

Notice of Exemption

Appendix E

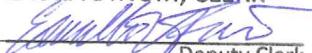
To: Office of Planning and Research
 P.O. Box 3044, Room 113
 Sacramento, CA 95812-3044

County Clerk
 County of: Siskiyou
 311 Fourth Street, Room 201
 Yreka CA 96097

From: (Public Agency): Environmental Health Division
 806 South Main Street
 Yreka CA 96097

FILED
 Siskiyou County
 FEB 07 2024

Project Title: Water Well Permit #24003

LAURA BYNUM, CLERK
 BY: 
 Deputy Clerk

Project Applicant: Butte Valley Irrigation District

Project Location - Specific:
 Macdoel, CA 96058 (APN: 003-420-060)

Project Location - City: Tulelake Macdoel Project Location - County: Siskiyou

Description of Nature, Purpose and Beneficiaries of Project:
 Approval of an agricultural production well replacement.

Name of Public Agency Approving Project: Siskiyou County Community Development

Name of Person or Agency Carrying Out Project: Environmental Health Division

Exempt Status: (check one):

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
- Categorical Exemption. State type and section number: 15061(b)(3)
- Statutory Exemptions. State code number: _____

Reasons why project is exempt:
 The study produced by Lawrence and Associates indicate that the operation of the new well at the proposed location will not induce subsidence and that the well does not pose any threat to human health, safety, or the environment. This well is also consistent with the Groundwater Sustainability Plan for Butte Valley. See study for additional details. See attachment.

Lead Agency
 Contact Person: Rick Dean Area Code/Telephone/Extension: 530-841-2100

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature:  Date: 2/6/2024 Title: Director

Signed by Lead Agency Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code.
 Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

Date Received for filing at OPR: _____

Reason why project is exempt:

The study produced by Lawrence and Associates indicates that the operation of the new well at the proposed location will not induce subsidence or interfere with production or function of existing nearby wells. County staff has determined that the well does not pose any threat to human health, safety, or the environment. Per the Siskiyou County Flood Control District, this well is also consistent with the Groundwater Sustainability Plan for the Tulelake Basin. See study for additional details.

CALIFORNIA ENVIRONMENTAL FEE FORM

On 2/6/2024, Butte Valley Irrigation Dist. filed an application
(Date) (Name)

for development with the County of Siskiyou. Before the application
(Name of City)

is accepted as complete for processing, fees in the following amount(s) must be deposited with the County Clerk.

- Clerk Processing Fee \$50.00
- Negative Declaration \$2,916.75*
- EIR \$4,051.25
- Categorically Exempt \$0.00
- Statutorily Exempt \$0.00
- Fee Exemption issued by the DFG \$0.00
- Other _____ \$ _____

No project shall be operative, vested or final until the required fee is paid. *Public Resources Code §21089 (b)*

On 2/7/2024, Siskiyou Env. Health deposited \$ 50.00,
(Date) (Name)

with the Siskiyou County Clerk .
(Attest)

Application No. 24003
(To be completed when application is received for processing)

Receipt # 2024003039
47-2/07/2024-004

* If it is determined by Siskiyou County that the fee required for a Negative Declaration does not apply to your project a refund will be granted.

Laura Bynum
Siskiyou
County Clerk/Registrar of Voters
311 4th St., Rm. 201
Yreka, CA 96097
(530) 842-8084

Public

Receipt No.: RPT20240000000090

Finalization No.: 2024003039

Cashier: 28

Register: CLK-044

Date/Time: 02/07/2024 03:41 PM

Description	Fee
NOTICE OF EXEMPTION	
Filing Time:	03:41 PM
Filing Total:	No Fee
Filing Fee:	No Fee

Total Amount Due:

Total Paid

Amount Due: \$0.00

THANK YOU
PLEASE KEEP FOR REFERENCE



FY23/24

**INTERGOVERNMENTAL CHARGE
JOURNAL ENTRY**

Date 2/6/2024

FUND	COST CENTER	OBJECT	ACTIVITY CODE	DEPARTMENT	AMOUNT	D/C
1001	207080	728000		Special Dept Expenses	50.00	Debit
1001	201080	551550		Clerk	50.00	Credit

DESCRIPTION

Clerks fee to file/post Notice of Exemption for Approval of an AG well replacement #24003

DEPARTMENT SIGNATURES:

 2/6/24

IGC/J.E. NO.

