5647 00***	GROUND WATER CERTIFICATE	0.01	2.44	05/01 to 09/01
42M 56583 00	GROUND WATER CERTIFICATE	0.02	9.70	01/01 to 12/31
42M 5722 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 57290 00	GROUND WATER CERTIFICATE	0.04	2.72	05/01 to 12/31
42M 57320 00	GROUND WATER CERTIFICATE	0.01	3.50	01/01 to 12/31
42M 57339 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 57391 00	GROUND WATER CERTIFICATE	0.01	0.85	04/01 to 10/31
42M 57392 00	GROUND WATER CERTIFICATE	0.01	0.85	04/01 to 10/31
42M 57447 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 59005 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 5918 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 59486 00	GROUND WATER CERTIFICATE	0.02	2.28	01/01 to 12/31
42M 59489 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 59500 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 59513 00	GROUND WATER CERTIFICATE	0.02	3.00	01/01 to 12/31
42M 59514 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 59538 00	GROUND WATER CERTIFICATE	0.01	1.02	01/01 to 12/31
42M 59541 00	GROUND WATER CERTIFICATE	0.01	7.65	01/01 to 12/31
42M 59542 00	GROUND WATER CERTIFICATE	0.00	1.53	01/01 to 12/31
42M 59556 00	GROUND WATER CERTIFICATE	0.01	0.51	03/15 to 10/15
42M 59562 00	GROUND WATER CERTIFICATE	0.01	1.02	06/01 to 10/01
42M 59567 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 59670 00	EXEMPT RIGHT	0.02	1.80	01/01 to 12/31
42M 59674 00	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
42M 597 00	GROUND WATER CERTIFICATE	0.02	0.26	01/01 to 12/31
42M 6080 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 61779 00	GROUND WATER CERTIFICATE	0.00	1.70	01/01 to 12/31
42M 61784 00	PROVISIONAL PERMIT	3.34	470.00	01/01 to 12/31
42M 61799 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
42M 61838 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 61875 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31

42M 61879 00	GROUND WATER CERTIFICATE	0.05	1.50	01/01 to 12/31
42M 61885 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 6376 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 6394 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 6396 00	GROUND WATER CERTIFICATE	0.02	1.00	01/01 to 12/31
42M 64070 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 64073 00	GROUND WATER CERTIFICATE	0.02	6.40	01/01 to 12/31
42M 64075 00	GROUND WATER CERTIFICATE	0.04	3.00	01/01 to 12/31
42M 64108 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 6427 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 66145 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66146 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66158 00	GROUND WATER CERTIFICATE	0.01	10.55	01/01 to 12/31
42M 66193 00	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
42M 66196 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66207 00	GROUND WATER CERTIFICATE	0.02	9.37	01/01 to 12/31
42M 66237 00	GROUND WATER CERTIFICATE	0.04	0.50	03/01 to 10/31
42M 66241 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66244 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66273 00	GROUND WATER CERTIFICATE	0.03	6.10	03/15 to 10/31
42M 66277 00	GROUND WATER CERTIFICATE	0.02	1.53	04/01 to 09/30
42M 66281 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66289 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66291 00	GROUND WATER CERTIFICATE	0.03	1.50	01/01 to 12/31
42M 66302 00	GROUND WATER CERTIFICATE	0.02	4.56	01/01 to 12/31
42M 66310 00	GROUND WATER CERTIFICATE	0.06	1.00	05/01 to 09/30
42M 66312 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 66316 00	GROUND WATER CERTIFICATE	0.02	3.36	01/01 to 12/31
42M 66322 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 6916 00	GROUND WATER CERTIFICATE	0.01	1.85	01/01 to 12/31
42M 69223 00	GROUND WATER CERTIFICATE	0.01	0.43	06/01 to 11/01
42M 69226 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 69240 00	GROUND WATER CERTIFICATE	0.01	0.42	09/01 to 11/30
42M 69241 00	GROUND WATER CERTIFICATE	0.01	0.86	05/01 to 11/01
42M 69259 00	GROUND WATER CERTIFICATE	0.04	0.71	05/01 to 09/30
42M 69261 00	GROUND WATER CERTIFICATE	0.01	1.02	01/01 to 12/31
42M 69266 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 69282 00	GROUND WATER CERTIFICATE	0.02	2.49	04/01 to 10/31

42M 69284 00	GROUND WATER CERTIFICATE	0.01	0.86	06/01 to 09/01
42M 69290 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 69293 00	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
42M 70187 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 70193 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 70214 00	GROUND WATER CERTIFICATE	0.04	1.48	09/01 to 03/31
42M 70225 00	EXEMPT RIGHT	0.01	1.70	01/01 to 12/31
42M 70229 00	GROUND WATER CERTIFICATE	0.02	5.10	01/01 to 12/31
42M 70242 00	GROUND WATER CERTIFICATE	0.03	2.86	05/10 to 12/01
42M 71217 00	GROUND WATER CERTIFICATE	0.02	2.07	01/01 to 12/31
42M 71262 00	GROUND WATER CERTIFICATE	0.02	2.52	01/01 to 12/31
42M 71271 00	GROUND WATER CERTIFICATE	0.01	1.94	01/01 to 12/31
42M 716 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 71698 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 71709 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 71712 00	GROUND WATER CERTIFICATE	0.04	1.50	01/01 to 12/31
42M 71713 00	GROUND WATER CERTIFICATE	0.03	0.42	05/01 to 09/30
42M 71759 00	GROUND WATER CERTIFICATE	0.02	0.60	05/01 to 12/01
42M 71772 00	GROUND WATER CERTIFICATE	0.01	2.12	01/01 to 12/31
42M 720 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 72920 00	GROUND WATER CERTIFICATE	0.01	0.68	01/01 to 12/31
42M 7304 00 **	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 7317 00***	GROUND WATER CERTIFICATE	0.01	2.99	11/01 to 04/01
42M 7353 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 73761 00	GROUND WATER CERTIFICATE	0.01	0.51	01/01 to 12/31
42M 73775 00	GROUND WATER CERTIFICATE	0.03	3.90	04/01 to 10/31
42M 73798 00	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
42M 7394 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 74093 00	GROUND WATER CERTIFICATE	0.02	1.50	01/01 to 12/31
42M 7429 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 74576 00	GROUND WATER CERTIFICATE	0.02	3.04	01/01 to 12/31
42M 74579 00	GROUND WATER CERTIFICATE	0.03	0.42	01/01 to 12/31
42M 74583 00	GROUND WATER CERTIFICATE	0.03	0.79	04/01 to 11/15
42M 74589 00	GROUND WATER CERTIFICATE	0.01	0.43	06/01 to 11/01
42M 74592 00***	EXEMPT RIGHT	0.02	6.61	05/01 to 10/15
42M 74593 00	GROUND WATER CERTIFICATE	0.01	2.43	03/15 to 12/01
42M 75850 00	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
42M 76536 00	GROUND WATER CERTIFICATE	0.04	0.43	05/01 to 11/01

