



WATER-RIGHT DOCKET

Lassen Volcanic National Park

Docket No: 7

MANZANITA CREEK

Preliminary Docket Information

09-08-1977: water right/source docket information

WATER RESOURCES/WATER RIGHT		DATE: September 8, 1977	
WATER RIGHT/SOURCE DOCKET INFORMATION			
REGION	Western	AREA	Lassen Volcanic National Park
SITE	Manzanita Creek		
STATE	California	COUNTY	Shasta
		DOCKET NO	WR #7
LOCATION	SE $\frac{1}{4}$, SW $\frac{1}{4}$, sec. 17, T31N, R4E		
REGIONAL BASIN		LOCAL BASIN	
ACQUIRED BY			
APPLICATION	PERMIT	CERTIFICATE	
ACTION DUE	PRIORITY	RESERVATION	
QUANTITY		USE	Domestic
STATUS	Active	SOURCE	Manzanita Creek
REMARKS	hydrologic unit # 18020006		

NARRATIVE: A dam and 8 inch pipeline served the Manzanita Lake area prior to 1958. In that year, the Park Service awarded a contract to completely replace the existing system. Work commenced on July 15, 1958, and was completed by October 14, 1958. A new dam was constructed, with an intake, chlorination building, and a 100,000 gallon steel tank. This system was located on Manzanita Creek, about $\frac{1}{2}$ mile upstream from Reflection Lake. The system was rehabilitated in 1974 and now serves the present facilities, which consist of a campground located to the south of Manzanita Lake.

In 1970, a U.S. Geological Survey report indicated that a portion of the Manzanita Lake facilities were located in an area of possible geologic hazard (rockfall or avalanche, triggered by earthquake or volcanic eruption). As a result of this report, the Service closed all of the facilities for about two years, from 1973 to 1975. Since 1975, the campground has been reopened and extended further to the south. The U.S.G.S. report indicated less hazardous conditions in this area due to the ridge along the west of Manzanita Creek.

There have been no filings with the State Water Resources Control Board for this water system.

Compiled by Kevin Kidder

Approved by W. Werrell

Page 1 of 1

Supporting Hydro Data

Form 10-174
(Rev. 9-56)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION Four	AREA Lassen Volcanic National Park	COUNTY Shasta	STATE California
PROJECT OR JOB TITLE Construction of Water Supply Line Extension			PCP NO. U-58-3
LOCATION IN AREA Manzanita Lake		MASTER PLAN NO. NP-LV-2129	BUILDING NO.
WORKING DRAWING NO AND TITLE NP-LV-3119-A, Water Supply Line Extension			WORK ORDER NO. 332.9
APPROPRIATION TITLE AND SYMBOL			
CONTRACT NO. 14-10-434-275		DATE WORK STARTED July 15, 1958	DATE WORK COMPLETED October 14, 1958
NAME OF CONTRACTOR Fogle Plumbing and Underground Construction Co.		ADDRESS 6969 Eastside Road, Redding, Calif.	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
1. 8" G. I. Pipe	332 L.F.	\$ 6.00	\$ 1,992.00
2. 6" C.I. Pipe	980.1 "	5.00	4,900.50
3. 4" C.I. Pipe	80 "	4.50	360.00
4. 2" G.S. Pipe	36 "	2.50	90.00
5. 8" Gate Valve	2	175.00	350.00
6. 6" Gate Valve	1	125.00	125.00
7. 4" Gate Valve	1	100.00	100.00
8. 2" Gate Valve	1	60.00	60.00
9. Dam with 36" pipe & gate	1		7,775.00
10. Settling Tank with screens	1		1,200.00
11. Chlorination Building	1		2,450.00
12. 100,000 gallon reservoir	1		13,700.00
13. 18" Dia. B.C.C.M.C. pipe (eliminated)			0.00
No. 1 Change Order			
Insulate pipes			225.00
CONTRACT AMOUNT			\$33,327.50
PS&S COSTS			5,835.65
FISCAL CLEARANCE:			
		TOTAL	39,163.15

