### Churchwell White LLP

churchwellwhite.com

1414 K Street, 3<sup>rd</sup> Floor Sacramento, CA 95814 T 916.468.0950 | F 916.468.0951

Kerry A. Fuller T: 916.468.0620 Kerry@churchwellwhite.com

January 10, 2017

#### VIA HAND-DELIVERY

Ken Petruzzelli State Water Resources Control Board Office of Enforcement 801 K Street, 23<sup>rd</sup> Floor Sacramento, CA 95814

#### Re: Douglas and Heidi Cole, Marble Mountain Guest Ranch

Dear Mr. Petruzzelli:

Enclosed please find the answers to the twenty-four questions posed in your email dated November 15, 2016, as well as the relevant documents requested described below.

Exhibit A - Articles of Incorporation for Marble Mountain Ranch
Exhibit B - The Grant Deed
Exhibit C - Statement of Information dated March 9, 2015
Exhibit D - Annual reports submitted to the United States Forest Service
Exhibit E - Email from David Markin confirming fire guests
Exhibit F & G - Diversion control structure project design and budget
Exhibit H - Records of Stanshaw Flow monitoring efforts
Exhibit I - Concept paper detailing alternative power upgrades
Exhibit J - Email confirming quote for solar power system update
Exhibit K - Proposal to return flow to Stanshaw Creek
Exhibit L - Grant application from 2004

If you have any questions or concerns please do not hesitate to email or call me.

Petruzzelli, Ken January 10, 2017 Page 2 of 2

Kind regards,

Churchwell White LLP · Kerry A. Fuller CW

Enclosures

### Churchwell White LLP

churchwellwhite.com

1414 K Street, 3<sup>rd</sup> Floor Sacramento, CA 95814 T 916.468.0950 | F 916.468.0951

#### ACKNOWLEDGMENT OF RECEIPT

I, <u>Hhê Macabo</u>, <u>Sr Staff Consel</u>, received the letter dated [Name] [Title]

January 10, 2017, from Kerry Fuller and all enclosures described therein, on

\_\_\_\_, 2017.

Cedo

Signature of Recipient

#### Marble Mountain Ranch Responses to State Water Resources Control Board Questions for December 16, 2016 Meeting

#### 1. Please provide corporate formation documents for Marble Mountain Ranch, Inc.

The Articles of Incorporation for Marble Mountain Ranch are attached as Exhibit A.

#### 2. Please provide all title documents for the Marble Mountain Ranch property.

The Grant Deed demonstrating the Coles' ownership of Marble Mountain Ranch is attached as **Exhibit B**.

3. Please provide the most recent Statement of Information filed with the California Secretary of State.

A copy of the latest Statement of Information is attached as **Exhibit C**.

## 4. How did the diesel generator operating hours this year compare to operating hours in previous years? If the Coles have kept records of diesel generator operation, please provide them back to January 1, 1995.

Records are only available for 2015 and 2016. Historically, in normal rainfall years, Marble Mountain Ranch would run the hydroelectric plant year round. Normal operations also included short periods of transfer to the diesel plant for episodic peak power demands that coincided with low flow periods in Stanshaw Creek.

During low flow periods, Marble Mountain Ranch's ditch and power management plans call for the truncation of flows to meet consumptive uses only while the diesel plant provides the needed electrical power until seasonal rains in the fall bring sufficient ditch flows to return to hydropower generation.

In 2016, Marble Mountain Ranch has only diverted enough water for consumptive use and remained on diesel power to comply with the National Marine Fisheries Service ("NMFS") recommended bypass flow and related Water Board demands. The hydroelectric power operation was shut down in May 2016 and Marble Mountain Ranch has continued to operate the diesel power generator in lieu of the hydroelectric plant through December 2016.

5. How much did the diesel generator operation cost each month this summer? How did those expenses compare to earlier summers? If the Coles have kept records of operating costs for the diesel generator, please provide them. Again, if they have records back to 1995, please provide them back to January 1, 1995.

Average daily diesel fuel use in 2016 year to date is 42 gallons per day. Diesel fuels were less expensive in 2016 due to global conditions and kept the operational expense of the diesel plant lower than some previous years. Total diesel plant operation expenses for the 8 month period of

May through December 2016 totals \$34,682 with expected end of year costs totaling approximately \$40,000.

## 6. How many non-fire crew guests have the Coles had each month since January 1, 1995? If they have records, please provide them.

The Coles do not maintain guest records for the period requested. Instead, attached as **Exhibit D**, are annual reports submitted to the United States Forest Service ("USFS") as a condition of the Coles' special use permit for use of USFS land. The records are a non-comprehensive review of the non-fire guests who have visited Marble Mountain Ranch in 2015 and 2016. The records do not include any records of lodging, meal services, recreational activities, or other services that are provided on Marble Mountain Ranch's privately held land.

## 7. How many fire crew guests have the Coles had each month since January 1, 1995? If they have records, please provide them.

An email from the Orleans/Ukonom Ranger District, District Fire Management Officer, David Markin is attached as **Exhibit E**. His email confirms that the Orleans/Uknonom Ranger District has used Marble Mountain Ranch for fire camps numerous times since the Coles' purchase of Marble Mountain Ranch in 1994.

Marble Mountain Ranch's services to fire crew guests vary dramatically on a year to year basis. Marble Mountain Ranch resources are often used when services from national caterers and contractors are unavailable. The single largest event that Marble Mountain Ranch has served occurred in 1994 during the Dillion complex fire. Marble Mountain Ranch served fire crew personnel that at times exceeded 600 individuals and services were provided from August of 1994 through October of 1994. Services varied, but included land use for commissaries, medical stations, security stations, public relations tents, payroll stations, sleeping quarters, laundry facilities, helicopter landing facilities, meeting facilities, meals services, and other related services.

The fire crews often hire Marble Mountain Ranch's services that are normally provided to Marble Mountain Ranch guests including:

- Rafts and drift boats being hired to transport crews across rivers
- Horses and pack strings hired to deliver meals and equipment to "spike" crews
- Pasture space rented for helicopter landing pads and sleeping quarter areas for crews to erect tents
- o Cabins rented for helicopter pilots and incident commanders
- Housekeeping facilities are used to provide laundry services for crews on extended terms of duty
- Ranch kitchen services are used to provide hot meals for fire crews and fire camp management

Fire camps at Marble Mountain Ranch are generally smaller in size, ranging from 20-200 crew members. Marble Mountain Ranch does not maintain fire-camp specific records or contracts, but has entered into contracts for services that include a range of the services listed above with both USFS and Cal Fire.

## 8. Have the Coles had any project proposals or estimates for installing a diversion control structure? What have those proposals and estimates been? Please provide any written proposals or estimates.

As part of a grant from the Mid Klamath Watershed Council ("MKWC"), MKWC worked with Cascade Stream Solutions ("CCS") to create a design for a diversion control structure for a 6" PVC pipe intake to accommodate transport of consumptive use flows to Marble Mountain Ranch. The design has been previously provided and is attached as **Exhibit F**.

## 9. Have the Coles had any project proposals or estimates for piping the diversion ditch? What have those proposals and estimates been? Please provide any written proposals or estimates.

The MKWC worked with CSS to create a design for a 6" PVC pipe intake to accommodate transport of consumptive use flows to Marble Mountain Ranch. The design and budget for that project are attached as **Exhibits F and G**.

# 10. Have the Coles had any project proposals or estimates for monitoring their diversion? What have those proposals and estimates been? Please provide any written proposals or estimates.

MKWC monitored flows twice a month between May 2016 and August 2016, including taking readings above and below the diversion, multiple readings in the ditch itself before and after shunt flow channels, at the Highway 96 culvert on Stanshaw Creek, and going into and out of the MMR pond. MKWC spent \$2,356.39 from NFWF Coho Enhancement Funds on this effort. Records of that monitoring effort are attached as **Exhibit H**.

#### 11. Have the Coles had any project proposals or estimates for monitoring bypass flows? What have those proposals and estimates been? Please provide any written proposals or estimates.

The flow monitoring effort described in question #10 included bypass flowing monitoring.

## 12. What are the Coles' electricity demands? Do they measure or keep records? If they have kept records, please provide the records. If the Coles still have records back to January 1, 1995, please provide them.

The Coles are not connected to any conventional power grid. They generate their own electricity and there has never been a need to record the quantities that they produce or consume. As part of a possible upgrade to Marble Mountain Ranch's electrical system, an energy consultant made an estimate of the current electrical demand and estimated the energy demand at Marble Mountain Ranch at roughly 126,265 kilowatts per year.

## 13. Have the Coles had any project proposals or estimates for alternative electricity production? What have those proposals and estimates been? Please provide any written proposals or estimates.

The Coles had a consultant, The Electrician INC. prepare a concept paper that explores various options for alternative energy production. Basically, a combination of allowable hydropower, solar and generator power, combined with energy saving infrastructure upgrades (distribution lines, reduced use of space heaters, etc) was proposed. That paper is attached as **Exhibit I.** The cost associated with that proposal was \$425,000.

The Coles also had a solar power specialist provide them with a quote for updating their power system. The quote associated with that effort is \$526,000 for a 65 Kilowatt solar system. An email confirming that quote is attached as **Exhibit J**.

The Coles have also explored the possibility of installing lined power from PG&E, with a consultant who no longer works with the Coles securing a quote from PG&E. The Coles have requested the quote from that consultant, but it has not been provided. At the time the quote was secured, the consultant indicated that pursuing lined power is prohibitively expensive without grant funding.

## 14. Have the Coles had any project proposals or estimates for eliminating the discharges to Irving Creek? What have those proposals and estimates been? Please provide any written proposals or estimates.

In 2004, MKWC worked with NRCS to create a proposal to CDFW FRGP program to pipe the entire Marble Mountain Ranch water system at the 3 cfs amount, including a return flow pipe from Marble Mountain Ranch back to Stanshaw Creek along Highway 96. This proposal was not funded because CDFW lawyers said Marble Mountain Ranch's water right needed further substantiation. The proposal is attached as **Exhibit K**.

The Coles were successful in demonstrating that they had a pre-1914 3 cfs right. They now are prepared to move forward with resource improvements, provided the funding is available to implement the proposed solutions.

## 15. Please provide any written plans, proposals, or project estimates for any alternative or alternatives to the project proposed on March 24, 2016.

Please see the response to question 16.

16. Please provide any alternative or alternatives to the project proposed on March 24, 2016 will eliminate and prevent the misuse of water, protect public trust resources, and prevent the discharge of pollutants and provide equal or greater protection.

## This will be important for the meeting. Staff will need to be able to evaluate whether the Coles' "alternative" will adequately address the issues with their diversion and use of water.

The Coles are not engaged in any misuse of water. Thus, the Water Board and the Regional Board lack the jurisdiction to require that the Coles implement resource improvements. As pre-1914 right holders, their right to divert the 3 cfs of water has already considered public trust impacts and the State Water Board lacks the jurisdiction to require the Coles, as established pre-1914 rights holder, to take action to benefit public trust resources.

Nevertheless, the Coles are open to implementing any solutions that will benefit all users in the system, provided that there is funding available to them for those solutions. To that end, the Coles have assembled a new consultant team to assist them with designing, permitting and implementing resources improvements at Marble Mountain Ranch. Funding these improvements continues to be an obstacle to implementing those solutions. The Coles have sought funding opportunities throughout their ownership of the Ranch, but have been met with regulatory resistance which has blocked the Coles' efforts to improve the diversion.

## 17. How many days of maintenance has the diversion ditch required since January 1, 1995? Do the Coles have records? If they do, please provide them.

The Coles do not keep records of the hours that they spend maintaining the diversion and ditch. It is a part of the routine maintenance of ranch operations and occurs on a regular basis. The goal of the regular maintenance activity is to ensure that the diversion works. As part of their regular maintenance of the diversion, the Coles and their staff at Marble Mountain Ranch regularly reinforce the berm to prevent erosion and overtopping of the ditch, clear debris from the ditch, remove sediment build up from the ditch bottom and manage the diversion during storm events to block flow from entering the ditch until the storm surge has passed.

# 18. How many times has the diversion ditch failed in January 1, 1995? When did those failures occur? What was the cause of each failure? What was the result of each failure? What was the time and cost to repair each failure?

During the time of the Coles' ownership and maintenance of Marble Mountain Ranch, the diversion ditch has not had any failures.

## 19. Please provide invoices for the cost of repairing the water tanks after January 1, 2015.

The plastic water tanks were not repairable and the entire water system was replaced in order to meet the demand of the Water Board. The total cost for the replacement of the water purification system was \$47,542. The most significant portions of this project include a contract with Watson Well Service for \$27,345 to install three new filter tanks and an additional water storage tank. Additional expenses for this project included rental equipment to move filter medium (\$2630.00), demolition and removal of the old tanks and gravel medium, excavator operator and equipment hires to complete site work (\$2932), and additional water storage tanks purchased by

Marble Mountain Ranch separately (approximately \$1700 / tank) to bring to a total of seven 2600 gallon Snyder storage tanks (one week storage capacity at full ranch occupancy).

### 20. Please provide invoices for the cost of purchasing new water tanks after January 1, 2015.

Invoices are not available, the cost of these efforts is included above.

#### 21. Please provide any and all contracts for hosting fire crews since January 1, 1995.

The contracts are not available. An email from the coordinator for the fire station in the area confirming their use of Marble Mountain Ranch facilities is attached as **Exhibit E**.

## 22. Please provide any copies of applications for grants or other funding the Coles made since January 1, 1995 for improving energy, water, or similar infrastructure or for mitigating or remediating the impacts of their diversion and use of water.

A copy of the grant application from 2004 is attached as **Exhibit L**. The Coles also recently sought grant funding to install a six inch pipeline to transport consumptive use water to Marble Mountain Ranch. Following the Regional Water Board's Cleanup and Abatement Order and the State Water Board's Draft Order, the funding organization elected not to fund the project. The six inch pipe proposal design is attached as **Exhibit F**.

#### 23. Please provide any copies of grants or other funding the Coles have received since January 1, 1995 for improving energy, water, or similar infrastructure or for mitigating or remediating the impacts of their diversion and use of water.

The Coles have not received any grants or other funding for these purposes. MKWC received funding to attain third party validation of the Cole's water right from Martha Lennihan at Lennihan Law from the NFWF Coho Enhancement Fund, and additional funding from this source to coordinate stakeholders meetings to pursue development of alternatives to address issues and concerns of various stakeholders. The Cole's have used their own funding to make all improvements to the diversion, thus far.

### 24. Please provide any records of diversion measurements the Coles have made since March 20, 2010.

The flow data from MKWC Fisheries program staff from May, 2016, to August, 2016 is attached as **Exhibit H**.

í

WR-157

### ARTICLES OF INCORPORATION 3752657

#### FILED U Secretary of State State of California

#### OF

#### MARBLE MOUNTAIN RANCH INC.

#### FEB 0 2 2015

FIRST: The name of this corporation is MARBLE MOUNTAIN RANCH INC.

**SECOND:** The purpose of this corporation is to engage in any lawful act or activity for which a corporation may be organized under the General Corporation Law of California other than the banking business, the trust company business or the practice of a profession permitted to be incorporated by the California Corporations Code.

**THIRD**: The name and address in this State of the corporation's initial agent for service of process is:

#### Douglas Cole 92520 Hwy 96 Somes Bar California 95568

FOURTH: The Initial Street and Mailing Address of Corporation is:

#### 92520 Hwy 96 Somes Bar California 95568

FIFTH: This corporation is authorized to issue only one class of shares of stock, which shall be common stock. The total number of shares which the corporation is authorized to issue shall be One-Thousand (1,000) shares.

IN WITNESS WHEREOF, for the purposes of forming this corporation under the laws of the State of California, the undersigned, the sole Incorporator of this corporation, has executed these Articles of Incorporation this 28<sup>th</sup> day of January, 2015.

#### **DECLARATION OF INCORPORATOR**

The undersigned, John J. Stifter, does hereby declare that he is the person whose name is subscribed to the above Articles of Incorporation and that he executed the same by subscribing his name thereto, which execution is his act and deed.

Executed in Orange County, California, this 28th day of January, 2015.

ç'd

6304693321

Dec 12 16 01:37p Doug Cole

RECORDING REQUESTED BY SISKIYOU COUNTY TITLE CO.

**RECORDING REQUESTED BY** 

Santa Cruz Title Company

MAIL TAX STATEMENTS TO AND WHEN RECORDED MAIL

Norman D. Cole and Carolyn Taylor Cole and Douglas T. Cole and Heidi A. Cole 92530 14W496

1301, CA 4556X Escrow or Loan No. 09558423-JEA 201128-2

APN: 026-290-200, 026-290-240, 026-290-270

Siskiyou County Recorder Leanna Dancer, Recorder

DOC - 07-0002949 Acct 1-Siskiyou County Title Co. Manday, MAR 05, 2007 08:59:06 Ttl Pd \$16.00 Nbr-0000119359 RAS/C2/1-4

SPACE ABOVE THIS LINE FOR RECORDER'S USE

### **GRANT DEED**

*				
The	undersigned	orantor(s)	declare(s)	

Documentary transfer tax is O

computed on full value of property conveyed, or

computed on full value less value of liens and encumbrances remaining at time of sale.

Unincorporated area: 🖬 City of , and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged.

Norman D. Cole and Carolyn Taylor Cole, husband and wife, as joint tenants, and Norman D. Cole and Carolyn Taylor Cole, as Trustees of the Cole Family Trust dated November 11, 1994 hereby GRANT(S) to Norman D. Cole and Carolyn Taylor Cole, husband and wife and Douglas T. Cole and Heidi A. Cole, husband and wife, all as joint tenants

SS.

the following described real property in the County of Siskiyou, State of California:

Dated: February 16, 2007

STATE OF CALIFORNIA COUNTY OF SISKIYOU

On teluciano 23, 3057 before me, <u>6an EWEGE</u>, a Notary Public, personally appeared

Norman D. Cole and Carolyn Taylor Cole

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

WITNESS my hand and official sea Signature

Norman D. Cole, Individially and as Truster

Carolyn Taylor Cole, Ind/iviually anď astrustee.



MAIL TAX STATEMENT AS DIRECTED ABOVE

This form furnished by SANTA CRUZ TITLE COMPANY

Order Number: 00207128-300

#### Exhibit "One"

All that real property situate in the State of California, County of Siskiyou, described as follows:

PARCEL I

The Southeast quarter of the Northwest quarter of the Southwest quarter, the Southwest quarter of the Northeast quarter of the Southwest quarter, the North half of the Northwest quarter of the Southwest quarter, the Northeast quarter of the Southwest quarter, the Northeast quarter of the Southwest quarter, the Northeast quarter of the Southwest quarter, the Northwest quarter of the Southwest quarter, the Southwest quarter of the Southwest quarter, the Northwest quarter of the Southwest quarter of the Southwest quarter, the Southwest quarter of the Southwest quarter of the Southwest quarter, the Southwest quarter of the Southwest quarter of the Southwest quarter, the Southwest quarter of the Southwest quarter of the Southwest quarter, and the Southwest quarter of the Southwest qu

EXCEPTING THEREFROM all that portion of the Southwest quarter of the Southeast quarter of Section 33, Township 13 North, Range 6 East, Humboldt Meridian described as:

BEGINNING at the South quarter corner of said Section; thence East 330 feet to the TRUE POINT OF BEGINNING; thence East 330 feet along the South line of said Section to the East boundary of the Lue Hayes property; thence North 330 feet along the East line of said Hayes property; thence West 330 feet; thence South 330 feet to the TRUE POINT OF BEGINNING.

FURTHER EXCEPTING those portions of the land in the West half of the Southwest quarter of the Southeast quarter, and in the Southwest quarter of Section 33, Township 13 North, Range 6 East, Humboldt Meridian, as conveyed to Lue Hayes et ux, by deed recorded July 1, 1955, inBook 352 at page 253, Official Records of Siskiyou County, lying Southerly of the line described as follows:

COMMENCING at a point on the South line of said Section 33, from which the corner common to Sections 3 and 4, Township 12 North, Range 6 East, Humboldt Meridian, and Sections 33 and 34, Township 13 North, Range 6 East, Humboldt Meridian, bears South 88°51'44" East, 1769.19 feet, said point also being Engineer's Station "A" 479+77.35 P.O.C., as established from the Department of Public Works 1964 Survey between Somes Bar and Ti Creek Road 01-Sis-96;

thence from a tangent which bears North 47°20'27" West, along a curve to the left having a radius of 1000.00 feet, through an angle of 07°37'11", a distance of 132.99 feet to Engineer's Station "A" 481+10.34 E.C., as established from said survey;

thence North 35°02'22" East, 100.00 feet to a point hereinbelow referred to a Point "B"; thence North 54°57'38" West 180 feet more or less to the East line of the West half of the Southwest quarter of the Southeast quarter of said Section 33, being the TRUE POINT OF BEGINNING of this line; thence continuing North 54°57'38" West, 610 feet to a point for a total distance of 790.42 feet from said Point "B";

thence South 35°02'22" West, 34.00 feet;

thence from a tangent which bears North 54°57'38" West, along a curve to the left, having a radius of 1266.00 feet, through an angle of 14°29'35" a distance of 320.24 feet to a point hereinbelow referred to as Point "C";

thence North 69°27'13" West 520 feet, more or less, to the West line of the East half of the East half of the Southwest quarter of said Section 33;

thence continuing North 69°27'13" West, 290 feet, more or less to the South line of the North half of the North half of the Southeast quarter of the Southwest quarter of Section 33;

- 2 -

Т

Exhibit "One" Continued

ORDER NO.: 00207128-300

thence continuing North 69°27'13" West, 47 feet to a point, hereinbelow referred to as Point "D" for a total distance of 857.37 feet from said Point "C";

thence from a tangent which bears North 69°27'13" West along a curve to the left, having a radius of 5066.00 feet a distance of 355 feet, more or less to the West line of the Southeast quarter of the Southwest quarter of said Section 33;

thence continuing along last said curve, a distance of 335 feet to a point, hereinbelow referred to a Point "E:, through a total angle of 07°48'15", and a total distance of 690.03 feet from said Point "D";

thence North 41°41'14" West, 178 feet, more or less, to the South line of the Northwest quarter of the Southwest quarter of said Section 33;

thence continuing North 41°41'14" West 138 feet to a point for a total distance of 316.31 feet from said Point "E";

thence North 76°12'04" West, 128 feet, more or less, to the Point of Termination of this line on the West line of the East half of the Northwest quarter of the Southwest quarter of said Section 33.

EXCEPTIING THEREFROM that portion thereof lying Southerly of the line described as follows:

COMMENCING at said Engineer's Station "A" 481+10.34 E.C., hereinabove described; thence North 54°57'38" West, 159.66 feet;

thence South 35°02'22" West, 225.00 feet to a point hereinbelow referred to as Point "F";

thence North 11°17'26" East, 17 feet, more or less, to the South line of said Section 33, being the TRUE POINT OF BEGINNING of this line;

thence continuing North 11°17'26" East, 120 feet to a point for a total distance of 136.57 feet from said Point "F";

thence North 54°57'38" West, 575.76 feet;

thence from a tangent which bears North 54°57'38" West, along a curve to the left, having a radius of 1100.00 feet, through an angle of 14°29'35", a distance of 278.25 feet;

thence North 69°27'13" West, 115 feet, more or less, to the POINT OF TERMINATION of this line on the West line of the East half of the East half of the East half of the Southwest quarter of said Section 33.

ALSO EXCEPTING THEREFROM that portion thereof conveyed to Edwin T. McMannis, et ux, by Deed recorded January 19, 1965 in Book 512 at page 457, Official Records of Siskiyou County.

The bearings used in the above description are on the California Co-ordinate System Zone 1, and the distances are surface.

