

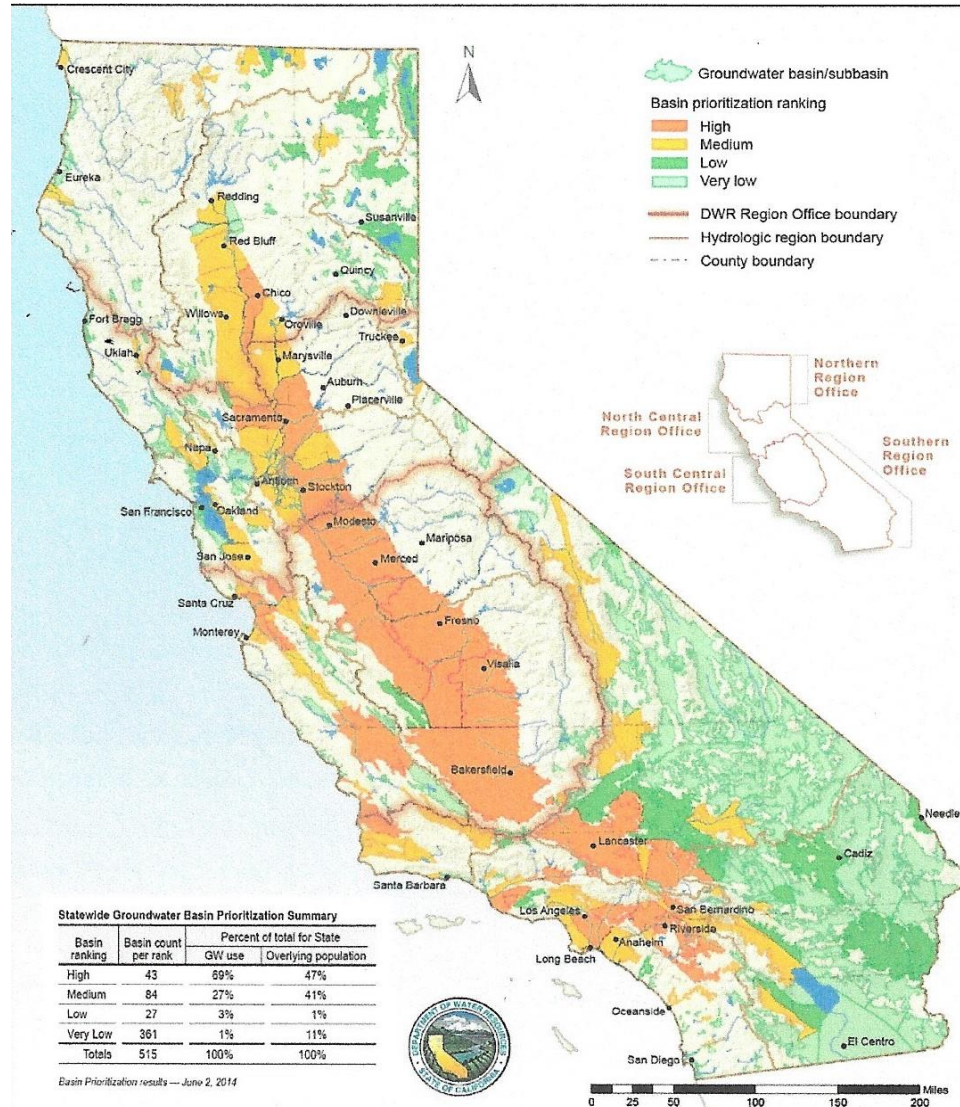
WHEELER CREST COMMUNITY SERVICE DISTRICT



Sustainable Groundwater Management Act

- Passed in California in 2014
- Local agencies form groundwater sustainable agencies (GSA), develop groundwater sustainability plans (GSP), and implement plans to manage groundwater.
- If local agencies fail to form groundwater sustainability agencies or develop and implement groundwater sustainability plans, State Water Resources Control Board implements interim plan