SUMMARY OF EXPENDITURES

PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES
OTHER		
Contract Payments	33,327.50	
CHANGE ORDERS		
ORIGINAL CONTRACT AMOUNT	FIRST	SECOND
\$ 33,385.00	\$225.00	
FINAL CONTRACT AMOUNT	FOURTH	FIFTH
\$ 33,327.50		SIXTH

THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH
APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES

SUBMITTED BY (Name and title) James T. Brooks, Highway Engineer	DATE Dec 14 1958
APPROVED BY (Name and title) Richard C. Prasil, Acting Superintendent	DATE Dec. 30, 1958

(ATTACH NARRATIVE STATEMENT, PHOTOGRAPHS, AND "AS BUILT" DRAWINGS TO THIS FORM)

NARRATIVE STATEMENT

Construction of water supply line extension for Manzanita Lake Area, Lassen Volcanic National Park.

DESCRIPTION. This project called for the construction of an extension to the existing 8" water pipe line at Manzanita Lake, a 100,000-gallon steel tank, a chlorination building, a screening box, an intake, and a dam.

Plans and supervision of construction were by WODC.

WORK ACCOMPLISHED. The work included in the contract was extending the 8" C.I. pipe, constructing a 100,000-gallon tank, a chlorination building, a screening box, an intake, and a dam.

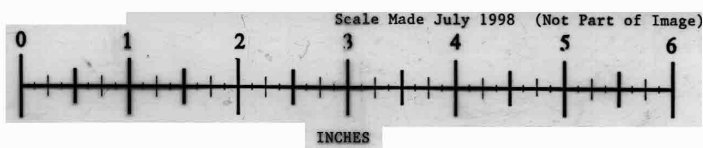
PROJECT ACTIVITIES. The contractor began work in July and completed the project in October.

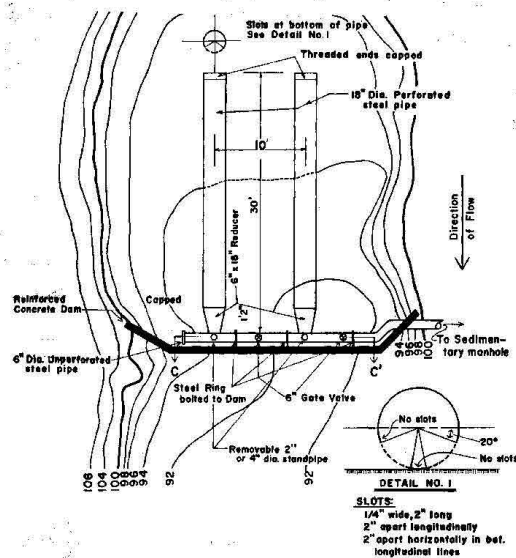
CHANGE ORDER NO. 1. The change order was issued to provide insulation on the water pipe attached in exposed locations on the tank. The work resulted in a usable facility.

The 8" pipe has been disconnected from the old dam and inlet; however, the original 4" connection is still in operable condition. This old intake should be watched and if water leaks from it, the 4" pipe should be cut and plugged.

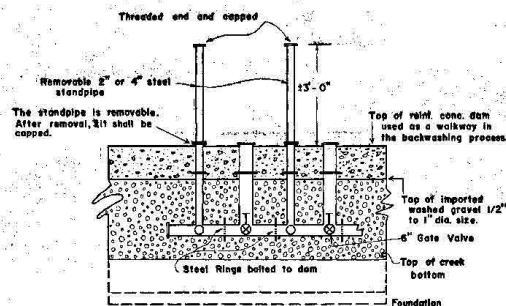
The inlet still lets a lot of debris enter the screening box.

It is recommended that an open end cylinder-shaped screen be placed over the end of the inlet and let extend down in front of the 36" gate.





