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RESPONSE TO 3/2/07
REQUEST e INFO

63-32462 ← FILED in

63-32465

63-32466

63-32467

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April 5, 2007

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APR 05 2007

WATER RESOURCES
WESTERN REGION

Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

**Re: Winter Water Right Applications in the Name of Tree Top Ranches, LP
(Water Rights 63-32462, 63-32465, 63-32466, and 63-32467)**
MTBR&F File No. 22567.0

Dear Steve:

I am writing in response to your correspondence dated March 2, 2007, concerning the above-referenced water rights. Your correspondence seeks "additional information to evaluate the applications for processing." I will respond to each question contained in your letter in the order each question appears therein.

Your first question concerns all four (4) Applications for permit, collectively. Within the quarter quarter sections identified in the Applications, there are approximately 98.5 acres of land to which the water will be applied. The diverted water will be utilized to fill two (2) large existing ponds and several natural and/or existing swales, as well as the temporary flooding of agricultural fields. No additional land excavation or pond construction is anticipated. Attached hereto as **Exhibit 1** is a spreadsheet showing the approximate acreage, depths, and storage volume required. The map attached hereto as **Exhibit 2** depicts the overall place of use of all four (4) Applications; however, due to the existing conveyance system, particular points of diversion many only supply water to certain lands within the overall place of use.

Application 63-32462 – Sand Hollow Creek

The water to be appropriated under this Application is for wildlife use; a recognized beneficial use by the Idaho Department of Water Resources. More specifically, water will be diverted to fill ponds and natural swales and to flood agricultural fields to improve existing wildlife habitat and to create additional wildlife habitat during the non-irrigation season. Twenty (20) cfs is required under this Application for continual flows to prevent water from freezing, thereby deterring the very wildlife this Application is intended to benefit. The place of use under this

Application consists mainly of agricultural fields to be temporarily flooded, as well as the filling of natural swales, for a total of 35.5 acres and a storage capacity of 91.5 acre feet.

Exhibit 3 is a map depicting the point of diversion, the place of use, and the points of return flow under this Application. The point of diversion is located within the Northwest Quarter of the Northwest Quarter of Section 23, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.716 north and 116-54.696 west. The diversion point consists of an existing, established concrete headgate within Sand Hollow Creek to a 36" concrete pipe under Highway 95, to a system of gravity flow, earthen conveyance ditches. The point of diversion has been historically used (since approximately 1919) by Tree Top Ranches, LP, and its predecessors, for diversion of water during the irrigation season. Photographs of the diversion structure are attached hereto as **Exhibit 4**.

The return flows into the Parma Canal occur in two (2) locations as depicted in **Exhibit 3**. The discharge point to the north is located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.786 north and 116-55.542 west. The northerly discharge point conveys water into the Parma Canal via an existing 36" corrugated metal pipe. The discharge point to the south is also located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.616 north and 116-55.532 west. The southerly discharge point conveys water into the Parma Canal via an existing 18" PVC pipe. The Parma Canal then discharges into Sand Hollow Creek within Section 16, Township 5 North, Range 5 West, Canyon County, Idaho (significantly upstream from J.F. Watson Farms Co.'s diversion from Sand Hollow Creek under Application for Permit No. 63-32461).

Pursuant to the United States Geological Survey Monthly Streamflow Statistics in Idaho, mean monthly streamflows of the Sand Hollow Creek during the non-irrigation season range from 55 cfs to 78 cfs. This information can be found at **Exhibit 5** hereto. Therefore, diversion of 20 cfs under this Application will not dewater Sand Hollow Creek at the point of diversion identified herein.

An example of the comment letter to be sent to the appropriate persons/entities is attached hereto as **Exhibit 6**.

Application 63-32465 – Boise River and Sand Hollow Creek

Again, the water to be appropriated under this Application is for wildlife use. More specifically, water will be diverted to fill ponds and natural swales and to flood agricultural fields, to improve existing wildlife habitat and to create additional wildlife habitat during the non-irrigation season. A combined total of forty (40) cfs from the two (2) points of diversion is

required for continual flows to prevent water from freezing, thereby deterring the wildlife which this Application is intended to benefit. The place of use under this Application¹ consists mainly of agricultural fields to be temporarily flooded, as well as the filling of natural swales, for a total of 74.5 acres and a storage capacity of 181.5 acre feet.

Exhibit 7 is a map depicting the points of diversion, the place of use, and the points of return flow under this application. The Boise River point of diversion is located within the Southeast Quarter of the Southeast Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-44.986 north and 116-54.897 west. This diversion point consists of a 100 horsepower pump located in the River to a system of gravity flow, earthen conveyance ditches. The Sand Hollow Creek point of diversion is located within the Northwest Quarter of the Northeast Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.358 north and 116-54.683 west. This diversion point also consists of a 100 horsepower pump located in the Creek to a system of earthen conveyance ditches.

There are multiple return flows proposed under this Application. First, there are two (2) points of return flow into the Parma Canal as depicted in **Exhibit 7**. The discharge point to the north is located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.786 north and 116-55.542 west. The northerly discharge point conveys water into the Parma Canal via an existing 36" corrugated metal pipe. The discharge point to the south is also located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.616 north and 116-55.532 west. The southerly discharge point conveys water into the Parma Canal via an existing 18" PVC pipe. The Parma Canal then discharges into Sand Hollow Creek within Section 16, Township 5 North, Range 5 West, Canyon County, Idaho (significantly upstream from J.F. Watson Farms Co.'s diversion from Sand Hollow Creek under Application for Permit No. 63-32461).

There are also two (2) point of return flow into the Boise River. The discharge point to the north is located within the Southeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.558 north and 116-55.532 west. The northerly Boise River discharge point conveys water into the River via a headgate to a 30" corrugated metal pipe. The southerly discharge point is located in the Southeast Quarter of the Southwest Quarter, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-44.938 north and 116-55.419 west. The southerly

¹ The place of use under this Application includes the place of use under Application 63-32462.

discharge point conveys water into the River via a headgate to a 12" PVC pipe. These points of return flow are depicted on **Exhibit 7**.