42M 76557 00	GROUND WATER CERTIFICATE	0.02	4.05	01/01 to 12/31
42M 76558 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 76567 00	GROUND WATER CERTIFICATE	0.01	1.50	01/01 to 12/31
42M 77172 00	GROUND WATER CERTIFICATE	0.04	0.28	07/01 to 08/31
42M 77543 00	GROUND WATER CERTIFICATE	0.01	0.59	01/01 to 12/31
42M 78202 00	GROUND WATER CERTIFICATE	0.01	0.28	06/01 to 10/31
42M 78239 00	GROUND WATER CERTIFICATE	0.01	4.25	01/01 to 12/31
42M 79009 00	GROUND WATER CERTIFICATE	0.07	3.00	01/01 to 12/31
42M 80550 00	GROUND WATER CERTIFICATE	0.03	2.66	01/01 to 12/31
42M 81282 00	GROUND WATER CERTIFICATE	0.02	8.50	01/01 to 12/31
42M 81283 00	GROUND WATER CERTIFICATE	0.06	1.63	01/01 to 12/31
42M 81307 00	GROUND WATER CERTIFICATE	0.02	2.00	01/01 to 12/31
42M 81336 00	GROUND WATER CERTIFICATE	0.02	9.90	01/01 to 12/31
42M 81344 00	GROUND WATER CERTIFICATE	0.03	0.28	05/01 to 09/30
42M 81349 00	GROUND WATER CERTIFICATE	0.01	0.25	04/01 to 09/01
42M 8141 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 83006 00	GROUND WATER CERTIFICATE	0.03	0.86	05/15 to 11/15
42M 83023 00	GROUND WATER CERTIFICATE	0.01	1.50	05/01 to 11/30
42M 83034 00	GROUND WATER CERTIFICATE	0.02	7.77	04/01 to 11/30
42M 8319 00***	GROUND WATER CERTIFICATE	0.01	7.23	01/01 to 12/31
42M 83600 00	EXEMPT RIGHT	0.01	3.91	01/01 to 12/31
42M 8429 00	GROUND WATER CERTIFICATE	0.04	1.00	01/01 to 12/31
42M 84860 00	GROUND WATER CERTIFICATE	0.02	3.61	01/01 to 12/31
42M 8583 00	GROUND WATER CERTIFICATE	0.06	1.00	01/01 to 12/31
42M 86145 00	GROUND WATER CERTIFICATE	0.01	0.34	04/01 to 10/01
42M 86159 00	GROUND WATER CERTIFICATE	0.02	0.85	01/01 to 12/31
42M 86160 00	GROUND WATER CERTIFICATE	0.04	3.40	01/01 to 12/31
42M 86195 00	GROUND WATER CERTIFICATE	0.02	2.55	01/01 to 12/31
42M 86219 00	GROUND WATER CERTIFICATE	0.01	0.44	05/01 to 10/01
42M 88246 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
42M 88280 00	GROUND WATER CERTIFICATE	0.02	1.60	01/01 to 12/31
42M 88307 00	GROUND WATER CERTIFICATE	0.01	8.50	01/01 to 12/31
42M 88331 00	GROUND WATER CERTIFICATE	0.06	9.90	04/01 to 10/31
42M 88334 00	GROUND WATER CERTIFICATE	0.03	4.30	01/01 to 12/31
42M 89085 00	PROVISIONAL PERMIT	0.04	11.70	04/01 to 10/31
42M 89088 00	GROUND WATER CERTIFICATE	0.01	2.25	01/01 to 12/31
42M 89092 00	EXEMPT RIGHT	0.02	2.31	01/01 to 12/31
42M 89096 00	GROUND WATER CERTIFICATE	0.04	1.90	01/01 to 12/31