PLAN VIEW
A TYPICAL WATER INTAKE STRUCTURE WITH
BACKWASHING CAPABILITY



SECTIONAL VIEW C-C

1. To backwash the 18-inch diameter perforated pipes, one or both gate valves must be closed and the standpipe mounted.
2. A portable gasoline driven pump is needed with all the accessories (suction and feeding hose and fittings). A 10-15 HP visconsin type pump is recommended. The operator of the pump shall gradually introduce the pump pumping capacity. In selecting the horse power of the pump, the versatility of the pump shall be considered such as: using the pump for fire fighting, emergency water pumping, etc. Ten horse power minimum is recommended for backwashing the water intake pipes, assuming not less than 18-inch diameter will be used.
3. The top of the concrete dam should be used as a walkway to approach the standpipes.
4. After rainstorms, the sedimentary crust that settles on top of the gravel could be broken up by hosing down the surface.
5. Should clayey type of deposit settle in depth in the gravel pack above the perforated pipe, then a 2-inch perforated pipe welded to the standpipe on top of the perforated intake pipes could backwash and clean the gravel pack.
6. The above system was constructed and tested with excellent results in Lassen Volcanic National Park.

*These are the plans used in the 1995 rehab of the
surface water diversion system for Manzanita Lake.
W. Wernke 6/20/99*

Other Supporting Information

L1425
(WR)RP

February 26, 1979

Witvicki (later)
Adams
Kilgore
Davis
Reg. Dir.

Memorandum

To: Manager, Denver Service Center
Attention: Assistant Manager, Pacific Northwest/Western Team
From: ACTING Regional Director, Western Region
Subject: Proposed subdivision near Manzanita Chutes area, Lassen
Volcanic National Park

Enclosed is a map and copy of a memorandum from Superintendent Stephen ~~SON~~
concerning the above subject.

This is provided for information purposes only. Perhaps the Superintendent
will have more information on the proposal and we can discuss it briefly
during the Manzanita Chutes presentation here on March 5.

(SGD) JOHN H. DAVIS

Enclosures 2

cc: Supt, LAVO

JAdams/j1



IN REPLY REFER TO:

L1425

United States Department of the Interior

NATIONAL PARK SERVICE
LASSEN VOLCANIC NATIONAL PARK
MINERAL, CALIFORNIA 96063

February 20, 1979

Memorandum

To: Regional Director, Western Region
From: Superintendent, Lassen Volcanic
Subject: Proposed Subdivision

The Shasta County Planning Department has asked us to review and comment on a proposed subdivision on private land that lies immediately west of Section 13, Manzanita Lake area. The enclosed map will give you its location.

As far as we know now this will be strictly a residential subdivision with no commercial facilities, but that could change. We are concerned about this development for a number of reasons. First of all it will be very closed to Section 13 where our major development for the Manzanita Lake area will be constructed. The sewage disposal system for our area will be located toward the western side of Section 13 and therefore quite close to the proposed subdivision. Downwind odors could be a problem. We plan to use Manzanita Creek in the landscape plan for our new development. Manzanita Creek also crosses this subdivision. Will this present a water rights problem?

Though we have no control over what is constructed on this subdivision, commercial facilities such as a motel, store and restaurant could have an effect on what we plan to provide in the way of visitor services on Section 13.

We will keep you informed of future developments.