Sustainable Groundwater Management Act

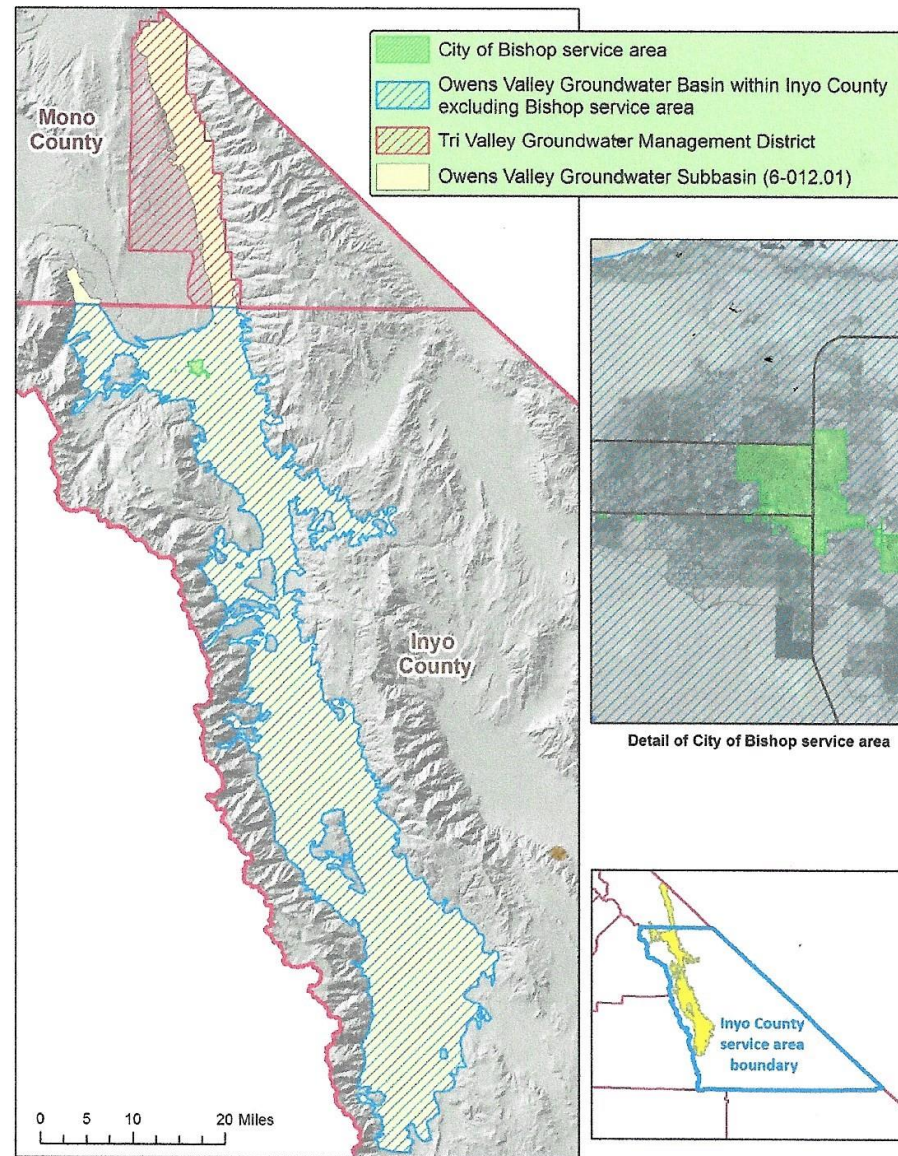
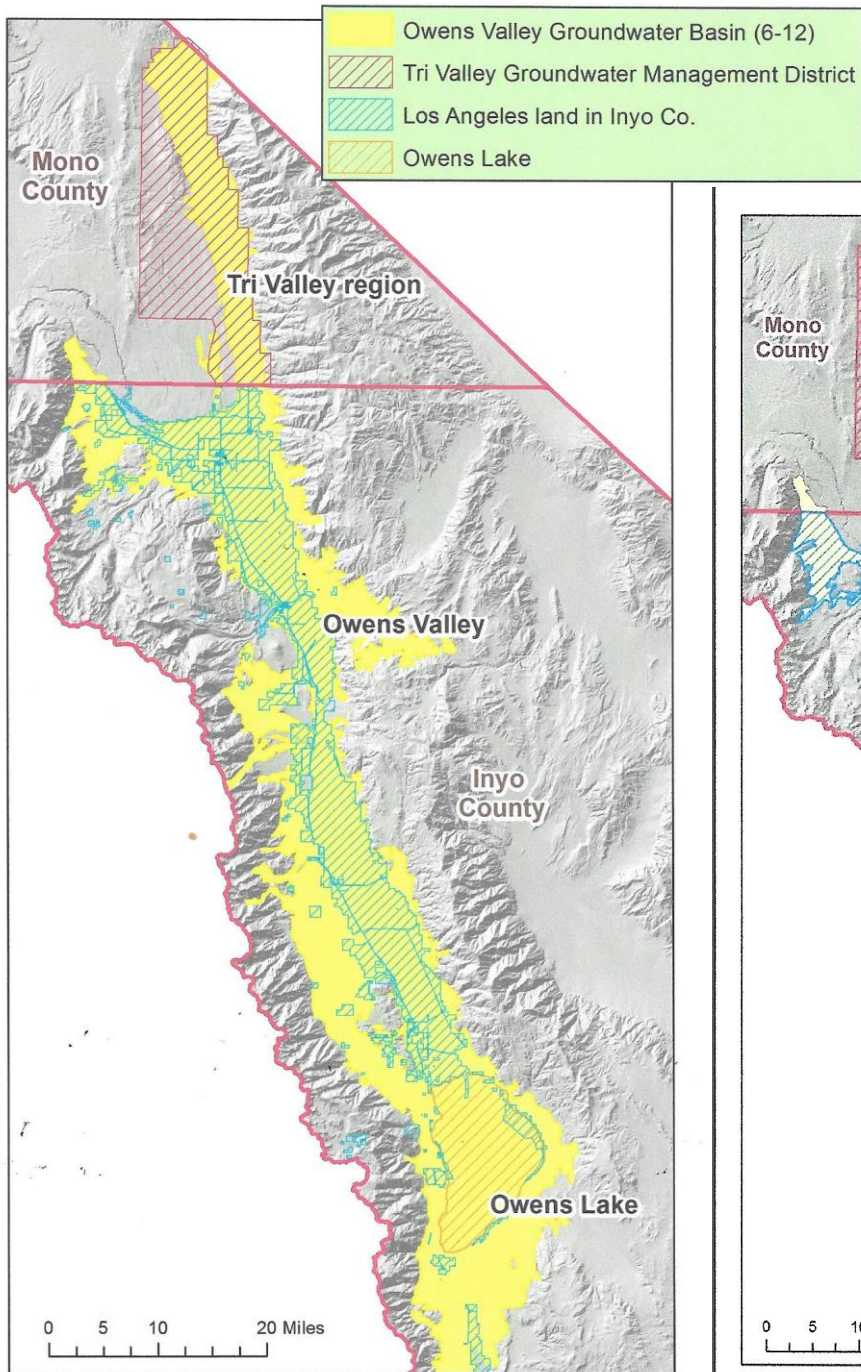