42M 89103 00	GROUND WATER CERTIFICATE	0.04	5.95	01/01 to 12/31
42M 89844 00	GROUND WATER CERTIFICATE	0.03	9.87	01/01 to 12/31
42M 89861 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 89863 00	GROUND WATER CERTIFICATE	0.01	0.34	04/01 to 12/01
42M 89888 00	PROVISIONAL PERMIT	0.16	33.50	04/01 to 10/31
42M 9010 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 91863 00	EXEMPT RIGHT	0.01	1.02	01/01 to 12/31
42M 91874 00	GROUND WATER CERTIFICATE	0.02	4.00	04/15 to 09/15
42M 91877 00	GROUND WATER CERTIFICATE	0.01	3.40	01/01 to 12/31
42M 91923 00	GROUND WATER CERTIFICATE	0.01	0.85	01/01 to 12/31
42M 91925 00	GROUND WATER CERTIFICATE	0.02	0.71	12/01 to 05/01
42M 92879 00	GROUND WATER CERTIFICATE	0.04	8.43	01/01 to 12/31
42M 9308 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31
42M 9356 00***	GROUND WATER CERTIFICATE	0.02	14.45	01/01 to 12/31
42M 9424 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
42M 94596 00	GROUND WATER CERTIFICATE	0.01	1.75	04/01 to 10/31
42M 94621 00	GROUND WATER CERTIFICATE	0.01	1.70	01/01 to 12/31
42M 94631 00	GROUND WATER CERTIFICATE	0.01	1.63	01/01 to 12/31
42M 94647 00	GROUND WATER CERTIFICATE	0.03	3.62	01/01 to 12/31
42M 9507 00***	GROUND WATER CERTIFICATE	0.01	3.23	05/01 to 10/31
42M 9521 00***	GROUND WATER CERTIFICATE	0.03	21.68	01/01 to 12/31
42M 96324 00	GROUND WATER CERTIFICATE	0.04	3.36	01/01 to 12/31
42M 96336 00	GROUND WATER CERTIFICATE	0.01	1.53	01/01 to 12/31
42M 96385 00	GROUND WATER CERTIFICATE	0.03	1.63	01/01 to 12/31
42M 96389 00	GROUND WATER CERTIFICATE	0.02	1.70	01/01 to 12/31
42M 97728 00	GROUND WATER CERTIFICATE	0.02	5.95	01/01 to 12/31
42M 97729 00	GROUND WATER CERTIFICATE	0.01	0.77	04/01 to 12/31
42M 97747 00	GROUND WATER CERTIFICATE	0.02	1.63	01/01 to 12/31
42M 987 00	GROUND WATER CERTIFICATE	0.01	1.00	04/01 to 11/01
42M 99030 00	GROUND WATER CERTIFICATE	0.05	3.75	04/01 to 11/01
42M 99053 00	GROUND WATER CERTIFICATE	0.02	0.70	06/05 to 10/31
42M 99070 00	GROUND WATER CERTIFICATE	0.01	0.50	05/10 to 11/01
42M 99090 00	GROUND WATER CERTIFICATE	0.01	1.22	01/01 to 12/31
42M 99099 00	GROUND WATER CERTIFICATE	0.01	0.77	01/01 to 12/31
42M 99102 00	GROUND WATER CERTIFICATE	0.03	10.00	01/01 to 12/31
42M 99110 00	GROUND WATER CERTIFICATE	0.02	0.37	05/01 to 11/15
42M 99125 00	GROUND WATER CERTIFICATE	0.03	3.55	01/01 to 12/31
42M 99126 00	GROUND WATER CERTIFICATE	0.03	1.63	01/01 to 12/31

42M 9925 00	GROUND WATER CERTIFICATE	0.01	1.00	01/01 to 12/31

*Volume and flow rate were unquantified. The average flow rate and volume of the other quantified groundwater certificates in the zone of influence were used per Department Standard.

**Volume was determined from the number of AU per department Standard.

***No Volume was given. Flow rate was used to calculate the volume assuming constant diversion during the period of diversion.

Appendix B: Water Rights Completed in the Source Aquifer That Will Experience Drawdown Greater than or Equal to 1.0 Foot

Table 11: Water Rights Completed in the Source Aquifer that will Experience Drawdown greater than 1.0 Foot					
A	B	C	D	E	F
Water Right No.	Distance (ft)	Well Depth (ft)	Well Static (ft)	Drawdown (ft)	Available Drawdown (ft)
42M 101408 00	53,979.12	152.00	92.00	1.78	58.22
42M 74579 00	85,335.47	135.00	80.00	1.57	53.43
42M 101401 00	8,059.23	131.00	100.00	3.05	27.95
40S 26473 00	91,689.67	134.00	82.00	1.54	50.46
40S 30150565	99,231.09	120.00	58.00	1.50	60.50
42M 78202 00	38,623.65	200.00	154.00	1.96	44.04
42M 30068525	72,613.59	60.00	22.00	1.64	36.36
42M 25507 00	28,448.42	66.00	57.00	2.14	6.86
42M 37716 00	31,091.23	81.00	50.00	2.08	28.92
42M 30049987	39,172.57	100.00	45.00	1.95	53.05
42M 99090 00	26,883.75	75.00	30.00	2.17	42.83
42M 30009713	67,225.35	160.00	68.00	1.68	90.32
42M 24286 00	47,618.13	180.00	110.00	1.85	68.15
42M 89103 00	43,871.27	30.00	5.00	1.89	23.11
42M 53342 00	64,480.13	109.00	35.00	1.70	72.30
42M 30008518	46,650.48	100.00	42.00	1.86	56.14
42M 17546 00	46,075.03	57.00	8.00	1.87	47.13
42M 69223 00	60,027.45	70.00	48.00	1.73	20.27
42M 31821 00	68,079.66	40.00	8.00	1.67	30.33
42M 74576 00	65,872.51	132.00	40.00	1.69	90.31
42M 30127074	39,856.96	95.00	90.00	1.94	3.06
42M 50390 00	28,448.42	70.00	60.00	2.14	7.86
40S 16185 00	84,271.98	40.00	20.00	1.57	18.43
42M 1272 00	34,508.90	57.00	35.00	2.02	19.98
42M 30063248	79,721.55	185.00	72.00	1.60	111.40
42M 36672 00	72,965.05	140.00	69.00	1.64	69.36
42M 66158 00	28,508.49	105.00	43.00	2.14	59.86
42M 5213 00	78,231.04	33.00	7.00	1.61	24.39
42M 50237 00	48,849.92	84.00	30.00	1.84	52.16
42M 37565 00	64,771.43	38.00	16.00	1.69	20.31
42M 28413 00	6,553.86	77.00	58.00	3.23	15.77
42M 55523 00	22,081.06	48.00	18.00	2.30	27.70
42M 51916 00	48,046.54	105.00	38.00	1.84	65.16
42M 33847 00	11,062.16	180.00	135.00	2.79	42.21