#### PARCEL II:

That portion of the lands in the Southwest quarter of the Southeast quarter of Section 33, Township 13 North, Range 6 East, H.M., conveyed to the State of California by deed recorded December 15, 1965 in Book 524, Official Records, page 98, Siskiyou County Records, lying Northeasterly of a line described as follows:

COMMENCING at a point on the South line of said Section 33, from which the corner common to Sections 3 and 4, Township 12 North, Range 6 East, H.M., and Sections 33 and 34, Township 13 North, Range 6 East, H.M., bears South 88°51'44" East, 1769.19 feet, said point also being Engineer's Station "A" 479+77.35 P.O.C., as established from the Department of Public Works 1964 Survey between Somes Bar and Ti Creek Road 01-Sis-96;

thence from a tangent that bears North 47°20'27" West, along a curve to the left with a radius of 1000.00 feet, through an angle of 07°37'11", for a distance of 132.99 feet;

thence North 35°02'22" East, 100.00 feet;

thence North 54°57'38" West, 182 feet, more or less to the POINT OF INTERSECTION with the East line of said land, last said point being the TRUE POINT OF BEGINNING of this parcel thence continuing North 54°57'38" West, 117 feet, more or less to the POINT OF TERMINATION of this line

- 3 -

Exhibit "One" Continued

ORDER NO.: 00207128-300

on the North line of said lands.

The bearings used in the above description are on the California Coordinate System Zone 1, and the distance are surface.

#### PARCEL III

A parcel of land lying in Section 33, Township 13 North, Range 6 East, Humboldt Meridian, Siskiyou County, California, described as follows:

BEGINNING at AP-8 of Tract 48, on the line between Tracts 48 and 49;

thence South 0°13' East, 120.00 feet along the West line of Tract 49 to a witness point, which is a standard USDA Forest Service aluminum post with an aluminum cap;

thence continuing South 0°13' East 13.38 feet;

thence leaving the West line of Tract 49 North 70°25'29" West 328.87 feet along the right-of-way line of California State Route 96, to a tangent curve, concave to the Southwest, having a radius of 5066.00 feet and a central angle of 0°47'55";

thence along said curve and the right-of-way line, 70.61 feet to a point on line 7-8 of Tract 48, which is West along said line 376.05 feet from AP-8;

thence East along said line 7-8, 376.05 feet to the POINT OF BEGINNING.

Assessor's Parcel No: 026-290-200 026-290-240 026-290-270

5304693321

WR-157

р.1

Dec 14 16	10:49a
-----------	--------

Decretary of states           Statement of Information           Connective Sock and Agricultural Cooperative Corporations) FEES (Filing and Disclosure): \$25.0.0.           If this is an anendment, see Instructions.           PORTANT - READ INSTRUCTIONS BEFORE COMPLETING THIS FORM           OPERATE NUMBER           LIFORNIA CORPORATE NUMBER           CONTACT INSTRUCTIONS DEFORE COMPLETING THIS FORM           DROVING CORPORATE NUMBER           LIFORNIA CORPORATE NUMBER           CONTACT INSTRUCTIONS DEFORE COMPLETING THIS FORM           DROVING CORPORATE NUMBER           LIFORNIA CORPORATE NUMBER           CONTACT INSTRUCTIONS DEFORE COMPLETING THIS FORM           The Russ for the Information contained in the set Statement of Information file with the California Secretary           Office Addresses for the Following Other attract of the dy, like form must be comparised in the California Secretary           ODE MORE SALE           OTHER Addresses of the Following Others in the trans of the dy, likemed And discertary           OTHER Addresses of the Following Others (The cooperation must like these three differs: A comparable tab for the uponic           OTHER Addresses of the Following Others (The cooperation must like these three differs: A comparable tab for the uponic	Sta	te or Udiliornia		
Statement of Information     (Domestic Stock and Agricultural Cooperative Corporations)     FEES (Filing and Disclosure); 25:00.     If this is an amendment, see instructions.     WORTAINT - READ INSTRUCTIONS BEFORE COMPLETING THIS FORM     ORPORATE NAMEE  BLE MOUNTAIN RANCH INC.      LIFORNIA CORPORATE NAMEER     C3752657     The Space for Filing Use Only      The space for Filing Use Only      If the has been no change in any of the information contained in the last Statement of Information files with the California Secretary      If there has been no change in any of the information contained in the last Statement of Information files with the California Secretary      If there has been no change in any of the information contained in the last Statement of Information files with the California Secretary      If there has been no change in any of the information contained in the last Statement of Information files with the California Secretary      of State, one of statement of Information contained in the last Statement of Information files with the California Secretary      of State, one of statement of Information contained in the last Statement of Information files with the California Secretary      of State, one of statement of Information contained in the last Statement of Information files with the California Secretary      of State, one of statement of Information contained in the last Statement of Information files with the California Secretary      of State, One State California Secretary      of State, One State California Secretary      of State, One State Secretary      St	Se	cretary of State		
THE STADESS OF PRINCIPAL EXECUTIVE OFFICES IN CALFORNIA, F ANY SCHES BAR CA SSSSS OF CONFORMENT, EXECUTIVE OFFICES OF PRINCIPAL EXECUTIVE OFFICES OF CONFORMATION, BUSINESS OFFICE IN CALFORNIA, F ANY SCHES BAR CA SSSSSS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT THAN (TEX 4 CITY STATE ZIP CODE SCHESS OF CONFORMATION, IF DIFFERENT TH	State	ment of Information		
If this is an anextment, see instructions.         MPORTANT - READ INSTRUCTIONS BEFORE COMPLETING THIS FORM.         ORPORATE NAME         BLE MOUNTAIN RANCH INC.         Things Statement (Not spokiable if agent address of ecord is a P.O. Box address. See instructions.)         Things Statement (Not spokiable if agent address of ecord is a P.O. Box address. See instructions.)         Things Statement (Not spokiable if agent address of ecord is a P.O. Box address. See instructions.)         If there has been no change in the information contained in the test Statement of Information filed with the California Secretary         If there has been no change in any of the information contained in the test Statement of Information filed with the California Secretary         If there has been no change in any of the information contained in the test Statement of Information filed with the California Secretary         If there has been no change in the test of the cdy. Items 4 and 5 cannot be P.O. Boxes.)         If there has been no change in the test of the cdy. Items 4 and 5 cannot be P.O. Boxes.)         If there has been no change in the test of the cdy. Items 4 and 5 cannot be P.O. Boxes.)         If there has been no change in the information contained in the test Statement of Information filed with the California Secretary         ONES BAR       CA         State, check the Boxe and proceeds the not the cdy. Items 4 and 5 cannot be P.O. Boxes.)         Complete Addresses of not PRICIPAL BUSINESS OFFICE IN OALFORNA, F ANY         COTY	(Domestic Stock and	Agricultural Cooperative Corporatio	ons)	
Processor in the set of the following officers (The opposition must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table of the specific officers (The corporation must list these three officers. A comparative table of the specific of the specific officers (The corporation must list these three officers. A comparative table of the specific officers (The corporation must list these three officers. A comparative table of the specific officers (The corporation must list these three officers. A comparative table of the specific officers (The corporation must list these three officers. A comparative table of the specific officers (The corporation must list these three officers. A comparative table table of the specific officers (The corporation must list these three officers. A comparative table to the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list these three officers. A comparative table for the specific officers (The corporation must list the start of the corporation must list these three officers. A comparative table officers (The corporation must list these three officers. A comparative table of the corporation must list the specific officers (The corporation must list these three officers. A comparative table of the corporation form table officers (The corporation must list the specific officers (The corporation must list the specific officers (The corporation must	FEES (Fil	ing and Disclosure): \$25.00.		
MORPORATE NAME     BBLE MOUNTAIN RANCH INC.     The Space for Filing Use Only     The Space for the Following Only     The Space for the Space for the Space only     The Spac	IT UNS IS AN MOODTANT - READ INST	Amendinent, see institutions.	HIS FORM	
ILLEORNIA CORPORATE NAMEER  C3752657  This Space for Fling Use Only  This space for Fling Use Only  There have been any changes to the Information contained in the last Statement of Information filed with the California Becretary  State, or a statement of Morrange to the Information contained in the last Statement of Information filed with the California Becretary  State, or a statement of Morrange to the Information contained in the last Statement of Information filed with the California Becretary  State, or a statement of Morrange to the Information contained in the last Statement of Information filed with the California Becretary  State, or a state, or a statement of Morrange to the Information must be completed in its entity.  If there have been no change in any of the Information contained in the last Statement of Information filed with the California Becretary  State, or a state, or a state of the Following. (Do not abbreviate file name of the ctry, larms 4 and 5 cannot be P.O. Boxes).  There rubuless of PRINCIPAL EXECUTIVE OFFICE  COTY  SOMES BAR  CA  95568  CA  95	APOR MANY - READ MOT			
ALLFORMA CORPORATE NUMBER       The Space for Filing Use Driv         Statement (Not applicable II gent address of ecord is a P.O. Box address. See Instructions.)       The Space for Filing Use Driv         Them have been any changes to the information contained in the last Statement of Information filed with the California Secretary       State. or of the Coloning.       Statement of Information Secretary         If State, or of an above on dange in any of the information contained in the last Statement of Information filed with the California Secretary       Statement of Information Secretary         If State, or of the Following. (Do not abbreviate the name of the dry. Items 4 and 5 curnot be P.O. Boxes.)       Strint 2 2P CODE         DIVER Addresses for the Following. (Do not abbreviate the name of the dry. Items 4 and 5 curnot be P.O. Boxes.)       Strint 2 2P CODE         DIVER ADDRESS OF PRINCIPAL EXECUTIVE OFFICE       CITY       Strint 2 2P CODE         DIVER ADDRESS OF ORBORATION., IF DIFFERENT THAN ITEM 4       CITY       Strint 2 2P CODE         DIVER ADDRESS OF ORBORATION., IF DIFFERENT THAN ITEM 4       CITY       Strint 2 2P CODE         DIVER ADDRESS OF CORPORATION., IF DIFFERENT THAN ITEM 4       CITY       Strint 2 2P CODE         DIVER ADDRESS OF CORPORATION., IF DIFFERENT THAN ITEM 4       CITY       Strint 2P CODE         DIVER ADDRESS OF CORPORATION., IF DIFFERENT THAN ITEM 4       CITY       Strint 2P CODE         DIVER STATUR VEPROEM       ADDRESS       CITY	BUE MOUNTAIN RANCH IN	IC.		
NLFORMA CORPORATE NUMBER         C3752657         The space for Filing Use Only           thange Statement (Not applicable if agent address of record is a P.O. Box address. See Instructions.)         The space for Filing Use Only           if there have been no change in any of the information contained in the last Statement of Mormation filed with the California Secretary         The space for the formation contained in the last Statement of Mormation filed with the California Secretary           of State, on a statement of Mormation contained in the last Statement of Information filed with the California Secretary         The space State P.O. Boxes.)           of State, check the low and proceed to them 17.         pield Addresses for the Following (D not adversia the name of the cit). Items 4 and 5 cannot be P.O. Boxes.)           context Adversary State (CA) State (				
This Space for Filing Use Only         T				
LLIFORNIA CORPORATE NUMBER         C3752657         This Space for Filing Use Only           Thange Statement (Not explicible if agent address of record is a P.C. Box address. See instructions.)         This have been any change in the information contained in the bast Statement of Information Filed with the California Secretary           If there have been any change in may of the information contained in the bast Statement of Information Filed with the California Secretary         State, or no state, in any of the information contained in the bast Statement of Information Filed with the California Secretary           If there have been any change in may of the information contained in the bast Statement of Information filed with the California Secretary         State, or no state, in any of the information contained in the bast Statement of Information filed with the California Secretary           If there have been any change in may of the information contained in the bast Statement of Information filed with the California Secretary         State, or no state, in any of the information contained in the california Secretary           If there have been any change in may of the information contained in the california Secretary         State, or no state, in any of the information contained in the california Secretary           If there have been any change in filed with the California Secretary         State				
There is a point (Not applicable (if agent address of record is a P.O. Box address. See instructions.)       There have been any changes to the information contained in the last Statement of Information filed with the California Secretary          If there have been any changes to the information contained in the last Statement of Information filed with the California Secretary         of State, check the box and proceed to them 17.         If there have been no change in any of the information contained in the last Statement of Information filed with the California Secretary         of State, check the box and proceed to them 17.         Ipted Addresses of PINICIPAL EXECUTIVE OFFICE       OTY         or Addresses of PINICIPAL EXECUTIVE OFFICE         OTH       SOMES BAR       CA         State, or no state       Some State, or no state       Some State         ADDRESS OF PINICIPAL EXECUTIVE OFFICE       OTY       STATE       ZIP CODE         SOMES BAR       CA       955568       Some State       ADDRESS         MALING ADDRESS OF ORNORATION, IF DIFFERENT THAN ITEM 4       OTY       STATE       ZIP CODE         STATE       ZIP CODE       SOMES BAR       CA       95568         MALING ADDRESS OF CORPORATION, IF DIFFERENT THAN ITEM 4       OTY       STATE       ZIP CODE         STATE       ZIP CODE       SOMES BAR       CA       95568         SIGNETARY       ADDRESS       COTY       STATE       ZIP C	LIFORNIA CORPORATE NUMI	SER (73757657		This Space for Filing Use Only
Hange Statusmins in Vitanges to the Information contained in the Let Statement of Information filed with the California Secretary         If there have been no charge in any of the Information contained in the last Statement of Information filed with the California Secretary         If there have been no charge in any of the Information contained in the last Statement of Information filed with the California Secretary         If there have been no charge in any of the Information contained in the last Statement of Information filed with the California Secretary         If there have been no charge in any of the Information contained in the last Statement of Information filed with the California Secretary         If there have been no charge in any of the abbreviate the name of the city. Items 4 and 5 cannot be P.O. Boxes.)         Integer Addresses of PRINCIPAL EXECUTIVE OFFICE       OTY       STATE       2// CODE         20 HWY 96       SOMES BAR       CA       95568         20 HWY 96       SOMES BAR       CA       95568         20 HWY 96       OTY       STATE       Z/P CODE         20 HWY 96       SOMES BAR       CA       95568         20 HWY 96       SOMES BAR       CA       95568         20 HWY 96       SOMES BAR       CA       95568         20 CILF       SCORES BAR       CA       95568         20 CILF       COLE       92520 HWY 96       SOMES BAR       CA       9	bases Statement (Not spoli	The if agent address of record is a P.O. Bo	x address. See instructions.)	
State, or no statement of information has been previously filed, this form must be completed in the california Secretary of State, check the box and proceed to Item 17.           If there has been no change in any of the information contained in the last Statement of Information filed with the California Secretary of State, check the box and proceed to Item 17.           Information file with the California Secretary of State, check the box and proceed to Item 17.           Information file with the California Secretary of State, check the box and proceed to Item 17.           CITY         STATE         ZIP CODE           CITY         STATE         ZIP CODE           SOMES BAR         CA         95568           SOMES BAR         CA         95568           CITY         STATE         ZIP CODE           Information must not be altered.)           CITY         STATE         ZIP CODE           CITY         STATE         ZIP CODE           OUGLAS T. COLE         92520 HWY 96         CITY         STATE         ZIP CODE           CHEE SECUTIVE OFFICEF          STATE <t< td=""><td>there have been any changes</td><td>to the information contained in the last</td><td>Statement of Information file</td><td>ed with the California Secretary</td></t<>	there have been any changes	to the information contained in the last	Statement of Information file	ed with the California Secretary
If there has been no change in any of the intormation contained in the last statement of international model and the international model international modeline international model international model international model in	f State, or no statement of inf	ormation has been previously filed, this	form must be completed in it	iled with the California Secretary
Distance of the Collowing (Do not abbreviate the name of the city). Items 4 and 5 cannot be P.O. Boxes.)       STREET ADDRESS OF PRINCIPAL EXECUTIVE OFFICE       OTY       STATE       ZIP CODE         STREET ADDRESS OF PRINCIPAL BUSINESS OFFICE IN CALIFORNIA, IF ANY       STATE       ZIP CODE       STATE       ZIP CODE         20 HWY 96       SOMES BAR       CA       955568       SCA       STATE       ZIP CODE         20 HWY 96       SOMES BAR       CA       95558       SCA       STATE       ZIP CODE         20 HWY 96       SOMES BAR       CA       95558       SCA       STATE       ZIP CODE         Inter and Complets Addresses of the Following Officers (The corporation must list these three officers. A comparable title for the specific care may be added; however, the preprinted titles on this form must not be altered.)       STATE       ZIP CODE         Inter EXECUTIVE OFFICERV       ADDRESS       CITY       STATE       ZIP CODE         CHIEF	If there has been no chang	e in any of the information contained in the in proceed to item 17.	iast statement of thornador in	ice was the objective occurring
Intel: Addresses of the Pollowing (to the opence)         City         STATE         ZIP CODE           20 HWY 96         SOMES BAR         CA         95568           City         STATE         ZIP CODE         STATE         ZIP CODE           20 HWY 96         SOMES BAR         CA         95568           MAILING ADDRESS OF PRINCIPAL BUSINESS OFFICE IN CALIFORNIA, IF ANY         City         STATE         ZIP CODE           MAILING ADDRESS OF CORPORATION, IF DIFFERENT THAN ITEM 4         City         STATE         ZIP CODE           MAILING ADDRESS OF CORPORATION, IF DIFFERENT THAN ITEM 4         City         STATE         ZIP CODE           City         STATE         ZIP CODE         City         STATE         ZIP CODE           City         STATE         ZIP CODE         City         STATE         ZIP CODE           City         ADDRESS         City         STATE         ZIP CODE         City         STATE         ZIP CODE           City         ADDRESS         City         STATE         ZIP CODE         City         STATE         ZIP CODE           City         SITE         SOMES BAR         CA         95568         City         STATE         ZIP CODE           City         SOMES BAR         CA	Ut State, check the ber the	leving (Do not abbreviate the name of the	tity. Items 4 and 5 cannot be P.	D. Boxes.)
20 HWY 96         SOMES BAR         CA         95588           STREET ADDRESS OF PRINCIPAL BUSINESS OFFICE IN CALIFORNIA, IF ANY         CTY         STATE         ZIP CODE           STATE Z ADDRESS OF PRINCIPAL BUSINESS OFFICE IN CALIFORNIA, IF ANY         CTY         STATE         ZIP CODE           MAILING ADDRESS OF CORPORATION, IF DIFFERENT THAN ITEM 4         CTY         STATE         ZIP CODE           Intege and Complete Addresses of the Following Officers (The corporation must list these three officers. A comparable title for the specific remay be added; however, the preprinted titles on this form must not be altered.)         STATE         ZIP CODE           CHEF EXECUTIVE OFFICER         ADDRESS         CTY         STATE         ZIP CODE           SCOREXAY         ADDRESS         CTY         STATE         ZIP CODE           SCOREXAY         ADDRESS         CTY         STATE         ZIP CODE           EDD A. COLE         92520 HWY 96         SOMES BAR         CA         95568           EDD A. COLE         92520 HWY 96         SOMES BAR         CA         95568           EDD A. COLE         92520 HWY 96         SOMES BAR         CA         95568           SCORES AS         CTY         STATE         ZIP CODE           State additional pages. if necesalary.i         CA         95568         <	TREET ADDRESS OF PRINCIPAL E	XECUTIVE OFFICE	CITY	STATE ZIP CODE
STREET ADDRESS OF PRINCIPAL BUSINESS OFFICE IN CALIFORMA, IF ANY       Cht       SUIT       CA       95568         20 HWY 96       SOMES BAR       CA       95568       SOMES BAR       CA       95568         mes and Complete Addresses of the Following Officers       (The corporation must list these three officers. A comparable title for the specific range be added; however, the preprinted titles on this form must not be started.)       STATE       ZIP CODE         OUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         OUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         EDI A. COLE       92520 HWY 96       CITY       STATE       ZIP CODE         ADDRESS       COMES BAR       CA       95568       CITY	20 HWY 96		SOMES BAR	CA 95568
AMILING ADDRESS OF CORPORATION, IF DIFFERENT THAN ITEM 4       CITY       STATE       ZIP CODE         Intege and Complete Addresses of the Following Officers (The corporation must list these three officers. A comparable title for the specific term my be added; however, the preprinted titles on this form must not be altered.)       STATE       ZIP CODE         CHEF EXECUTIVE OFFICERY       ADDRESS       CITY       STATE       ZIP CODE         SECRETARY       ADDRESS       CITY       STATE       ZIP CODE         SECRETARY       ADDRESS       CITY       STATE       ZIP CODE         CHEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         NAME       PODESS       CITY       STATE       ZIP CODE         NAME       ADDRESS       CITY       STATE       ZIP CODE         NAME       ADDRESS       CITY       STATE       ZIP CODE         NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY <td>STREET ADDRESS OF PRINCIPAL E</td> <td>USINESS OFFICE IN CALIFORNIA, IF ANY</td> <td>SOMES BAR</td> <td>CA 95568</td>	STREET ADDRESS OF PRINCIPAL E	USINESS OFFICE IN CALIFORNIA, IF ANY	SOMES BAR	CA 95568
Integration of the Following Officers (The corporation must list these three officers. A comparable title for the specific per may be added, however, the preprinted titles on this form must not be attered.)       OTY       STATE       ZIP CODE         OHEF EXECUTIVE OFFICER/       ADDRESS       OTY       STATE       ZIP CODE         SCRETARY       ADDRESS       OTY       STATE       ZIP CODE         SECRETARY       ADDRESS       OTY       STATE       ZIP CODE         SCRETARY       ADDRESS       OTY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         SCOMES BAR       CA       95568       CITY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         CA       95508       OTY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       PODRESS       CITY       STATE       ZIP CODE         CA       95568       OTY       STATE       ZIP CODE       ODE         STATE       92520 HWY 96       CITY       STATE       ZIP CODE         OUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         I. NAME       ADDRESS       C	AU HVYT 90	ON. IF DIFFERENT THAN ITEM 4	CITY	STATE ZIP CODE
mess and Complete Addresses of the Following Officers (The corporation must list these three officers. A comparable title for the specific cer may be added; however, the preprimted titles on this form must not be altered.)       STATE       ZIP CODE         CHIEF EXECUTIVE OFFICERV       ADDRESS       CITY       STATE       ZIP CODE         SECRETARY       ADDRESS       CITY       STATE       ZIP CODE         SECRETARY       ADDRESS       CITY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         PEDIA . COLE       92520 HWY 96       SOMES BAR       CA       95568         EIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         Mess and Complete Addresses of All Directors, Including Directors Who are Also Officers (The corporation must have at least on and corporation and the addresses).       CITY       STATE       ZIP CODE         NAME       SOMES BAR       CA       95568       CITY       STATE       ZIP CODE         NAME       SOMES BAR       CA       95568       CITY       STATE       ZIP CODE         NAME       SOMES BAR       CA       95568       CITY       STATE       ZIP COD	The stands to the a there has a the			
CHIEF EXECUTIVE OFFICER/       ADDRESS       CA       92520         OUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         ECIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         CA       92520 HWY 96       SOMES BAR       CA       95568         EIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         DOUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         OUGLAS T. COLE       92520 HWY 96       CITY       STATE       ZIP CODE         1. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS. IF ANY: <b>0</b>	mes and Complete Address per may be added; however, the p	es of the Following Officers (The corporeprinted titles on this form must not be altered	d.) CITY	STATE ZIP CODE
OUGLOSIT. COLL       ADDRESS       CITY       STATE       ZIP CODE         SECRETARY       92520 HWY 96       SOMES BAR       CA       95568         CHIEF FINANCIAL OFFICERY       ADDRESS       CITY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICERY       ADDRESS       CITY       STATE       ZIP CODE         CHIEF FINANCIAL OFFICERY       ADDRESS       CITY       STATE       ZIP CODE         HEIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         INTER additional pages. If necessary.)       ADDRESS       CITY       STATE       ZIP CODE         OUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         DOUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         DOUGLAS T. COLE       92520 HWY 96       CITY       STATE       ZIP CODE         1. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS. IF ANY: <b>O</b> In Address, a P.O. Box address is not acceptable. If the agent is an individual, the agent must reside in California and item 15 must be completed with a California Scoretary of State Address, a P.O. Box address IS ADRESENF <t< th=""><th>CHIEF EXECUTIVE OFFICER</th><th>92520 HWY 96</th><th>SOMES BAR</th><th>CA 95568</th></t<>	CHIEF EXECUTIVE OFFICER	92520 HWY 96	SOMES BAR	CA 95568
OLD A. COLE       92520 HWY 96       SUMME       STATE       ZIP CODE         CHIEF FINANCIAL OFFICER/       ADDRESS       CITY       STATE       ZIP CODE         HEIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         ames and Complete Addresses of All Directors, Including Directors Who are Also Officers       (The corporation must have at least on aready addresses of All Directors, Including Directors Who are Also Officers       (The corporation must have at least on aready addresses)         0, MARE       ADDRESS       CITY       STATE       ZIP CODE         1, NAME       ADDRESS       CITY       STATE       ZIP CODE         1, NAME       ADDRESS       CITY       STATE       ZIP CODE         2, NAME       ADDRESS       CITY       STATE       ZIP CODE         1, NAME       O       ADDRESS       CITY       STATE       ZIP CODE         2, NAME       ADDRESS       CITY       STATE	SECRETARY	ADDRESS	CITY SOMES BAR	CA 95568
CHIEF FINANCIAL OFFICER/ HEIDT A. COLE       ADDRESS 92520 HWY 96       SOMES BAR       CA       95568         ames and Complete Addresses of All Directors, including Directors Who are Also Officers (The corporation must have at least on rector. Attach additional pages, if necessary.)       STATE       ZIP CODE         0. NAME       ADDRESS       CITY       STATE       ZIP CODE         0. NAME       ADDRESS       CITY       STATE       ZIP CODE         0. NAME       ADDRESS       CITY       STATE       ZIP CODE         1. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NAME       ADDRESS       CITY       STATE       ZIP CODE         4. NAME       ADDRESS       CITY       STATE       ZIP CODE         1. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS. IF ANY:       O       Stationnia and Item 15 must be completed with a California sha address, a P.O. Box address is not acceptable. If the agent is an individual, the agent must reside in California and Item 15 must be completed with a California Secretary of State         14. NAME OF AGENT FOR SERVICE OF PROCESS	EIDI A. COLE	92520 HWY 96	CITY	STATE ZIP CODE
HEIDI A. COLE       Difference       CITY       State       ZIP CODE         armes and Complete Addresses of All Directors, Including Directors Who are Also Officers (The corporation must have at least on areast and differences).       State       ZIP CODE         armes and Complete Addresses of All Directors, Including Directors Who are Also Officers (The corporation must have at least on areast on areast on areast on areast on a state addresses of a state of a state addresses of a state of a state address of a state and a state and a state and a state of a state of a state of a st	CHIEF FINANCIAL OFFICER	ADDRESS 02570 HWY 96	SOMES BAR	CA 95568
ames and Complete Addresses of All Differences and the additional pages, if necessary.)       CITY       STATE       ZIP CODE         in MANE       92520 HWY 96       SOMES BAR       CA       95568         OUGLAST. COLE       92520 HWY 96       CITY       STATE       ZIP CODE         I. NAME       ADDRESS       CITY       STATE       ZIP CODE         OUGLAST. COLE       92520 HWY 96       SOMES BAR       CA       95568         I. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       O       O       State       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       O       O       O       State       State       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       O       O       O       State	HEIDI A. COLE	of All Directors, Including Directo	rs Who are Also Officers	(The corporation must have at least one
AUDIT Rectinication region       ADDRESS       SOMES BAR       CA       95568         DOUGLAS T. COLE       92520 HWY 96       SOMES BAR       CA       95568         I. NAME       ADDRESS       SOMES BAR       CA       95568         HEIDI A. COLE       92520 HWY 96       SOMES BAR       CA       95568         1. NAME       ADDRESS       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0       Image: Composition of the agent is an individual, the agent must reside in California and tham 15 must be completed with a California strate origination of the agent for Service of Process if the agent is an individual, the agent must reside in California and tham 15 must be completed with a California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address of AGENT FOR SERVICE OF PROCESS         DOUGLAS T. COLE       2000E       Somes BAR       CA       95568         14. NAME OF AGENT FOR SERVICE OF PROCESS       Somes BAR       CA       95568         DOUGLAS T. COLE       Somes BAR       CA       95568         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE	ames and Complete Addres	necessary.)	CITY	STATE ZIP CODE
MARLE       92520 HWY 90       CITY       STATE       ZIP CODE         1. NAME       92520 HWY 96       SOMES BAR       CA       95568         HEIDI A. COLE       92520 HWY 96       CITY       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0       0       0         13. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0       0       0         14. NAME       ADDRESS       CITY       STATE       ZIP CODE         15. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0       0       0       0         14. NAME OF Service of Process If the agent is an individual, the agent must reside in California and item 15 must be centificate pursuant to California Corporations Code section 1505 and item 15 must be left blank.       0 <td>NAME</td> <td>ADDRESS</td> <td>SOMES BAR</td> <td>CA 95568</td>	NAME	ADDRESS	SOMES BAR	CA 95568
I. NAME       PLOTES DAT.       SUMES DAT.         HEIDI A. COLE       92520 HWY 96       SUMES DAT.       STATE       ZIP CODE         2. NAME       ADDRESS       CITY       STATE       ZIP CODE         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       O         3. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       O         4. MARE       Address is not acceptable.       If the agent is an individual, the agent must reside in California and item 15 must be completed with a California Secretary of State         Agent for Service of Process       If the agent is another corporation, the agent must have on file with the California Secretary of State         44. NAME OF AGENT FOR SERVICE OF PROCESS       DOUGLAS T. COLE       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO	OUGLAS T. COLE	ADDRESS	CITY COMES BAD	CA 95568
HEIDI A. COLE       ADDRESS         2. NAME       ADDRESS         33. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0         13. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0         13. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0         Agent for Service of Process If the agent is an individual, the agent must reside in California and them 15 must be completed with a California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation is must be left blank.         certificate pursuant to California Corporations Code section 1505 and Item 15 must be left blank.         DOUGLAS T. COLE         State ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY         92520 HWY 96         State and         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMAGE         17. B	1. NAME	92520 HWY 96	CITY	STATE ZIP CODE
2. NUMBER OF VACANCIES ON THE BOARD OF DIRECTORS, IF ANY:       0         Agent for Service of Process if the agent is an individual, the agent must reside in California and them 15 must be completed with a California she address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State confidete pursuant to California Corporations Code section 1505 and Item 15 must be left blank.         14. NAME OF AGENT FOR SERVICE OF PROCESS       DOUGLAS T. COLE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       SOMES BAR       CA         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION CONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT.       Officity Signature         03/09/2015       John J. Stifter       Signature         03/09/2015	HEIDI A. LOLE	ADDRESS		
13. NUMBER OF VACANCIES ON THE BOARD OF Directions, in restrictions, in restriction, it is agent must have on file with the California Secretary of State address, a P.O. Box address is not acceptable. If the agent is another corporation, the agent must have on file with the California Secretary of State certificate pursuant to California Corporations Code section 1505 and Item 15 must be left blank.         14. NAME OF AGENT FOR SERVICE OF PROCESS       DOUGLAS T. COLE       State ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       SOMES BAR       CA       95568         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       The california Secretary of STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION FOR THE AND CORRECT.         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA THE STATEMENT STATEMENT STATEMENT, IS TRUE AND CORRECT.       SIGNAT	2, NAME	A DIRECTORS IF ANY: 0		with a California stre
Agent for Service of Process if the agent is an interest in the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporation, the agent must have on more address is not acceptable. If the agent is another corporations code section 1505 and item 15 must be left blank.         14. NAME OF AGENT FOR SERVICE OF PROCESS       Soft address is not acceptable. If the agent is another corporation. If an individual city state address is not acceptable. If the agent is another corporation is an individual city state. The corporation of the corporatin of the corporation of the corporation of	13. NUMBER OF VACANCIES ON T	te BOARD OF UIRECTOWN, which agent must	t reside in California and Item 15	file with the California Secretary of State
address, a P.O. Box address is Corporations Code section 1505 and light 15 meeter certificate pursuant to California Corporations Code section 1505 and light 15 meeter 14. NAME OF AGENT FOR SERVICE OF PROCESS DOUGLAS T. COLE 15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY STATE ZIP CODE 15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY CALIFORNIA SECRETARY OF 16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION 16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION 16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMA- 16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMA- 16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMA- 17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMA- 17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMA- 17. BY SUBMITTING HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT. CONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT. 03/09/2015 John J. SUBTER 7076/92/2015 JOHN J. AMAE OF PERSON COMPLETING FORM TITLE APPROVED BY SECRETARY OF	Agent for Service of Proces	of acceptable. If the agent is another corpo	nust be left blank.	
14. NAME OF AGENT FOR SERVICE OF PROCESS         14. NAME OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL CITY       STATE       ZIP CODE         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNY         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNY       Attorney       SIGNATURE         17. DOIND J.	address, a P.O. Box address is martificate pursuant to California (	Corporations Code section 1505 and herr 151		
DOUGLAS T. COLE         15. STREET ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA, IF AN INDIVIDUAL, CITY         SOMES BAR       CA 95568         92520 HWY 96         Type of Business         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION         'Ude ranch:         'Ude ranch:         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNY ATTACHMENTS, IS TRUE AND CORRECT.         ONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT.         ONTAINED HEREIN J. SUBMET NAME OF PERSON COMPLETING FORM         ONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT.         ONTAINED HEREIN J. SUBRENT	14. NAME OF AGENT FOR SERVIC	E OF PROCESS		STATE ZIP CODE
15. STREET ADDRESS OF AGENT FOR SERVICE OF MEDIA     SUFILIS BUSINESS       92520 HWY 96     92520 HWY 96       16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION       17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE OF STATE, THE SECRETARY OF STATE, T	DOUGLAST. COLE	FOR SEPARCE OF PROCESS IN CALIFORNIA, IF	AN INDIVIDUAL CITY	CA 95568
92520 HWY 96         Type of Business         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION SECRETA	15. STREET ADDRESS OF AGENT	FUR DERVICE OF THE DEFENS	SUPILS LA	
Type of Business         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION         16. DESCRIBE THE TYPE OF BUSINESS OF THE CORPORATION         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION         17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION CONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT.         03/09/2015       John J. Stifter         03/09/2015       John J. Stifter         DYDE/REINT NAME OF PERSON COMPLETING FORM       TITLE         APPROVED BY SECRETARY OF       APPROVED BY SECRETARY OF	92520 HWY 96			
16. DESCRIBE THE TYPE OF DESCRIPTION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF STATE, THE CORPORATION CERTIFIES THE INFORMATION TO THE CALIFORNIA SECRETARY OF ITTLE         17. BY SUBMITTING THE STATEMENT, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT.       Attorney       SIGNATURE         03/09/2015       John J. Stifter       Attorney       Attorney       SIGNATURE         DISTRIBUTION TO THE CERTIFIC FORM       TITLE       APPROVED BY SECRETARY OF	Type of Business	INESS OF THE CORPORATION		CEPTELES THE INFORMA
17. BY SUBMITTING THIS STATEMENT OF INFORMATION TO THE ODD CORRECT. CONTAINED HEREIN, INCLUDING ANY ATTACHMENTS, IS TRUE AND CORRECT. O3/09/2015 John J. Stifter O3/09/2015 JOHN J. Stifter DISTRIBUT NAME OF PERSON COMPLETING FORM TITLE APPROVED BY SECRETARY OF	Life. DESCRIBE THE TYPE OF BOX	THE CALIFORN	A SECRETARY OF STATE, THE	
17. BT SOUTAINED HEREIN, INCLUDING ANT AT LACT MEDICAL ACTION ALLOTTING FORM     Attorney     SIGNATURE       03/09/2015     John J. Stifter     SIGNATURE     TITLE     APPROVED BY SECRETARY OF	THIS SUPARTING THIS STAT	EMENT OF INFORMATION TO THE CALIFORNI	CT.	18:n4 55
03/09/2015 JOHN J. SUILE APPROVED BY SECRETART OF	17. BY SUBMED HEREIN, INCLU	DING ANT AL MOTING CONTRACTOR	TITLE	SIGNATURE
	03/09/2015 John J.	PRINT NAME OF PERSON COMPLETING FORM		APPROVED BY SECRETARY OF
	51-200 (1024 0 1124			003467