Pursuant to the United States Geological Survey Monthly Streamflow Statistics in Idaho, mean monthly streamflows of the Boise River during the non-irrigation season range from 865 cfs to 1,790 cfs. Additionally, the mean monthly streamflows of the Sand Hollow Creek during the non-irrigation season range from 55 cfs to 78 cfs. This information can be found at **Exhibit 8** hereto. Therefore, diversion of a collective 40 cfs from these two (2) points of diversion under this Application will not dewater either of the Boise River or the Sand Hollow Creek at the points of diversion identified herein.

An example of the comment letter to be sent to the appropriate persons/entities is attached hereto as **Exhibit 6**.

Application 63-32466 – Sand Hollow Creek

Again, the water to be appropriated under this Application is for wildlife use. More specifically, water will be diverted to fill ponds and natural swales and to flood agricultural fields, to improve existing wildlife habitat and to create additional wildlife habitat during the non-irrigation season. Twenty (20) cfs is required for continual flows to prevent water from freezing, thereby deterring the wildlife which this Application is intended to benefit. The place of use under this Application consists of a total of 81.5 acres and a storage capacity of 256.5 acre feet.

Exhibit 9 is a map depicting the point of diversion, the place of use, and the points of return flow under this application. The point of diversion is located within the Southwest Quarter of the Northeast Quarter of Section 23, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.398 north and 116-54.112 west. The point of diversion consists of an existing, established concrete headgate within Sand Hollow Creek to a system of gravity flow, earthen conveyance ditches. The diversion point has been historically used (since approximately 1919) by Tree Top Ranches, LP, and its predecessors, for diversion of water during the irrigation season.

There are multiple return flows proposed under this Application. First, there are two (2) points of return flow into the Parma Canal as depicted in **Exhibit 9**. The discharge point to the north is located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.786 north and 116-55.542 west. The northerly discharge point conveys water into the Parma Canal via an existing 36" corrugated metal pipe. The discharge point to the south is also located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.616 north and 116-55.532 west. The

southerly discharge point conveys water into the Parma Canal via an existing 18" plastic PVC pipe. The Parma Canal then discharges into Sand Hollow Creek within Section 16, Township 5 North, Range 5 West, Canyon County, Idaho (significantly upstream from J.F. Watson Farms Co.'s diversion from Sand Hollow Creek under Application for Permit No. 63-32461). The return flow discharge into the Boise River is located within the Southeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, as depicted on **Exhibit 9**, and its GPS coordinates are 43-45.558 north and 116-55.532 west. The Boise River discharge point conveys water into the River via a headgate to a 30" corrugated metal pipe.

Pursuant to the United States Geological Survey Monthly Streamflow Statistics in Idaho, mean monthly streamflows of the Sand Hollow Creek during the non-irrigation season range from 55 cfs to 78 cfs. This information can be found at **Exhibit 10** hereto. Therefore, diversion of 20 cfs from the point of diversion under this Application will not dewater the Sand Hollow Creek at the point of diversion identified herein. The by-pass condition in Permit 63-32067 should be implemented to restore a completely dewatered section of Sand Hollow Creek which is unnecessary. Restoring flows in the dewatered section will allow diversion of relatively small amounts of water (approximately 20% of the amount diverted under Permit 63-32067) to supply the open water wildlife habitat sought under the application for permit.

An example of the comment letter to be sent to the appropriate persons/entities is attached hereto as **Exhibit 6**.

Application 63-32467 – Boise River (Andrews Ditch)

Again, the water to be appropriated under this Application is for wildlife use. More specifically, water will be diverted to fill ponds and natural swales and to flood agricultural fields, to improve existing wildlife habitat and to create additional wildlife habitat during the non-irrigation season. Twenty (20) cfs is required for continual flows to prevent water from freezing, thereby deterring the wildlife which this Application is intended to benefit. The place of use under this Application consists mainly of agricultural fields to be temporarily flooded, as well as the filling of natural swales, for a total of 74.5 acres and a storage capacity of 181.5 acre feet.

Exhibit 11 is a map depicting the point of diversion, the place of use, and the points of return flow under this application. The point of diversion is located within the Southwest Quarter of the Southeast Quarter of Section 25, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-44.091 north and 116-52.723 west. The point of diversion consists of an existing, established concrete diversion headgate in the Boise River to a larger gravity flow ditch (Andrews Ditch) to a system of gravity flow, earthen conveyance ditches. The diversion point has been historically used (since approximately 1864) by Tree Top

Ranches, LP, and its predecessors, for diversion of water during the irrigation season. The diversion point is also utilized by Tine Iest for diversion of water during the non-irrigation season under Permit Nos. 63-11617 and 63-32066.

There are multiple return flows proposed under this Application. First, there are two (2) points of return flow into the Parma Canal as depicted in **Exhibit 11**. The discharge point to the north is located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.786 north and 116-55.542 west. The northerly discharge point conveys water into the Parma Canal via an existing 36" corrugated metal pipe. The discharge point to the south is also located within the Northeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.616 north and 116-55.532 west. The southerly discharge point conveys water into the Parma Canal via an existing 18" PVC pipe. The Parma Canal then discharges into Sand Hollow Creek within Section 16, Township 5 North, Range 5 West, Canyon County, Idaho (significantly upstream from J.F. Watson Farms Co.'s diversion from Sand Hollow Creek under Application for Permit No. 63-32461).

There are also two (2) point of return flow into the Boise River. The discharge point to the north is located within the Southeast Quarter of the Northwest Quarter of Section 22, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-45.558 north and 116-55.532 west. The northerly Boise River discharge point conveys water into the River via a headgate to a 30" corrugated metal pipe. The southerly discharge point is located in the Southeast Quarter of the Southwest Quarter, Township 5 North, Range 5 West, Canyon County, Idaho, and its GPS coordinates are 43-44.938 north and 116-55.419 west. The southerly discharge point conveys water into the River via a headgate to a 12" PVC pipe. These points of return flow are depicted on **Exhibit 11**.