42M 30025541	21,791.59	95.00	33.00	2.30	59.70
42M 29467 00	58,360.37	47.00	22.00	1.75	23.25
42M 71271 00	26,322.53	120.00	40.00	2.18	77.82
42M 61875 00	26,322.53	80.00	25.00	2.18	52.82
42M 30112705	31,720.93	40.00	30.00	2.07	7.93
42M 86145 00	75,416.47	60.00	28.00	1.62	30.38
42M 30044998	97,692.88	75.00	31.00	1.51	42.49
42M 37564 00	61,127.72	91.00	14.00	1.72	75.28
42M 5214 00	78,231.04	55.00	10.00	1.61	43.39
42M 30116349	94,698.71	70.00	9.10	1.52	59.38
42M 73798 00	57,045.77	50.00	15.00	1.76	33.24
42M 30010531	60,647.98	40.00	10.00	1.73	28.27
42M 30025852	51,930.72	198.00	128.00	1.80	68.20
42M 28783 00	94,956.78	40.00	18.00	1.52	20.48
42M 30157916	20,325.38	137.00	63.00	2.35	71.65
42M 30067255	81,986.99	78.00	28.00	1.59	48.41
42M 30148172	46,515.65	160.00	30.00	1.86	128.14
42M 33071 00	71,820.14	72.00	36.00	1.65	34.35
42M 37567 00	55,021.54	55.00	16.00	1.77	37.23
42M 30042688	90,902.48	120.00	51.00	1.54	67.46
42M 97728 00	22,433.20	40.00	8.00	2.29	29.71
40S 51810 00	80,859.72	154.00	110.00	1.59	42.41
40S 30051665	96,922.13	63.00	32.00	1.51	29.49
42M 1273 00	35,002.57	162.00	60.00	2.02	99.98
42M 30114439	38,809.22	100.00	45.00	1.96	53.04
42M 50236 00	20,327.34	74.00	48.00	2.35	23.65
42M 23197 00	66,636.60	147.00	18.00	1.68	127.32
42M 30001030	36,856.38	143.00	70.00	1.99	71.01
42M 30009300	81,690.93	140.00	5.00	1.59	133.41
42M 53307 00	60,349.53	40.00	15.00	1.73	23.27
42M 30008523	60,443.76	45.00	12.00	1.73	31.27
42M 30072618	41,552.40	143.00	92.00	1.92	49.08
40S 30065300	99,451.76	190.00	55.00	1.50	133.50
42M 30150475	86,713.62	120.00	60.00	1.56	58.44
42M 61885 00	18,347.02	120.00	75.00	2.42	42.58
42M 88307 00	50,511.79	200.00	85.00	1.82	113.18
42M 79009 00	66,584.89	85.00	20.00	1.68	63.32
42M 59538 00	70,206.89	40.00	19.00	1.66	19.34

42M 30068526	76,861.13	180.00	120.00	1.62	58.38
42M 7353 00	87,774.51	60.00	30.00	1.56	28.44
42M 70214 00	70,018.62	115.00	70.00	1.66	43.34
42M 5918 00	85,162.44	80.00	46.00	1.57	32.43
42M 30048949	6,741.85	150.00	100.00	3.21	46.79
42M 66207 00	17,042.99	130.00	72.00	2.47	55.53
40S 20354 00	100,538.95	34.00	25.00	1.50	7.50
42M 81282 00	28,448.42	83.00	68.00	2.14	12.86
42M 15595 00	34,037.80	83.00	34.00	2.03	46.97
42M 77172 00	59,587.33	120.00	50.00	1.74	68.26
42M 50299 00	66,439.70	157.00	50.00	1.68	105.32
42M 30069037	8,051.12	123.00	85.00	3.05	34.95
42M 30051628	26,536.08	75.00	22.00	2.18	50.82
42M 30065524	46,762.80	160.00	80.00	1.86	78.14
42M 37562 00	60,047.43	89.00	16.00	1.73	71.27
42M 5375 00	43,464.64	40.00	24.00	1.90	14.10
42M 109559 00	23,809.65	120.00	50.00	2.25	67.75
40S 30044186	89,346.95	120.00	40.00	1.55	78.45
42M 86219 00	76,362.62	80.00	10.00	1.62	68.38
42M 104493 00	25,358.52	145.00	87.00	2.21	55.79
42M 28742 00	66,628.08	60.00	30.00	1.68	28.32
42M 25513 00	36,958.78	140.00	135.00	1.99	3.01
40S 16412 00	89,148.57	157.00	137.00	1.55	18.45
42M 33061 00	22,536.47	34.00	11.00	2.28	20.72
42M 101495 00	83,978.71	40.00	16.00	1.58	22.42
42M 108389 00	60,815.73	40.00	8.00	1.73	30.27
42M 30121938	35,892.75	160.00	57.00	2.00	101.00
42M 30004133	72,965.05	140.00	69.00	1.64	69.36
42M 4400 00	1,865.70	162.00	130.00	4.61	27.39
42M 40743 00	49,064.65	79.00	53.00	1.83	24.17
42M 69261 00	63,695.55	100.00	51.00	1.70	47.30
42M 30127431	23,288.39	14.00	10.00	2.26	1.74
42M 30071720	79,041.38	143.00	85.00	1.60	56.40
42M 30070220	30,980.75	40.00	22.00	2.09	15.91
42M 66193 00	30,237.68	56.00	40.00	2.10	13.90
42M 64075 00	16,715.99	145.00	50.00	2.48	92.52
42M 30018145	7,569.32	140.00	65.00	3.11	71.89
42M 30008736	98,488.92	75.00	30.00	1.51	43.49