W. Stephenson
W. Stephenson

Enclosure

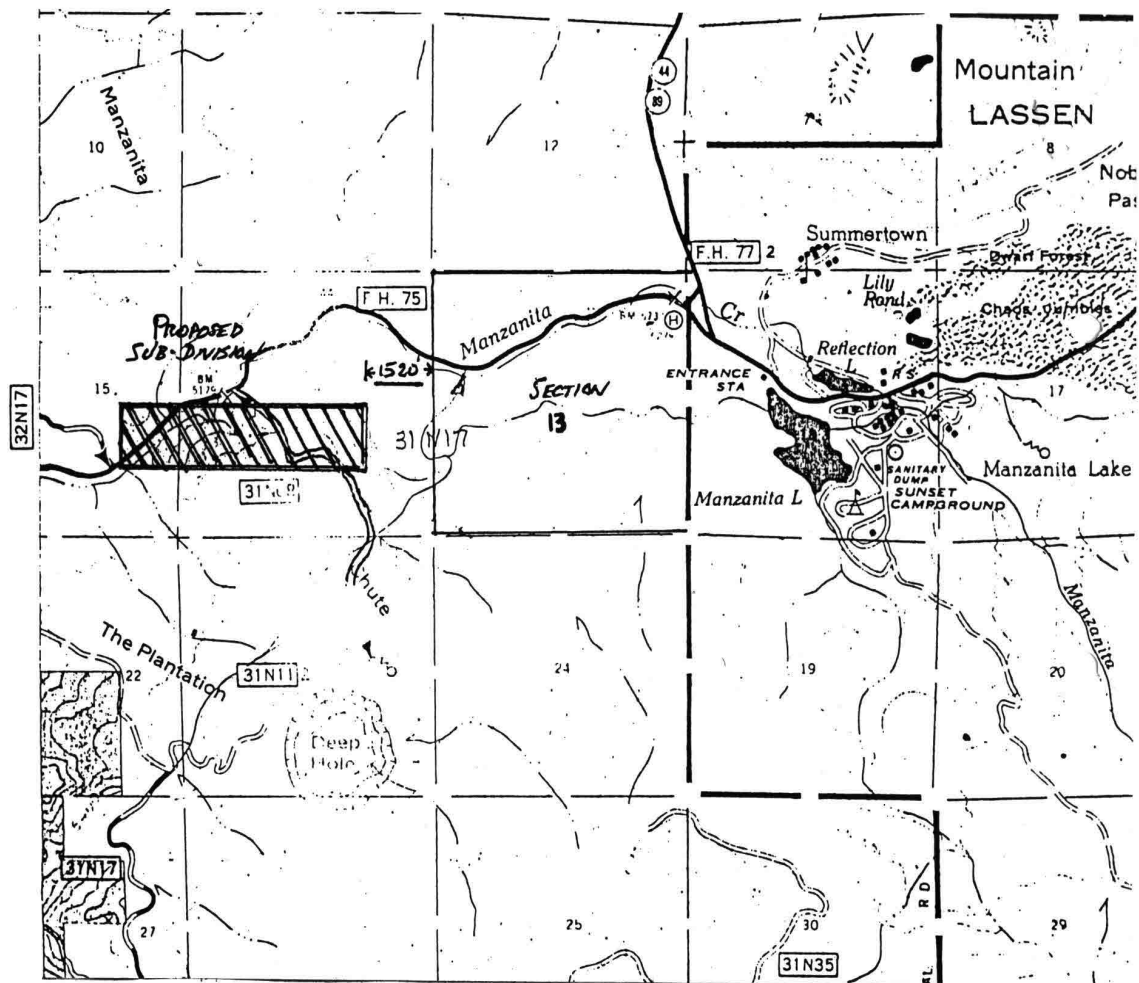
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RECEIVED	
Western Regional Office	
FEB 21 '79	
Regional Director	<i>[initials]</i>
Dep. Regional Dir.	<i>[initials]</i>
Administration	
Operations	<i>[initials]</i>
Res. Mgmt. Plan	<i>[initials]</i>
Adams	<i>[initials]</i>
W. Tucker	<i>[initials]</i>
EEO	
Public Affairs	
Action 1. on	<i>[initials]</i>

Enc 12

Copies sent to D's on Feb 23, 1979

Enc 2





UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

January 18, 1960

IN REPLY REFER TO:

L54-OBL

RECEIVE
NPS REGION FOUR OF

JAN 20 '60

SURNAME	
REG. DIR.	
ASST. R.D.	
OPERATIONS	
ADMIN.	
RECREATION	
RANGER ACT	

Manley D.F.

Memorandum

To: Regional Director, Region Four

From: Chief, Water Resources Section

Subject: Transmittal Water Right Docket 7, Manzanita Creek, Lassen
Volcanic National Park

Attached is your folder of the subject docket which now contains a copy of completion report, dated December 30, 1958, and copy of sheet 1 of Drawing NP-LV-6976. The drawing is a part of a report on Manzanita Creek water rights, which I compiled in 1938, which was distributed to you, the Regional Engineer and Associate Engineer Reed on October 10, 1938, and to the Superintendent on September 8, 1938.

My memorandum of October 30, 1959, explains the need for the assembly of records of water development.

*not found
LSS 1/20/60*

A. van V. Dunn

A. van V. Dunn
Chief, Water Resources Section

Attachment

Copy to: Superintendent, Lassen, w/identical docket assembly
Chief, WODC (2), w/identical docket assembly

Docket Information

Number of Documents in Docket 9

Documents Dated from 12/30/1958 to 2/26/1979

Docket Compiled: 4/26/2011