Pursuant to the United States Geological Survey Monthly Streamflow Statistics in Idaho, mean monthly streamflows of the Boise River during the non-irrigation season range from 865 cfs to 1,790 cfs. This information can be found at **Exhibit 12** hereto. Therefore, diversion of 20 cfs under this Application will not dewater the Boise River at the points of diversion identified herein.

An example of the comment letter to be sent to the appropriate persons/entities is attached hereto as **Exhibit 6**.

Finally, your last question concerns all four (4) Applications for permit, collectively. The applications overlap to some degree. The intent is to acquire sufficient diversion rates from various sources to provide open water wildlife habitat at the designated places of use for a total retained storage volume of approximately 300 acre feet. In view of the possibility of protests being filed against one or more of these applications, it was deemed prudent to file more than

Steve Lester
April 5, 2007
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one. Finally, in view of the total dewatering of Sand Hollow Creek under Permit No. 63-32067, the feasibility of that application is in doubt unless the Department imposes a by-pass condition. This may not occur.

I hope the above information answers all of your questions. However, if you desire additional information or have any questions, please do not hesitate to contact me.

Very truly yours,

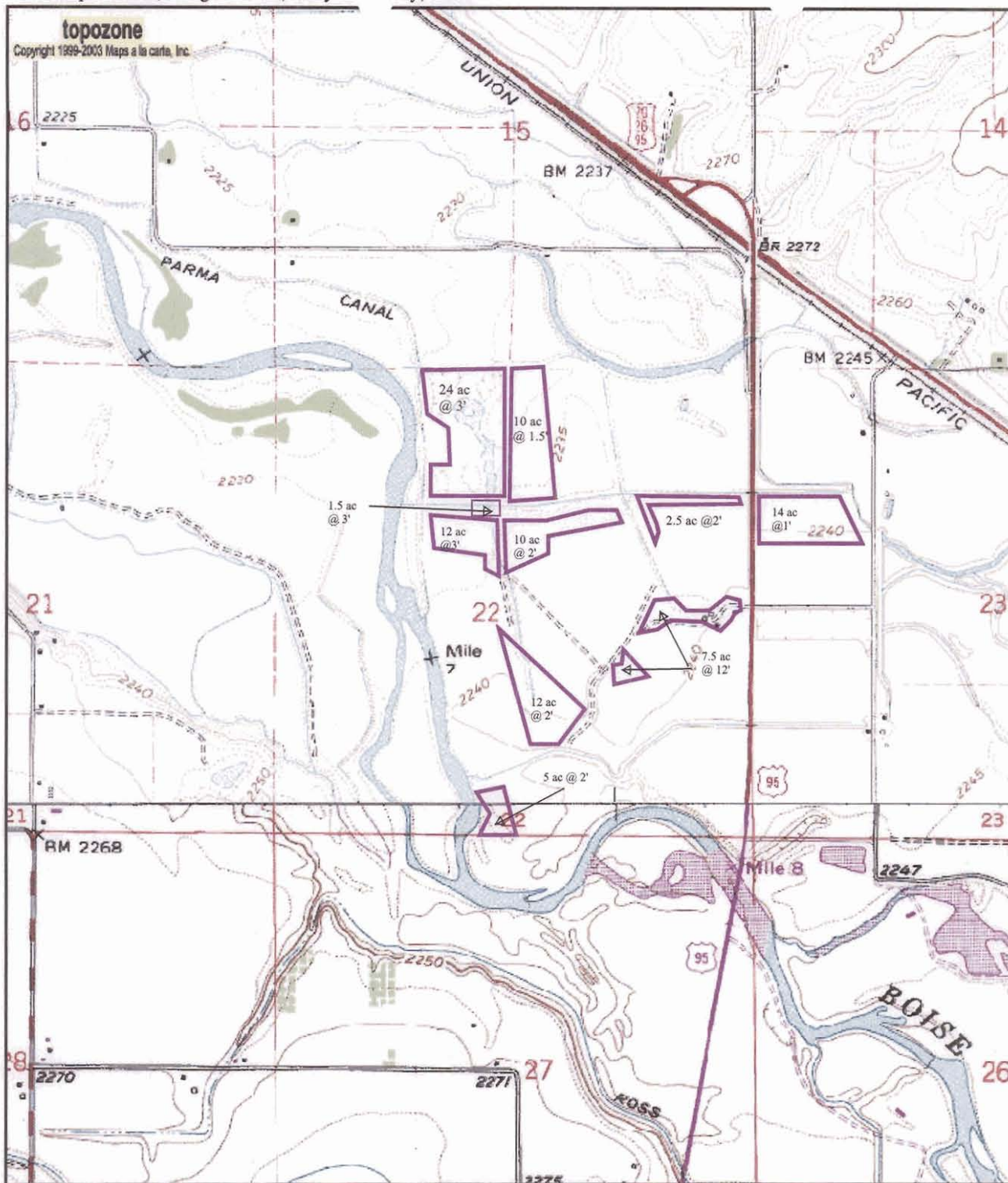


Scott L. Campbell

SLC/tmh
Enclosures
cc: Larry Williams (w/encls.)