42M 10962 00	81,433.97	103.00	55.00	1.59	46.41
42M 66302 00	62,476.25	133.00	80.00	1.71	51.29
42M 16328 00	75,227.52	30.00	22.00	1.62	6.38
42M 25505 00	28,448.42	66.00	57.00	2.14	6.86
42M 2628 00	56,239.31	150.00	95.00	1.76	53.24
42M 57339 00	9,094.80	130.00	80.00	2.95	47.05
42M 30067686	6,372.74	170.00	122.00	3.26	44.74
42M 30070201	26,584.42	100.00	13.50	2.18	84.32
42M 30104125	66,134.03	60.00	16.00	1.68	42.32
42M 17234 00	24,263.19	200.00	165.00	2.24	32.76
42M 32130 00	64,663.92	75.00	31.00	1.70	42.30
42M 30125435	36,729.92	121.00	40.00	1.99	79.01
42M 66277 00	50,966.84	120.00	30.00	1.81	88.19
42M 80550 00	58,360.37	75.00	26.00	1.75	47.25
42M 73761 00	58,447.46	145.00	60.00	1.74	83.26
42M 30063412	59,041.56	120.00	21.00	1.74	97.26
42M 48435 00	96,008.58	36.00	20.00	1.52	14.48
42M 101080 00	68,724.27	100.00	10.00	1.67	88.33
42M 30050448	26,536.08	68.00	25.00	2.18	40.82
42M 2627 00	51,023.99	100.00	55.00	1.81	43.19
42M 4222 00	49,376.38	95.00	65.00	1.83	28.17
42M 104499 00	57,334.25	54.00	10.00	1.75	42.25
42M 99053 00	45,444.35	67.00	15.00	1.87	50.13
42M 30105766	35,906.48	110.00	37.00	2.00	71.00
42M 96324 00	74,562.34	60.00	25.00	1.63	33.37
42M 30951 00	18,384.86	113.00	90.00	2.42	20.58
42M 30028900	23,668.56	114.00	80.00	2.25	31.75
42M 89085 00	58,991.55	95.00	42.00	1.74	51.26
42M 77543 00	61,734.16	90.00	13.00	1.72	75.28
42M 61838 00	10,097.57	140.00	80.00	2.86	57.14
42M 16327 00	75,227.52	30.00	22.00	1.62	6.38
42M 53227 00	9,490.99	140.00	82.00	2.91	55.09
42M 53315 00	73,695.74	180.00	100.00	1.63	78.37
42M 30044138	80,308.00	33.00	18.00	1.60	13.40
42M 38652 00	75,130.28	60.00	4.00	1.63	54.37
42M 33542 00	35,716.39	131.00	45.00	2.00	84.00
42M 17233 00	24,088.14	190.00	175.00	2.24	12.76
42M 30012285	23,288.39	21.00	16.00	2.26	2.74

42M 30127489	22,694.79	21.00	16.00	2.28	2.72
42M 69259 00	51,528.57	60.00	38.00	1.81	20.19
42M 30012288	23,288.39	32.00	18.00	2.26	11.74
42M 15290 00	81,233.50	50.00	27.00	1.59	21.41
42M 71217 00	6,466.23	100.00	48.00	3.25	48.75
42M 30014275	62,253.25	137.00	75.00	1.71	60.29
40S 2400 00	100,076.69	45.00	5.00	1.50	38.50
42M 9356 00	12,007.52	157.00	85.00	2.73	69.27
42M 46342 00	38,613.06	30.00	13.00	1.96	15.04
42M 71759 00	72,154.53	92.00	40.00	1.64	50.36
42M 59500 00	37,146.04	100.00	40.00	1.98	58.02
42M 50239 00	38,899.81	120.00	65.00	1.96	53.04
42M 46346 00	39,176.37	120.00	60.00	1.95	58.05
42M 43669 00	11,768.80	75.00	27.00	2.74	45.26
42M 41512 00	44,045.18	115.00	40.00	1.89	73.11
42M 30154616	11,146.65	122.00	80.00	2.78	39.22
42M 10065 00	66,994.12	50.00	30.00	1.68	18.32
40S 30163038	85,849.01	30.00	12.00	1.57	16.43
42M 10331 00	53,979.12	165.00	80.00	1.78	83.22
42M 8583 00	96,533.84	51.00	20.00	1.51	29.49
42M 39412 00	49,376.38	95.00	65.00	1.83	28.17
42M 30012283	23,288.39	14.00	10.00	2.26	1.74
42M 30107054	49,682.40	200.00	70.00	1.83	128.17
42M 30024396	66,618.33	196.00	72.00	1.68	122.32
42M 30044883	76,276.49	100.00	55.00	1.62	43.38
42M 8429 00	72,965.05	60.00	28.00	1.64	30.36
42M 30030094	36,186.79	85.00	50.00	2.00	33.00
42M 88280 00	52,161.55	120.00	35.00	1.80	83.20
42M 114729 00	14,412.21	50.00	10.00	2.59	37.41
42M 30127430	23,288.39	32.00	18.00	2.26	11.74
42M 30070638	32,008.80	60.00	25.00	2.07	32.93
42M 30127433	33,710.99	90.00	70.00	2.04	17.96
42M 30153810	32,037.68	60.00	10.00	2.07	47.93
42M 30113468	27,430.10	53.00	12.00	2.16	38.84
42M 30065050	62,552.41	140.00	95.00	1.71	43.29
42M 20945 00	36,489.08	175.00	135.00	1.99	38.01
42M 59556 00	26,328.24	200.00	62.00	2.18	135.82
42M 30011518	10,568.80	90.00	21.00	2.83	66.17