Secretary of State

5304693321



Last statement filed on: 9/17/2016

	Corporation	
MARBLE MOUNTAI	IN RANCH INC.	ng mana ang kanang k
Number: C3752657	Incorporation Date:2/2/2015	Status:Active
Jurisdiction: CA	Type: Domestic Stock	
	Address	
92520 HWY 96,		
SOMES BAR, CA 95	568	
	Agent For Service Of Process	
DOUGLAS T COLE		
92520 HWY 96,		
SOMES BAR, CA 95	568	and a second of a second data is a second of the second of the second of the second data and the second data as

Please review this information to determine if you have located the correct corporation. The corporation is not yet due to file the required statement; therefore, this filing must be filed either by mail or at our public counter in Sacramento. Refer to <u>Statement of Information</u> for the forms and instructions.

Search Results New Search

12/14/16 10:57 AM

### Marble Mountain Ranch Back-Country Trail Use - 2016

Start				Exit Trail	#	#	Gross
Date	Trail Head	Destination	# Davs	Head	Stock	Clients	Income
4/20	Bull Pine	MMR	1 hr	MMR	5	4	\$180
4/21	ranch river	MMR	1 hr	MMR	5	4	\$180.00
4/22	Bald Butte	MMR	1hr	MMR	5	4	\$180.00
5/20	Bull Pine	MMR	1hr	MMR	5	4	180
5/21	ranch river	MMR	1hr	MMR	5	4	180
5/28	Bald Butte	MMR	1hr	MMR	7	6	270
5/29	Bull Pine	MMR	1hr	MMR	7	6	270
6/1	ranch river	MMR	1hr	MMR	8	7	315
6/2	Bald Butte	MMR	1hr	MMR	8	7	315
6/8	Bull Pine	MMR	1hr	MMR	11	9	405
6/9	Bald Butte	MMR	1hr	MMR	11	9	405
6/10	Bull Pine	MMR	1hr	MMR	11	9	405
6/15	ranch river	MMR	1hr	MMR	23	20	900
6/16	Bald Butte	MMR	1hr	MMR	23	20	900
6/17	ranch river	MMR	1hr	MMR	23	20	900
6/22	Bull Pine	MMR	1hr	MMR	35	29	1305
6/23	Bald Butte	MMR	1hr	MMR	35	29	1305
6/24	Bull Pine	MMR	1hr	MMR	35	29	1305
6/29	ranch river	MMR	1hr	MMR	39	34	1530
6/30	Bald Butte	MMR	1hr	MMR	39	34	1530
7/1	ranch river	MMR	1hr	MMR	39	34	1530
7/6	Bull Pine	MMR	1hr	MMR	39	33	1485
7/7	ranch river	MMR	1hr	MMR	39	33	1485
7/8	Bull Pine	MMR	1hr	MMR	39	33	1485
7/13	Bull Pine	MMR	1hr	MMR	42	36	1620
7/14	Bald Butte	MMR	1hr	MMR	42		1620
7/15	ranch river	MMR	1hr	MMR	42	36	1620
7/20	Bull Pine	MMR	1 hr	MMR	38	32	1440
7/20	Bald Butte	MMR	1 hr	MMR	38	32	1440
7/22	ranch river	MMR	1 hr	MMR	38	32	1440
7/27	Bull Pine	MMR	1 hr	MMR	38	32	1440
7/28	Bald Butte	MMR	1 hr	MMR	38	32	1440
7/20	Bull Pine	MMR	1 hr	MMR	38	32	1440
8/3	ranch river	MMR	1 hr	MMR	40	34	1530
8/4	Bald Butto	MMR	1 hr	MMR	40	34	1530
<u>8/5</u>	ranch river	MMR	<u>1 hr</u>	MMR	40	34	1530
8/10		MMR	1hr	MMR		27	1485
8/11	Bald Butte	MMR	1hr	MMR	30	 	1485
8/12	Ranch River	MMR	1hr	MMR	30	 	1485
8/17		MMR	1hr	MMR	35		1 3 9 2
8/18	Bald Butto	MMR	1hr	MMR	37	31	1395
8/19	Ranch River	MMR	1hr	MMR	37		1395
8/24	Bull Dine	MMP	1hr	MMR	21		855
8/25	Bald Butto	MMD	1hr	MMP	21	19	855
8/25	Ranch Diver	MMR	1hr	MMR	21	19	855 855
Q/20	Bull Dino	MMR	1br	MMR	<u> </u>	19	405
	Bald Butto	MMP	1 hr	MMR	12	9	405
	Panch Divor	MMR	1 III	MMR	12	9	405
	Bull Dipo	MMD	1 br	MMD	- 12	9 	405
/ <del>اد</del> ۱۵/۵	Bald Butto	MMD	1 hr	MMP		<del>ل</del>	270
<u> </u>	Ranch River	MMR	1 hr	MMR	7	<u>ہ</u>	270
ע (כ ו	INALICH KIVEL	ICIEUX	1 I I I	ITHTIN .	/	ן ט	2/0

<u> </u>					<u> </u>			
					+	<u> </u>		
Juli Pine	trail needs ac	ditional tread	d work rej	pairs for 2017	and addi	tional brus	h clearing.	
Bull Pine	l / Irving creek	l ( / ranch rive	l r trail ride	l es = All 1 hr ri	l ides are b	Lased on \$4	l 15/hr	
Total Volu	inteer Trail h	ours by MMR	staff for 2	2016 =285 ho	ours			
Note: ma	ximum group	size is 12 gu	lests and	2 wranglers, s	so dates v	 vith large r	numbers illu	 Istrate our ro 
L Totals:	I		0	<u> </u>		\$1,117	\$50,265	

Submitted By:

Name\_\_\_\_ Doug Cole

Compan MMR Date\_\_\_\_ #####

### Marble Mountain Ranch Back-Country Trail Use - 2015

Start		T		Exit Trail	#	#	Gross
Date	Trail Head	Destination	# Davs	Head	Stock	<i></i> Clients	Income
5/13	Bull Pine	MMR	1 hr	MMR	11	7	\$280
5/14	ranch river	MMR	1 hr	MMR	11	7	\$280.00
5/20	Bald Butte	MMR	1hr	MMR	4	3	\$120.00
5/21	Bull Pine	MMR	1hr	MMR	4	3	120
5/23	ranch river	MMR	1hr	MMR	4	3	120
5/27	Bald Butte	MMR	1hr	MMR	7	5	200
5/28	Bull Pine	MMR	1hr	MMR	7	5	200
6/3	ranch river	MMR	1hr	MMR	8	6	240
6/4	Bald Butte	MMR	1hr	MMR	8	6	240
6/5	Bull Pine	MMR	1hr	MMR	8	6	240
6/10	Bald Butte	MMR	1hr	MMR	12	19	760
6/11	Bull Pine	MMR	1hr	MMR	12	19	760
6/12	ranch river	MMR	1hr	MMR	12	19	760
6/17	Bald Butte	MMR	1hr	MMR	12	25	1000
6/18	ranch river	MMR	1hr	MMR	12	25	1000
6/19	Bull Pine	MMR	1hr	MMR	12	25	1000
6/24	Bald Butte	MMR	1hr	MMR	10	10	400
6/25	Bull Pine	MMR	1hr	MMR	10	10	400
6/26	ranch river	MMR	1hr	MMR	10	10	400
7/1	Bald Butte	MMR	1hr	MMR	12	24	960
7/2	ranch river	MMR	1hr	MMR	12	24	960
7/3	Bull Pine	MMR	1hr	MMR	12	24	960
7/8	ranch river	MMR	1hr	MMR	8	8	320
7/9	Bull Pine	MMR	1hr	MMR	8	8	320
7/10	Bull Pine	MMR	1hr	MMR	8	8	320
7/15	Bald Butto	MMR	1hr	MMR	12	16	640
7/16	ranch river	MMR	1hr	MMR	12	16	640
7/17	Bull Pine	MMR	1 hr	MMR	12	16	640
7/22	Bald Butto	MMR	1 hr	MMR	12		1200
7/22	ranch river	MMR	1 hr	MMR	12	30	1200
7/23	Bull Dine	MMR	1 hr	MMR	12	30	1200
7/24	Bald Butto	MMP	1 hr	MMR	12		1160
7/30	Bull Dine	MMR	1 hr	MMR	12	29	1160
7/30	ranch river	MMP	1 hr	MMP	6	29	1160
8/5	Bald Butto	MMR	1 hr	MMR	13	25	1040
8/6	ranch river	MMD	1 hr	MMD	13	20	1040
8/7	Bull Dino	MMD	1 m 1 hr	MMP	12	20	1040
9/12	Bald Butto	MMD	10r	MMD	13	20	920
9/12	Banch Bivor	MMD	1111 1br		12	23	920
0/13	Rull Dino	MMD	1111 1.hr		12	23	920
0/14	Bald Butto		1111 1.h.r		12	21	920
<u> </u>	Banch Bivor		1111 1 br		12		1240
0/20	Ranch River		100		12		1240
0/21			1111 1br		12		1240
0/20			1111 1 br			0	240
<u>۲ /۵</u>			1111		0	6	240
8/28		MIMIK	TUL	MIMIK	6	6	240
Pinea	nd Bald Butt	e trail needs a	dditional	tread work re	pairs for	2015 and	brush cleari
Bull Pine	/ Irving creek	/ ranch river	trail ride	s = All 1 hr rid	des are ba	ased on \$4	0/hr

Total Volunteer Trail hours by MMR	staff for 2015 = 250			
Client numbers are more than stoc	k numbers since we rot	ate riders	onto the s	ame animals
istals:	0	228	357	31680

Submitted By:

(

Name\_\_\_\_ Doug Cole

Compan MMR Date\_\_\_\_ #####

#### SIX RIVERS NATIONAL FOREST Special Use Activities Summary- Marble Mountain Ranch (MMR) Year: 2016

Le Schedule Options: (Please check one)

#### - USE LEAST EXPENSIVE OPTION PLEASE

???

Option A-Based on average adjusted service day client charge using schedule of rates. Option B-Based on 3% of annual adjusted gross revenue.

	P	PUT-IN		TAKE-OUT		
					Number of	Daily Charge Per
River	Date	Location	Date2	Location2	Clients	Client Per Day
klamath	22-Apr	PERSIDO	21-Apr	SANDY BAR	7	7 X \$75 = \$525
klamath	20-May	PERSIDO	20-May	SANDY BAR	4	4 X \$75 = \$300
Klamath	28-May	PERSIDO	28-May	SANDY BAR	7	7 X \$75 = \$525
klamath	7-Jun	PERSIDO	7-Jun	SANDY BAR	9	9 X \$75 = \$675
klamath	14-Jun	PERSIDO	14-Jun	SANDY BAR	20	20X \$75 = \$1500
klamath	21-Jun	PERSIDO	21-Jun	SANDY BAR	25	25 X \$75 = \$1875
klamath	28-Jun	PERSIDO	28-Jun	SANDY BAR	25	25 X \$75 = \$1875
klamath	5-Jul	PERSIDO	5-Jul	SANDY BAR	22	22 X \$75 = \$1650
klamath	12-Jul	PERSIDO	12-Jul	SANDY BAR	24	24 X \$75 = \$1800
klamath	19-Jul	PERSIDO	19-Jul	SANDY BAR	21	21 X \$75 = \$1575
klamath	26-Jul	PERSIDO	26-Jul	SANDY BAR	24	24 X \$75 = \$1800
klamath	2-Aug	PERSIDO	2-Aug	SANDY BAR	23	23 X \$75 = \$725
klamath	9-Aug	PERSIDO	9-Aug	SANDY BAR	25	25 X \$75 = \$1875
klamath	16-Aug	PERSIDO	16-Aug	SANDY BAR	32	32 X \$75 = \$2400
klamath	22-Aug	PERSIDO	22-Aug	SANDY BAR	19	19 X \$75 = \$1425
nath	1-Sep	PERSIDO	9//2016	SANDY BAR	12	12 X \$75 = \$900
klamath	7-Sep	PERSIDO	7-Sep	SANDY BAR	7	7 X \$75 = \$525
AND DESCRIPTION OF			States and states			
	- Established			and a real from the second		
			14 States and			
		C sold block should be	and the second			
			Sector Analysis			
				No. of Case of		
	R REAL PROPERTY		distant and the			
			The second second	Contraction of the second		
		a faile and and		Providence and		
		The Assessment				
TOTALS:					306	\$21,950

f `mitted by : Doug Cole

N.... ble Mountain Ranch 2016

#### KLAMATH NATIONAL FOREST Special Use Activities Summary-Guided Fishing Year: 2016

Schedule Options: (Please check one)

Option A-Based on average adjusted service day client charge using schedule of rates. Option B-Based on 3% of annual adjusted gross revenue.