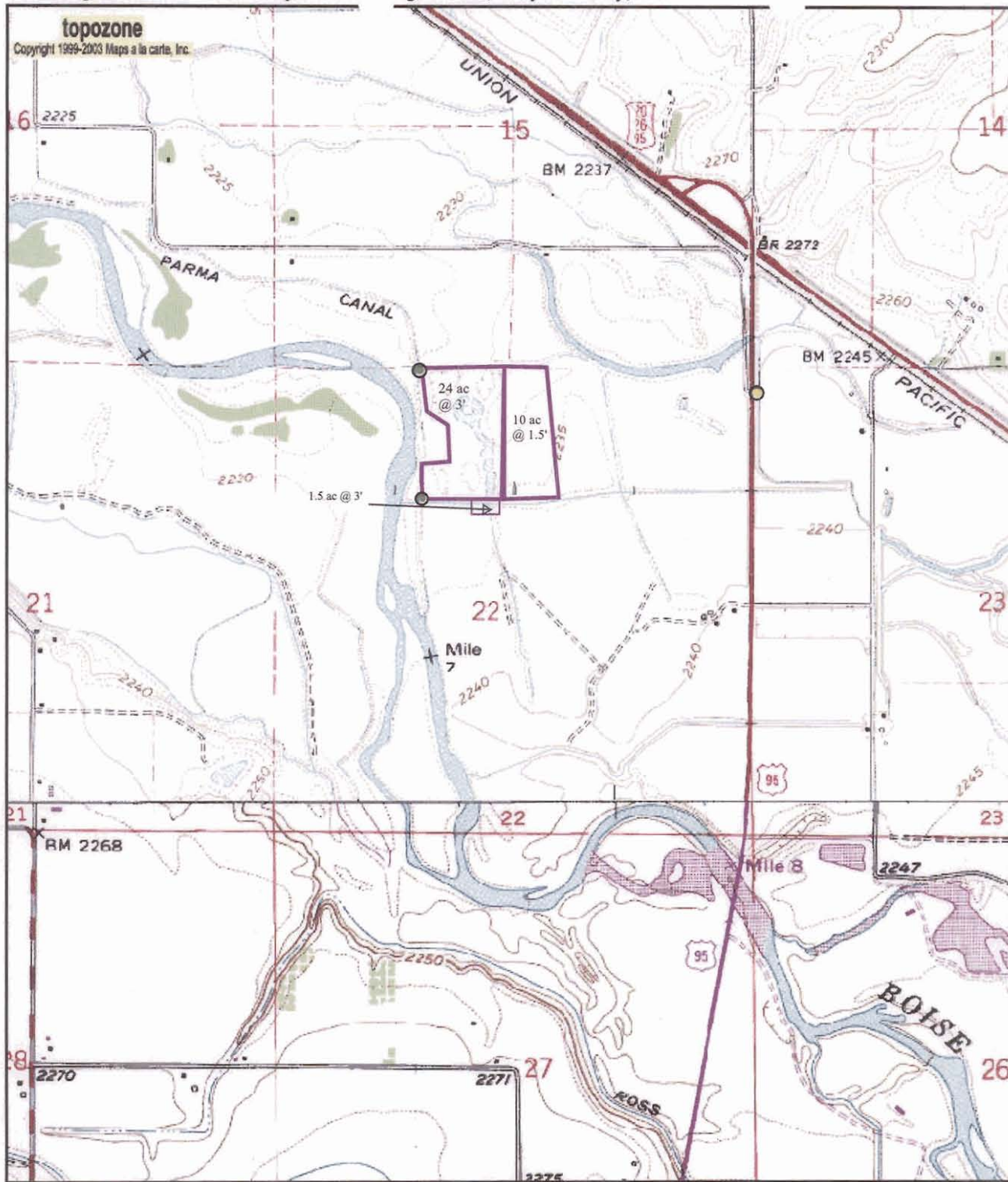
Tree Top Ranches
 Sec. 22, 23 of T.5N, R.5W Canyon Co., Idaho
 Storage Volume Estimates for Applications 63-32462, 63-32465-67

QQSec	Acreage	Avg. Depth (feet)	Stor. Volume (acre-feet)
Section 22			
NWNE	10	1.5	15
SWNE	10	2	20
SENE	2.5	2	5
NENW	24	3	72
SENW	1.5	3	4.5
	12	3	36
NESW	0.5	2	1
SESW	5	2	10
NESE	6.5	12	78
NWSE	7.5	2	15
	1	12	12
SWSE	4	2	8
Section 23			
SENW	14	1	14
TOTAL	98.5 acres		290.5 acre feet



UTM 11 506279E 4844787N (NAD83/WGS84)
 Elevation 2,238.4 ft / 682.2 m (USGS NED)
USGS Parma (ID,OR) Quadrangle
 Projection is UTM Zone 11 NAD83 Datum

* M
 G
 M=15.681
 G=0.054



UTM 11 506279E 4844787N (NAD83/WGS84)

Elevation 2,238.4 ft / 682.2 m (USGS NED)

USGS Parma (ID,OR) Quadrangle

Projection is UTM Zone 11 NAD83 Datum

M=15.681
G=0.054

- Place of Use
- Point of Return Flow
- Point of Diversion

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 8/31/2006

FILE NUMBER 63-4534



The photos above and to the right show the check in Sandhollow Creek and the headgate diverting the water into the ditch.

The water is piped under highway 95 shown below and diverted into a ditch that travels to the fields being irrigated.

There are other rights being diverted out of this ditch. This is the only right that I was told to review at the time of the field exam. The ditch does have the capacity to carry more water, but it was fairly full at the time of the exam. The ditch did carry enough water to supply this right.