SGMA – Goals or Objectives

- Chronic lowering of groundwater levels
- Significant reduction in groundwater storage
- Significant seawater intrusion
- Significant degradation of water quality
- Significant land subsidence
- Surface water depletions that have adverse impacts on the beneficial uses of surface water

SGMA - Timeline

- June 30, 2017 – form Groundwater Sustainability Agencies (GSA) or multiple non-overlapping GSA's that cover the entire basin.
 - Inyo County
 - Mono County
 - Tri-Valley Water District
 - City of Bishop
- January 31, 2022 – manage basin according to a Groundwater Sustainability Plan (GSP) or multiple coordinated plans
- Subsequent to January 31, 2022 – implement GSP and achieve sustainability by 2042.



Owens Valley Groundwater Basin Local Agencies

Special Act District

- Tri Valley Groundwater Management District

Counties

- Mono County
- Inyo County

Cities

- City of Bishop

Community Service Districts

- Big Pine CSD
- Eastern Sierra CSD
- Starlite CSD
- Indian Creek-Westridge CSD
- Keeler CSD
- Lone Pine CSD
- Sierra Highlands CSD
- Sierra North CSD
- Wheeler Crest CSD

Joint Powers Agreement

- Proposed by Inyo County
- Build a single GSP –estimated cost \$865,915
- All other GSA's must rescind their status
- Funded by Eligible entities
 - Full funding member – 4 votes @ \$66,645
 - Non-funding member – 2 votes @ \$0
 - Members can “buy” votes from non-funding.
- Grant initially approved in the amount of \$ 713,155

SGMA PARTICIPANTS

- 1 Agricultural Businesses
- 2 Disadvantaged Communities Not Already Represented
- 3 Domestic Well Owner Groups
- 4 Environmental Organizations
- 5 Environmental Users
- 6 Federal Agencies
- 7 Mutual Water Companies
- 8 Non-Agricultural Businesses with private wells
- 9 Public Water Systems
- 10 State Agencies
- 11 Tribes
- 12 Others as set forth in SGMA section 10727.8

Objective of the GSP

- The objective of the GSP will be to maintain and enhance the existing sustainable management practices in the Basin through the preparation and implementation of a GSP, including compiling information to identify and fill any gaps in data, analysis, or management that may exist.
- The Basin is medium priority and not in critical overdraft, and the Inyo/Los Angeles Water Agreement, which regulates groundwater management activity in about 40% of the Basin area and 65% of the Basin's pumpage, is treated as adjudicated and therefore is exempt from SGMA (Water Code §10720.8 (c)).
- Key planning goals for the GSP are to mesh GSP management with the Inyo/Los Angeles Agreement so as to build on the existing sustainable practices, compile basin-wide hydrologic data, identify data gaps, characterize the basin, identify management areas, develop management area sustainability criteria, and identify management-area-specific activities to be undertaken during plan implementation.