	PUT-IN		TAKE-OUT				
River	Date	Location	Date2	Location2	Number of Clients	Daily Charge Per Client Per Boat Day	
	an a	September 1975			2012-04300. - Al-Marcine - Al-C		
	Martin Birt	in defining to the second s	n an		and the second se		
klamath		di bar			- 1		
klamath	1-0d	coon	1-Oct	persido	1	\$400.00	
	C.O.	ii bar	6.01				
klamath	7-00	coon	7-0ct	persido	2	\$400.00	
			1		2		
klamath	9-Oc	ti bar	9,05	stewarts bar	2 2	\$450.00	
Handa .			10-014		2		
klamath	20-Oct	ti bar -	20-Oct	stewarts bar	4	\$450.00	
(chan)			21-04		2	450.00	
klamath	25-Oct	ti bar	25-Oct	stewarts bar	2	\$450.00	
kt-math	22.05	ner to	10/201/P.O	cotan 👘 👘	2	250.00	
l jath	28-Oc	ti bar	28-Oct	stewarts bar	2 <b>2</b>	\$450.00	
					1		
klamath	29-Oct	ti bar	29-Oct	stewarts bar	2	\$450.00	
					2		
klamath	3-Nov	coon	3-Nov	persido	2	\$450.00	
		i en en el			2		
klamath	8-Nov	coon	8-Nov	persido	2	\$450.00	
					2		
klamath	9-Nov	<b>i ti bar</b>	9-Nov	stewarts bar	2	\$450.00	
		bour -			2		
klamath	10-Nov	ti bar	10-Nov	stewarts bar	2	\$450.00	
					2		
klamath	13-Nov	coon	######	persido	2	\$450.00	
					= 2		
klamath	18-Nov	rti bar		stevate bar	2	\$450.00	
		z (azalatika) A statuszt a szaradáságai			2		
klamath	19-Nov	ti bar		stewarts bar	1. 1	\$350	

ALS:

53

\$12,300.00

Submitted By Doug Cole

3

#### KLAMATH NATIONAL FOREST Special Use Activities Summary-Guided Fishing Year: 2015

Lee Schedule Options: (Please check one)

Option A-Based on average adjusted service day client charge using schedule of rates. Option B-Based on 3% of annual adjusted gross revenue.

	PUT-IN		TAKE-OUT				
River	Date	Location	Date2	Location2	Number of Clients	Daily Charge Per Client Per Boat Day	
			考したり、シュージングである。 「「「AFF」の第二人である。 「「AFF」の第二人である。	en artaitean an ann an		<ul> <li>J. M. Barris, C. M. A. Martin, C. Martin, C. M. Barris, C.</li></ul>	
				- 1994) - 1994 - 1995 -	7.5388 (). (4.17)		
klamath	6-04	li bar 👝 🚲	<u>6-0d</u>			\$400.00	
klamath	5-Oct	coon	5-0ct	persido	<b>1</b>	\$400.00	
						<b>\$100.00</b>	
klamath	13-Oct	ti bar	13-Oct	stewarts bar	2	\$400.00	
Receipt.			14.05		2		
klamath	15-Oct	coon	14-64	persido	2	\$400.00	
llanath	<b>16-0</b> 4	com -	16-6-1		2	<b>10.00</b>	
klamath	17-Oct	: ti bar	17-Oct	stewarts bar	4	\$800.00	
Ranati	20-561	persido ac	25-5(1)		2	\$100.00	
klamath	2-Nov	ti bar	2-Nov	stewarts bar	10-15 <b>2</b>	\$400.00	
klamath	25-03		25-05	buon		00.0254	
l nath	15-Oct	ti bar	15-Oct	stewarts bar	2	\$400.00	
låmstå	3.65	0101	3-1107		1		
klamath	31-Oct	ti bar	31-Oct	stewarts bar-	2	\$400.00	
Reacto		litar .			2		
klamath	23-Oct	coon	23-Oct	persido	2	\$400.00	
		ST. L. M.L. C.	2.00		2		
klamath	25-Oct	coon and a	25-Oct	persido	2 miles 7	2400.00	
<b>danah</b>			2.01		<b>.</b>		
klamath	23-Oct	sandy bar	23-Oct	stewarts bar	2	\$400.00	
		nen -	25-0.0		2 2		
klamath	27-Oct	ti bar —	27-Oct	stewarts bar	- 2	\$400.00	
Name ()	20,00				2		
klamath	29-Oct	COON	*****	persido	2 JUNE 2	\$400.00	
					2		
klamath	31-Oct	ti bar	*****	stewarts bar	2	\$400.00	
Roman			SETPIPIOLS		<b>2 7</b>		
klamath	3-Nov	ti bar	11/3/2015	stewarts bar-	2	\$400	
<b>daman</b>	- <b>0 0</b>	Dor man	10//and		2 1 2		
			a water a stand of a		Standard Standards		
				and the second			
	dia estructoria				- April 1 and 1 and		
				ender State			
<ul> <li>A second state of gate interview. All</li> </ul>	<ul> <li>Second Construction</li> </ul>	⊈∎ra ana ing	<ul> <li>The second second</li></ul>	<ul> <li>A 1990 Contract of the State</li> </ul>	<ul> <li>A set of a strategie description</li> </ul>	<ul> <li>A second state and state and states and states are stated as a second state of the state of the</li></ul>	

ALS:

55

\$11,900.00

Submitted By Doug Cole

3

#### **KLAMATH NATIONAL FOREST** Special Use Activities Summary- Marble Mountain Ranch (MMR) Year: 2016

ree Schedule Options: (Please check one)

#### - USE LEAST EXPENSIVE OPTION PLEASE

???

Option A-Based on average adjusted service day client charge using schedule of rates. Option B-Based on 3% of annual adjusted gross revenue.

	PUT-IN		TAKE-OUT			
Divor	Date	Location	Date?	Location2	Number of	Daily Charge Per Client Per Day
				Location2	7	
Idamath	22-Apr	indian	22-Apr	wingate	7	
			71-Day	CTTTT .		
klamath	29-May	independenc	29-May	COOR	7	7 X \$75 = \$525
	2.1m				5	SX675 = S < 75
klamath	8-Jun	Ferry Point	8-Jun	coon	9	9 X \$75 = \$675
	TOBIN		5(020m		9	
klamath	15-Jun	lindian	1.5-Jun	wingate	12	12 X \$75 = \$900
					15	
klamath	22-Jun	Ferry Point	22-Jun	coon	24	24-X-\$75 = \$1800
Hannath.	<b>24-1</b> 0		X-Din 4		22	ZXYZ SELED
klamath	29-Jun	independenc	29-Jun	соол	25	25 X \$75 = \$1875
Remeth	1-14	indan	1-bd	onnuste -	2	
klamath	6-Jul	independence	6-Jul	coon	22	22 X \$75 = \$1650
P-math	8-24	indian.	0.00	toingle .	22	24475=416-0
l nath	<b>13</b> -Jul	independenc	<b>13-Jul</b>	coon	24	24 X \$75 = \$1800
Hannath	15-11	(Creation	15-11		- 23 -	2.475-174
klamath	20-Jul	independence	20-Jul	coon	21	21 X \$75 = \$1575
	22-bi				21	
klamath	27-Jul	independence	27-Jul	coon	- 24	24 X \$75 = \$1800
					- 23	7.4 . 7.4 <b>.</b>
klamath	3-Aug	independence	3-Aug	coon	- 23	23 X \$75 = \$1725
					24	
klamath	10-Aug	independence	10-Aug	coon	-25	25 X \$75 = \$1875
			1220		<b>B</b>	
klamath	12-Aug	indian	12-Aug	wingate	16	16 X \$75 = \$1200
	17-209		174.0	den 👘	20	
kamath	17-Aug	independenc	<b>17-Aug</b>	COON	12	12X\$75 = \$900
					19	
klamath	19-Aug	indian	19-Aug	wingate when	12	12X\$75=\$900
					9	
klamath	26-Aug	indian	826/2016	wingate	19	19 X \$75 = \$1425
					9 34	
klamath	2-Sep	indian	2-Sep	wingate	12	12 X \$75 = \$900
	8-Sep	<b>Inden</b>	<b>(2-5-c)</b>	whyste	7	
TOTALS:					<u> </u>	\$43,350

mitted by : Doug Cole

burble Mountain Ranch 2016

#### KLAMATH NATIONAL FOREST Special Use Activities Summary- Marble Mountain Ranch (MMR) Year: 2015

Fee Schedule Options: (Please check one)

#### - USE LEAST EXPENSIVE OPTION PLEASE

???

\_Option A-Based on average adjusted service day client charge using schedule of rates. \_Option B-Based on 3% of annual adjusted gross revenue.

	P	UT-IN	TA	KE-OUT	]	
					Number of	Daily Charge Per
River	Date	Location	Date2	Location2	Clients	Client Per Day
				rim	5	
klamath	- 3-Jun	independenc	3-Jun	COON HE WAR	7	7 X \$75 = \$525
Kennen h	5-lin		5 ha		2	ZYNE IN THE
klamath	9-Jun	Persido	9-Jun	sandy bar	14	14 X \$75 = \$1050
Manath.	10-366			Cum.	<b>14</b>	IC NG 755 - FUSI
klamath	13-Jun	indian	13-Jun	wingate	14 and and	14 X \$75 = \$1050
	16-bm		16-Jan		25	
klamath	17-Jun	independence	17-Jun	COON	25	25 X \$75 = \$1875
denseth .	20-345				- 23 -	FERRE TENT
klamath	23-Jun	Persido	23-Jun	sandy bar	10	10 X \$75 = \$750
Line and	29-10			COST	10	NUMEYS - YAU
klamath	26-Jun	indian	26-Jun	wingate	8	8 X \$75 = \$600
Beauty	1-01		<b>2-10</b>	STATISTICS.	25	732 6 768 - 11761
klamath	- <b>3-Jul</b>	independence	3-Jul	coon	24	24 X \$75 = \$1800
Panalt	<b>4-1</b> 4				- 24	
l nath	7-Jul	Persido	7-Jul	sandy bar	9	9 X \$75 = \$675
	8.Jul -		5-bi	CONT	9	DISTRIBUTION
klamath	10-Jul	indian	10-Jul	wingate	9	9 X \$75 = \$675
			<b>JOH</b>		16	31.5.4.7.5.5.7.2.11
klamath	<b>15-Jul</b>	independence	15-Jul	COON	16	16 X \$75 = \$1200
			ICH.		16	
klamath	23-Jul	independence	23-Jul	coon	- 26	26 X \$75 = \$2950
	14-14				5	7 45 9 3. 7 85 <b>9 4</b> 17 7 81 <b>9</b> 19
klamath	28-Jul	persido	28-Jul	sandy bar	25	25 X \$75 = \$1875
<b>Support</b>	250			GINA	- 25	
klamath	31-Jul	indian	31-Jul	wingate	26	26 X \$75 = \$1950
Komen .	Che -			Contraction of the	16	
klamath	5-Aug	independence	5-Aug	coon	16	16 X \$75 = \$1200
	7.05				2	LEVE THE WAR
klamath	11-Aug	Persido	11-Aug	sandy bar	26	26 X \$75 = \$1950
Constant Constant	122.00				26	
klamath	15-Aug	indian	15-Aug	wingate	26	26 X \$75 = \$1950
TOTALS:				· · · · · · · · · · · · · · · · · · ·	565	\$41,175

Submitted by : Doug Cole Marble Mountain Ranch 2015

#### **Kerry Fuller**

irom: Sent: To: Subject: Barbara Brenner Thursday, December 08, 2016 2:18 PM Kerry Fuller Fwd: Use of Marble Mountain Guest Ranch for Fire's

Barbara A. Brenner | Partner T 916.468.0625 | <u>barbara@churchwellwhite.com</u>

Churchwell White LLP <u>1414 K Street, 3rd Floor, Sacramento, CA 95814</u> M 916.995.7314 | F 916.468.0951 <u>churchwellwhite.com</u>

Begin forwarded message:

From: Marble Mountain Ranch <<u>guestranch@marblemountainranch.com</u>> Date: December 8, 2016 at 3:18:39 PM CST To: Barbara Brenner <<u>Barbara@churchwellwhite.com</u>> Subject: Fwd: Use of Marble Mountain Guest Ranch for Fire's

FYI - regarding the waterboard questioning fire camps at MMR. Doug

Begin forwarded message:

From: "Markin, David -FS" <<u>dmarkin@fs.fed.us</u>> Subject: Use of Marble Mountain Guest Ranch for Fire's Date: December 8, 2016 at 12:53:57 PM PST To: "Douglas Cole (<u>guestranch@marblemountainranch.com</u>)" <<u>guestranch@marblemountainranch.com</u>>

I David Markin the district fire management officer on the Orleans/ Ukonom ranger district have worked in this area for the Forest Service for 29 years. I would like to state that we as an agency utilize Marble Mountain Ranch numerous times in the past as a fire camp to house helicopters as well as firefighters. This service that has been provided to us the Forest Service is very appreciated and will continue in the future as we live in a very pronounced fire environment.

We have used this ranch in 2008 for the complex fires in our area namely the Siskiyou and Blue 2 fires, 2015 was the most resent with the Nickowitz fire. There have been several other occasions were the ranch has provided us service. Time frames vary from 5 to 35 days at a time.

If you have any more questions feel free to contact me direct my information is below, thanks David Markin.

1

David Markin District Fire Management Officer Forest Service Six Rivers National Forest Service P: 530-627-3263 C: 707-496-2486 F: 530-627-0064 dmarkin@fs.fed.us 1 Ishi Pishi Rd. Orleans Ca, 95556 www.fs.fed.us

(

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.

2

### PRELIMINARY PLANS FOR Marble Mountain Ranch Consumptive Use Pipeline and Intake

July 2016

#### SHEET INDEX

TITLE SHEET	
PLAN SHEET	
PIPE PROFILE SHEET	
INTAKE AND SCREEN DETAIL SHEET	

#### GENERAL NOTES

INTERVAL THE TELES OR THE AND SURVEYING AND CASCADE STREAM SOLUTIONS SURVEYS CONDUCTED IN 2014. MARBLE MONTAIN RANCH MAINTENANCE ACTIVITIES MAY HAVE ALFERE DICH INNER TEXTIGUES SOLUTIONS SURVEYS CONTACTOR SHALL MOTIFY MAKING & CONTRACTOR INCIDES DISCREPANDES BETWEEN THE PLANS AND THE DITCH PROFILE.

 CONTRACTOR SHALL NOTIFY USA NORTH AT BIL OR 1-800-227-2600 OR WWW.USANORTH.ORG TO REQUEST DENTRICATION AND LOCATION OF DOSTING UNDERORGUND UTULITIES. CONTRACTOR SHALL CONTACT USA NORTH 2 TO 14 DAYS BEFORE PLANNED EXCAVATION DATE.

3. This project man be subject to required by a project is subject of the subject to required by the subject to required by the subject to require the subject of the reprinting the subject of the reprint. The subject is the subject of the reprint. The subject is the subject of the reprint. The subject is the subject of the reprint of the reprint of the subject of the subject of the reprint of the subject of the reprint of the subject of the reprint of the subject of the subject of the reprint of the subject of

THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING SEDIMENT OR POLLUTANTS FROM LEAVING THE WORK AREA.

4. WHEN CONDITIONS IN THE FIELD DO NOT CONFORM WITH INFORMATION IN THESE PLANS AND/OR WHEN UNUSUAL CIRCUMSTANCES AND/OR WHEN INVESTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY CONTRACT THE OWNER'S REPRESENTATIVE.

S.IN THE EVENT THAT ANY ARCHEOLOGICAL ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL STOP ALL WORK IMMEDIATELY IN THE AREA AND DONTACT THE DWING'S REPRESENTATIVE. WORK IN THE AREA SHALL NOT RESUME UNTIL APPROVED BY THE OWNER'S REPRESENTATIVE.

OREGON OUNSMUR Project RED BLIN Location NEVADA NEVADA SACRAMONTA STOCKTON Leonard Joey Howard (dote) CALIFORNIA REGISTERED PROFESSIONAL ENGINEER NO. # 53319 Cancode Stream Solutions, LLC

Date

Approved by:

Mid-Klamath Watershed Council:

Date

$\sim$		· · · · · · · · · · · · · · · · · · ·		Diawing information		Revisions				JOD NUMPER
	Mid-Klamath vvatersned Council	Cascado Stroa	am Solutions	Dete	1 April 2016	No. Def	e Description	3 1	Marble Mountain Ranch	2015-115
States of the	P.O. Box 409	Cascade Slies		Status	PRELIMINARY	$ \rightarrow $		-	Consumptive Lles Bineline and Intele	Sheet Number
	Orleans, CA 95556	295 East Main. Suite 11	and the second	Designer	jh	$\vdash$		DRECOMONIDE	Consumptive Use Pipeline and intake	
THE SECOND		Ashland, Oragon 97520	2.5	Drafter	jh		- 2/4	TTOP OF COPPOSE		
		Phone: (541) 864-0492		Checked			-70	1 FORCONSTRUCTOR	fitle Sheet	1 1
			Lascaue	File Name	Marble Mountain Pipeline			4 1		
			STREAM SOLUTIONS	Disting Scale	0 1/2 1	$\rightarrow$	+	4 1		
				PROLEG SCAR	the same law of the		1	1		Sheet 1 of 4







#### **Proposal Application Form**

#### Section 1: Summary Information

- 1. Applicant name: Mid Klamath Watershed Council
- 2. Contact person: Will Harling
- 3. Address: Box 840
- 4. City: Somes Bar
- 5. State: CA
- 6. <u>ZIP</u>: 95568
- 7. <u>Telephone number</u>: (530) 469-3216
- 8. FAX number: (530) 469-3372
- 9. Email address: wharling@sisqtel.net

10. Type: Public Agency 🗌 Nonprofit Organization 🛛 Private Enterprise 🗍 Indian Tribe 🖾

- 11. <u>OSBCR Certified Small Business</u>? <u>If yes, specify the industry group and Small Business Reference Number</u>:
- 12. Past contractor?
- 13. Federal taxpayer ID: 20-1501256
- 14. Project type: Water Conservation
- 15. Project title: 2004 Stanshaw Creek Water Conservation Project Phase I
- Amount requested:
- 17. Total project cost:
- 18. Salmonid species benefited: Chinook 🛛 Coho 🖾 Steelhead 🖾 Cutthroat 🗌

19. <u>Project summary</u>: This project will pipe return water diverted from Stanshaw Creek to Marble Mountain Ranch for power generation back to Stanshaw Creek. Currently as much as 3 cfs is diverted via ditch out of the Stanshaw Creek basin into Irving Creek.

- 20. Stream: Stanshaw Creek
- 21. <u>Tributary to</u>: Klamath River
- 22. Major drainage system: Klamath River
- 23. County(ies): Siskiyou

24. Within Coastal Zone? Within Trinity River basin? Within Klamath River basin?

#### Section 2: Location Information

1. Township, Range, Section: T13 R6E Sec 33

Latitude, Longitude (in decimal degrees): 41.30.00 N, 123.30.00 W

3. Location description: Project will install a 12" return flow pipe from the hydroelectric plant on Marble Mountain Ranch to the upstream inlet of the Stanshaw Creek Highway 96 culvert (3200 ft) (see attached map and drawing). Project is located 7.5 miles north

of Somes Bar, CA, along Hwy 96. Project is approx. 1800 feet above confluence of Stanshaw Creek with the Klamath River.

(

ROM YREKA go North on Highway 263 to the junction with Highway 96, then proceed South-West 63 miles to Happy Camp and continue another 30 miles to the ranch. Marble Mountain Ranch (MMR) is on the left side of the road up a ramped driveway. Driving time is about 2 hours from Yreka.

FROM REDDING proceed West on highway 299 for 109 miles to Willow Creek. Take highway 96 North 47 miles to Somes Bar, then continue North 7 1/2 miles to MMR on your right. Driving time is about 3 hours from Redding.

FROM EUREKA go North on highway 101 and proceed East on highway 299 for 50 miles to Willow Creek. Take highway 96 North 47 miles to Somes Bar and proceed North 7 1/2 miles to MMR on your right. Driving time is about 2 hours from Eureka.

Doug and Heidi Cole live in the big white house on the left as you enter the ranch. Ph #530-469-3322.

WR-157

#### **Section 3: Watershed Information**

1. Major Drainage Name: Klamath River

Watershed Name: Stanshaw Creek

- 3. <u>Watershed area</u>: Stanshaw Creek
- 4. <u>Watershed area included in this proposal</u>: Lower portion of Stanshaw Creek Watershed

5. <u>Land use statement</u>: Private lands: Ditch and pipe 580 ft from hydro plant across MMR property to inboard ditch on HWY 96. 2060 ft along Highway 96 inboard ditch, and 460 ft across level fill to top of Stanshaw Creek culvert above HWY 96 (all Cal Trans right of way).

- 6. <u>Project area ownership:</u> <u>% private</u>: 19 <u>% state</u>: 81 <u>% federal</u>: 0
- 7. Project area with landowners supportive of proposal: 100%
- 8. Watershed length of blue line streams: NA
- 9. Length of blue line streams affected by proposal: 0.5 mi.
- 10. Salmonids present: Coho (Oncorhyncus kisutch), Steelhead (Oncorhyncus mykiss), Chinook (Oncorhyncus tshawytscha)
- 11. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department
- 12. Salmonids historically present: same
- 13. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department
- Limiting factors to salmonids: Stream Flow, Connectivity, Thermal Refugia
- 15. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department

#### **Section 4: Project Objectives**

- 1. <u>Background and Need for project</u>: Currently, there is an interbasin transfer via a ditch carrying 1.5 to 3.0 cfs from Stanshaw Creek to Irving Creek, located 7.5 miles north of Somes Bar on the Klamath River. This diversion is listed in the DFG Coho Recovery Plan for the state as a high priority for restoration. Past conflict over flows, thermal refugia, and connectivity in Stanshaw Creek have highlighted the need to increase instream flows, particularly in the anadromous section below the Hwy 96 culvert. Since 2003 landowners, agency, and tribal personnel have been working together to find a solutionn that provides for salmonid habitat needs, without unduly impacting the Marble Mountain Ranch. All stakeholders concur that returning Stanshaw Creek flows above the Hwy 96 culvert is the first step to improve anadromous habitat there. Acting on this, the Karuk Tribe, NRCS and MKWC combined resources over the summer to conduct flow monitoring and engineer the return of Stanshaw flows. Siskiyou Telephone is laying fiber optic line sometime after April 2005, and is burying the line deep enough that the return pipe could be laid on top, thus saving the trouble of re-digging the ground and risking damage to the fiber optic line. Coordinating with the contract to lay both lines at once will greatly reduce the cost of project. Funds are needed to puchase pipe, and to cover installation fees above what it costs the contractor to install the fiber optic.
- 2. Known limiting factors addressed by project: Thermal Refugia, Juvenile Salmonid Habitat, Connectivity, Spawning Habitat

3. <u>Limiting factor remediation</u>: Increasing flows in Stanshaw Creek, particularly in the late summer months, will increase the amount of quality cold water refugial habitat. Whereas Irving Creek is channelized at its confluence with the Klamath River, Stanshaw Creek empties and ponds into a flood scoured side channel of the Klamath River. This pond is a classic example of juvenile

to habitat: shaded and lined with overhanging vegetation and coarse woody debris. Annual summer surveys by the Karuk Tribe risheries Department show 500 or more juvenile coho utilizing this habitat on a good year. Surveys show intermittent use of the creek above this pool to the barrier at the Hwy 96 culvert downspout. With higher flows, this habitat should be more utilized. Higher flows will also help maintain connectivity to the mainstem Klamath. Tribal fisheries technicians have observed juvenile coho migrating up small creeks to escape warm mainstem temperatures (Soto 2004). Large numbers of juveniles in this pool indicate that migration from the Klamath into this refugial habitat is occurring. Higher flows will also expand the availability and quality of spawning habitat. Cal Trans has identified this fish passage barrier and has plans to someday upgrade the culvert or make a bridge and restore flat spawning habitat under the Hwy 96 fill and upstream.