USGS Surface-Water Monthly Statistics for Idaho

Water Data Reports, Idaho, Water Years 2002-2005

Water Data Report, Idaho, Water Year 2006

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USGS 13213072 SAND RUN GULCH NR PARMA ID

Available data for this site

Time-series: Monthly statistics

GO

Canyon County, Idaho
Hydrologic Unit Code 17050114
Latitude 43°47'59", Longitude 116°58'29" NAD27

Output formats

[HTML table of all data](#)

[Tab-separated data](#)

[Reselect output format](#)

00060, Discharge, cubic feet per second,												
YEAR	Monthly mean in cfs (Calculation Period: 1979-08-01 -> 1981-09-30)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979								133.0	118.6	93.6	79.3	77.2
1980	74.2	62.3	54.6	69.5	117.6	122.7	122.1	129.7	140.3	94.6	75.8	62.0
1981	59.2	59.0	54.6	78.2	110.7	133.9	130.7	129.7	144.9			
Mean of monthly Discharge	67	61	55	74	114	128	126	131	135	94	78	70.
** No Incomplete Data is used for Statistical Calculation												

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Surface Water data for Idaho: USGS Surface-Water Monthly Statistics

* <http://waterdata.usgs.gov/id/nwis/monthly?>

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April 5, 2007

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[Entity or Person]

Re: Water Right Applications in the Name of Tree Top Ranches, LP
MTBR&F File No. 22567.0

Dear :

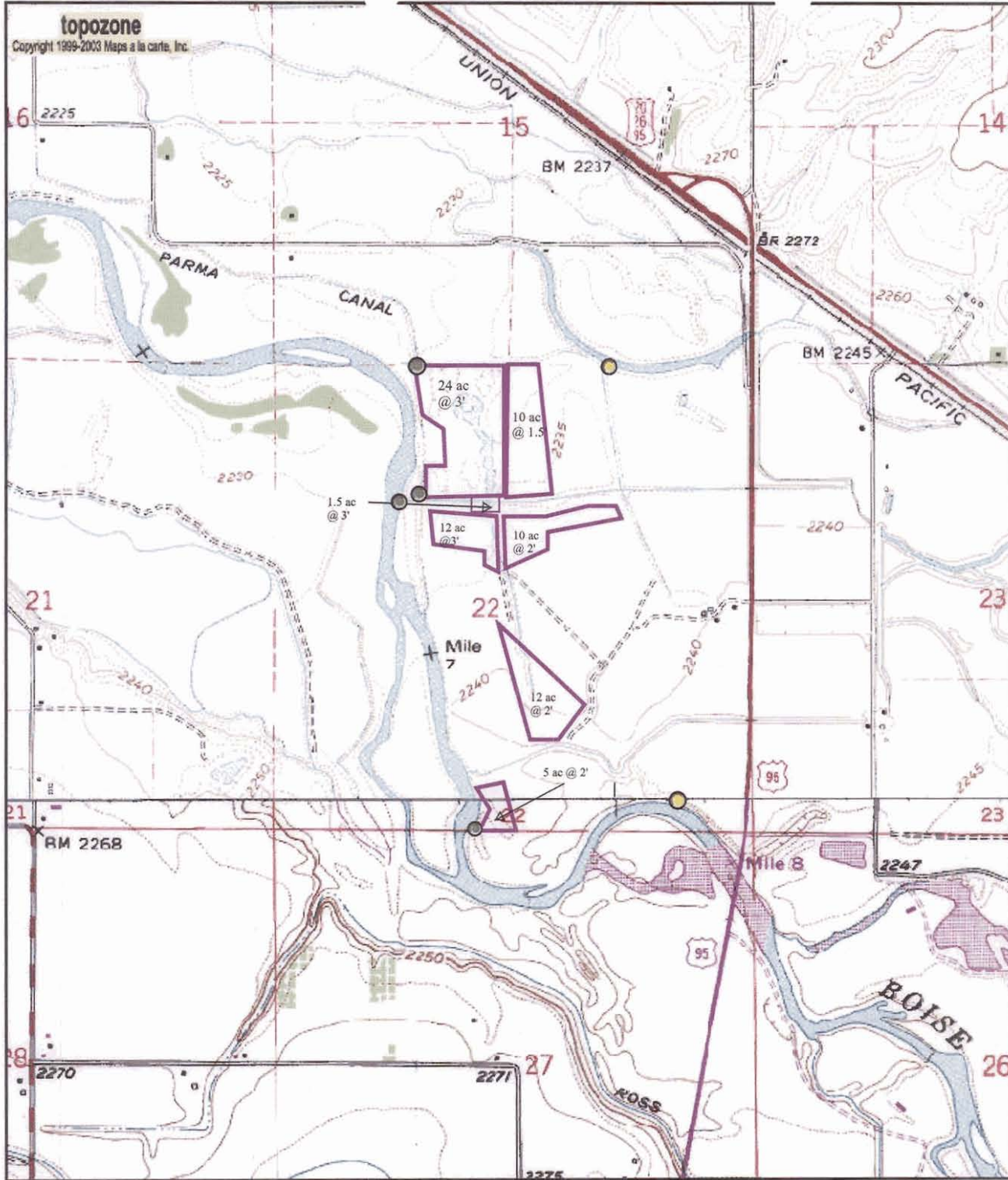
We are providing a copy of applications for water permit for winter wildlife habitat use which are pending before the Idaho Department of Water Resources. The applications are intended to provide open water winter habitat for water fowl, birds, and terrestrial species. The water diversions will not interfere with any existing water rights and the use will be non-consumptive.

The applicant would like to receive your written comments which describe any reactions you may have to the applications. Please send any comments to me within 30 days of today's date. If you would like additional information or have questions, please do not hesitate to contact me.

Very truly yours,

Scott L. Campbell

SLC/tmh
Enclosures



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

UTM 11 506279E 4844787N (NAD83/WGS84)
Elevation 2,238.4 ft / 682.2 m (USGS NED)
USGS Parma (ID,OR) Quadrangle
Projection is UTM Zone 11 NAD83 Datum

* M
G
M=15.681
G=0.054

- Place of Use
- Point of Return Flow
- Point of Diversion

USGS Surface-Water Monthly Statistics for Idaho

Water Data Reports, Idaho, Water Years 2002-2005

Water Data Report, Idaho, Water Year 2006

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USGS 13213000 BOISE RIVER NR PARMA ID

Available data for this site

Time-series: Monthly statistics

GO

Canyon County, Idaho
Hydrologic Unit Code 17050114
Latitude 43°46'54", Longitude 116°58'22" NAD83
Drainage area 3,970 square miles
Contributing drainage area 3,970 square miles
Gage datum 2,196.49 feet above sea level NGVD29