GSP Budget – Admin and Support

Cost Share Waiver request? Yes.					
Tasks		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source ¹	Other Cost Share	Total Cost
Work Plan Table 1 – GSA Admin. & Support					
1.	Submit JPA to State		500		500
2.	Submit OVGA GSA notice to DWR		500		500
3.	Withdraw existing GSA notices		500		500
4.	Preparation of initial budget		680		680
5.	Website development		11,700		11,700
6.	Initial site visit		600		600
7.	Grant proposal		5,100		5,100
8.	GSA meeting prep and archiving		15,400		15,400
9.	GSA legal counsel		36,000		36,000
10.	Outreach to associates & others		2,200		2,200
11.	Public workshops		7,200		7,200
12.	Basin boundary modification		5,100		5,100
13.	Data submittal to State		2,040		2,040
14.	Procure consultant		3,400		3,400
15.	Plan review		14,960		14,960
16.	Plan approval		---		---
17.	Plan submittal to DWR		340		340
18.	DWR plan review		---		---
19.	GSP revision and resubmittal		2,040		2,040
GSA admin and support subtotal			108,260		108,260

Work Plan Table 2 – GSP Preparation Tasks

GSP Budget – Preparation Tasks

Work Plan Table 2 – GSP Preparation Tasks					
1.	Initial site visit	15,000			15,000
2.	Data and document compilation review, and management	60,000	5,000		65,000
3.	Interagency agreements	25,000	5,000		30,000
4.	GSP area and GSP information	22,000	5,000		27,000
5.	Basin setting	132,500	7,500		140,000
6.	Sustainable management criteria	27,000			27,000
7.	Progress report public meeting	15,000			15,000
8.	Develop/refine monitoring program	30,000			30,000
9.	Identify and describe projects				
	a. Cost and rate study	18,000			18,000
	b. Assessment and reconciliation of groundwater models	25,000			25,000
	c. Coordination w. Inyo/LA Water Agreement	12,000	12,000		24,000
	d. Monitoring network improvement	15,000	10,000		25,000
	e. LADWP gw development at Owens Lake	5,000			5,000
	f. Tri Valley/Owens Valley/ Fish Slough groundwater flow paths	25,000			25,000
	g. Examination of hydro factors affecting W. Bishop	23,500			23,500
	h. Recommendations for other studies	15,500			15,500
10.	Devel. Implementation budget & schedule	7,000			7,000
11.	Devel. System for annual reporting	12,000			12,000
12.	Compilation, presentation, submittal of GSP	135,000			135,000
13.	Address GSP deficiencies and resubmit	15,000			15,000
14.	Coordination meetings	32,000			32,000
GSP preparation subtotal		666,500	44,500		711,000
15.	Grant administration (7% of subtotal)	46,655			
Total		713,155	152,760		865,915
Footnote: 1. See 'Proposal Budget' table below for explanation of non-State funding sources.					

SGMA – possible impact to Hilltop

- Maybe nothing?
- Additional costs in building of the plan?
- Installation of individual meters?

Untitled Map

Write a description for your map.