4. <u>Additional objectives</u>: This project will return diverted water to Stanshaw Creek and end the interbasin transfer to Irving Creek. It will bring a diverse group of stakeholders, tribes and agencies together for planning and implementation. These include all effected landowners, California Department of Fish and Game, Karuk Tribe of California, Natural Resources Conservation Service, NOAA Fisheries, Mid Klamath Watershed Council, US Forest Service, State Water Resources Control Board, and the Klamath Forest Alliance. By forging a working relationship on Phase I of this project, chances of reaching consensus on Phase II (screening the inlet to the MMR water system, piping 4500 feet of ditch to the hydro plant, decreasing electrical demands through increasing power system efficiency) will be increased.

#### Section 5: Project Tasks and Results

(

- <u>Detailed Project Tasks</u>: Receive grant (March, 2005). Coordinate NEPA, and rider to Siskiyou Telephone Company's encroachment permit with CalTrans (April, 2005). Purchase materials (April 2005). Coordinate installation with Siskiyou Telephone and their contractor, agencies, tribes and landowners (May July, 2005). Monitor project installation through before and after photos from landmarked photopoints (May August, 2005). Write progress reports (May August, 2005). Write final report to DFG (February, 2006).
- 2. <u>Time frame</u>: March 1, 2005 to February 28, 2006.
- 3. DFG acceptable protocols used in project development and completion:

DFG Restoration Manual
List:
DFG Monitoring Protocols
List:
Fish, Farms and Forestry Coalition Draft Protocols
List:
PWA Road Assessment
Star Worksheet Road Assessment
V-Star residual Pool Volume
Juvenile summer abundance estimation
Out-migrant trapping and efficiency
California Content Standards
National Science Content Standards

4. Other protocols:

5. Deliverables: This project will return 1.5 - 3.0 cfs continuous flow to Stanshaw Creek above the Hwy 96 culvert.

- 6. Expected Quantitative Results:
  - a. Stream length treated/assessed/made more accessible (distance in feet): 1800 ft
  - b. Instream habitat structures to be installed (number):
  - c. Fencing length to be installed/repaired (distance in feet):
  - d. Road length treated/assessed (distance in miles):
  - e. Stream crossings treated (number):
  - f. Sediment prevented from entering the stream (volume in cubic yards):
  - g. Trees planted (number):
  - h. Area planted/preserved/assessed (area in acres):
  - i. Public meetings (number):
  - j. Public meeting attendees (number):
  - k. Students trained (number):
  - I. Juvenile fish produced: released:

Other products and results: Collaboration among a diverse group of stakeholders.

8. <u>Applicant's qualifications and experience</u>: The Mid Klamath Watershed Council has been coordinating restoration activities in the Mid Klamath Subbasin since 2001. Including the work of or subsidiary, the Orleans/Somes Bar Fire Safe Council, we have

WR-157

received over \$900,000 to plan and implement watershed education and restoration projects, including water quality and streamflow monitoring, thermal refugia enhancement, hazard fuels reduction, riparian planting, noxious weed removal, community education, a quarterly newsletter, and more. We recently received our non-profit status, which has allowed us to hire an office manager/accountant, and increased our ability to handle more project work.

9. <u>Previously completed projects and outcomes under grant program</u>: We have received one organizational support grant from the DFG, which became active in September, 2004. Our first progress report was submitted in January, 2005.

#### Section 6: Landowners, Access and Permits

1. <u>Landowners granting access for project</u> (Please attach access agreements): Doug and Heidi Cole, owners of Marble Mountain Ranch.

- 2. Permits: NEPA
- 3. Lead CEQA agency:
- 4. <u>Required mitigation</u>?

#### Section 7: Project Budget

1. Summary Project Costs (Please attach detailed budget):

Several Turks	Cash	Total
Fisheries Restoration Grant Program		
Other State Agencies		
<u>me(s) and amount(s) of each:</u>		
Federal		
Name(s) and amount(s) of each:		
Applicant		
Other Sources		
Name(s) and amount(s) of each:		
Total		

- 2. Standardized Costs:
- 3. Budget justification:
- 4. Administrative Overhead:

#### Section 8: Supplemental or Specialized Information

In the following order, please attach the following required items, as appropriate to the project type:

- 1. Project budget according to the sample in the Solicitation. See examples and instructions on pages B10-B14. (ALL)
- 2. Plan view diagram. See example on page B9.
   (CC, CF, FL, HB, HI, HR, HS, HU, MO, PM, SC, TW, WC, WD)
  - 3. Project location topo map, 7.5 minute. See example on page B8.
  - (CC, CF, FL, HA, HB, HI, HR, HS, HU, MD, MO, PM, RE, SC, TE, TW, WC, WD, WP)
- 4. Watershed map. See Section III. (HU, MD, MO, OR, PI, PL, WP)
- 5. Landowner access agreements. See examples on pages B2-B7.

WR-157
(All projects with on-the-ground work)

- 6. Project 10-year maintenance agreement. See examples on pages B3-B5. (HR, HU)
- 7. Written eligibility certification from CDF. See Section III. (CF)
- 8. Evaluation plan. (see Section III ED, TE). Quality Assessment/Quality Control Plan (see Section III MD, MO).
- 9. Land acquisition/easement information. See page 7, Section III. (HA)
- 10. Water purchase information. See pages 9-10, Section III. (WP)
  - ] 11. Status report. See Section III. (OR, PI)

(

- 12. 5-year management plan (new projects only). See page 13-14, Section III. (RE)
- 13. Environmental project questionnaire. See form on pages B15-17.
- (CC, CF, FL, HA, HB, HI, HR, HS, HU, MD, MO, PM, RE, SC, TW, WC, WD, WP)
  14. Project follows guidelines in the California Coho Salmon Recovery Strategy (RE) (Coho related projects must follow guidelines outlined in appendices H or I, view at
  - http://www.dfg.ca.gov/nafwb/pubs/2003/CohoRecovery/RecoveryStrategy\_20031105.pdf
- 15 Drug Free Workplace, Std 21 (Appendix B)
- 16. Non-Discrimination, Std 19 (Appendix B)
- 17. Payee Data Record, Std 204 (Appendix B)

#### Supplemental Information Checklist by Project Type

(Please refer to the item numbers above)

Project Type	Item Number	Project Type	Item Number
AC	1	OR	1, 4, 5, 11, 15, 16, 17
CC	1, 2, 3, 5, 13, 15, 16, 17	PI	1, 4, 5, 11, 15, 16, 17
CF	1, 2, 3, 5, 7, 13, 15, 16, 17	PL	1, 4, 5, 15, 16, 17
ED	1, 5, 8, 15, 16, 17	PM	1, 2, 3, 5, 13, 15, 16, 17
FL	1, 2, 3, 5, 13, 15, 16, 17	RE	1, 3, 5, 12, 13, 14, 15, 16,
НА	1, 3, 5, 9, 13, 15, 16, 17	SC	17 1 2 3 5 13 15 16 17
HB	1, 2, 3, 5, 13, 15, 16, 17	TE	1, 3, 5, 8, 15, 16, 17
-1 <b>1</b>	1, 2, 3, 5, 13, 15, 16, 17	ŤW	1, 2, 3, 5, 13, 15, 16, 17
	1, 2, 3, 5, 6, 13, 15, 16, 17	WC	1, 2, 3, 5, 13, 15, 16, 17
HS	1, 2, 3, 5, 13, 15, 16, 17	WD	1, 2, 3, 5, 13, 15, 16, 17
HU	1, 2, 3, 4, 5, 6, 13, 15, 16, 17	WP	1, 3, 4, 5, 10, 13, 15, 16, 17
MD	1, 3, 4, 5, 13, 15, 16, 17	OR	1, 4, 5, 11, 15, 16, 17
MO	1, 2, 3, 4, 5, 13, 15, 16, 17	PI	1, 4, 5, 11, 15, 16, 17

Date	Width of Stream (Ft)	Distance on Tape	cell width	depth (ft)	area (Ft^2)	velocity	discharge	Total Discharge (1)
5/5/2016	9	5.1	2.25	0.55	1.2375	0.56	0.693	
5/5/2016	9	5.1	2.25	0.55	1.2375	0.54	0.66825	
5/5/2016	9	5.1	2.25	0.55	1.2375	0.56	0.693	
5/5/2016	9	7.4	2.25	0.65	1.4625	1.28	1.872	
5/5/2016	9	7.4	2.25	0.65	1.4625	1.41	2.062125	
5/5/2016	9	7.4	2.25	0.65	1.4625	1.35	1.974375	
5/5/2016	9	9.63	2.25	0.77	1.7325	1.7	2.94525	
5/5/2016	9	11.88	2.25	0.35	0.7875	0.71	0.559125	6.158625
5/5/2016								
5/5/2016								
5/5/2016								
5/5/2016								
5/11/2016	8	5.5	2	0.4	0.8	1.13	0.904	
5/11/2016	8	5.5	2	0.4	0.8	1.09	0.872	
5/11/2016	8	5.5	2	0.4	0.8	1.17	0.936	
5/11/2016	8	7.5	2	0.75	1.5	1.13	1.695	
5/11/2016	8	7.5	2	0.75	1.5	1.14	1.71	
5/11/2016	8	7.5	2	0.75	1.5	1.2	1.8	
5/11/2016	8	9.5	2	0.75	1.5	0.98	1.47	
5/11/2016	8	9.5	2	0.75	1.5	1	1.5	
5/11/2016	8	9.5	2	0.75	1.5	1.06	1.59	
5/11/2016	8	11.5	2	0.44	0.88	0.83	0.7304	
5/11/2016	8	11.5	2	0.44	0.88	0.87	0.7656	
5/11/2016	8	11.5	2	0.44	0.88	0.93	0.8184	4.930466667

## Stanshaw Flow Measurements: Above Diversion 56ft

()

	0.70889	0.91	0.779	0.38	2.05	6.9	8.2	5/18/2016
	0.72447	0.93	0.779	0.38	2.05	6.9	8.2	5/18/2016
	0.71668	0.92	0.779	0.38	2.05	6.9	8.2	5/18/2016
	2.0664	1.68	1.23	0.6	2.05	8.95	8.2	5/18/2016
	2.1771	1.77	1.23	0.6	2.05	8.95	8.2	5/18/2016
	2.2263	1.81	1.23	0.6	2.05	8.95	8.2	5/18/2016
	3.24105	2.55	1.271	0.62	2.05	11	8.2	5/18/2016
	3.21563	2.53	1.271	0.62	2.05	11	8.2	5/18/2016
	3.25376	2.56	1.271	0.62	2.05	11	8.2	5/18/2016
	0.17712	0.32	0.5535	0.27	2.05	13.05	8.2	5/18/2016
	0.226935	0.41	0.5535	0.27	2.05	13.05	8.2	5/18/2016
6.305663333	0.182655	0.33	0.5535	0.27	2.05	13.05	8.2	5/18/2016
	0.4836	1.24	0.39	0.26	1.5	4.45	6	6/1/2016
	0.4719	1.21	0.39	0.26	1.5	4.45	6	6/1/2016
	0.4641	1.19	0.39	0.26	1.5	4.45	6	6/1/2016
	0.792	0.88	0.9	0.6	1.5	5.95	6	6/1/2016
	0.783	0.87	0.9	0.6	1.5	5.95	6	6/1/2016
	0.765	0.85	0.9	0.6	1.5	5.95	6	6/1/2016
	1.8645	2.26	0.825	0.55	1.5	7.45	6	6/1/2016
	1.74075	2.11	0.825	0.55	1.5	7.45	6	6/1/2016
	1.79025	2.17	0.825	0.55	1.5	7.45	6	6/1/2016
	1.764	1.96	0.9	0.6	1.5	8.95	6	6/1/2016
	1.836	2.04	0.9	0.6	1.5	8.95	6	6/1/2016
4.8637	1.836	2.04	0.9	0.6	1.5	8.95	6	6/1/2016
	0.402636	0.58	0.6942	0.39	1.78	4.79	7.1	6/14/2016
	0.388752	0.56	0.6942	0.39	1.78	4.79	7.1	6/14/2016
	0.409578	0.59	0.6942	0.39	1.78	4.79	7.1	6/14/2016
	1.325744	1.52	0.8722	0.49	1.78	6.57	7.1	6/14/2016
	1.474018	1.69	0.8722	0.49	1.78	6.57	7.1	6/14/2016
	1.474018	1.69	0.8722	0.49	1.78	6.57	7.1	6/14/2016
	1.720192	1.51	1.1392	0.64	1.78	8.35	7.1	6/14/2016
	1.834112	1.61	1.1392	0.64	1.78	8.35	7.1	6/14/2016
	1.82272	1.6	1.1392	0.64	1.78	8.35	7.1	6/14/2016
					L			L

 $\smile$ 

()

	0.41118	0.66	0.623	0.35	1.78	10.13	7.1	6/14/2016
	0.39872	0.64	0.623	0.35	1.78	10.13	7.1	6/14/2016
4.0139	0.38003	0.61	0.623	0.35	1.78	10.13	7.1	6/14/2016
	0.62118	1.26	0.493	0.29	1.7	4.25	6.8	6/29/2016
	0.61132	1.24	0.493	0.29	1.7	4.25	6.8	6/29/2016
	0.66555	1.35	0.493	0.29	1.7	4.25	6.8	6/29/2016
	1.0557	2.07	0.51	0.3	1.7	5.95	6.8	6/29/2016
	1.1781	2.31	0.51	0.3	1.7	5.95	6.8	6/29/2016
	1.1526	2.26	0.51	0.3	1.7	5.95	6.8	6/29/2016
	1.6575	1.95	0.85	0.5	1.7	7.65	6.8	6/29/2016
	1.717	2.02	0.85	0.5	1.7	7.65	6.8	6/29/2016
	1.6745	1.97	0.85	0.5	1.7	7.65	6.8	6/29/2016
	0.41888	0.77	0.544	0.32	1.7	9.35	6.8	6/29/2016
	0.40256	0.74	0.544	0.32	1.7	9.35	6.8	6/29/2016
3.848856667	0.39168	0.72	0.544	0.32	1.7	9.35	6.8	6/29/2016
	0.49302	0.83	0.594	0.36	1.65	4.43	6.6	7/13/2016
	0.54054	0.91	0.594	0.36	1.65	4.43	6.6	7/13/2016
	0.59994	1.01	0.594	0.36	1.65	4.43	6.6	7/13/2016
	1.0098	2.04	0.495	0.3	1.65	6.08	6.6	7/13/2016
	1.0989	2.22	0.495	0.3	1.65	6.08	6.6	7/13/2016
	1.10385	2.23	0.495	0.3	1.65	6.08	6.6	7/13/2016
	1.70775	2.07	0.825	0.5	1.65	7.73	6.6	7/13/2016
	1.69125	2.05	0.825	0.5	1.65	7.73	6.6	7/13/2016
	1.72425	2.09	0.825	0.5	1.65	7.73	6.6	7/13/2016
	0.36498	0.79	0.462	0.28	1.65	9.38	6.6	7/13/2016
	0.44352	0.96	0.462	0.28	1.65	9.38	6.6	7/13/2016
3.73274	0.42042	0.91	0.462	0.28	1.65	9.38	6.6	7/13/2016
								-

-

 $\smile$ 

( )

	Midth of	Distance			Area		discharge	Average	Total	Average Total
Date	Stream (ft)	on Tape	(ft)	depth 2	(ft^2) 2	velocity 2	2	Discharge (2)	Discharge (2)	Measurements
5/5/2016	4.73	9	2.25	0.31	0.6975	0.55	0.383625	1		
5/5/2016	4.73	9	2.25	0.31	0.6975	0.99	0.690525			
5/5/2016	4.73	9	2.25	0.31	0.6975	0.69	0.481275	0.518475		
5/5/2016	6.98	9	2.25	0.89	2.0025	1.72	3.4443			
5/5/2016	6.98	9	2.25	0.89	2.0025	1.62	3.24405			
5/5/2016	6.98	9	2.25	0.89	2.0025	1.73	3.464325	3.384225		
5/5/2016	9.23	9	2.25	0.83	1.8675	1.13	2.110275			
5/5/2016	9.23	9	2.25	0.83	1.8675	1.24	2.3157			1
5/5/2016	9.23	9	2.25	0.83	1.8675	1.26	2.35305	2.259675		
5/5/2016	11.48	9	2.25	0.5	1.125	0.65	0.73125	/		
5/5/2016	11.48	9	2.25	0.5	1.125	0.62	0.6975			
5/5/2016	11.48	9	2.25	0.5	1.125	0.79	0.88875	0.7725	6.934875	6.54675
										P
									[	[
	<u> </u>			<u> </u>				<u>†</u>		
								<b></b>		
	<u> </u>		1	[				f		
		· · · · · ·	1	[				1		
	<u> </u>			f'		h	<u> </u>	1	<u></u>	<u></u>
	<u> </u>		1	[	<u> </u>		†	1	[	
		1	1				<u> </u>		<u> </u>	
					<u> </u>	<u> </u>	<u> </u>		<u> </u>	4.930466667

-

<u> </u>									 
				-					 
								. <u></u>	
									6.305663333
6/1/2016	6	4.45	1.5	0.46	0.69	0.57	0.3933		
6/1/2016	6	4.45	1.5	0.46	0.69	0.63	0.4347		
6/1/2016	6	4.45	1.5	0.46	0.69	0.61	0.4209		
6/1/2016	6	5.95	1.5	0.62	0.93	0.88	0.8184		
6/1/2016	6	5.95	1.5	0.62	0.93	0.83	0.7719		
6/1/2016	6	5.95	1.5	0.62	0.93	0.76	0.7068		
6/1/2016	6	7.45	1.5	0.65	0.975	2.03	1.97925		
6/1/2016	6	7.45	1.5	0.65	0.975	2.08	2.028		
6/1/2016	6	7.45	1.5	0.65	0.975	2.24	2.184		
6/1/2016	6	8.95	1.5	0.52	0.78	1.6	1.248		
6/1/2016	6	8.95	1.5	0.52	0.78	1.25	0.975		 
6/1/2016	6	8.95	1.5	0.52	0.78	1.33	1.0374	4.33255	4.598125
6/14/2016	7.1	4.79	1.78	0.39	0.6942	0.64	0.444288		
6/14/2016	7.1	4.79	1.78	0.39	0.6942	0.64	0.444288		
6/14/2016	7.1	4.79	1.78	0.39	0.6942	0.67	0.465114		
6/14/2016	7.1	6.57	1.78	0.58	1.0324	1.07	1.104668		
6/14/2016	7.1	6.57	1.78	0.58	1.0324	1.05	1.08402		
6/14/2016	7.1	6.57	1.78	0.58	1.0324	1.04	1.073696		
6/14/2016	7.1	8.35	1.78	0.68	1.2104	1.55	1.87612		
6/14/2016	7.1	8.35	1.78	0.68	1.2104	1.59	1.924536		
6/14/2016	7.1	8.35	1.78	0.68	1.2104	1.58	1.912432		

\_

`\_\_\_

 $\left( \right)$ 

(

			0.00040							
		l	0.36312	0.6	0.6052	0.34	1.78	10.13	7.1	6/14/2016
			0.478108	0.79	0.6052	0.34	1.78	10.13	7.1	6/14/2016
3.947357667		3.880815333	0.472056	0.78	0.6052	0.34	1.78	10.13	7.1	6/14/2016
			0.66062	1.34	0.493	0.29	1.7	4.25	6.8	6/29/2016
			0.7395	1.5	0.493	0.29	1.7	4.25	6.8	6/29/2016
			0.74936	1.52	0.493	0.29	1.7	4.25	6.8	6/29/2016
			1.20768	2.22	0.544	0.32	1.7	5.95	6.8	6/29/2016
			1.08256	1.99	0.544	0.32	1.7	5.95	6.8	6/29/2016
			1.10976	2.04	0.544	0.32	1.7	5.95	6.8	6/29/2016
			2.04765	2.19	0.935	0.55	1.7	7.65	6.8	6/29/2016
			2.04765	2.19	0.935	0.55	1.7	7.65	6.8	6/29/2016
			2.06635	2.21	0.935	0.55	1.7	7.65	6.8	6/29/2016
			0.3927	0.77	0.51	0.3	1.7	9.35	6.8	6/29/2016
			0.3621	0.71	0.51	0.3	1.7	9.35	6.8	6/29/2016
4.060733333		4.27261	0.3519	0.69	0.51	0.3	1.7	9.35	6.8	6/29/2016
			0.43065	0.87	0.495	0.3	1.65	4.43	6.6	7/13/2016
			0.44055	0.89	0.495	0.3	1.65	4.43	6.6	7/13/2016
			0.44055	0.89	0.495	0.3	1.65	4.43	6.6	7/13/2016
			1.0296	2.08	0.495	0.3	1.65	6.08	6.6	7/13/2016
			1.0395	2.1	0.495	0.3	1.65	6.08	6.6	7/13/2016
	-		1.05435	2.13	0.495	0.3	1.65	6.08	6.6	7/13/2016
			1.809225	2.15	0.8415	0.51	1.65	7.73	6.6	7/13/2016
			1.86813	2.22	0.8415	0.51	1.65	7.73	6.6	7/13/2016
			1.81764	2.16	0.8415	0.51	1.65	7.73	6.6	7/13/2016
			0.3003	0.91	0.33	0.2	1.65	9.38	6.6	7/13/2016
			0.7029	2.13	0.33	0.2	1.65	9.38	6.6	7/13/2016
3.7452525		3.757765	0.3399	1.03	0.33	0.2	1.65	9.38	6.6	7/13/2016

-

 $\bigcirc$ 

.