Output formats

[HTML table of all data](#)[Tab-separated data](#)[Reselect output format](#)

00060, Discharge, cubic feet per second,												
YEAR	Monthly mean in cfs (Calculation Period: 2004-01-01 -> 2006-09-30)											
	Period-of-record for statistical calculation restricted by user											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004	889.2	1,229	873.0	645.5	1,042	771.0	781.1	761.2	853.5	898.8	883.8	806.2
2005	761.3	750.0	656.6	452.4	1,025	590.3	573.0	702.6	804.0	774.8	846.4	927.5
2006	1,048	4,121	3,845	5,640	6,773	2,920	889.3	967.9	948.8			
Mean of monthly Discharge	899	2,030	1,790	2,250	2,950	1,430	748	811	869	837	865	867
** No Incomplete Data is used for Statistical Calculation												

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<http://waterdata.usgs.gov/id/nwis/monthly/>

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Water Data Reports, Idaho, Water Years 2002-2005

Water Data Report, Idaho, Water Year 2006

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USGS 13213072 SAND RUN GULCH NR PARMA ID

Available data for this site

Time-series: Monthly statistics

GO

Canyon County, Idaho
Hydrologic Unit Code 17050114
Latitude 43°47'59", Longitude 116°58'29" NAD27

Output formats

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00060, Discharge, cubic feet per second,

Monthly mean in cfs (Calculation Period: 1979-08-01 -> 1981-09-30)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979								133.0	118.6	93.6	79.3	77.2
1980	74.2	62.3	54.6	69.5	117.6	122.7	122.1	129.7	140.3	94.6	75.8	62.0
1981	59.2	59.0	54.6	78.2	110.7	133.9	130.7	129.7	144.9			
Mean of monthly Discharge	67	61	55	74	114	128	126	131	135	94	78	70.

** No Incomplete Data is used for Statistical Calculation

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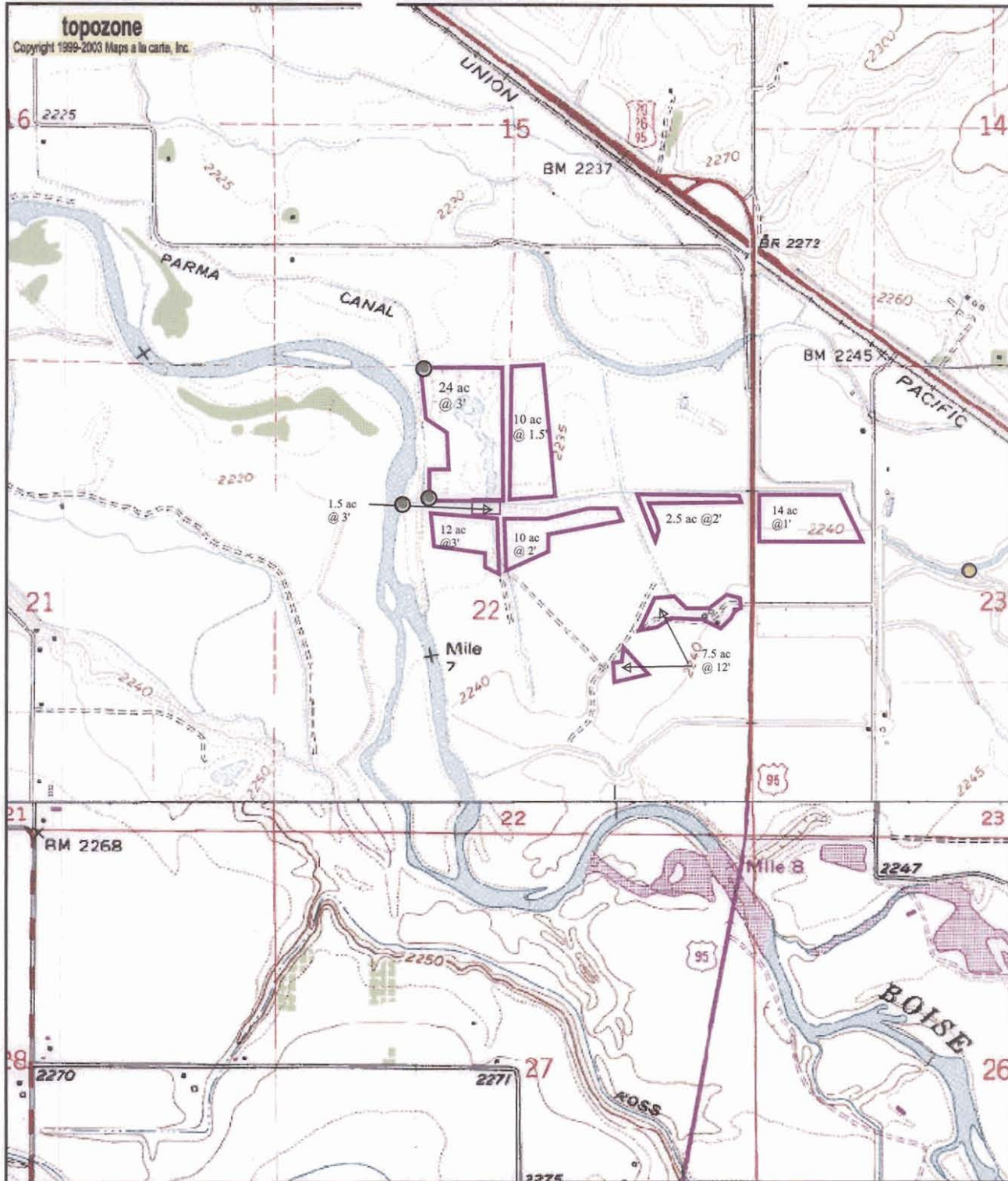
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1.12 1.07 ca02



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

UTM 11 506279E 4844787N (NAD83/WGS84)
Elevation 2,238.4 ft / 682.2 m (USGS NED)
USGS Parma (ID,OR) Quadrangle
Projection is UTM Zone 11 NAD83 Datum

* M
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M=15.681
G=0.054

- Place of Use
- Point of Return Flow
- Point of Diversion

USGS Surface-Water Monthly Statistics for Idaho

Water Data Reports, Idaho, Water Years 2002-2005

Water Data Report, Idaho, Water Year 2006

The statistics generated from this site are based on approved daily-mean data and may not match those published by the USGS in official publications. The user is responsible for assessment and use of statistics from this site. For more details on why the statistics may not match, [click here](#).