42M 37566 00	55,337.99	123.00	60.00	1.77	61.23
42M 30063224	27,254.27	70.00	14.00	2.16	53.84
42M 37563 00	59,187.14	55.00	16.00	1.74	37.26
42M 74589 00	74,777.49	83.00	50.00	1.63	31.37
42M 74592 00	66,060.89	195.00	75.00	1.69	118.31
42M 30070138	45,159.65	65.00	45.00	1.88	18.12
42M 20495 00	58,680.91	30.00	10.00	1.74	18.26
42M 30042595	87,560.66	77.00	33.00	1.56	42.44
42M 30045477	35,377.40	159.00	100.00	2.01	56.99
42M 71712 00	27,858.40	137.00	85.00	2.15	49.85
42M 23573 00	47,073.67	40.00	20.00	1.85	18.15
42M 30049532	59,149.20	120.00	40.00	1.74	78.26
42M 34650 00	9,490.99	130.00	97.00	2.91	30.09
42M 30027937	5,783.51	133.00	105.00	3.35	24.65
42M 16326 00	75,227.52	30.00	10.00	1.62	18.38
42M 15825 00	83,978.71	60.00	40.00	1.58	18.42
42M 28072 00	8,432.48	137.00	85.00	3.01	48.99
40S 59539 00	90,051.70	80.00	60.00	1.54	18.46
42M 36516 00	45,260.46	44.00	28.00	1.88	14.12
42M 89844 00	89,975.63	80.00	38.00	1.54	40.46
42M 25510 00	28,945.28	175.00	170.00	2.13	2.87
42M 94647 00	68,657.79	180.00	107.00	1.67	71.33
42M 30125433	38,758.39	60.00	30.00	1.96	28.04
40S 71694 00	89,879.49	110.00	73.00	1.55	35.45
42M 66273 00	17,101.41	180.00	53.00	2.47	124.53
42M 30148602	17,821.82	135.00	40.00	2.44	92.56
42M 4824 00	7,569.32	135.00	72.00	3.11	59.89
42M 15197 00	28,643.45	110.00	60.00	2.13	47.87
42M 5087 00	11,420.88	166.00	50.00	2.76	113.24
40S 30042696	95,283.24	143.00	100.00	1.52	41.48
42M 21564 00	27,817.60	135.00	44.00	2.15	88.85
42M 30051731	11,805.46	123.00	80.00	2.74	40.26
42M 91923 00	62,766.36	140.00	40.00	1.71	98.29
42M 19396 00	44,897.77	60.00	20.00	1.88	38.12
40S 106939 00	91,689.67	134.00	82.00	1.54	50.46
42M 12961 00	7,107.93	110.00	63.00	3.16	43.84
42M 30012282	33,710.99	90.00	70.00	2.04	17.96
42M 64108 00	70,601.06	31.00	19.00	1.65	10.35

42M 76536 00	49,643.55	130.00	50.00	1.83	78.17
42M 53224 00	85,498.82	155.00	80.00	1.57	73.43
42M 27577 00	55,689.51	20.00	7.00	1.77	11.23
42M 64073 00	15,395.64	135.00	3.00	2.54	129.46
42M 103694 00	46,815.41	40.00	19.00	1.86	19.14
42M 33861 00	98,959.64	173.00	120.00	1.50	51.50
42M 66281 00	16,396.45	138.00	78.00	2.50	57.50
42M 30125401	41,248.45	117.00	75.00	1.92	40.08
42M 30012287	22,694.79	21.00	16.00	2.28	2.72
42M 102776 00	52,161.55	200.00	70.00	1.80	128.20
40S 69258 00	91,354.34	90.00	36.00	1.54	52.46
42M 71709 00	18,042.81	110.00	52.00	2.43	55.57
42M 6080 00	79,379.20	135.00	72.00	1.60	61.40
42M 89863 00	73,361.58	100.00	84.00	1.64	14.36
42M 29454 00	54,773.26	29.00	14.00	1.78	13.22
42M 30151175	47,406.81	140.00	54.00	1.85	84.15
42M 30042536	81,106.49	63.00	27.00	1.59	34.41
42M 30021930	68,470.54	60.00	14.00	1.67	44.33
42M 30127052	36,433.77	75.00	70.00	1.99	3.01
42M 20697 00*	1,689.4	135.00	135.00	4.91	37.09

*Added to adverse effect after the public comment period. Well data was supplied to the Department by the water right owner.

Appendix C: Water Rights That Could Potentially Experience Drawdown Greater than or Equal to 1.0 Foot Dependent on the Source Aquifer

Table 12: Water Rights Completed in the Source Aquifer that could Experience Drawdown greater than 1.0 Foot Dependent on Source Aquifer		
A	B	C
Water Right No.	**Distance (ft)**	**Potential Drawdown (ft)**
42M 16325 00	AUDREY A HILL	1.6
42M 101494 00	DCLW CORP	1.58
42M 46152 00	JON KLEINKE; COREY WIELAND	2.16
42M 101491 00	DCLW CORP	1.57
42M 46783 00	SIMONSEN, KENNETH FAMILY REVOCABLE LIVING TRUST	1.61
42M 40726 00	SUNNY SLOPE RANCH INC	1.67
42M 163751 00	MARTHEA A JOHNSON	2.35
42M 3125 00	VICKIE BARBOT; LARRY POFF	2.2
42M 30045479	PHILIP JOHNSON; ROBYN JOHNSON	2.02
42M 49059 00	SUNNY SLOPE RANCH INC	1.63
42M 30127040	BRIEN PANASUK; TOBY A PANASUK	1.94
42M 46632 00	SUNNY SLOPE RANCH INC	1.65
42M 109891 00	DEBRA ENGESSER; DONALD ENGESSER	1.6
42M 50238 00	FOUR J RANCH INC	1.91
42M 46345 00	FOUR J RANCH INC	1.92
42M 30066243	JIM BOUSQUET	1.99
42M 30159143	JEFFREY L MCKINNEY; MEREDITH B MCKINNEY	2.75
42M 30013683	AMANDA GARCIA; JOHN GARCIA	3.3
42M 49245 00	MICHAEL T ANVIK	3
42M 49243 00	MICHAEL T ANVIK	3
42M 30067714	TOBY J DAHL	2.95
42M 17877 00	L-C ANVIK INC	2.92
42M 41546 00	BRADLEY M ANVIK	2.91
42M 30046184	CARTER HASSELSTROM; LORI HASSELSTROM	2.86
42M 66183 00	COLE DUNAGAN; TEAGAN J DUNAGAN	2.84
42M 96378 00	DEEDRA ERICKSON; SHANDON W ERICKSON	2.81
42M 49242 00	MICHAEL T ANVIK	2.74
42M 96379 00	DEEDRA ERICKSON; SHANDON W ERICKSON	2.7
42M 30104548	JUSTIN M DEMARY; MAX B DEMARY; MORGAN M DEMARY; RONALD DEMARY	2.67
42M 30114746	BRETT R BENNION; DANIELA J BENNION	2.62
42M 29985 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	2.57
42M 32121 00	CATHERINE M NORGAARD; DARYL NORGAARD	2.49
42M 32123 00	CATHERINE M NORGAARD; DARYL NORGAARD	2.49
42M 31478 00	GAIL STAFFANSON; SCOTT STAFFANSON	2.49