Í



(

(

003505

## Stanshaw Flow Measurements: Below Diversion (126 ft)

(

(

	Width of							Total
	Stream	Distance			area			Discharge
Date	(Ft)	on Tape	cell width	depth (ft)	(Ft^2)	velocity	discharge	(1)
5/5/2016	9.4	4.18	2.35	0.21	0.4935	0.43	0.212205	
5/5/2016	9.4	4.18	2.35	0.21	0.4935	0.49	0.241815	
5/5/2016	9.4	4.18	2.35	0.21	0.4935	0.46	0.22701	· · · · · · · · · · · · · · · · · · ·
5/5/2016	9.4	6.53	2.35	0.7	1.645	1.16	1.9082	
5/5/2016	9.4	6.53	2.35	0.7	1.645	1.13	1.85885	
5/5/2016	9.4	6.53	2.35	0.7	1.645	1.19	1.95755	
5/5/2016	9.4	8.88	2.35	0.45	1.0575	1.5	1.58625	
5/5/2016	9.4	8.88	2.35	0.45	1.0575	1.44	1.5228	
5/5/2016	9.4	8.88	2.35	0.45	1.0575	1.47	1.554525	
5/5/2016	9.4	11.23	2.35	0.35	0.8225	1.46	1.20085	
5/5/2016	9.4	11.23	2.35	0.35	0.8225	1.44	1.1844	
5/5/2016	9.4	11.23	2.35	0.35	0.8225	1.46	1.20085	4.88510167
5/11/2016	8	8	2	0.42	0.84	1.55	1.302	
5/11/2016	8	8	2	0.42	0.84	1.44	1.2096	
5/11/2016	8	8	2	0.42	0.84	1.62	1.3608	
5/11/2016	8	10	2	0.58	1.16	1.48	1.7168	
5/11/2016	8	10	2	0.58	1.16	1.4	1.624	
5/11/2016	8	10	2	0.58	1.16	1.57	1.8212	
5/11/2016	8	12	2	0.4	0.8	1.11	0.888	
5/11/2016	8	12	2	0.4	0.8	1.14	0.912	
5/11/2016	8	12	2	0.4	0.8	1.13	0.904	
5/11/2016	8	14	2	0.37	0.74	1.44	1.0656	
5/11/2016	8	14	2	0.37	0.74	1.44	1.0656	
5/11/2016	8	14	2	0.37	0.74	1.36	1.0064	4.95866667
5/18/2016	8.9	5.3	2.225	0.26	0.5785	0.35	0.202475	
5/18/2016	8.9	5.3	2.225	0.26	0.5785	0.39	0.225615	
5/18/2016	8.9	5.3	2.225	0.26	0.5785	0.37	0.214045	
5/18/2016	8.9	7.52	2.225	0.6	1.335	0.5	0.6675	
5/18/2016	8.9	7.52	2.225	0.6	1.335	0.38	0.5073	
5/18/2016	8.9	7.52	2.225	0.6	1.335	0.51	0.68085	
5/18/2016	8.9	9.75	2.225	0.35	0.77875	1.08	0.84105	
5/18/2016	8.9	9.75	2.225	0.35	0.77875	0.99	0.7709625	
5/18/2016	8.9	9.75	2.225	0.35	0.77875	1.15	0.8955625	
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.33	0.887775	
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.37	0.914475	
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.41	0.941175	2.58292833
6/1/2016	9	6.43	2.25	0.31	0.6975	0.78	0.54405	
6/1/2016	9	6.43	2.25	0.31	0.6975	0.69	0.481275	
6/1/2016	9	6.43	2.25	0.31	0.6975	0.84	0.5859	
6/1/2016	9	8.68	2.25	0.59	1.3275	1.07	1.420425	

6/1/2016	9	8.68	2.25	0.59	1.3275	1.07	1.420425	
6/1/2016	9	8.68	2.25	0.59	1.3275	1.11	1.473525	
6/1/2016	9	10.93	2.25	0.39	0.8775	1.18	1.03545	
6/1/2016	9	10.93	2.25	0.39	0.8775	1.07	0.938925	
6/1/2016	9	10.93	2.25	0.39	0.8775	1.18	1.03545	
6/1/2016	9	13.18	2.25	0.38	0.855	1.47	1.25685	
6/1/2016	9	13.18	2.25	0.38	0.855	1.47	1.25685	
6/1/2016	9	13.18	2.25	0.38	0.855	1.46	1.2483	4.232475
6/14/2016	9.1	5.84	2.275	0.25	0.56875	0.47	0.2673125	
6/14/2016	9.1	5.84	2.275	0.25	0.56875	0.45	0.2559375	
6/14/2016	9.1	5.84	2.275	0.25	0.56875	0.49	0.2786875	
6/14/2016	9.1	8.59	2.275	0.58	1.3195	1.17	1.543815	
6/14/2016	9.1	8.59	2.275	0.58	1.3195	1.17	1.543815	
6/14/2016	9.1	8.59	2.275	0.58	1.3195	1.21	1.596595	
6/14/2016	9.1	10.86	2.275	0.34	0.7735	0.93	0.719355	
6/14/2016	9.1	10.86	2.275	0.34	0.7735	0.92	0.71162	
6/14/2016	9.1	10.86	2.275	0.34	0.7735	0.92	0.71162	
6/14/2016	9.1	13.14	2.275	0.22	0.5005	0.92	0.46046	
6/14/2016	9.1	13.14	2.275	0.22	0.5005	0.96	0.48048	
6/14/2016	9.1	13.14	2.275	0.22	0.5005	1.02	0.51051	3.02673583
7/13/2016	8.5	5.57	2.13	0.09	0.1917	1.07	0.205119	
7/13/2016	8.5	5.57	2.13	0.09	0.1917	0.9	0.17253	
7/13/2016	8.5	5.57	2.13	0.09	0.1917	0.97	0.185949	
7/13/2016	8.5	7.7	2.13	0.49	1.0437	0.58	0.605346	
7/13/2016	8.5	7.7	2.13	0.49	1.0437	0.7	0.73059	
7/13/2016	8.5	7.7	2.13	0.49	1.0437	0.87	0.908019	
7/13/2016	8.5	9.83	2.13	0.3	0.639	0.72	0.46008	
7/13/2016	8.5	9.83	2.13	0.3	0.639	0.73	0.46647	
7/13/2016	8.5	9.83	2.13	0.3	0.639	0.62	0.39618	
7/13/2016	8.5	11.96	2.13	0.23	0.4899	1.27	0.622173	
7/13/2016	8.5	11.96	2.13	0.23	0.4899	1.3	0.63687	
7/13/2016	8.5	11.96	2.13	0.23	0.4899	1.19	0.582981	1.990769
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.51	0.25704	
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.52	0.26208	
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.46	0.23184	
8/16/2016	7.2	6	1.8	0.5	0.9	0.33	0.297	
8/16/2016	7.2	6	1.8	0.5	0.9	0.33	0.297	
8/16/2016	7.2	6	1.8	0.5	0.9	0.34	0.306	
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.65	0.2925	
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.69	0.3105	
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.69	0.3105	
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.73	0.31536	
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.7	0.3024	
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.74	0.31968	1.1673

 $\left( \right)$ 

1

	Width of		Cell						Average Total
	Stream	Distance	Width		Area	velocity	discharge	Total	Discharge of
Date	(ft)	on Tape	(ft)	depth 2	(ft^2) 2	2	2	Discharge (2)	Measurement
5/5/2016	9.2	4.7	2.3	0.33	0.759	0.79	0.59961		
5/5/2016	9.2	4.7	2.3	0.33	0.759	0.9	0.6831		
5/5/2016	9.2	4.7	2.3	0.33	0.759	0.78	0.59202		
5/5/2016	9.2	. 7	2.3	0.68	1.564	1.28	2.00192		
5/5/2016	9.2	7	2.3	0.68	1.564	1.25	1.955	· · · · · · · · · · · · · · · · · · ·	
5/5/2016	9.2	7	2.3	0.68	1.564	1.34	2.09576		
5/5/2016	9.2	9.3	2.3	0.41	0.943	1.21	1.14103		
5/5/2016	9.2	9.3	2.3	0.41	0.943	1.25	1.17875		
5/5/2016	9.2	9.3	2.3	0.41	0.943	1.25	1.17875		
5/5/2016	9.2	11.6	2.3	0.35	0.805	1.35	1.08675		
5/5/2016	9.2	11.6	2.3	0.35	0.805	1.45	1.16725		
5/5/2016	9.2	11.6	2.3	0.35	0.805	1.4	1.127	4.935646667	4.910374167
5/11/2016	8	8	2	0.4	0.8	1.57	1.256		
5/11/2016	8	8	2	0.4	0.8	1.46	1.168		
5/11/2016	8	8	2	0.4	0.8	1.52	1.216		
5/11/2016	8	10	2	0.58	1.16	1.49	1.7284		
5/11/2016	8	10	2	0.58	1.16	1.43	1.6588		
5/11/2016	8	10	2	0.58	1.16	1.43	1.6588		
5/11/2016	8	12	2	0.4	0.8	0.92	0.736		
5/11/2016	8	12	2	0.4	0.8	0.84	0.672		
5/11/2016	8	12	2	0.4	0.8	0.82	0.656		
5/11/2016	8	14	2	0.38	0.76	1.35	1.026		
5/11/2016	8	14	2	0.38	0.76	1.37	1.0412		
5/11/2016	8	14	2	0.38	0.76	1.3	0.988	4.601733333	4.7802
5/18/2016	8.9	5.3	2.225	0.27	0.6008	0.57	0.342428		
5/18/2016	8.9	5.3	2.225	0.27	0.6008	0.47	0.282353		
5/18/2016	8.9	5.3	2.225	0.27	0.6008	0.35	0.210263		
5/18/2016	8.9	7.52	2.225	0.61	1.3573	0.57	0.773633		
5/18/2016	8.9	7.52	2.225	0.61	1.3573	0.68	0.92293		
5/18/2016	8.9	7.52	2.225	0.61	1.3573	0.7	0.950075		
5/18/2016	8.9	9.75	2.225	0.37	0.8233	1.14	0.938505		
5/18/2016	8.9	9.75	2.225	0.37	0.8233	0.87	0.716228		
5/18/2016	8.9	9.75	2.225	0.37	0.8233	1.09	0.897343		L
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.5	1.00125		
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.49	0.994575		
5/18/2016	8.9	11.98	2.225	0.3	0.6675	1.48	0.9879	3.005826667	2.7943775
6/1/2016	9	6.43	2.25	0.32	0.72	0.66	0.4752		
6/1/2016	9	6.43	2.25	0.32	0.72	0.7	0.504		
6/1/2016	9	6.43	2.25	0.32	0.72	0.58	0.4176		
6/1/2016	9	8.68	2.25	0.6	1.35	1.19	1.6065		

(

(

6/1/2016	9	8.68	2.25	0.6	1.35	1.14	1.539		
6/1/2016	9	8.68	2.25	0.6	1.35	1.05	1.4175		
6/1/2016	9	10.93	2.25	0.38	0.855	1.15	0.98325		
6/1/2016	9	10.93	2.25	0.38	0.855	1	0.855		
6/1/2016	9	10.93	2.25	0.38	0.855	1.03	0.88065		
6/1/2016	9	13.18	2.25	0.31	0.6975	1.48	1.0323		
6/1/2016	9	13.18	2.25	0.31	0.6975	1.44	1.0044		
6/1/2016	9	13.18	2.25	0.31	0.6975	1.48	1.0323	3.9159	4.0741875
6/14/2016	9.1	5.84	2.275	0.25	0.5688	0.59	0.335563		
6/14/2016	9.1	5.84	2.275	0.25	0.5688	0.59	0.335563		
6/14/2016	9.1	5.84	2.275	0.25	0.5688	0.52	0.29575		
6/14/2016	9.1	8.59	2.275	0.6	1.365	1.14	1.5561		
6/14/2016	9.1	8.59	2.275	0.6	1.365	1.17	1.59705		
6/14/2016	9.1	8.59	2.275	0.6	1.365	1.15	1.56975		
6/14/2016	9.1	10.86	2.275	0.29	0.6598	0.91	0.600373		
6/14/2016	9.1	10.86	2.275	0.29	0.6598	0.97	0.639958		
6/14/2016	9.1	10.86	2.275	0.29	0.6598	0.89	0.587178		
6/14/2016	9.1	13.14	2.275	0.2	0.455	1.15	0.52325		
6/14/2016	9.1	13.14	2.275	0.2	0.455	1.11	0.50505		
6/14/2016	9.1	13.14	2.275	0.2	0.455	1.15	0.52325	3.022944167	3.02484
7/13/2016	8.5	5.57	2.13	0.09	0.1917	0.92	0.176364		
7/13/2016	8.5	5.57	2.13	0.09	0.1917	0.99	0.189783		
7/13/2016	8.5	5.57	2.13	0.09	0.1917	0.92	0.176364		
7/13/2016	- 8.5	7.7	2.13	0.49	1.0437	0.86	0.897582		
7/13/2016	8.5	7.7	2.13	0.49	1.0437	0.92	0.960204		
7/13/2016	8.5	7.7	2.13	0.49	1.0437	0.95	0.991515		
7/13/2016	8.5	9.83	2.13	0.22	0.4686	0.63	0.295218		
7/13/2016	8.5	9.83	2.13	0.22	0.4686	0.68	0.318648		
7/13/2016	8.5	9.83	2.13	0.22	0.4686	0.63	0.295218		
7/13/2016	8.5	11.96	2.13	0.25	0.5325	1.25	0.665625		
7/13/2016	8.5	11.96	2.13	0.25	0.5325	1.25	0.665625		
7/13/2016	8.5	11.96	2.13	0.25	0.5325	1.26	0.67095	2.101032	2.0459005
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.55	0.2772		
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.5	0.252		
8/16/2016	7.2	4.2	1.8	0.28	0.504	0.47	0.23688		
8/16/2016	7.2	6	1.8	0.5	0.9	0.26	0.234		
8/16/2016	7.2	6	1.8	0.5	0.9	0.31	0.279		
8/16/2016	7.2	6	1.8	0.5	0.9	0.36	0.324		
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.65	0.2925		
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.71	0.3195		
8/16/2016	7.2	7.8	1.8	0.25	0.45	0.71	0.3195		
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.73	0.31536		
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.74	0.31968		
8/16/2016	7.2	9.6	1.8	0.24	0.432	0.74	0.31968	1.1631	1.1652

 $\left( \begin{array}{c} \\ \end{array} \right)$ 





#### haw Flow Measurements: At Diversio

(

(

	Width							
l I	of	Distanc				1		
	Stream	e on	cell		area			Total
Date	(Ft)	Таре	width	depth (ft)	(Ft^2)	velocity	discharge	Discharge (1)
5/5/2016	2.52	0.42	0.84	0.58	0.4872	2.3	1.12056	
5/5/2016	2.52	0.42	0.84	0.58	0.4872	2.29	1.115688	
5/5/2016	2.52	0.42	0.84	0.58	0.4872	2.23	1.086456	
5/5/2016	2.52	1.26	0.84	0.65	0.546	2.38	1.29948	
5/5/2016	2.52	1.26	0.84	0.65	0.546	2.39	1.30494	
5/5/2016	2.52	1.26	0.84	0.65	0.546	2.42	1.32132	
5/5/2016	2.52	2.1	0.84	0.52	0.4368	2.2	0.96096	
5/5/2016	2.52	2.1	0.84	0.52	0.4368	2.2	0.96096	
5/5/2016	2.52	2.1	0.84	0.52	0.4368	2.22	0.969696	3.38002
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.31	1.15038	
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.38	1.18524	
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.39	1.19022	
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.16	1.021896	
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.18	1.031358	
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.2	1.04082	
5/11/2016	2.5	5.08	0.83	0.54	0.4482	1.86	0.833652	
5/11/2016	2.5	5.08	0.83	0.54	0.4482	1.76	0.788832	
5/11/2016	2.5	5.08	0.83	0.54	0.4482	1.78	0.797796	3.013398
5/18/2016	2.5	0.42	0.83	0.58	0.4814	2.24	1.078336	
5/18/2016	2.5	0.42	0.83	0.58	0.4814	2.24	1.078336	
5/18/2016	2.5	0.42	0.83	0.58	0.4814	2.16	1.039824	
5/18/2016	2.5	1.25	0.83	0.53	0.4399	2.08	0.914992	
5/18/2016	2.5	1.25	0.83	0.53	0.4399	2.09	0.919391	
5/18/2016	2.5	1.25	0.83	0.53	0.4399	2.12	0.932588	
5/18/2016	2.5	2.08	0.83	0.51	0.4233	1.63	0.689979	
5/18/2016	2.5	2.08	0.83	0.51	0.4233	1.74	0.736542	
5/18/2016	2.5	2.08	0.83	0.51	0.4233	1.72	0.728076	2.706021333
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.41	0.10209	
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.3	0.0747	
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.45	0.11205	
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.42	0.35358	
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.42	0.35358	
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.41	0.35109	
6/1/2016	2.5	2.08	0.83	0.3	0.249	1.01	0.25149	
6/1/2016	2.5	2.08	0.83	0.3	0.249	1	0.249	
6/1/2016	2.5	2.08	0.83	0.3	0.249	1.04	0.25896	0.70218
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.44	0.10956	
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.4	0.0996	
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.4	0.0996	

6

6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.71	0.397404	
6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.63	0.378812	
6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.62	0.376488	
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.24	0.2573	
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.1	0.22825	
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.19	0.246925	0.731313
6/29/2016	2.5	0.42	0.83	0.28	0.2324	0.62	0.144088	
6/29/2016	2.5	0.42	0.83	0.28	0.2324	0.69	0.160356	
6/29/2016	2.5	0.42	0.83	0.28	0.2324	0.73	0.169652	
6/29/2016	2.5	1.25	0.83	0.26	0.2158	1.73	0.373334	
6/29/2016	2.5	1.25	0.83	0.26	0.2158	1.74	0.375492	
6/29/2016	2.5	1.25	0.83	0.26	0.2158	1.6	0.34528	
6/29/2016	2.5	2.08	0.83	0.22	0.1826	1.12	0.204512	
6/29/2016	2.5	2.08	0.83	0.22	0.1826	1.21	0.220946	
6/29/2016	2.5	2.08	0.83	0.22	0.1826	1.21	0.220946	0.738202
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.62	0.159526	
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.68	0.174964	
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.68	0.174964	
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.24	0.30876	
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.24	0.30876	
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.54	0.38346	
7/13/2016	2.5	2.08	0.83	0.24	0.1992	1.34	0.266928	
7/13/2016	2.5	2.08	0.83	0.24	0.1992	1.23	0.245016	
7/13/2016	2.5	2.08	0.83	0.24	0.1992	1.2	0.23904	0.753806
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.31	0.315317	
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.41	0.339387	
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.32	0.317724	
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.89	0.47061	_
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.89	0.47061	
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.92	0.47808	
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.47	0.305025	
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.47	0.305025	
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.53	0.317475	1.106417667

,

									Average Total
	Width of		Cell					Total	Discharge of
	Stream	Distance	Width	depth	Area	velocity	discharge	Discharge	Measurement
Date	(ft)	on Tape	(ft)	2	(ft^2) 2	2	2	(2)	S
5/5/2016	2.52	0.42	0.84	0.56	0.4704	2.48	1.166592		
5/5/2016	2.52	0.42	0.84	0.56	0.4704	2.68	1.260672		
5/5/2016	2.52	0.42	0.84	0.56	0.4704	2.72	1.279488		
5/5/2016	2.52	1.26	0.84	0.58	0.4872	2.38	1.159536		
5/5/2016	2.52	1.26	0.84	0.58	0.4872	2.38	1.159536		
5/5/2016	2.52	1.26	0.84	0.58	0.4872	2.41	1.174152		
5/5/2016	2.52	2.1	0.84	0.51	0.4284	2.18	0.933912		
5/5/2016	2.52	2.1	0.84	0.51	0.4284	2.21	0.946764		
5/5/2016	2.52	2.1	0.84	0.51	0.4284	2.14	0.916776	3.332476	3.356248
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.3	1.1454		
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.35	1.1703		
5/11/2016	2.5	3.42	0.83	0.6	0.498	2.29	1.14042		
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.22	1.050282		
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.24	1.059744		
5/11/2016	2.5	4.25	0.83	0.57	0.4731	2.19	1.036089		
5/11/2016	2.5	5.08	0.83	0.56	0.4648	1.75	0.8134		
5/11/2016	2.5	5.08	0.83	0.56	0.4648	1.75	0.8134		
5/11/2016	2.5	5.08	0.83	0.56	0.4648	1.77	0.822696	3.017244	3.015320833
5/18/2016	2.5	0.42	0.83	0.53	0.4399	2.36	1.038164		
5/18/2016	2.5	0.42	0.83	0.53	0.4399	2.38	1.046962		
5/18/2016	2.5	0.42	0.83	0.53	0.4399	2.36	1.038164		
5/18/2016	2.5	1.25	0.83	0.5	0.415	2.45	1.01675		
5/18/2016	2.5	1.25	0.83	0.5	0.415	2.37	0.98355		
5/18/2016	2.5	1.25	0.83	0.5	0.415	2.38	0.9877		
5/18/2016	2.5	2.08	0.83	0.48	0.3984	1.97	0.784848		
5/18/2016	2.5	2.08	0.83	0.48	0.3984	2	0.7968		
5/18/2016	2.5	2.08	0.83	0.48	0.3984	2	0.7968	2.829913	2.767967
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.52	0.12948		
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.52	0.12948		
6/1/2016	2.5	0.42	0.83	0.3	0.249	0.42	0.10458		
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.32	0.32868		
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.3	0.3237		
6/1/2016	2.5	1.25	0.83	0.3	0.249	1.39	0.34611		
6/1/2016	2.5	2.08	0.83	0.3	0.249	0.99	0.24651		
6/1/2016	2.5	2.08	0.83	0.3	0.249	0.96	0.23904		
6/1/2016	2.5	2.08	0.83	0.3	0.249	0.88	0.21912	0.6889	0.69554
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.69	0.17181		
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.55	0.13695		
6/14/2016	2.5	0.42	0.83	0.3	0.249	0.62	0.15438		

(

()

 $\left(\begin{array}{c} \\ \end{array}\right)$ 

6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.71	0.397404		
6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.67	0.388108		
6/14/2016	2.5	1.25	0.83	0.28	0.2324	1.7	0.39508		
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.14	0.23655		
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.2	0.249		
6/14/2016	2.5	2.08	0.83	0.25	0.2075	1.26	0.26145	0.796911	0.764111833
6/29/2016	2.5	0.42	0.83	0.3	0.249	0.52	0.12948		
6/29/2016	2.5	0.42	0.83	0.3	0.249	0.35	0.08715		
6/29/2016	2.5	0.42	0.83	0.3	0.249	0.38	0.09462		
6/29/2016	2.5	1.25	0.83	0.28	0.2324	1.57	0.364868		
6/29/2016	2.5	1.25	0.83	0.28	0.2324	1.35	0.31374		
6/29/2016	2.5	1.25	0.83	0.28	0.2324	1.36	0.316064		
6/29/2016	2.5	2.08	0.83	0.25	0.2075	1.31	0.271825		
6/29/2016	2.5	2.08	0.83	0.25	0.2075	1.27	0.263525		
6/29/2016	2.5	2.08	0.83	0.25	0.2075	1.17	0.242775	0.694682	0.716442167
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.82	0.210986		
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.92	0.236716		
7/13/2016	2.5	0.42	0.83	0.31	0.2573	0.71	0.182683		
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.58	0.39342		
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.57	0.39093		
7/13/2016	2.5	1.25	0.83	0.3	0.249	1.48	0.36852		
7/13/2016	2.5	2.08	0.83	0.24	0.1992	0.86	0.171312		
7/13/2016	2.5	2.08	0.83	0.24	0.1992	1.21	0.241032		
7/13/2016	2.5	2.08	0.83	0.24	0.1992	1.32	0.262944	0.819514	0.786660167
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.16	0.279212	_	
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.2	0.28884		
8/16/2016	2.5	0.42	0.83	0.29	0.2407	1.15	0.276805		
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.96	0.48804		
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.96	0.48804		
8/16/2016	2.5	1.25	0.83	0.3	0.249	1.96	0.48804		
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.42	0.29465		
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.32	0.2739		
8/16/2016	2.5	2.08	0.83	0.25	0.2075	1.33	0.275975	1.051167	1.0787925



#### WR-157

( )