USGS 13213072 SAND RUN GULCH NR PARMA ID

Available data for this site

Time-series: Monthly statistics

GO

Canyon County, Idaho
Hydrologic Unit Code 17050114
Latitude 43°47'59", Longitude 116°58'29" NAD27

Output formats

[HTML table of all data](#)[Tab-separated data](#)[Reselect output format](#)

00060, Discharge, cubic feet per second,

Monthly mean in cfs (Calculation Period: 1979-08-01 -> 1981-09-30)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979								133.0	118.6	93.6	79.3	77.2
1980	74.2	62.3	54.6	69.5	117.6	122.7	122.1	129.7	140.3	94.6	75.8	62.0
1981	59.2	59.0	54.6	78.2	110.7	133.9	130.7	129.7	144.9			
Mean of monthly Discharge	67	61	55	74	114	128	126	131	135	94	78	70.

** No Incomplete Data is used for Statistical Calculation

[Questions about sites/data?](#)[Feedback on this web site](#)

Surface Water data for Idaho: USGS Surface-Water Monthly Statistics

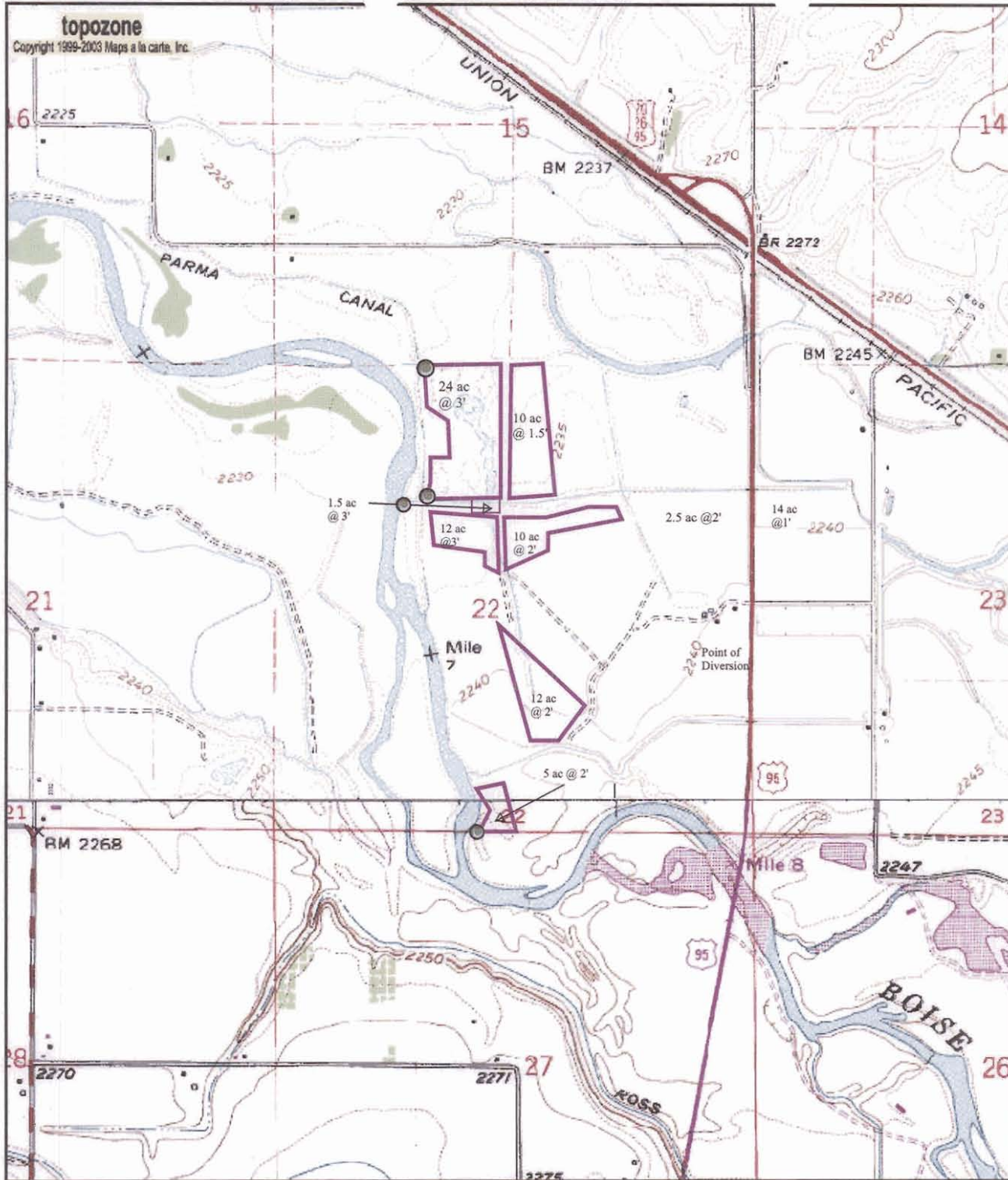
<http://waterdata.usgs.gov/id/nwis/monthly?>[Top](#)[Explanation of terms](#)