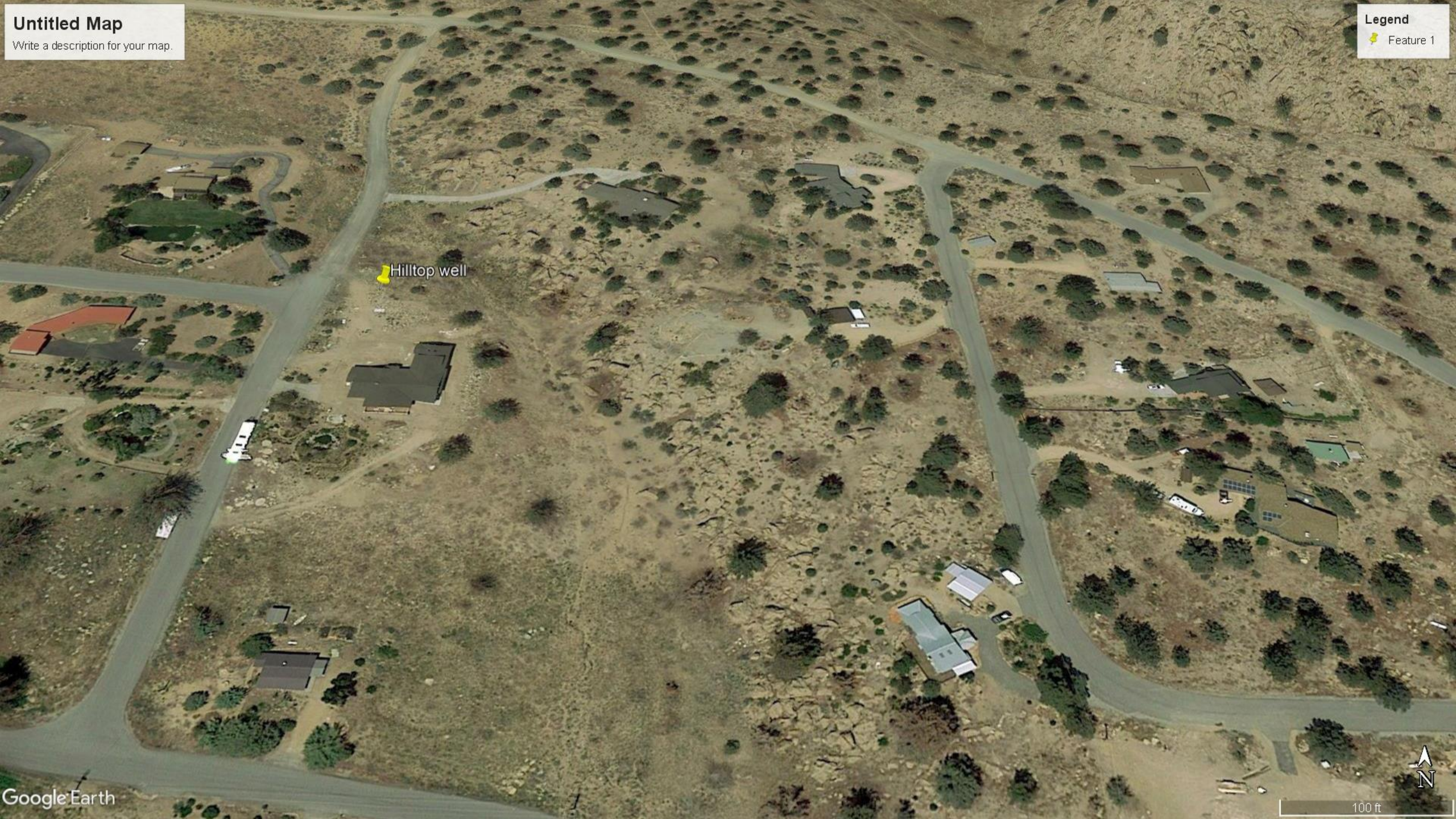
Legend

Feature 1



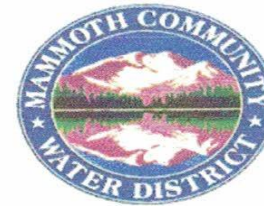
Repair work completed

- Main line from Hilltop well to Swall Meadows Rd replaced
- 5 new valves installed
- At least 3 valves were not working (could not be closed)
- Significant leak detected
- 3 leaks in a 2 year period
- No leaks reported since repair
- Water spigot removed
- Total cost \$9,696



To:
 Wheeler Crest CSD
 129 Willow Road
 Swall Meadows, CA 93514

Date: 12/31/2018



Laboratory Results: System #: 2600504

Date	Time	Sample I.D.	CI2	Analysis Performed	Results
7/29/2018	19:00	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	18:30	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	18:45	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.
8/23/2018	7:00	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	7:15	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:00	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.
9/28/2018	6:00	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	6:15	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	6:30	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.
10/24/2018	7:00	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:00	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:30	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.
11/27/2018	7:00	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	7:15	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:00	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.
12/18/2018	7:30	Pinon		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:00	Rimrock		Colilert Present / Absent	TC Neg. / FC,EC Neg.
	8:30	Hilltop		Colilert Present / Absent	TC Neg. / FC,EC Neg.

TC = Total Coliform
 FC = Fecal Coliform
 EC = Escherichia Coliform (E. Coli)
 Neg. = Absence of Coliform Organisms
 Pos. = Presence of Coliform Organisms