	Width of							
	Stream	Distance	cell	depth				Total
Date	(Ft)	on Tape	width	(ft)	area (Ft^2)	velocity	discharge	Discharge (1)
5/5/2016	2.04	0.34	0.68	0.35	0.238	0.87	0.20706	
5/5/2016	2.04	0.34	0.68	0.35	0.238	0.79	0.18802	
5/5/2016	2.04	0.34	0.68	0.35	0.238	0.91	0.21658	
5/5/2016	2.04	1.02	0.68	0.36	0.2448	0.57	0.139536	
5/5/2016	2.04	1.02	0.68	0.36	0.2448	0.55	0.13464	
5/5/2016	2.04	1.02	0.68	0.36	0.2448	0.72	0.176256	
5/5/2016	2.04	1.7	0.68	0.36	0.2448	0.3	0.07344	
5/5/2016	2.04	1.7	0.68	0.36	0.2448	0.29	0.070992	
5/5/2016	2.04	1.7	0.68	0.36	0.2448	0.2	0.04896	0.418494667
5/11/2016	2.1		2.1	0.33	0.693	0.78	0.54054	
5/11/2016	2.1		2.1	0.33	0.693	0.91	0.63063	
5/11/2016	2.1		2.1	0.33	0.693	1	0.693	0.62139
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.38	0.14364	
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.38	0.14364	
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.38	0.14364	0.14364
6/1/2016	0	0	0	0	0	0	0	0
6/14/2016	0	0	0	0	0	0	0	0
6/29/2016	0	0	0	0	0	0	0	0



the second s	T								1
Date	Width of Stream (ft)	Distance on Tape	Cell Width (ft)	depth 2	Area (ft^2) 2	velocity 2	discharge 2	Total Discharge (2)	Average Total Discharge of Measurement s
									0.418494667
5/11/2016	2.1		2.1	0.33	0.693	0.97	0.67221		
5/11/2016	2.1		2.1	0.33	0.693	0.86	0.59598		
5/11/2016	2.1		2.1	0.33	0.693	1.06	0.73458	0.66759	0.64449
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.36	0.13608		
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.38	0.14364		
5/18/2016	2.1	1.05	2.1	0.18	0.378	0.3	0.1134	0.13104	0.13734
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0



C

Barely any water spilling over. Not enough flow to register with Swoffer Barely any water spilling over. Not enough flow to register with Swoffer

(

()

Date	Width of Stream (Ft)	Distance on Tape	cell width	depth (ft)	area (Ft^2)	velocity	discharge	Total Discharge (1)
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.45	1.74	
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.34	1.608	
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.37	1.644	
5/11/2016	4.5	6.25	1.5	0.83	1.245	2.66	3.3117	
5/11/2016	4.5	6.25	1.5	0.83	1.245	2.71	3.37395	
5/11/2016	4.5	6.25	1.5	0.83	1.245	2.73	3.39885	
5/11/2016	4.5	7.75	1.5	0.88	1.32	3.18	4.1976	
5/11/2016	4.5	7.75	1.5	0.88	1.32	3.2	4.224	
5/11/2016	4.5	7.75	1.5	0.88	1.32	3.01	3.9732	9.1571
5/18/2016	4.5	5.1	1.125	0.65	0.7313	1.45	1.0603125	
5/18/2016	4.5	5.1	1.125	0.65	0.7313	1.44	1.053	
5/18/2016	4.5	5.1	1.125	0.65	0.7313	1.39	1.0164375	
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.62	1.366875	
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.63	1.3753125	
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.75	1.4765625	
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.23	2.6163	
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.3	2.673	
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.26	2.6406	
5/18/2016	4.5	8.4	1.125	0.76	0.855	2.5	2.1375	
5/18/2016	4.5	8.4	1.125	0.76	0.855	2.59	2.21445	
5/18/2016	4.5	8.4	1.125	0.76	0.855	2.86	2.4453	7.35855
6/1/2016	4.6	4.56	1.53	0.74	1.1322	1.55	1.75491	
6/1/2016	4.6	4.56	1.53	0.74	1.1322	1.54	1.743588	
6/1/2016	4.6	4.56	1.53	0.74	1.1322	1.52	1.720944	
6/1/2016	4.6	6.09	1.53	0.67	1.0251	2.35	2.408985	
6/1/2016	4.6	6.09	1.53	0.67	1.0251	2.39	2.449989	
6/1/2016	4.6	6.09	1.53	0.67	1.0251	2.34	2.398734	
6/1/2016	4.6	7.62	1.53	0.54	0.8262	0.92	0.760104	
6/1/2016	4.6	7.62	1.53	0.54	0.8262	0.87	0.718794	
6/1/2016	4.6	7.62	1.53	0.54	0.8262	0.76	0.627912	4.86132
6/14/2016	4.4	4.53	1.47	0.68	0.9996	1.43	1.429428	
6/14/2016	4.4	4.53	1.47	0.68	0.9996	1.55	1.54938	
6/14/2016	4.4	4.53	1.47	0.68	0.9996	1.61	1.609356	
6/14/2016	4.4	6	1.47	0.67	0.9849	2.46	2.422854	
6/14/2016	4.4	6	1.47	0.67	0.9849	2.54	2.501646	
6/14/2016	4.4	6	1.47	0.67	0.9849	2.46	2.422854	

# Stanshaw Flow Measurement : #5 Above Log near #1

(

(

6/14/2016	4.4	7.47	1.47	0.52	0.7644	0.9	0.68796	
6/14/2016	4.4	7.47	1.47	0.52	0.7644	0.9	0.68796	
6/14/2016	4.4	7.47	1.47	0.52	0.7644	1.01	0.772044	4.694494
6/29/2016	4.3	3.9	1.43	0.59	0.8437	1.07	0.902759	
6/29/2016	4.3	3.9	1.47	0.59	0.8673	1.07	0.928011	
6/29/2016	4.3	3.9	1.47	0.59	0.8673	1.01	0.875973	
6/29/2016	4.3	5.35	1.47	0.55	0.8085	2.87	2.320395	
6/29/2016	4.3	5.35	1.47	0.55	0.8085	3.01	2.433585	
6/29/2016	4.3	5.35	1.47	0.55	0.8085	3.03	2.449755	
6/29/2016	4.3	6.78	1.47	0.36	0.5292	1.18	0.624456	
6/29/2016	4.3	6.78	1.47	0.36	0.5292	1.09	0.576828	
6/29/2016	4.3	6.78	1.47	0.36	0.5292	1.09	0.576828	3.896196667
7/13/2016	4	3.87	1.33	0.55	0.7315	0.79	0.577885	
7/13/2016	4	3.87	1.33	0.55	0.7315	0.76	0.55594	
7/13/2016	4	3.87	1.33	0.55	0.7315	0.8	0.5852	
7/13/2016	4	5.2	1.33	0.5	0.665	1.75	1.16375	
7/13/2016	4	5.2	1.33	0.5	0.665	1.8	1.197	
7/13/2016	4	5.2	1.33	0.5	0.665	<u>1.</u> 86	1.2369	
7/13/2016	4	6.53	1.33	0.51	0.6783	2.35	1.594005	
7/13/2016	4	6.53	1.33	0.51	0.6783	2.4	1.62792	
7/13/2016	4	6.53	1.33	0.51	0.6783	2.25	1.526175	3.354925
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.83	0.59262	
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.85	0.6069	
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.76	0.54264	
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.76	1.232	
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.76	1.232	
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.77	1.239	
8/15/2016	4.2	6	1.4	0.35	0.49	1.02	0.4998	
8/15/2016	4.2	6	1.4	0.35	0.49	0.94	0.4606	
8/15/2016	4.2	6	1.4	0.35	0.49	1.03	0.5047	2.30342

Date	Width of Stream (ft)	Distance on Tape	Cell Width (ft)	depth 2	Area (ft^2) 2	velocity 2	discharge 2	Total Discharge (2)	Average Total Discharge of Measurements
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.67	2.004		
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.65	1.98		
5/11/2016	4.5	4.75	1.5	0.8	1.2	1.68	2.016		
5/11/2016	4.5	6.25	1.5	0.8	1.2	2.57	3.084		
5/11/2016	4.5	6.25	1.5	0.8	1.2	2.64	3.168		
5/11/2016	4.5	6.25	1.5	0.8	1.2	2.55	3.06		
5/11/2016	4.5	7.75	1.5	0.85	1.275	3.34	4.2585		
5/11/2016	4.5	7.75	1.5	0.85	1.275	3.22	4.1055		
5/11/2016	4.5	7.75	1.5	0.85	1.275	3.4	4.335	9.337	9.24705
5/18/2016	4.5	5.1	1.125	0.64	0.72	1.29	0.9288		
5/18/2016	4.5	5.1	1.125	0.64	0.72	1.15	0.828		
5/18/2016	4.5	5.1	1.125	0.64	0.72	1.27	0.9144		
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.28	1.08		
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.31	1.1053125		
5/18/2016	4.5	6.22	1.125	0.75	0.8438	1.34	1.130625		
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.38	2.7378		
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.3	2.673		
5/18/2016	4.5	7.3	1.125	0.72	0.81	3.35	2.7135		
5/18/2016	4.5	8.4	1.125	0.78	0.8775	2.71	2.378025		
5/18/2016	4.5	8.4	1.125	0.78	0.8775	2.81	2.465775		
5/18/2016	4.5	8.4	1.125	0.78	0.8775	2.69	2.360475	7.105238	7.23189375
6/1/2006	4.6	4.56	1.53	0.76	1.1628	1.46	1.697688		
6/1/2016	4.6	4.56	1.53	0.76	1.1628	1.35	1.56978		
6/1/2016	4.6	4.56	1.53	0.76	1.1628	1.41	1.639548		
6/1/2016	4.6	6.09	1.53	0.7	1.071	2.17	2.32407		
6/1/2016	4.6	6.09	1.53	0.7	1.071	2.35	2.51685		
6/1/2016	4.6	6.09	1.53	0.7	1.071	2.4	2.5704		
6/1/2016	4.6	7.62	1.53	0.55	0.8415	1.33	1.119195		
6/1/2016	4.6	7.62	1.53	0.55	0.8415	1.49	1.253835		
6/1/2016	4.6	7.62	1.53	0.55	0.8415	1.33	1.119195	5.270187	5.0657535
6/14/2016	4.4	4.53	1.47	0.64	0.9408	1.41	1.326528		
6/14/2016	4.4	4.53	1.47	0.64	0.9408	1.43	1.345344		
6/14/2016	4.4	4.53	1.47	0.64	0.9408	1.4	1.31712		
6/14/2016	4.4	6	1.47	0.69	1.0143	2.56	2.596608		
6/14/2016	4.4	6	1.47	0.69	1.0143	2.58	2.616894		
6/14/2016	4.4	6	1.47	0.69	1.0143	2.53	2.566179		
6/14/2016	4.4	7.47	1.47	0.5	0.735	1.04	0.7644		
-----------	-----	------	------	------	--------	------	----------	----------	-------------
6/14/2016	4.4	7.47	1.47	0.5	0.735	1.09	0.80115		
6/14/2016	4.4	7.47	1.47	0.5	0.735	0.97	0.71295	4.682391	4.6884425
6/29/2016	4.3	3.9	1.43	0.57	0.8151	1.06	0.864006		
6/29/2016	4.3	3.9	1.47	0.57	0.8379	1.01	0.846279		
6/29/2016	4.3	3.9	1.47	0.57	0.8379	1.04	0.871416		
6/29/2016	4.3	5.35	1.47	0.55	0.8085	2.58	2.08593		
6/29/2016	4.3	5.35	1.47	0.55	0.8085	2.69	2.174865		
6/29/2016	4.3	5.35	1.47	0.55	0.8085	2.91	2.352735		
6/29/2016	4.3	6.78	1.47	0.35	0.5145	1.91	0.982695		
6/29/2016	4.3	6.78	1.47	0.35	0.5145	1.82	0.93639		
6/29/2016	4.3	6.78	1.47	0.35	0.5145	1.94	0.99813	4.037482	3.966839333
7/13/2016	4	3.87	1.33	0.56	0.7448	1.21	0.901208		
7/13/2016	4	3.87	1.33	0.56	0.7448	1.2	0.89376	_	
7/13/2016	4	3.87	1.33	0.56	0.7448	1.19	0.886312		
7/13/2016	4	5.2	1.33	0.55	0.7315	1.95	1.426425		
7/13/2016	4	5.2	1.33	0.55	0.7315	1.91	1.397165		
7/13/2016	4	5.2	1.33	0.55	0.7315	1.98	1.44837		
7/13/2016	4	6.53	1.33	0.43	0.5719	2.59	1.481221		
7/13/2016	4	6.53	1.33	0.43	0.5719	2.61	1.492659		
7/13/2016	4	6.53	1.33	0.43	0.5719	2.53	1.446907	3.791342	3.573133667
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.69	0.49266		
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.71	0.50694		
8/15/2016	4.2	3.2	1.4	0.51	0.714	0.73	0.52122		
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.62	1.134		
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.65	1.155		
8/15/2016	4.2	4.6	1.4	0.5	0.7	1.67	1.169		
8/15/2016	4.2	6	1.4	0.35	0.49	1.14	0.5586		
8/15/2016	4.2	6	1.4	0.35	0.49	1.07	0.5243		
8/15/2016	4.2	6	1.4	0.35	0.49	1.13	0.5537	2.20514	2.25428





## **6ft Above Diversion**

	Width of	Distance		d A h				
Date	(Ft)	on Tape	ceii width	aeptn (ft)	area (Ft^2)	velocity	discharge	Total Discharge (1)
5/18/2016	6.5	5.3	1.625	0.36	0.585	0.6	0.351	
5/18/2016	6.5	5.3	1.625	0.36	0.585	0.6	0.351	· · · ·
5/18/2016	6.5	5.3	1.625	0.36	0.585	0.67	0.39195	
5/18/2016	6.5	6.925	1.625	0.6	0.975	1.49	1.45275	
5/18/2016	6.5	6.925	1.625	0.6	0.975	1.38	1.3455	
5/18/2016	6.5	6.925	1.625	0.6	0.975	1.44	1.404	
5/18/2016	6.5	8.5	1.625	0.62	1.008	1.8	1.8135	
5/18/2016	6.5	8.5	1.625	0.62	1.008	1.81	1.823575	
5/18/2016	6.5	8.5	1.625	0.62	1.008	1.79	1.803425	
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.65	0.876688	
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.76	1.02505	
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.75	1.011563	4.55
6/1/2016	6.8	4.45	1.7	0.45	0.765	0.46	0.3519	
6/1/2016	6.8	4.45	1.7	0.45	0.765	0.42	0.3213	
6/1/2016	6.8	4.45	1.7	0.45	0.765	0.45	0.34425	
6/1/2016	6.8	6.15	1.7	0.5	0.85	1.71	1.4535	
6/1/2016	6.8	6.15	1.7	0.5	0.85	1.75	1.4875	
6/1/2016	6.8	6.15	1.7	0.5	0.85	1.68	1.428	
6/1/2016	6.8	7.85	1.7	0.84	1.428	1.48	2.11344	
6/1/2016	6.8	7.85	1.7	0.84	1.428	1.35	1.9278	
6/1/2016	6.8	7.85	1.7	0.84	1.428	1.5	2.142	
6/1/2016	6.8	9.55	1.7	1	1.7	0.46	0.782	
6/1/2016	6.8	<u>9.55</u>	1.7	1	1.7	0.49	0.833	
6/1/2016	6.8	9.55	1.7	1	1.7	0.53	0.901	4.69523
6/14/2016	7.4	4.52	1.85	0.32	0.592	0.6	0.3552	
6/14/2016	7.4	4.52	1.85	0.32	0.592	0.61	0.36112	
6/14/2016	7.4	4.52	1.85	0.32	0.592	0.61	0.36112	
6/14/2016	7.4	6.37	1.85	0.5	0.925	1.94	1.7945	
6/14/2016	7.4	6.37	1.85	0.5	0.925	1.96	1.813	
6/14/2016	7.4	6.37	1.85	0.5	0.925	1.92	1.776	
6/14/2016	7.4	8.22	1.85	0.75	1.388	1.75	2.428125	
6/14/2016	7.4	8.22	1.85	0.75	1.388	1.72	2.3865	
6/14/2016	7.4	8.22	1.85	0.75	1.388	1.75	2.428125	
6/14/2016	7.4	10.08	1.85	0.69	1.277	0.1	0.12765	
6/14/2016	7.4	10.08	1.85	0.69	1.277	0.15	0.191475	
6/14/2016	7.4	10.08	1.85	0.69	1.277	0.1	0.12765	4.716821667

(

(

Stopped collecting flow as site (6/29/16) became unusable with lower flows

(

Date	Width of Stream (ft)	Distance on Tape	Cell Width (ft)	depth 2	Area (ft^2) 2	velocity 2	discharge 2	Total Discharge (2)	Average Total Discharge of Measurements
5/18/2016	6.5	5.3	1.625	0.34	0.553	0.86	0.47515		
5/18/2016	6.5	5.3	1.625	0.34	0.553	0.74	0.40885		
5/18/2016	6.5	5.3	1.625	0.34	0.553	0.81	0.447525		
5/18/2016	6.5	6.925	1.625	0.62	1.008	1.84	1.8538		
5/18/2016	6.5	6.925	1.625	0.62	1.008	1.74	1.75305		
5/18/2016	6.5	6.925	1.625	0.62	1.008	1.67	1.682525		
5/18/2016	6.5	8.5	1.625	0.65	1.056	1.91	2.017438		
5/18/2016	6.5	8.5	1.625	0.65	1.056	1.9	2.006875		
5/18/2016	6.5	8.5	1.625	0.65	1.056	1.97	2.080813		
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.72	0.9711		
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.75	1.011563		
5/18/2016	6.5	10.1	1.625	0.83	1.349	0.73	0.984588	5.231092	4.890545833
6/1/2016	6.8	4.45	1.7	0.44	0.748	0.37	0.27676		
6/1/2016	6.8	4.45	1.7	0.44	0.748	0.41	0.30668		
6/1/2016	6.8	4.45	1.7	0.44	0.748	0.38	0.28424		
6/1/2016	6.8	6.15	1.7	0.55	0.935	2	1.87		
6/1/2016	6.8	6.15	1.7	0.55	0.935	1.97	1.84195		
6/1/2016	6.8	6.15	1.7	0.55	0.935	1.92	1.7952		
6/1/2016	6.8	7.85	1.7	0.85	1.445	1.63	2.35535		
6/1/2016	6.8	7.85	1.7	0.85	1.445	1.73	2.49985		
6/1/2016	6.8	7.85	1.7	0.85	1.445	1.69	2.44205		
6/1/2016	6.8	9.55	1.7	1	1.7	0.23	0.391		
6/1/2016	6.8	9.55	1.7	1	1.7	0.27	0.459		
6/1/2016	6.8	9.55	1.7	1	1.7	0.19	0.323	4.94836	4.821795
6/14/2016	7.4	4.52	1.85	0.33	0.611	0.59	0.360195		
6/14/2016	7.4	4.52	1.85	0.33	0.611	0.6	0.3663		
6/14/2016	7.4	4.52	1.85	0.33	0.611	0.59	0.360195		
6/14/2016	7.4	6.37	1.85	0.55	1.018	1.87	1.902725		
6/14/2016	7.4	6.37	1.85	0.55	1.018	1.89	1.923075		
6/14/2016	7.4	6.37	1.85	0.55	1.018	1.81	1.841675		
6/14/2016	7.4	8.22	1.85	0.79	1.462	1.79	2.616085		
6/14/2016	7.4	8.22	1.85	0.79	1.462	1.77	2.586855		
6/14/2016	7.4	8.22	1.85	0.79	1.462	1.84	2.68916		
6/14/2016	7.4	10.08	1.85	0.73	1.351	0.27	0.364635		
6/14/2016	7.4	10.08	1.85	0.73	1.351	0.13	0.175565		
6/14/2016	7.4	10.08	1.85	0.73	1.351	0.15	0.202575	5.12968	4.923250833

Stopped collecting flow as site (6/29/16) became unusable with lower flows





(

(

## #8 at mouth of 96 Culverts

	Width of							Total
Date (south	Stream	Distance			area			Discharge
culvert)	(Ft)	on Tape	cell width	depth (ft)	(Ft^2)	velocity	discharge	(1)
5/18/2016	4	1.66	1.33	0.06	0.0798	4.64	0.370272	
5/18/2016	4	1.66	1.33	0.06	0.0798	4.67	0.372666	
5/18/2016	4	1.66	1.33	0.06	0.0798	4.79	0.382242	
5/18/2016	4	2.99	1.33	0.2	0.266	4.41	1.17306	
5/18/2016	4	2.99	1.33	0.2	0.266	4.41	1.17306	
5/18/2016	4	2.99	1.33	0.2	0.266	4.43	1.17838	
5/18/2016	4	4.3	1.33	0.1	0.133	3.59	0.47747	
5/18/2016	4	4.3	1.33	0.1	0.133	3.72	0.49476	
5/18/2016	4	4.3	1.33	0.1	0.133	3.62	0.48146	2.03445667
6/1/2016	3	4.3	1	0.18	0.18	4.84	0.8712	
6/1/2016	3	4.3	1	0.18	0.18	4.9	0.882	
6/1/2016	3	4.3	1	0.18	0.18	5.02	0.9036	
6/1/2016	3	5.3	1	0.22	0.22	4.15	0.913	
6/1/2016	3	5.3	1	0.22	0.22	4.4	0.968	
6/1/2016	3	5.3	1	0.22	0.22	4.33	0.9526	
6/1/2016	3	6.3	1	0.15	0.15	4.94	0.741	
6/1/2016	3	6.3	1	0.15	0.15	5.13	0.7695	
6/1/2016	3	6.3	_ 1	0.15	0.15	5.13	0.7695	2.59013333
6/14/2016	3	3.5	1	0.14	0.14	4.34	0.6076	
6/14/2016	3	3.5	1	0.14	0.14	4.37	0.6118	
6/14/2016	3	3.5	1	0.14	0.14	4.35	0.609	
6/14/2016	3	4.5	1	0.21	0.21	1.71	0.3591	
6/14/2016	3	4.5	1	0.21	0.21	1.83	0.3843	
6/14/2016	3	4.5	1	0.21	0.21	1.97	0.4137	
6/14/2016	3	5.5	1	0.13	0.13	5.86	0.7618	
6/14/2016	3	5.5	1	0.13	0.13	5.86	0.7618	
6/14/2016	3	5.5	1	0.13	0.13	5.83	0.7579	1.75566667
6/29/2016	2.9	2.88	0.96	0.12	0.1152	3.57	0.411264	
6/29/2016	2.9	2.88	0.96	0.12	0.1152	3.59	0.413568	
6/29/2016	2.9	2.88	0.96	0.12	0.1152	3.55	0.40896	
6/29/2016	2.9	3.84	0.96	0.21	0.2016	1.87	0.376992	
6/29/2016	2.9	3.84	0.96	0.21	0.2016	2.12	0.427392	
6/29/2016	2.9	3.84	0.96	0.21	0.2016	2.1	0.42336	
6/29/2016	2.9	4.8	0.96	0.17	0.1632	5.23	0.853536	
6/29/2016	2.9	4.8	0.96	0.17	0.1632	5.12	0.835584	
6/29/2016	2.9	4.8	0.96	0.17	0.1632	4.86	0.793152	1.647936
7/13/2016	2	3.43	0.67	0.12	0.0804	6	0.4824	
7/13/2016	2	3.43	0.67	0.12	0.0804	6.03	0.484812	
7/13/2016	2	3.43	0.67	0.12	0.0804	6.04	0.485616	
7/13/2016	2	4.1	0.67	0.12	0.0804	6.05	0.48642	

7/13/2016	2	4.1	0.67	0.12	0.0804	6.36	0.511344	
7/13/2016	2	4.1	0.67	0.12	0.0804	6.17	0.496068	
7/13/2016	2	4.77	0.67	0.13	0.0871	3.83	0.333593	
7/13/2016	2	4.77	0.67	0.13	0.0871	3.81	0.331851	
7/13/2016	2	4.77	0.67	0.13	0.0871	3.86	0.336206	1.31610333
8/16/2016	2	3	1	0.1	0.1	5.46	0.546	
8/16/2016	2	3	1	0.1	0.1	5.51	0.551	
8/16/2016	2	3	1	0.1	0.1	5.52	0.552	0.54966667
8/16/2016	2	4	1	0.09	0.09	3.15	0.2835	
8/16/2016	2	4	1	0.09	0.09	3.52	0.3168	0.3042
8/16/2016	2	4	1	0.09	0.09	3.47	0.3123	0.85386667