Retrieved on 2007-04-04 17:13:42 EDT

Department of the Interior, U.S. Geological Survey

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1.12 1.07 ca02

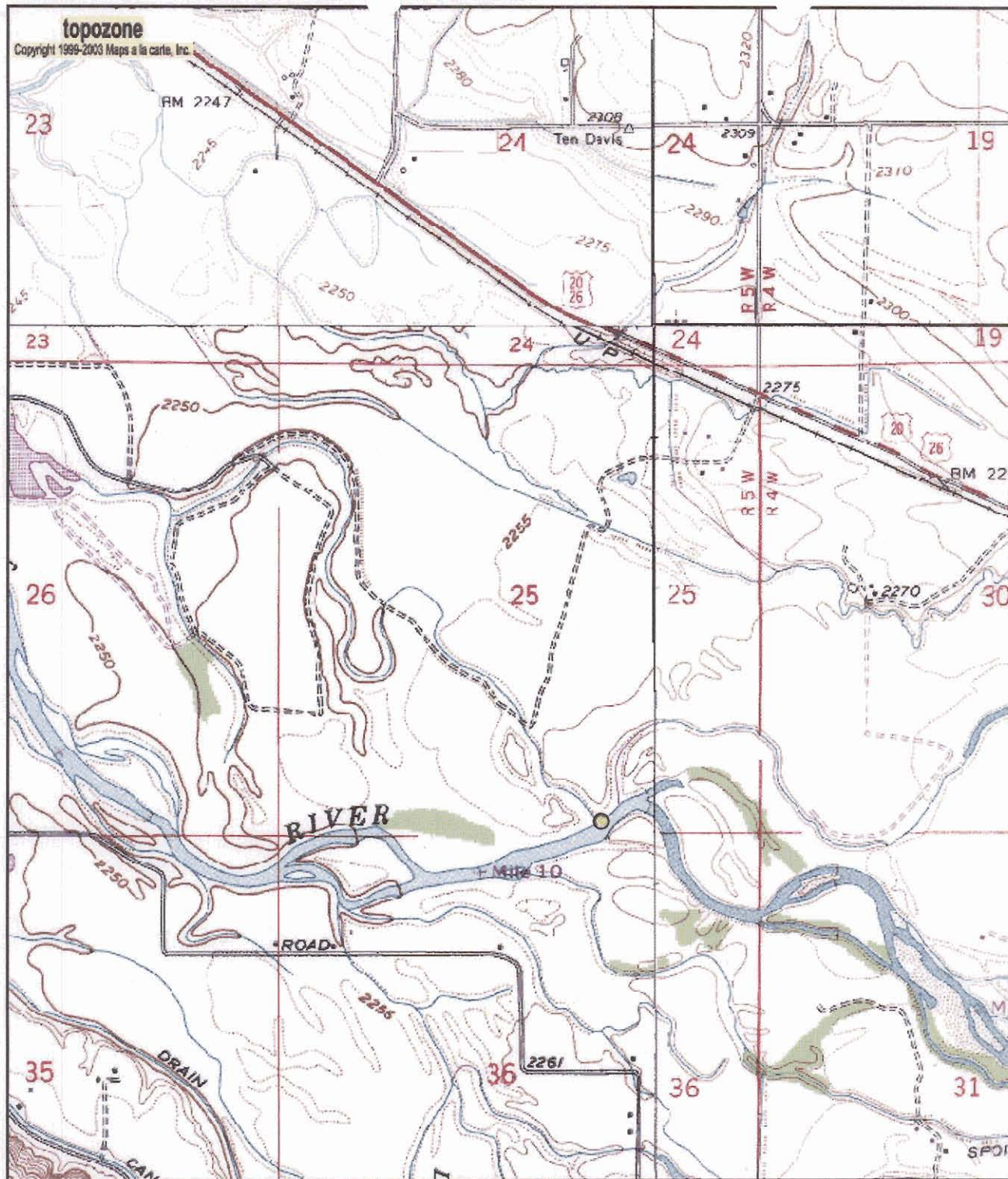


0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

UTM 11 506279E 4844787N (NAD83/WGS84)
Elevation 2,238.4 ft / 682.2 m (USGS NED)
USGS Parma (ID,OR) Quadrangle
Projection is UTM Zone 11 NAD83 Datum

M=15.681
G=0.054

- Place of Use
- Point of Return Flow
- Point of Diversion



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

UTM 11 509502E 4843180N (NAD83/WGS84)

USGS Wilder (ID) Quadrangle

Projection is UTM Zone 11 NAD83 Datum



M=15.666
G=0.082

USGS Surface-Water Monthly Statistics for Idaho

Water Data Reports, Idaho, Water Years 2002-2005

Water Data Report, Idaho, Water Year 2006

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USGS 13213000 BOISE RIVER NR PARMA ID

Available data for this site

Time-series: Monthly statistics

GO

Canyon County, Idaho
Hydrologic Unit Code 17050114
Latitude 43°46'54", Longitude 116°58'22" NAD83
Drainage area 3,970 square miles
Contributing drainage area 3,970 square miles
Gage datum 2,196.49 feet above sea level NGVD29

Output formats

[HTML table of all data](#)

[Tab-separated data](#)

[Reselect output format](#)

00060, Discharge, cubic feet per second,

Monthly mean in cfs (Calculation Period: 2004-01-01 -> 2006-09-30)

YEAR

Period-of-record for statistical calculation restricted by user

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004	889.2	1,229	873.0	645.5	1,042	771.0	781.1	761.2	853.5	898.8	883.8	806.2
2005	761.3	750.0	656.6	452.4	1,025	590.3	573.0	702.6	804.0	774.8	846.4	927.5
2006	1,048	4,121	3,845	5,640	6,773	2,920	889.3	967.9	948.8			
Mean of monthly Discharge	899	2,030	1,790	2,250	2,950	1,430	748	811	869	837	865	867

** No Incomplete Data is used for Statistical Calculation

[Questions about sites/data?](#)

[Feedback on this web site](#)

Surface Water data for Idaho: USGS Surface-Water Monthly Statistics
<http://waterdata.usgs.gov/id/nwis/monthly/>

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Department of the Interior, U.S. Geological Survey

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END 4/5/07
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