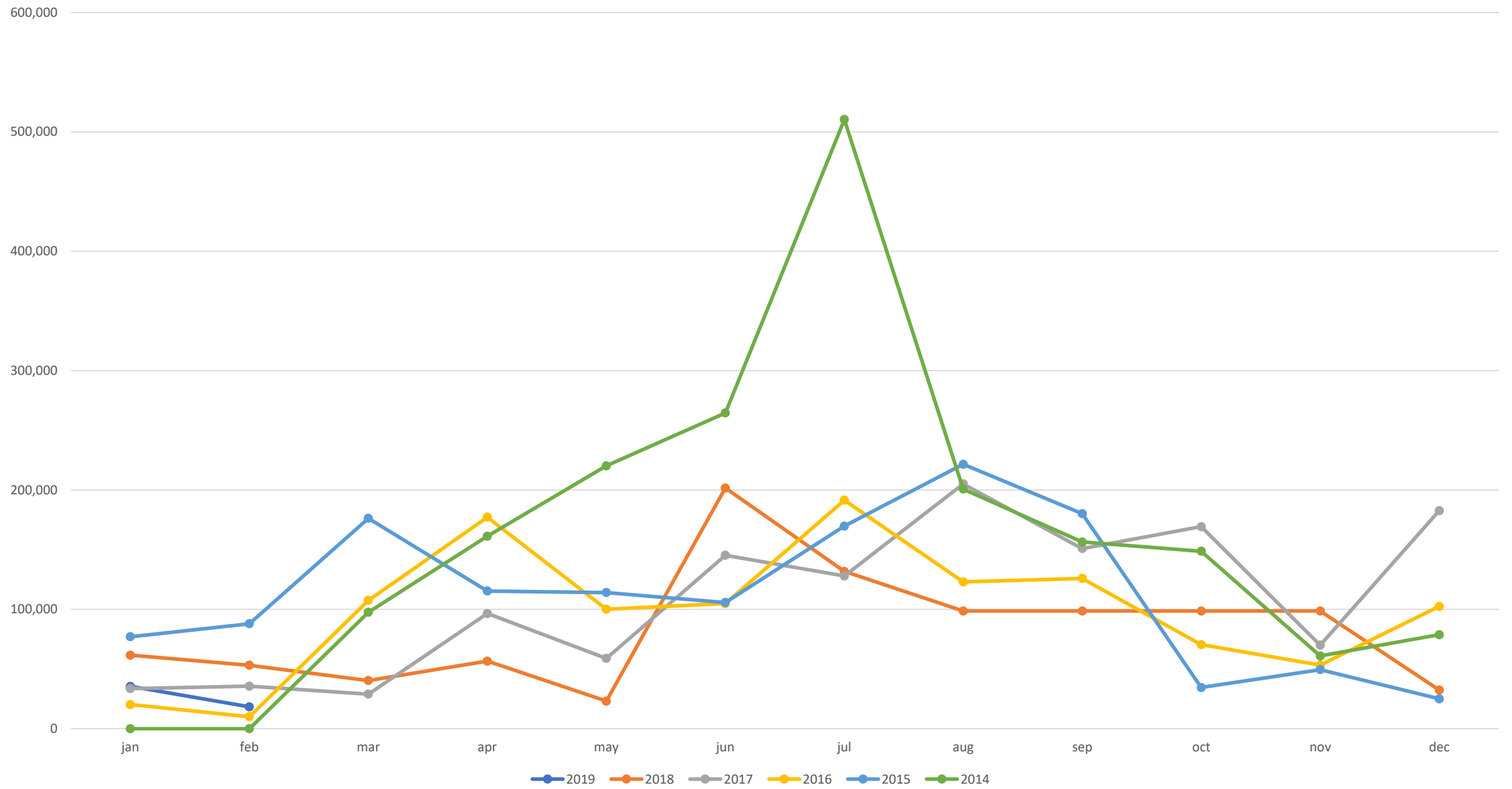
Blair Hafner

Blair Hafner
 Laboratory Technician
 ELAP Certification Number 1453
 760-934-2596 ext. 249

Low Pressure Incident

- Reservoir went dry – loss of siphon – Switched to new well
- re-established siphon - filled reservoir
- Switched back to artesian / reservoir – still low pressure
- No leak in reservoir or downstream to vault
- “Burped” air out of line – normal pressure finally restored