(

			Cell					Total	Average Total
Date (north	Width of	Distance	Width	depth	Area	velocity	discharge	Discharge	Discharge of
culvert)	Stream (ft)	on Tape	(ft)	2	(ft^2) 2	2	2	(2)	Measurements
5/18/2016	3.2	2.59	1.07	0.18	0.1926	4.35	0.83781		
5/18/2016	3.2	2.59	1.07	0.18	0.1926	4.33	0.833958		
5/18/2016	3.2	2.59	1.07	0.18	0.1926	4.29	0.826254		
5/18/2016	3.2	3.6	1.07	0.1	0.107	5.66	0.60562		
5/18/2016	3.2	3.6	1.07	0.1	0.107	5.61	0.60027		
5/18/2016	3.2	3.6	1.07	0.1	0.107	5.82	0.62274		
5/18/2016	3.2	4.65	1.07	0.55	0.5885	2.17	1.277045		
5/18/2016	3.2	4.65	1.07	0.55	0.5885	2.09	1.229965		
5/18/2016	3.2	4.65	1.07	0.55	0.5885	2.2	1.2947	2.709454	4.743910667
6/1/2016	3.5	4.37	1.17	0.6	0.702	2.74	1.92348		
6/1/2016	3.5	4.37	1.17	0.6	0.702	2.77	1.94454		
6/1/2016	3.5	4.37	1.17	0.6	0.702	2.83	1.98666		
6/1/2016	3.5	5.53	1.17	0.07	0.0819	5.04	0.412776		
6/1/2016	3.5	5.53	1.17	0.07	0.0819	4.73	0.387387		
6/1/2016	3.5	5.53	1.17	0.07	0.0819	4.76	0.389844		
6/1/2016	3.5	6.7	1.17	0.18	0.2106	1.88	0.395928		
6/1/2016	3.5	6.7	1.17	0.18	0.2106	1.75	0.36855		
6/1/2016	3.5	6.7	1.17	0.18	0.2106	2.37	0.499122	2.769429	5.359562333
6/14/2016	2.7	2.95	0.9	0.43	0.387	4.06	1.57122		
6/14/2016	2.7	2.95	0.9	0.43	0.387	4.07	1.57509		
6/14/2016	2.7	2.95	0.9	0.43	0.387	4.08	1.57896		· · · · · · · · · · · · · · · · · · ·
6/14/2016	2.7	3.85	0.9	0.12	0.108	5.74	0.61992		
6/14/2016	2.7	3.85	0.9	0.12	0.108	5.66	0.61128		
6/14/2016	2.7	3.85	0.9	0.12	0.108	5.67	0.61236		
6/14/2016	2.7	4.75	0.9	0.1	0.09	3.57	0.3213		
6/14/2016	2.7	4.75	0.9	0.1	0.09	3.57	0.3213		
6/14/2016	2.7	4.75	0.9	0.1	0.09	3.69	0.3321	2.51451	4.270176667
6/29/2016	2.2	4.46	0.73	0.45	0.3285	3.33	1.093905		
6/29/2016	2.2	4.46	0.73	0.45	0.3285	3.42	1.12347		
6/29/2016	2.2	4.46	0.73	0.45	0.3285	3.38	1.11033		
6/29/2016	2.2	5.19	0.73	0.14	0.1022	5.64	0.576408		
6/29/2016	2.2	5.19	0.73	0.14	0.1022	5.67	0.579474		
6/29/2016	2.2	5.19	0.73	0.14	0.1022	5.64	0.576408		
6/29/2016	2.2	5.992	0.73	0.09	0.0657	3.37	0.221409		
6/29/2016	2.2	5.92	0.73	0.09	0.0657	3.48	0.228636		
6/29/2016	2.2	5.92	0.73	0.09	0.0657	3.44	0.226008	1.912016	3.559952
7/13/2016	2.3	0.68	0.77	0.29	0.2233	4.49	1.002617		
7/13/2016	2.3	0.68	0.77	0.29	0.2233	4.52	1.009316		
7/13/2016	2.3	0.68	0.77	0.29	0.2233	4.52	1.009316		
7/13/2016	2.3	1.45	0.77	0.09	0.0693	5.04	0.349272		

		0.343728	4.96	0.0693	0.09	0.77	1.45	2.3	7/13/2016
		0.336798	4.86	0.0693	0.09	0.77	1.45	2.3	7/13/2016
		0.13398	2.9	0.0462	0.06	0.77	2.22	2.3	7/13/2016
		0.129822	2.81	0.0462	0.06	0.77	2.22	2.3	7/13/2016
2.799816333	1.483713	0.13629	2.95	0.0462	0.06	0.77	2.22	2.3	7/13/2016
		0.972675	3.93	0.2475	0.33	0.75	2.88	1.5	8/16/2016
		0.972675	3.93	0.2475	0.33	0.75	2.88	1.5	8/16/2016
	0.974325	0.977625	3.95	0.2475	0.33	0.75	2.88	1.5	8/16/2016
		0.23175	3.09	0.075	0.1	0.75	3.63	1.5	8/16/2016
	0.23225	0.23625	3.15	0.075	0.1	0.75	3.63	1.5	8/16/2016
2.060441667	1.206575	0.22875	3.05	0.075	0.1	0.75	3.63	1.5	8/16/2016



Site #8: Inside 96 Cuvlerts



003535



#### 7/11/16

Based on examination and evaluation of the existing AC hydro power system as well as year round electrical load demands of Marble Mountain Ranch Resort (see attached calculation), we recommend converting and to interconnect the existing AC hydro system for winter use with 60KW propane generator and a 80KW (5280 sqf of space) photovoltaic system with 300KWh Aquion salt water battery at 90 % dod. (aquionenergy.com) This new system is the minimum size necessary to cover energy consumption of 126,265.68 KWh a year (see attached) by marble mountain ranch resort.

Due to variations in load distances some load (not all) need to be supplied at 480 V and step down to system voltage of 120/240V AC at load destination. Some loads power supply will stay at 120/240V.

This solution will minimize or eliminate need to rebuild the extensive existing power distribution at marble mountain ranch and stay in compliance with new water regulations.

hybrid hi energy efficiency system main componence supply and installation (Turn key)

80KW solar PV ground mount (5280sqf)

300KWh salt water storage (Aquion)

60KW generac propane generator

2x 1000 gl LP tanks

Steel/aluminum mounting structure

Inverters, transformers, disconnect

New electrical room

Grand total 425,000.000 US dollars

It would be interesting to look also in to PG&E solution as the only possible reliable solution besides this proposal.

If you have any questions or concerns please feel free to contact by email or phone.

Pavel Nalezek RMO

Office 530 629 4240

Cell 530 277 5345

Address P.O.Box 251 Salyer CA 95563

humboldtsolar.net

#### Doug,

I have a completed quote of \$526,000 for the 65kW solar with 500 kWh battery packaged in two shipping containers and replacement underground 240V electrical grid with a new panel at each building (100A for the houses and 50A for each cabin) using the nickel-iron technology <u>http://ironedison.com/high-voltage-nickel-iron-battery</u> with the Princeton all-in-one microgrid inverter <u>http://ironedison.com/100kw-solar-and-battery-inverter-by-princeton-power-dri100</u>. It is higher than the other quote but will virtually eliminate diesel use due to the nearly double battery capacity and battery is what costs.

I am awaiting a competitive quote from a manufacturer of flow batteries (see attached). These two are the only technologies that offer a 20+ year warranty on the batteries like the PV panels have. With the freight and their container, the batteries are over half the cost of the system, you don't want to have to replace them, ever. The Aquion and LI-ion batteries have 8 and10 year warranties, respectively. You may choose from either SolarWorld or LG for the solar panels both of which have 25 year warranties.

I also obtained a lease quote that I have attached but it has no provision for any grants or other cost reductions that I may find through the CSE (who I haven't heard back from, yet). In this, the lender takes the tax benefits so the net cost is less than the purchase price and the payments of \$55,130 per year are about \$20,000 per year more than the diesel cost, at todays rate. It is a 6 year lease, then there is a \$142K payoff and you own it outright. I plan to use that \$20K/year as a target for a subsidy through CSE. We could also put it out to Joey and see what the State officials say.

I have requested a PACE quote which would be longer term but would provide you with about \$270,000 in tax savings which could be used over a 5-10 year period. These loans are simple to obtain but typically have higher rates (probably around \$4,000/month for 20 years) than a mortgage which would offer the same tax benefits for about \$750-800 per month less. If you can use the tax benefits you could probably prepay the loan as you recover them and own it within 8 years or less. Or use the tax savings to grow the business.

I will forward the additional information as soon as I get it and always feel free to call if you want.

Hal Slater Hal@GoldenWestEnergy.com (619) 248-3592 Lic. 474818 B/C46 www.goldenwestenergy.com





# Performance -Safety

Value



Hydra Plant

## 

APPENDIX A
Proposal Application Form
Section 1: Summary Information 1. <u>Applicant name</u> : Mid Klamath Watershed Council
<ul> <li>2. <u>Contact person</u>: Will Harling</li> <li>3. <u>Address</u>: Box 840</li> <li>4. <u>City</u>: Somes Bar</li> <li>5. <u>State</u>: CA</li> <li>6. <u>ZIP</u>: 95568</li> <li>7. <u>Telephone number</u>: (530) 469-3216</li> <li>8. <u>FAX number</u>: (530) 469-3372</li> <li>9. <u>Email address</u>: wharling@sisqtel.net</li> </ul>
10. <u>Type</u> : Public Agency 🗌 Nonprofit Organization 🛛 Private Enterprise 🗌 Indian Tribe 🖾
11. <u>OSBCR Certified Small Business</u> ? If yes, specify the industry group and Small Business Reference Number:
12. Past contractor?
13. Federal taxpayer ID: 20-1501256
14. Project type: Water Conservation
15. Project title: 2004 Stanshaw Creek Water Conservation Project - Phase I
6. <u>Amount requested</u> :
17. Total project cost:
18. <u>Salmonid species benefited</u> : Chinook 🛛 Coho 🖾 Steelhead 🖾 Cutthroat 🗌
19. <u>Project summary</u> : This project will pipe return water diverted from Stanshaw Creek to Marble Mountain Ranch for power generation back to Stanshaw Creek. Currently as much as 3 cfs is diverted via ditch out of the Stanshaw Creek basin into Irving Creek.
20. <u>Stream</u> : Stanshaw Creek
21. <u>Tributary to</u> : Klamath River
22. Major drainage system: Klamath River
23. <u>County(ies):</u> Siskiyou
24. Within Coastal Zone? Within Trinity River basin? Within Klamath River basin?

#### **Section 2: Location Information**

- 1. Township, Range, Section: T13 R6E Sec 33
- ?. Latitude, Longitude (in decimal degrees): 41.30.00 N, 123.30.00 W

3. Location description: Project will install a 12" return flow pipe from the hydroelectric plant on Marble Mountain Ranch to the upstream inlet of the Stanshaw Creek Highway 96 culvert (3200 ft) (see attached map and drawing). Project is located 7.5 miles north

(

of Somes Bar, CA, along Hwy 96. Project is approx. 1800 feet above confluence of Stanshaw Creek with the Klamath River.

FROM YREKA go North on Highway 263 to the junction with Highway 96, then proceed South-West 63 miles to Happy Camp and continue another 30 miles to the ranch. Marble Mountain Ranch (MMR) is on the left side of the road up a ramped driveway. Driving time is about 2 hours from Yreka.

FROM REDDING proceed West on highway 299 for 109 miles to Willow Creek. Take highway 96 North 47 miles to Somes Bar, then continue North 7 1/2 miles to MMR on your right. Driving time is about 3 hours from Redding.

FROM EUREKA go North on highway 101 and proceed East on highway 299 for 50 miles to Willow Creek. Take highway 96 North 47 miles to Somes Bar and proceed North 7 1/2 miles to MMR on your right. Driving time is about 2 hours from Eureka.

Doug and Heidi Cole live in the big white house on the left as you enter the ranch. Ph #530-469-3322.

#### Section 3: Watershed Information

- 1. Major Drainage Name: Klamath River
- 2. Watershed Name: Stanshaw Creek
- 3. <u>Watershed area</u>: Stanshaw Creek
- 4. <u>Watershed area included in this proposal</u>: Lower portion of Stanshaw Creek Watershed

5. <u>Land use statement</u>: Private lands: Ditch and pipe 580 ft from hydro plant across MMR property to inboard ditch on HWY 96. 2060 ft along Highway 96 inboard ditch, and 460 ft across level fill to top of Stanshaw Creek culvert above HWY 96 (all Cal Trans right of way).

- 6. <u>Project area ownership:</u> <u>% private</u>: 19 <u>% state</u>: 81 <u>% federal</u>: 0
- 7. Project area with landowners supportive of proposal: 100%
- 8. <u>Watershed length of blue line streams</u>: NA
- 9. Length of blue line streams affected by proposal: 0.5 mi.
- 10. Salmonids present: Coho (Oncorhyncus kisutch), Steelhead (Oncorhyncus mykiss), Chinook (Oncorhyncus tshawytscha)
- 11. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department
- 12. Salmonids historically present: same
- 13. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department
- '4. Limiting factors to salmonids: Stream Flow, Connectivity, Thermal Refugia
- 15. Source(s) of above information: USFS Orleans and Happy Camp RD Staff, Karuk Tribe Fisheries Department

#### Section 4: Project Objectives

- 1. <u>Background and Need for project</u>: Currently, there is an interbasin transfer via a ditch carrying 1.5 to 3.0 cfs from Stanshaw Creek to Irving Creek, located 7.5 miles north of Somes Bar on the Klamath River. This diversion is listed in the DFG Coho Recovery Plan for the state as a high priority for restoration. Past conflict over flows, thermal refugia, and connectivity in Stanshaw Creek have highlighted the need to increase instream flows, particularly in the anadromous section below the Hwy 96 culvert. Since 2003 landowners, agency, and tribal personnel have been working together to find a solutionn that provides for salmonid habitat needs, without unduly impacting the Marble Mountain Ranch. All stakeholders concur that returning Stanshaw Creek flows above the Hwy 96 culvert is the first step to improve anadromous habitat there. Acting on this, the Karuk Tribe, NRCS and MKWC combined resources over the summer to conduct flow monitoring and engineer the return of Stanshaw flows. Siskiyou Telephone is laying fiber optic line sometime after April 2005, and is burying the line deep enough that the return pipe could be laid on top, thus saving the trouble of re-digging the ground and risking damage to the fiber optic line. Coordinating with the contract to lay both lines at once will greatly reduce the cost of project. Funds are needed to puchase pipe, and to cover installation fees above what it costs the contractor to install the fiber optic.
- 2. Known limiting factors addressed by project: Thermal Refugia, Juvenile Salmonid Habitat, Connectivity, Spawning Habitat

3. <u>Limiting factor remediation</u>: Increasing flows in Stanshaw Creek, particularly in the late summer months, will increase the amount of quality cold water refugial habitat. Whereas Irving Creek is channelized at its confluence with the Klamath River, Stanshaw Creek empties and ponds into a flood scoured side channel of the Klamath River. This pond is a classic example of juvenile oho habitat: shaded and lined with overhanging vegetation and coarse woody debris. Annual summer surveys by the Karuk Tribe Fisheries Department show 500 or more juvenile coho utilizing this habitat on a good year. Surveys show intermittent use of the creek above this pool to the barrier at the Hwy 96 culvert downspout. With higher flows, this habitat should be more utilized. Higher flows will also help maintain connectivity to the mainstem Klamath. Tribal fisheries technicians have observed juvenile coho

migrating up small creeks to escape warm mainstem temperatures (Soto 2004). Large numbers of juveniles in this pool indicate that migration from the Klamath into this refugial habitat is occurring. Higher flows will also expand the availability and quality of spawning habitat. Cal Trans has identified this fish passage barrier and has plans to someday upgrade the culvert or make a bridge and restore flat spawning habitat under the Hwy 96 fill and upstream.

4. <u>Additional objectives</u>: This project will return diverted water to Stanshaw Creek and end the interbasin transfer to Irving Creek. It will bring a diverse group of stakeholders, tribes and agencies together for planning and implementation. These include all effected landowners, California Department of Fish and Game, Karuk Tribe of California, Natural Resources Conservation Service, NOAA Fisheries, Mid Klamath Watershed Council, US Forest Service, State Water Resources Control Board, and the Klamath Forest Alliance. By forging a working relationship on Phase I of this project, chances of reaching consensus on Phase II (screening the inlet to the MMR water system, piping 4500 feet of ditch to the hydro plant, decreasing electrical demands through increasing power system efficiency) will be increased.

### Section 5: Project Tasks and Results

- <u>Detailed Project Tasks</u>: Receive grant (March, 2005). Coordinate NEPA, and rider to Siskiyou Telephone Company's encroachment permit with CalTrans (April, 2005). Purchase materials (April 2005). Coordinate installation with Siskiyou Telephone and their contractor, agencies, tribes and landowners (May July, 2005). Monitor project installation through before and after photos from landmarked photopoints (May August, 2005). Write progress reports (May August, 2005). Write final report to DFG (February, 2006).
- 2. <u>Time frame</u>: March 1, 2005 to February 28, 2006.
- 3. DFG acceptable protocols used in project development and completion:
  - DFG Restoration Manual List:
     DFG Monitoring Protocols List:
     Fish, Farms and Forestry Coalition Draft Protocols List:
     PWA Road Assessment
     Star Worksheet Road Assessment
  - V-Star residual Pool Volume
  - Juvenile summer abundance estimation
  - Out-migrant trapping and efficiency
  - California Content Standards
    - National Science Content Standards
- 4. Other protocols:

5. Deliverables: This project will return 1.5 - 3.0 cfs continuous flow to Stanshaw Creek above the Hwy 96 culvert.

- 6. Expected Quantitative Results:
  - a. Stream length treated/assessed/made more accessible (distance in feet): 1800 ft
  - b. Instream habitat structures to be installed (number):
  - c. Fencing length to be installed/repaired (distance in feet):
  - d. Road length treated/assessed (distance in miles):
  - e. Stream crossings treated (number):
  - f. Sediment prevented from entering the stream (volume in cubic yards):
  - g. Trees planted (number):
  - h. Area planted/preserved/assessed (area in acres):
  - i. Public meetings (number):
  - j. Public meeting attendees (number):
  - k. Students trained (number):
  - I. <u>Juvenile fish produced</u>: <u>released</u>:

. <u>Other products and results</u>: Collaboration among a diverse group of stakeholders.

8. <u>Applicant's qualifications and experience</u>: The Mid Klamath Watershed Council has been coordinating restoration activities in the Mid Klamath Subbasin since 2001. Including the work of or subsidiary, the Orleans/Somes Bar Fire Safe Council, we have

received over \$900,000 to plan and implement watershed education and restoration projects, including water quality and streamflow monitoring, thermal refugia enhancement, hazard fuels reduction, riparian planting, noxious weed removal, community education, a quarterly newsletter, and more. We recently received our non-profit status, which has allowed us to hire an office manager/accountant, and increased our ability to handle more project work.

9. <u>Previously completed projects and outcomes under grant program</u>: We have received one organizational support grant from the DFG, which became active in September, 2004. Our first progress report was submitted in January, 2005.

#### Section 6: Landowners, Access and Permits

1. Landowners granting access for project (Please attach access agreements): Doug and Heidi Cole, owners of Marble Mountain Ranch.

- 2. Permits: NEPA
- 3. Lead CEQA agency:
- 4. <u>Required mitigation</u>?

#### **Section 7: Project Budget**

1. Summary Project Costs (Please attach detailed budget):

Server of Finite	Cash		Trag
Fisheries Restoration Grant Program		ilian tomor a surraumentar anno	
Other State Agencies Name(s) and amount(s) of each:			
Federal Name(s) and amount(s) of each:			
Applicant			
Other Sources Name(s) and amount(s) of each:			
Total			

- 2. Standardized Costs:
- 3. Budget justification:
- 4. Administrative Overhead:

#### Section 8: Supplemental or Specialized Information

In the following order, please attach the following required items, as appropriate to the project type:

- 1. Project budget according to the sample in the Solicitation. See examples and instructions on pages B10-B14. (ALL)
- 2. Plan view diagram. See example on page B9.
- (CC, CF, FL, HB, HI, HR, HS, HU, MO, PM, SC, TW, WC, WD) 3. Project location topo map, 7.5 minute. See example on page B8.
  - (CC, CF, FL, HA, HB, HI, HR, HS, HU, MD, MO, PM, RE, SC, TE, TW, WC, WD, WP)
- 4. Watershed map. See Section III. (HU, MD, MO, OR, PI, PL, WP)
- 5. Landowner access agreements. See examples on pages B2-B7.

{CW034070.1}

(All projects with on-the-ground work)

- 6. Project 10-year maintenance agreement. See examples on pages B3-B5. (HR, HU)
- 7. Written eligibility certification from CDF. See Section III. (CF)
- 8. Evaluation plan. (see Section III ED, TE). Quality Assessment/Quality Control Plan (see Section III MD, MO).
- 9. Land acquisition/easement information. See page 7, Section III. (HA)
- 10. Water purchase information. See pages 9-10, Section III. (WP)
- 11. Status report. See Section III. (OR, PI)
- 12. 5-year management plan (new projects only). See page 13-14, Section III. (RE)
- 13. Environmental project questionnaire. See form on pages B15-17.

(CC, CF, FL, HA, HB, HI, HR, HS, HU, MD, MO, PM, RE, SC, TW, WC, WD, WP)
 14. Project follows guidelines in the California Coho Salmon Recovery Strategy (RE)
 (Coho related projects must follow guidelines outlined in appendices H or I, view at

http://www.dfg.ca.gov/nafwb/pubs/2003/CohoRecovery/RecoveryStrategy\_20031105.pdf

☐ 15 Drug Free Workplace, Std 21 (Appendix B)
 ☐ 16. Non-Discrimination, Std 19 (Appendix B)

17. Payee Data Record, Std 204 (Appendix B)

#### Supplemental Information Checklist by Project Type

(Please refer to the item numbers above)

Project Type	Item Number	Project Type	Item Number
AC	1	OR	1, 4, 5, 11, 15, 16, 17
CC	1, 2, 3, 5, 13, 15, 16, 17	PI	1, 4, 5, 11, 15, 16, 17
CF	1, 2, 3, 5, 7, 13, 15, 16, 17	PL	1, 4, 5, 15, 16, 17
ED	1, 5, 8, 15, 16, 17	PM	1, 2, 3, 5, 13, 15, 16, 17
FL	1, 2, 3, 5, 13, 15, 16, 17	RE	1, 3, 5, 12, 13, 14, 15, 16, 17
HA	1, 3, 5, 9, 13, 15, 16, 17	SC	1, 2, 3, 5, 13, 15, 16, 17
HB	1, 2, 3, 5, 13, 15, 16, 17	TE	1, 3, 5, 8, 15, 16, 17
<b>'</b> -	1, 2, 3, 5, 13, 15, 16, 17	TW	1, 2, 3, 5, 13, 15, 16, 17
. AR	1, 2, 3, 5, 6, 13, 15, 16, 17	WC	1, 2, 3, 5, 13, 15, 16, 17
HS	1, 2, 3, 5, 13, 15, 16, 17	WD	1, 2, 3, 5, 13, 15, 16, 17
HU	1, 2, 3, 4, 5, 6, 13, 15, 16, 17	WP	1, 3, 4, 5, 10, 13, 15, 16, 17
MD	1, 3, 4, 5, 13, 15, 16, 17	OR	1, 4, 5, 11, 15, 16, 17
MO	1, 2, 3, 4, 5, 13, 15, 16, 17	PI	1, 4, 5, 11, 15, 16, 17

ş