42M 40741 00	D M C NEVINS TRUST	2.41
42M 25514 00	GARTNER DENOWH ANGUS RANCH	2.32
42M 25506 00	GARTNER DENOWH ANGUS RANCH	2.32
42M 25509 00	GARTNER DENOWH ANGUS RANCH	2.32
42M 30154443	LINDSAY SMITH; RYAN SMITH	2.31
42M 30133615	BRENDA LARSON; TIM D LARSON	2.3
42M 30133616	BRENDA LARSON; TIM D LARSON	2.29
42M 33062 00	MERLYN D LARSON; ROSEMARY LARSON	2.28
42M 16419 00	MERLYN D LARSON; ROSEMARY LARSON	2.28
42M 16418 00	MERLYN D LARSON; ROSEMARY LARSON	2.28
42M 35219 00	CHRIS C LARSON; MICHELLE R LARSON	2.27
42M 30133612	BRENDA LARSON; TIM D LARSON	2.23
42M 30070190	STEINBEISSER, JOE G & SONS	2.21
42M 29967 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	2.2
42M 30040 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	2.2
42M 43300 00	GARTNER, COLIN & SUSAN FAMILY TRUST	2.16
42M 43302 00	GARTNER, COLIN & SUSAN FAMILY TRUST	2.16
42M 43301 00	GARTNER, COLIN & SUSAN FAMILY TRUST	2.16
42M 30113471	MELISSA BUCKLEY; REBECCA BUCKLEY; WILLIAM BUCKLEY; JUDITH J LASSEY; RODNEY LASSEY; RHONDA LAWHEAD	2.16
42M 104446 00	KENNETH D SCHWAB	2.14
42M 16921 00	THOMAS H MARTINI	2.13
42M 25516 00	GARTNER DENOWH ANGUS RANCH	2.13
42M 10833 00	CHARLES F NEVINS; MATTHEW J NEVINS	2.12
42M 30113472	MELISSA BUCKLEY; REBECCA BUCKLEY; WILLIAM BUCKLEY; JUDITH J LASSEY; RODNEY LASSEY; RHONDA LAWHEAD	2.11
42M 32938 00	DONALD L FELICIANO	2.05
42M 101431 00	DYNNESON LAND LLC	2.05
42M 101446 00	DYNNESON LAND LLC	2.05
42M 101432 00	DYNNESON LAND LLC	2.03
42M 35022 00	GREGORY W WYMAN; PEGGY WYMAN	2.03
42M 107267 00	MONTANA, STATE OF UNIVERSITY SYSTEM (MSU)	2
42M 94614 00	DELON MURSCHEL; THERESA MURSCHEL	2
42M 107265 00	MONTANA, STATE OF UNIVERSITY SYSTEM (MSU)	2
42M 30164339	DAW LLC	1.99
42M 162480 00	CHARLES F NEVINS; MATTHEW J NEVINS	1.98
42M 30125440	BRIEN PANASUK; TOBY A PANASUK	1.94
42M 163553 00	DALE L EDAM; LADEAN EDAM	1.93
42M 30125434	BRIEN PANASUK; TOBY A PANASUK	1.93
42M 46349 00	FOUR J RANCH INC	1.93

42M 30125441	BRIEN PANASUK; TOBY A PANASUK	1.92
42M 122068 00	PREWITT TRUST	1.92
42M 30125439	BRIEN PANASUK; TOBY A PANASUK	1.91
42M 163534 00	RICKY L WYMAN	1.9
42M 28958 00	PREVOST RANCH INC	1.9
42M 164447 00	DAVID R MCMILLEN; MARGARET P MCMILLEN	1.89
42M 164454 00	DAVID R MCMILLEN; MARGARET P MCMILLEN	1.89
42M 101433 00	DYNNESON RANCH INC	1.89
42M 16339 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.89
42M 101425 00	DYNNESON RANCH INC	1.89
42M 101444 00	DYNNESON RANCH INC	1.89
42M 101445 00	DYNNESON RANCH INC	1.89
42M 101443 00	DYNNESON RANCH INC	1.89
42M 101442 00	DYNNESON RANCH INC	1.89
42M 101421 00	DYNNESON RANCH INC	1.89
42M 162483 00	DAVID S HILL; JULIE E HILL	1.87
42M 162481 00	DAVID S HILL; JULIE E HILL	1.87
42M 164442 00	DAVID R MCMILLEN; MARGARET P MCMILLEN	1.87
42M 30065097	DAVID S HILL; JULIE E HILL	1.87
42M 30133643	DUANE A ANDERSON; LINDA J ANDERSON	1.87
42M 30133642	DUANE A ANDERSON; LINDA J ANDERSON	1.87
42M 164488 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.86
42M 164496 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.86
42M 164489 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.86
42M 164490 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.86
42M 30104446	MERLYN D LARSON; ROSEMARY LARSON	1.86
42M 30066653	JOHN A SWELEY	1.85
42M 46343 00	FOUR J RANCH INC	1.84
42M 164495 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.84
42M 40742 00	D M C NEVINS TRUST	1.83
42M 164494 00	GREGORY T LYTLE; HOWARD J SISSEL; LAVONNE J SISSEL	1.83
42M 47662 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.82
42M 101420 00	DYNNESON RANCH INC	1.82
42M 101407 00	ALBIN FARMS	1.81
42M 101447 00	CHAD ALBIN	1.79
42M 101448 00	CHAD ALBIN	1.79
42M 30123247	DAVID R MCMILLEN	1.78
42M 34766 00	PREVOST RANCH INC	1.78