J 2408458

Groundwater Sustainability Agency Verification Form

Siskiyou County Flood Control and Water Conservation District

Owner Information

Name: Butte Valley Irrigation District
Address: 12224 Old State Hwy
city: Macdoel
Zip: 96058
Phone: 530-398-4515
Email:

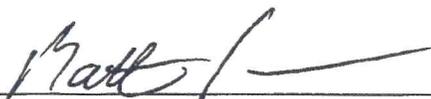
Well Information

A.P.N.: 003-420-060
Latitude: 41.815029
Longitude: 122.019889
Township
Range
Section

Groundwater Sustainability Agency:

- The proposed well is not inconsistent with the Groundwater Sustainability Agency's adopted, or in progress, Groundwater Sustainability Plan; and,
- The proposed well does not interfere with the Groundwater Sustainability Agency's SGMA authorities, including the Agency's addressing of undesirable results and the likelihood of achieving the sustainability goal.

I hereby certify that the GSA has reviewed the above conditions for the subject property for compliance with Executive Order N-7-22 and have marked each box for compliance as applicable.


Groundwater Sustainability Agency Signature

1/30/24
Date

Matt Parker
Printed Name

GSA Plan Manager
Title



January 9, 2024; rev. January 30, 2024

023059.00

District Manager
Butte Valley Irrigation District
12224 Old State Highway
Macdoel, CA 96058

Dear Mr. Cotter:

SUBJECT: EVALUATION OF POTENTIAL INTERFERENCE & SUBSIDENCE IMPACTS FROM PROPOSED IRRIGATION WELL, BUTTE VALLEY IRRIGATION DISTRICT, SISKIYOU COUNTY, CALIFORNIA

This letter describes our evaluation of potential impacts from operation of a proposed irrigation well within the Butte Valley Irrigation District (BVID), Siskiyou County, California (**Text Figures 1 & 2**). Siskiyou County requires such an analysis per the State of California's *Executive Order N-7-22 (Order)*. The relevant section of the Order is as follows:

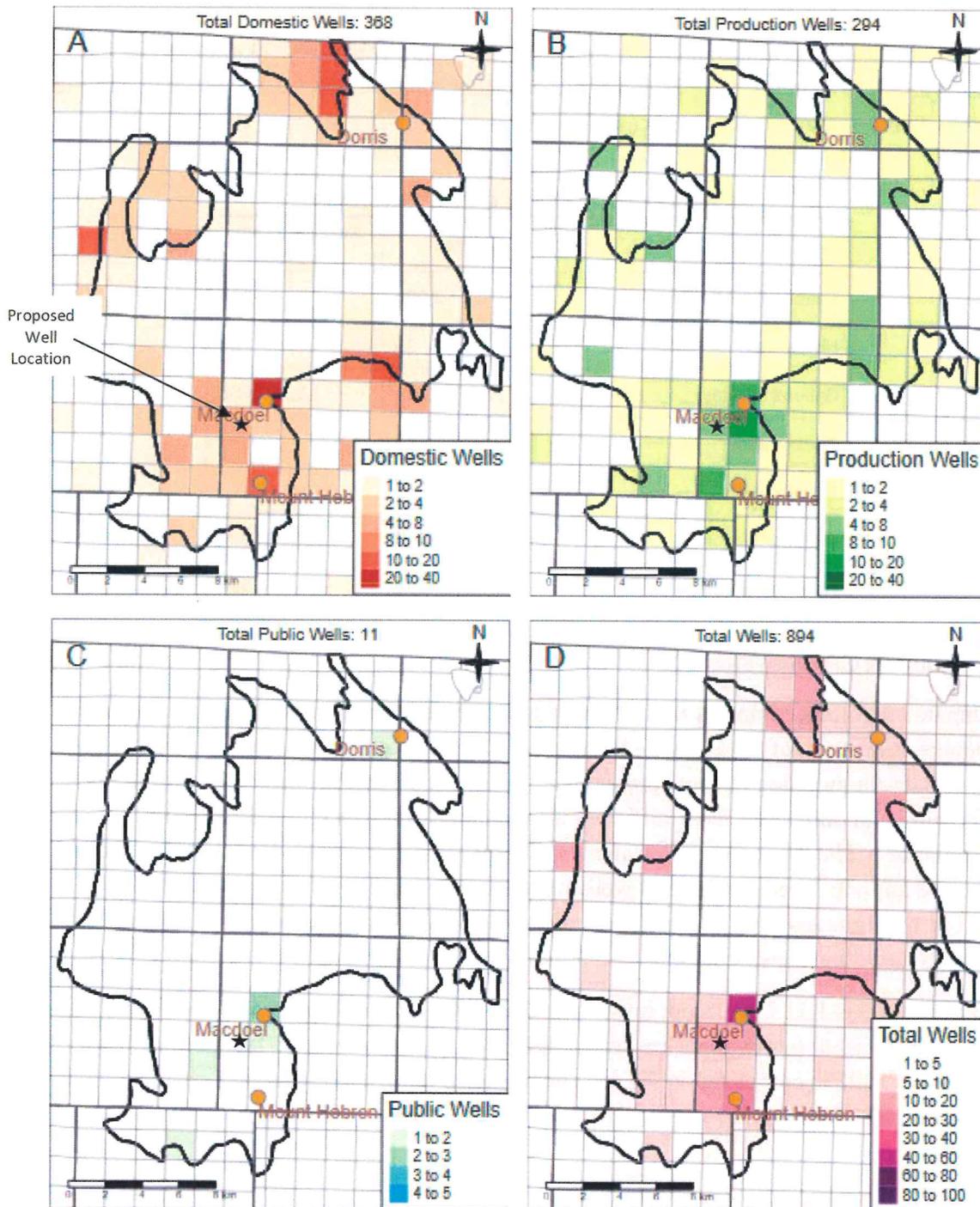
9. To protect health, safety, and the environment during this drought emergency, a county, city, or other public agency shall not:

a. Approve a permit for a new groundwater well or for alteration of an existing well in a basin subject to the Sustainable Groundwater Management Act and classified as medium- or high-priority without first obtaining written verification from a Groundwater Sustainability Agency managing the basin or area of the basin where the well is proposed to be located that groundwater extraction by the proposed well would not be inconsistent with any sustainable groundwater management program established in any applicable Groundwater Sustainability Plan adopted by that Groundwater Sustainability Agency and would not decrease the likelihood of achieving a sustainability goal for the basin covered by such a plan; or

b. Issue a permit for a new groundwater well or for alteration of an existing well without first determining that extraction of groundwater from the proposed well is (1) not likely to interfere with the production and functioning of existing nearby wells, and (2) not likely to cause subsidence that would adversely impact or damage nearby infrastructure. This paragraph shall not apply to permits for wells that will provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code.

The work was conducted under my supervision (California Professional Geologist 6541 and Certified Hydrogeologist No. 626) and support from other Lawrence & Associate staff.

TEXT FIGURE 2
PROPOSED WELL LOCATION & WELLS OF RECORD
 PANEL A – DOMESTIC, PANEL B – PRODUCTION, PANEL C – PUBLIC, PANEL D - ALL
 (TAKEN FROM BUTTE VALLEY GSP¹)



¹ Siskiyou County Flood Control & Water Conservation District, December 2021, *Butte Valley Groundwater Sustainability Plan*, Figure 1.6, p. 20.

The only other deep (greater than 500 feet) well that has publicly available data is a Test Well in Township 46 North, Range 1 West, Section 20. It is over 1,500 feet deep and was tested at 2,980 gpm and showed 60 feet of drawdown.

Table 2 shows the estimated transmissivity of the aquifer at the locations of these three wells.³ To estimate the storage coefficient, we used the estimated transmissivity in the Theis equation, adjusting the storage coefficient until the calculated drawdown roughly matched the observed drawdown. **Table 1** shows the calculation.