Hilltop Monthly Water Usage



Hilltop Annual Water Usage

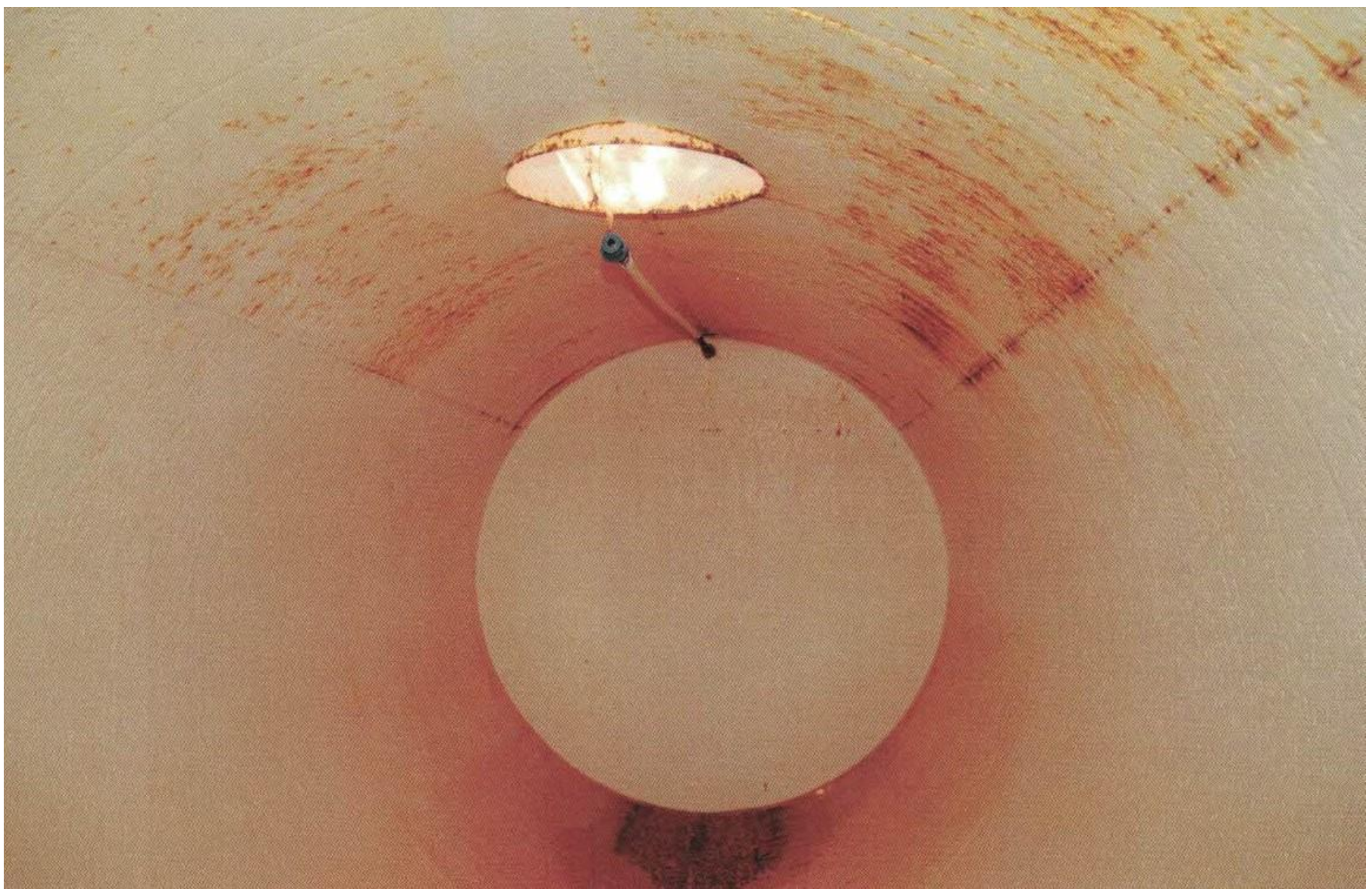
		jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
2019	Gallons	35,467	18,305										
	per user	2,533	1,308										
2018	Gallons	61,605	53,187	40,337	56,638	23,146	201,615	131,799	98,638	98,638	98,638	98,638	32,390
	per user	4,400	3,799	2,881	4,046	1,653	14,401	9,414	7,046	7,046	7,046	7,046	2,314
2017	Gallons	33,600	35,645	29,011	96,476	58,941	145,325	127,943	205,083	150,895	169,268	69,990	182,618
	per user	2,400	2,546	2,072	6,891	4,210	10,380	9,139	14,649	10,778	12,091	4,999	13,044
2016	Gallons	20,231	10,085	107,504	177,199	100,127	104,809	191,475	122,975	125,917	70,421	53,272	102,408
	per user	1,445	720	7,679	12,657	7,152	7,486	13,677	8,784	8,994	5,030	3,805	7,315
2015	Gallons	77,044	87,956	176,234	115,378	114,086	105,742	169,785	221,495	180,145	34,497	49,516	25,074
	per user	5,503	6,283	12,588	8,241	8,149	7,553	12,128	15,821	12,868	2,464	3,537	1,791
2014	Gallons	0	0	97,585	161,272	220,226	264,501	510,338	200,726	156,421	148,702	60,929	78,701
	per user	0	0	6,970	11,519	15,730	18,893	36,453	14,338	11,173	10,622	4,352	5,621

Balance of general fund

- January 9, 2019 the Hilltop general fund has a balance of \$10,843.