42M 37482 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.78
42M 80484 00	PEGGY KOPP; RON KOPP; DAVID R MCMILLEN	1.78
42M 122100 00	ALMOND FARMS LLC	1.77
42M 122099 00	ALMOND FARMS LLC	1.77
42M 37558 00	FRANZ RANCH LAND TRUST	1.77
42M 37557 00	FRANZ RANCH LAND TRUST	1.77
42M 162640 00	FRANZ RANCH LAND TRUST	1.77
42M 122092 00	DYNNESON LAND LLC	1.77
42M 46344 00	FOUR J RANCH INC	1.76
42M 163567 00	ALMOND FARMS LLC	1.76
42M 101441 00	DYNNESON RANCH INC	1.76
42M 80485 00	PEGGY KOPP; RON KOPP; DAVID R MCMILLEN	1.75
42M 17287 00	ELAINE L HILL; WILBUR W HILL	1.75
42M 16345 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 16346 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 3128 00	KATHY W THORNTON; RUSSELL D THORNTON	1.74
42M 16344 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 16343 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 16341 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 16340 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 16342 00	THIESSEN, DWIGHT & DIANA FAMILY TRUST	1.74
42M 165723 00	STONEY BUTTE FARMS INC	1.72
42M 101395 00	3 BUTTES COMMUNITY CENTER INC	1.7
42M 163262 00	RUSSELL D SHARBONO	1.7
42M 30022439	MARLIN J BEYER	1.7
42M 30005633	ERIC J MCPHERSON; KERI L MCPHERSON	1.69
42M 106953 00	KENNETH KILEN; MARLON J KILEN; PAMELA K KILEN	1.69
42M 32944 00	JILL THIESSEN; RUSSELL D THIESSEN; THIESSEN FAMILY TRUST	1.69
42M 163423 00	KOPP FARMS INC	1.69
42M 36813 00	PREVOST RANCH INC	1.69
42M 36810 00	PREVOST RANCH INC	1.69
42M 36812 00	PREVOST RANCH INC	1.69
42M 165214 00	KOPP FARMS INC	1.67
42M 165213 00	KOPP FARMS INC	1.67
42M 165216 00	KOPP FARMS INC	1.67
42M 165215 00	KOPP FARMS INC	1.67
42M 169018 00	SUNNY SLOPE RANCH INC	1.65
42M 169017 00	SUNNY SLOPE RANCH INC	1.65

42M 165722 00	STONEY BUTTE FARMS INC	1.64
42M 42920 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.63
42M 30022440	MARLIN J BEYER	1.63
42M 42925 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.63
42M 16428 00	MARY JEANE JOHNSON	1.62
42M 17289 00	TVEIT FARMS INC	1.62
42M 37485 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.62
42M 41328 00	ELAINE L HILL; WILBUR W HILL	1.62
42M 37730 00	ELAINE L HILL; WILBUR W HILL	1.61
42M 30165060	LONE BUTTE PROPERTIES, LLP	1.61
42M 30022438	MARY B LITTLE	1.61
42M 30022437	MARY B LITTLE	1.61
42M 41849 00	HILL, SHARON K LIVING TRUST; HILL, SHARON K MARITAL TRUST	1.6
42M 41848 00	HILL, SHARON K LIVING TRUST; HILL, SHARON K MARITAL TRUST	1.6
42M 30153073	PATRICIA M WICK; STEVEN D WICK	1.6
42M 30133950	PATRICIA M WICK; STEVEN D WICK	1.6
40S 30133897	PATRICIA M WICK; STEVEN D WICK	1.6
40S 30048299	KENNETH ARNESON	1.6
40S 30048298	KENNETH ARNESON	1.6
42M 213240 00	BRONWYN L MEYER; ROGER W MEYER	1.59
40S 111425 00	JULIAN DOMBROWSKI; SUNNY SLOPE RANCH INC	1.59
42M 16323 00	AUDREY A HILL	1.59
42M 142783 00	BNSF RAILWAY CO	1.59
42M 14206 00	BRONWYN L MEYER; ROGER W MEYER	1.59
42M 113726 00	BRIAN D LEWIS	1.58
42M 113725 00	BRIAN D LEWIS	1.58
42M 41498 00	ANN R BARRETT	1.58
40S 30158848	JEFFEREY D JOHNSON; MARY S JOHNSON	1.57
42M 30113801	ANN R BARRETT; JUSTIN BARRETT	1.57
42M 30107974	DARCY MULLIN; DAWN MULLIN; LACEY MULLIN	1.57
40S 166062 00	DOUGLAS J JOHNSON; JEFFEREY D JOHNSON; MARY S JOHNSON	1.57
42M 8796 00	DALE VITT; JILL VITT	1.57
40S 168959 00	DOUGLAS J JOHNSON; JEFFEREY D JOHNSON; MARY S JOHNSON	1.56
42M 41497 00	CHARLES F NEVINS; MATTHEW J NEVINS	1.56
42M 101496 00	DCLW CORP	1.55
42M 11991 00	HILL, SHARON K LIVING TRUST; HILL, SHARON K MARITAL TRUST	1.55

42M 11992 00	HILL, SHARON K LIVING TRUST; HILL, SHARON K MARITAL TRUST	1.55
42M 101492 00	HEART PLUS LLC	1.54
40S 43368 00	DAYTON FOUNDATION	1.54
42M 29987 00	MONTANA STATE BOARD OF LAND COMMISSIONERS	1.52
42M 30068800	DAVID A MULLIN; MERLE A MULLIN	1.52
40S 19655 00	KATHY W THORNTON; RUSSELL D THORNTON	1.52
42M 49196 00	DARLA HILL	1.51
42M 122042 00	DARLA HILL	1.51