TABLE 2
CALCULATION OF AQUIFER COEFFICIENTS FROM EXISTING WELLS

Parameter	Units	BVID #30 (Deep)	BVID #15 (Shallow)	46N 1W S20 Test Well (Deep)	46N 1W S20 Drilled 1948 (Shallow)	46N 1W S18 1307 Meiss Lk. Rd. (Shallow)	46N 1W S17 Juniper Knoll (Shallow)
Transmissivity, T (estimated from log)	gpd/foot	300,000	609,000	63,675	30,000	60,000	333,333
Storage coefficient, S (estimated)	unitless	0.050	0.100	0.100	0.010	0.050	0.100
Discharge, Q	gpm	2,600	2,030	2,980	1,200	1,000	2,000
Length of pumping period	days	0.1	0.3	1.0	0.5	0.3	0.2
Distance from center of well	r, ft	0.5	0.5	0.5	0.5	0.5	0.5
Storage coefficient	S, di'less	0.050	0.100	0.100	0.010	0.050	0.100
Transmissivity	T, gpd/ft	300,000	609,000	63,675	30,000	60,000	333,333
$u = [1.87r^2S/Tt]$	u	6.23E-07	2.30E-07	7.34E-07	3.12E-07	1.17E-06	8.42E-07
Well function of u	W(u)	13.71	14.71	13.55	14.40	13.08	13.41
Drawdown, theoretical = $[s1=114.6QW(u)/T]$	s1, ft	13.62	5.62	72.66	66.03	24.99	9.22
Well efficiency	eff., percent	1.00	1.00	1.00	1.00	1.00	1.00
Calculated drawdown	s2, ft	13.6	5.6	72.7	66.0	25.0	9.2
Observed drawdown	ft	13.0	5.0	70.2	60.0	25.0	9.0
ERROR in any column indicates that the calculation is out of range; that is, the calculation indicates that there would be no effect at that distance.							

³ Transmissivity calculated by multiplying specific capacity by 1,500 (for confined aquifers), per Driscoll, 1986, *Groundwater and Wells*, Appendix 16.D, p.1021.

TABLE 4
CALCULATION OF INTERFERENCE – SEASONAL PUMPING

Parameter	Units	BVID Well	At 1000 feet	At 1 mile	At 2 miles
Transmissivity, <i>T</i> (based on BVID Well #30)	gpd/foot	300,000	300,000	300,000	300,000
Storage coefficient, <i>S</i> (estimated)	unitless	0.050	0.050	0.050	0.050
Discharge, <i>Q</i>	gpm	833	833	833	833
Length of pumping period	days	150	150	150	150
Distance from center of well	<i>r</i> , ft	0.7	1,000	5,280	10,560
Storage coefficient	<i>S</i> , di'less	0.050	0.050	0.050	0.050
Transmissivity	<i>T</i> , gpd/ft	300,000	300,000	300,000	300,000
$u = [1.87r^2S/Tt]$	<i>u</i>	9.23E-10	2.08E-03	5.79E-02	2.32E-01
Well function of <i>u</i>	<i>W(u)</i>	20.23	5.60	2.33	1.09
Drawdown, theoretical = $[s1=114.6QW(u)/T]$	<i>s1</i> , ft	6.44	1.78	0.74	0.35
Well efficiency	eff., percent	1.00	1.00	1.00	1.00
Calculated drawdown	<i>s2</i> , ft	6.4	1.8	0.7	0.3

ERROR in any column indicates that the calculation is out of range; that is, the calculation indicates that there would be no effect at that distance.

SUBSIDENCE IMPACTS

Subsidence from groundwater pumping occurs when an aquifer and/or the surrounding sediments are dewatered (e.g., pumping is greater than recharge). There is no evidence that subsidence is occurring in this area (see map at <https://sgma.water.ca.gov/CalGWLIVE/#subsidence>).

Additionally, according to the Groundwater Sustainability Plan for the Butte Valley Basin “Land subsidence...is not known to be currently or historically significant in the Basin. The maximum observed subsidence is approximately 0.15 ft...between June 2015 to September 2019 in an area west of the City of Dorris. The change in land elevation was likely the result of localized land leveling.”⁴

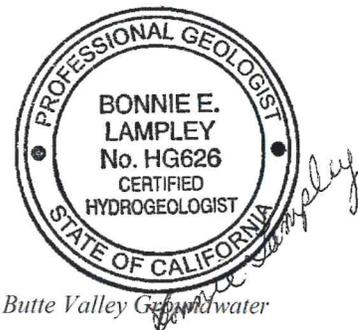
Subsidence attributable to pumping the new well is unlikely to occur in this area.

Please do not hesitate to contact me at (530) 275-4800 or blampley@lwrnc.com if you have any questions regarding this plan.

Sincerely,

Bonnie E. Lampley

Bonnie E. Lampley
 Principal Hydrogeologist



⁴ Siskiyou County Flood Control & Water Conservation District, December 2021, *Butte Valley Groundwater Sustainability Plan*.

Laura Bynum
Siskiyou
County Clerk/Registrar of Voters
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Total Amount Due:

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IGC/J.E. NO. J 2408458