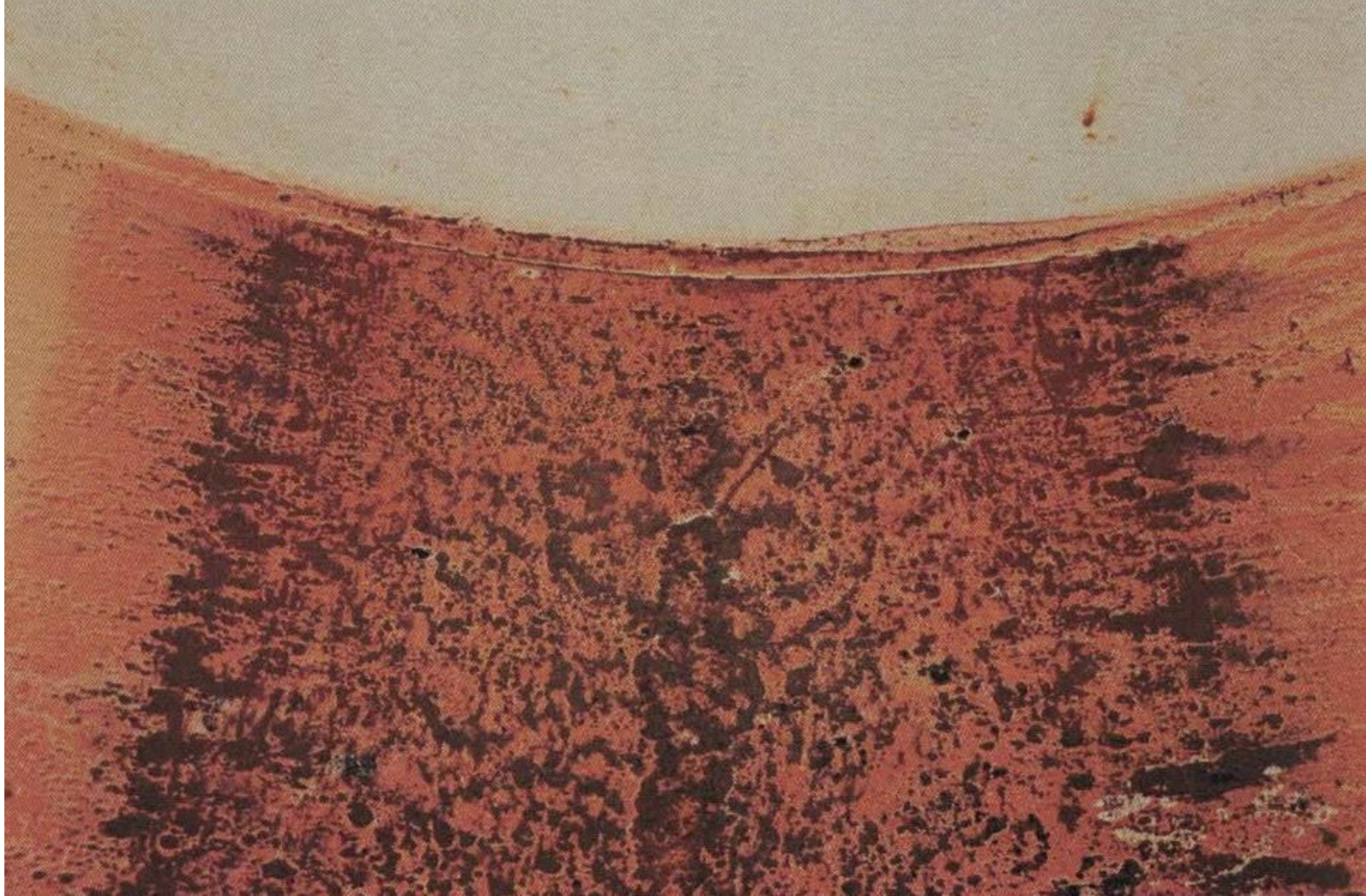
	Annual		Net	Fund
	Income	Expense	Gain	Balance
2018				\$14,700
2019	\$9,100	(\$7,000)	\$2,100	\$16,800
2020	\$9,100	(\$7,000)	\$2,100	\$18,900
2021	\$9,100	(\$7,000)	\$2,100	\$21,000
2022	\$9,100	(\$7,000)	\$2,100	\$23,100

Tank Inspection









Engineering Study

- External Surface – not evaluated
- No cathodic protection – Make it act like a cathode
- No heavy metals from interior coating sample (lead, zinc, chrom)
- Overall interior surface – fair to poor condition
 - Below water line – good to fair condition
 - Above water line – moderate to severe condition
 - Inlet pipe – severely corroded
- “moderate to severe pitting of the substrate under the existing coating system is due to previous corrosion prior to applying the existing coating system”.

Artesian Reservoir Options

- Sandblast / Paint
- Order Engineering Report for possible replacement
- Do nothing for now

Sandblast and Paint

- Abrasive blast cleaning with epoxy coating system
- \$20,000 - \$28,500
- Assumption that surfaces are classified as a non-hazardous material / waste project.
- Costs over \$25,000 must be put out to bid.

Replace tank with one or several poly tanks

- Requires engineering study
- Easement maps and boundary have been researched.
- Possible replacement strategies
 - Replace tank with poly tank
 - Replace tank with 2 poly tanks
 - Cut off existing tank and place poly tanks inside
- Engineering study cost - ????

Do nothing for now

- Wait until we have a little more reserves built up
- Can always use back-up well
- If reservoir fails or any part of the artesian delivery system, it will require time and resources to fix if it is decided to fix.

Any other major projects?

- Mainline replacement from artesian to reservoir
- Mainline replacement from value cluster up Pine